

2015 - 2016

# UNDERGRADUATE CATALOG



**USF** UNIVERSITY OF  
SOUTH FLORIDA

# UNDERGRADUATE CATALOG OF THE UNIVERSITY OF SOUTH FLORIDA 2015-2016



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#### General Use Guidelines:

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

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

*The University of South Florida is committed to the principles of equal education, equal access, and equal employment opportunities without regard to race, color, marital status, sex, religion, national origin, disability, age, or Vietnam or disabled veteran status as provided by law and in accordance with the University's respect for personal dignity. These principles are applied in the conduct of University programs and activities and the provision of facilities and services.*

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# ACADEMIC CALENDAR FOR UNDERGRADUATE STUDENTS

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## FALL SEMESTER, 2015

January 2	Friday	Priority scholarship application deadline for First Time in College Students for Fall semester (new freshmen) and international applicants
March 1	Sunday	Application deadline for First Time in College Students for Fall semester (new freshmen)
June 1	Sunday	Application deadline date for international applicants to apply for admission and submit all required credentials and supporting documents
June 1	Sunday	Application deadline date for undergraduate transfers to apply for admission
July 15	Wednesday	Deadline for undergraduate transfers to submit all documentation to complete applicant file
July 27	Monday	Deadline for Former Degree Seeking Students to reapply for Fall semester (20 business days before classes begin)
August 24	Monday	Classes begin
August 28	Friday	Last day to withdraw/drop and receive full refund of registration fees - Deadline: 5:00 p.m.
August 28	Friday	Last day to add courses - Deadline: 5:00 p.m.
August 28	Friday	Last day for late registration - Deadline: 5:00 p.m.
August 28	Friday	Last day to pay fees
September 7	Monday	Labor Day holiday – USF is closed
September 18	Friday	Graduation Application deadline
October 31	Saturday	Last day to drop or withdraw from courses without academic penalty - Deadline: 5:00 p.m.
November 11	Wednesday	Veteran's Day holiday – USF is closed
November 26-27	Thursday-Friday	Thanksgiving holiday – USF is closed
December 4	Friday	Fall Classes end
December 5-11	Saturday-Friday	Final examinations
December 11-12	Friday & Saturday	Commencement (Tampa)

## SPRING SEMESTER, 2016

October 1	Thursday	Application deadline date for international transfer applicants to apply for admission and submit all required credentials and supporting documents.
October 1	Thursday	Application deadline date for First Time In College students and undergraduate transfers to apply for admission
November 15	Sunday	Deadline for undergraduate transfers to submit all documentation to complete applicant file
December 1	Tuesday	Application deadline for Former Degree Seeking Students to reapply for Spring semester (20 business days before classes begin)
January 11	Monday	Classes begin
January 15	Friday	Last day to withdraw/drop and receive full refund of registration fees - Deadline: 5:00 p.m.
January 15	Friday	Last day to add courses - Deadline: 5:00 p.m.
January 15	Friday	Last day for late registration - Deadline: 5:00 p.m.
January 15	Friday	Last day to pay fees
January 18	Monday	Martin Luther King holiday – USF is closed
February 5	Friday	Graduation application deadline
March 14-19	Monday-Saturday	Spring Semester Break
March 1	Tuesday	Application deadline for First Time in College Students for Fall semester (new freshmen)
March 26	Saturday	Last day to drop or withdraw from courses without academic penalty - Deadline: 5:00 p.m.
April 29	Friday	Classes end
April 30-May 6	Saturday - Friday	Final examinations
May 6-7	Friday & Saturday	Commencement (Tampa)

# ACADEMIC CALENDAR FOR UNDERGRADUATE STUDENTS

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

## SUMMER TERM, 2016

### SESSION A

#### (First Six-week Session)

January 2	Saturday	Priority scholarship application deadline for First Time in College (new freshmen) and international students
March 1	Tuesday	Application deadline date for international freshman or transfer applicants outside of the United States to apply for admission and submit all required credentials and supporting documents
March 1	Tuesday	Application deadline for First Time in College Students for Summer semester (new freshmen)
March 1	Tuesday	Application deadline date for undergraduate transfers to apply for admission
April 15	Friday	Application deadline for Former Degree Seeking Students applying for the summer term (20 business days prior to the first day of classes)
April 15	Friday	Deadline for undergraduate transfers to submit all documentation to complete applicant file
May 16	Monday	Classes begin
May 20	Friday	Last day to withdraw/drop and receive full refund of registration fees - Deadline: 5:00 p.m.
May 20	Friday	Last day to add courses
May 20	Friday	Last day for late registration
May 20	Friday	Last day to pay fees
May 30	Monday	Memorial Day holiday – USF is closed
June 10	Friday	Graduation application deadline
June 11	Saturday	Last day to drop or withdraw from courses without academic penalty - Deadline: 5:00 p.m.
June 24	Friday	Last day of classes
August 6	Saturday	Summer Commencement (Tampa) - Tentative Date

### SESSION B

#### (Second Six-week Session)

January 2	Saturday	Priority scholarship application deadline for First Time in College (new freshmen) and international students
March 1	Tuesday	Application deadline date for international freshman or transfer applicants outside of the United States to apply for admission and submit all required credentials and supporting documents
March 1	Tuesday	Application deadline for First Time in College Students for Summer semester (new freshmen)
March 1	Tuesday	Application deadline date for undergraduate transfers to apply for admission
March 1	Tuesday	Application deadline date for international transfer applicants currently in the United States to apply for admission and submit all required credentials and supporting documents
April 15	Friday	Deadline for undergraduate transfers to submit all documentation to complete applicant file
June 10	Friday	Graduation application deadline
June 15	Wednesday	Application deadline for Former Degree Seeking Students applying for the summer term (20 business days prior to the first day of classes)
June 27	Monday	Classes begin
July 1	Friday	Last day to withdraw/drop and receive full refund of registration fees - Deadline: 5:00 p.m.
July 1	Friday	Last day to add courses
July 1	Friday	Last day for late registration
July 1	Friday	Last day to pay fees
July 4	Monday	Independence Day holiday – USF is closed
July 23	Saturday	Last day to drop or withdraw from courses without academic penalty - Deadline: 5:00 p.m.
August 5	Friday	Last day of classes
August 6	Saturday	Summer Commencement (Tampa) - Tentative Date

# ACADEMIC CALENDAR FOR UNDERGRADUATE STUDENTS

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## SESSION C (Ten-week Session)

March 1	Tuesday	Application deadline date for international freshman or transfer applicants outside of the United States to apply for admission and submit all required credentials and supporting documents
March 1	Tuesday	Application deadline for First Time in College Students for Summer semester (new freshmen)
March 1	Tuesday	Application deadline date for undergraduate transfers to apply for admission
March 1	Tuesday	Application deadline date for international transfer applicants currently in the United States to apply for admission and submit all required credentials and supporting documents
April 15	Friday	Application deadline for Former Degree Seeking Students applying for the Summer term (20 business days prior to the first day of classes)
April 15	Friday	Deadline for undergraduate transfers to submit all documentation to complete applicant file
May 16	Monday	Classes begin
May 20	Friday	Last day to withdraw/drop and receive full refund of registration fees - Deadline: 5:00 p.m.
May 20	Friday	Last day to add courses
May 20	Friday	Last day for late registration
May 20	Friday	Last day to pay fees
May 30	Monday	Memorial Day holiday – USF is closed
June 10	Friday	Graduation application deadline
July 2	Saturday	Last day to drop or withdraw from courses without academic penalty - Deadline: 5:00 p.m.
July 4	Monday	Independence Day holiday – USF is closed
July 22	Friday	Last day of classes
August 6	Saturday	Summer Commencement (Tampa) - Tentative Date

# ACCREDITATION

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## UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

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The University of South Florida is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award degrees at the baccalaureate, masters, and doctoral level. Inquiries to the Commission should relate only to the accreditation status of the institution and not to general admission information. The Commission is to be contacted only if there is evidence that appears to support an institution's significant non-compliance with a requirement or standard. Contact the Commission on Colleges at: 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of the University of South Florida.

## DEGREES\* OFFERED BY THE UNIVERSITY

### Undergraduate Degrees

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

### Graduate Degrees

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

# ACCREDITATION

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## UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

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Master of Science in Materials Science and Engineering	M.S.M.S.E.
Master of Science in Mechanical Engineering	M.S.M.E.
Master of Science in Medical Sciences	M.S.M.S.
Master of Science in Public Health	M.S.P.H.
Master of Science in Real Estate	M.S.R.E.
Master of Social Work	M.S.W.
Master of Urban and Community Design	M.U.C.D.
Master of Urban and Regional Planning	M.U.R.P.

### Advanced Graduate Degrees

Education Specialist	Ed.S.
Doctor of Audiology	Au.D.
Doctor of Business Administration	D.B.A.
Doctor of Education	Ed.D.
Doctor of Philosophy	Ph.D.
Doctor of Public Health	Dr.P.H.
Doctor of Nursing Practice	D.N.P.

### Professional Degrees

Doctor of Medicine	M.D.
Doctor of Pharmacy	Pharm.D.
Doctor of Physical Therapy	D.P.T.

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



# USF – A COMPREHENSIVE RESEARCH UNIVERSITY

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## Vision, Mission, Goals, and Values

### Vision

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

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

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

### Mission

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

### Values

The University of South Florida values:

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

### Commitment to Honor & Living the Commitment

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

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

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

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

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

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

*Living the Commitment:* A commitment to this resolution motivates us to serve the University with

# USF – A COMPREHENSIVE RESEARCH UNIVERSITY

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words and actions that generate a positive impact on the future of the whole community. This means that active and creative thought and contributions within a collegial environment will expand both the nature and scope of knowledge and the quality of community life.

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

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

## About the USF System

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

## About USF

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

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

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

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

## USF Facilities

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

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

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

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

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

# USF – A COMPREHENSIVE RESEARCH UNIVERSITY

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

## **Diversity and Equal Opportunity Policy**

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

# ADMISSIONS AND RELATED MATTERS

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**Location/Phone:** SVC 1036; (813) 974-3350

**Website:** <http://www.usf.edu/admission/apply.aspx>

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

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

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

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

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

## Applying for Admission

### Obtaining an Application

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

### 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 deadline date (see *academic calendar*) for the requested entry term or by the application deadline for the requested degree program (see specific programs in this catalog), whichever is earlier.

### Who Should Apply

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

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

### Changing Requested Term of Entry

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

An applicant who requests a new entry term must meet the admissions requirements in effect for the new term requested. Entry for some programs is limited to specified terms.

## General Admission Policies

### Transcripts and Other Admission Documents

All official transcripts, test scores, and any other required credentials must be received directly from the issuing

# ADMISSIONS AND RELATED MATTERS

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## UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

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agencies. It is the applicant's responsibility to initiate the request for credentials to the issuing agencies and to assure their receipt by the respective Office of Undergraduate Admissions at USF Tampa, USF St. Petersburg, or USF Sarasota-Manatee, depending on which of those USF System institutions the student is interested in attending. (See "Minimum Requirements for Admission" below for information concerning required documentation).

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

### Provisional Admission

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

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

### USF System Admission Criteria vs. Differential Admission Criteria

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

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

A freshman who does not meet the differential admission criteria must earn at least 30 credit hours (at least 12 of which must be earned at USF and not through dual enrollment, AP, AICE or IB exam credit) and have a 2.5 cumulative GPA, and a transfer student who does not meet the differential admission criteria must have earned at least 60 credit hours with a 2.3 cumulative GPA and a 67 percent course completion ratio to have access to courses offered at all USF institutions or campuses. Any exceptions must be requested on a course-by-course basis and will be approved only when the course is required for on-time progression toward degree for the student. Requests for exceptions must be initiated through the academic advisor at the home institution or campus and must be approved by the Dean of the appropriate college at USF.

### Admission Denials

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

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

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

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

### Required Proof of Immunity

See the Immunization Policy located in the Student Affairs section of the catalog.

### Required Orientation

#### Office of Orientation:

**Location/phone:** ALN 102, (813) 974-3060; **Web Address:** [www.usf.edu/orientation](http://www.usf.edu/orientation)

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

# ADMISSIONS AND RELATED MATTERS

to make arrangements for their orientation session.

All new students will receive Orientation information after admission.

## First Year (FY) Students

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

## Limited Access Programs

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

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

## Minimum Requirements for Admission

Prior to registration, each student accepted for admission must submit a signed medical history form, including documentation of appropriate immunization, as required by USF Policy [33-002](#).

## Freshman Applicants

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

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

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

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

1. Freshman applicants must submit an official test score from the SAT or the ACT. Applicants graduating from high school after January 1, 2006 will be required to submit an SAT or ACT score that includes the Writing component. Students with test scores from older versions of the admissions test(s) may be required to retest for admission purposes. Receipt of an SAT without Writing or ACT without Essay will not fulfill the test score requirement.
2. For freshman applicants earning a high school diploma, the following college preparatory academic units (year-long courses or equivalents) normally offered in grades nine through twelve are required:
  - four units of English (three of the four must incorporate substantial writing requirements);
  - four units of mathematics (Algebra I and above);

# ADMISSIONS AND RELATED MATTERS

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## UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

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- three units of natural sciences (two of the three must incorporate substantial laboratory requirements);
  - three units of social sciences (history, civics, political science, economics, sociology, psychology and geography);
  - two units of the same foreign language; and
  - two additional units of academic electives.
3. Freshman applicants who have a 3.50 (B+/A-) grade point average as recalculated by USF using all attempted academic courses are considered generally competitive as long as the course selection is rigorous. The University sets admission requirements that may be found on the Undergraduate Admissions web homepage. Please refer to <http://usfweb2.usf.edu/admissions/freshman-application-deadlines.html> for the current admission requirements. Admission to the University is selective; therefore, meeting requirements does not guarantee admission.
  4. Applicants submitting a GED diploma must have a minimum of a passing score on each section of the test. Admission to the University is selective; therefore, meeting requirements does not guarantee admission. GED holders must also submit an SAT or ACT score that includes the Writing component.
  5. In the absence of the above, the University will also consider appropriate alternative evidence of academic achievement, ability, motivation and responsibility that indicates potential for successful academic work at USF.
  6. A first-time-in-college applicant whose native language is not English may be required to present a minimum score of 6.5 on the International English Language Testing service exam (IELTS), or a score of 550 (paper-based test) or 79 (Internet-based test) on the Test of English as a Foreign Language (TOEFL). The IELTS or TOEFL requirement may be waived on an individual basis when appropriate alternative evidence of English language proficiency is presented in writing (including SAT Critical Reading score of 440 or above, or an ACT English/Writing score of 18 or above and Reading Score of 19 or above, as well as, meeting Board of Governors minimums as stated in [BOG Regulation 6.002](#), a GPA below 3.00 with a SAT- 460 in Critical Thinking, 460 in Math, 440 Writing ACT- 19 Reading, 19 Math, 18 English/Writing.
  7. First-time-in-college applicants seeking admission at the freshman level to a limited access degree program must meet additional requirements specified by the program.
  8. If a student has not earned the following minimum scores on the SAT or the ACT, remedial college preparatory work generally will be required prior to the first term of enrollment at USF:
    - a. SAT – Mathematics 440 Critical Reading 440 Writing 440
    - or
    - b. ACT – English/Writing 17 Reading 19 Mathematics 19
  9. A limited number of students requiring this remedial coursework may be offered admission only for summer or spring terms.

### Provisional Offers of Admission

Some applicants may be offered admission to the University of South Florida with the provision that they enroll in an alternate term and/or program that differs from that requested on the application for admission. For example, a freshman applicant may be offered admission to the summer or spring term due to enrollment limits and/or admission criteria. Further, some applicants who do not meet differential admission criteria at USF may be referred for admission consideration to USF St. Petersburg or USF Sarasota-Manatee. Once admitted to either USF system institution provisions will be placed on the students admission restricting students taking courses at USF St. Petersburg or USF Sarasota-Manatee until he or she has earned 30 semester hours (12 of which must be earned at USF St. Petersburg or USF Sarasota-Manatee and not through dual enrollment, AP, AICE or IB credit) with a 2.50 cumulative GPA, at which time the student can request to change the home campus. The provisions of all offers of admission will be stated clearly in materials included in the acceptance packet.

### USF Admissions Deposit

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

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

### Early Admission Applicants (Freshman)

USF provides an early admission program to meet the needs of highly capable, mature high school students. Under the Early Admission program these students may enter the University as regularly enrolled, degree-seeking students prior to graduation from high school. Participation in the Early Admission program shall be limited to students who have

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completed a minimum of six semesters of full-time secondary enrollment, including studies undertaken in the ninth grade. In addition, Early Admission applicants should be enrolled in a strong college-preparatory curriculum while in high school. Applications for Early Admission will be reviewed by the Director for Undergraduate Admissions in conjunction with the Dean of the Honors College. Students enrolled in the Early Admission program must take courses that are creditable toward the high school diploma and the associate or baccalaureate degree.

Students wishing to be accepted as Early Admissions students at USF **must**:

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

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

## Undergraduate Transfer Applicants

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

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

USF requires all transfers with 60+ transferable hours—including A.A. transfers from Florida colleges—to meet the GPA requirement for their intended major. Applicants for Business and Education must have a 2.50 transfer GPA; applicants for Mass Communications and Social Work must have a 2.75; applicants for Architecture must have a 3.00; and, applicants for Nursing must have a 2.5 with an A.S. in Nursing or a 3.2 with 60+ hours, including an AA degree. Beginning Fall 2013 the College of Business and the Department of Computer Science and Engineering have established a new minimum overall GPA required to satisfy the admission requirement. The minimum overall GPA will range between a 2.5 with a maximum required GPA of a 2.75. Students will be notified through USF's course management system each fall as to the minimum entrance GPA required for the following fall semester.

Except in cases where extenuating circumstances can be documented, USF prefers not to admit transfers with fewer than 24 transferable hours, as national and institutional data suggests that students who transfer earlier are less likely to succeed academically. For those with 30 to 59 hours, USF will require a 2.50 transfer GPA, again based on data related to transfer student success in the classroom. For other transfers with 60+ hours (including Florida College System transfers without an A.A. or A.S. degree), USF St. Petersburg and USF Sarasota/Manatee will continue to consider applicants with a 2.00 transfer GPA, while USF Tampa will require a 2.30 transfer GPA. In addition, transfers to USF Tampa are expected to meet a minimum successful course completion ratio of 67% (the number of credit hours passed compared to the number of credit hours attempted). USF St. Petersburg and USF Sarasota-Manatee may now set their own transfer admission criteria. Please consult the respective websites of the various USF System institutions for specific requirements. All System Admissions Offices will continue to assist transfer students in their efforts to identify the best academic fit within the USF System.

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

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



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example, if the student enters in Fall 1999, but does not transfer until Fall 2005, he or she must meet the requirements of the 2003-2004 Manual.

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

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

### **Lower-Level Transfer Applicants**

(24 to 59 transferable semester credits)

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

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

1. Have an overall 2.5 average GPA, as calculated by USF;
2. Be in good standing and eligible to return to the last regionally accredited institution attended;
3. Satisfy fully all freshman admissions standards as described in the previous section entitled "Freshman Applicants." (Meeting freshman admission standards may be a critical requirement for undergraduate applicants with fewer than 60 transferable credits.);
4. Complete (with passing grades) a foreign language in high school at the second level or higher or a post-secondary foreign language course at the second level or higher.
5. If applicable, present a minimum score of 550 (paper-based test), or 79 (Internet-based test) on the Test of English as a Foreign Language (TOEFL) or 6.5 on the IELTS if the applicant's native language is not English. The TOEFL or IELTS requirement may be waived on an individual basis when appropriate alternative evidence of English language proficiency is presented in writing (including an SAT Critical Reading Score of 440 or better and SAT Writing score of 440 or better, or an ACT English/ Writing score of 18 or better and Reading score of 19 or better), as well as, meeting Board of Governors minimums as stated in [BOG Regulation 6.002](#), a GPA below 3.00 with a SAT- 460 in Critical Thinking, 460 in Math, 440 Writing ACT- 19 Reading, 19 Math, 18 English/Writing.
6. Transfer applicants whose transcripts demonstrate an unsatisfactory course completion ratio will be denied admission to USF Tampa. For the current percentage required for admission, please consult the transfer admissions web page at <http://www.usf.edu/admissions/transfer/index.aspx>.

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

### **Upper-Level Transfer Applicants**

(60 or more transferable semester credits)

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

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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 <http://usfweb2.usf.edu/Admissions/upper-level-transfer-requirements.html>.

Undergraduate transfer students who have not earned the A.A. degree from a Florida public institution (State University System or Florida College System) or who have attended another college after receipt of the A.A. must minimally meet the following requirements to be considered for admission; however, satisfying these minimum requirements does not guarantee admission:

1. Be in good standing and eligible to return to the last regionally accredited institution attended as a degree-seeking student or a non-regionally accredited institution participating in the SCNS with SCNS approved transferable credits.
2. Have an overall "B-" average as calculated by USF (transfer GPA of 2.5 on a 4.0 scale) in all college-level courses acceptable for transfer credit to USF Tampa (in calculation of the GPA, incomplete grades are computed as failures and course "repeats" are not forgiven when the courses are repeated at different institutions.); USF St. Petersburg and USF Sarasota-Manatee will consider admission with a 2.0 transfer GPA in non-limited access majors.
3. Complete (with passing grades) a foreign language in high school at the second level or higher or a post-secondary foreign language course at the second level or higher. Students who entered a Florida public college prior to August 1, 1989 and maintain continuous enrollment until the time of their USF entry as degree-seeking students may be admitted without the required foreign language study;
4. Meet the minimum grade point average required by the program if entering a limited access program and transferring 60 or more semester hours.
5. If applicable, present a minimum score of 550 (paper based) or 79 (Internet-based test) on the Test of English as a Foreign Language (TOEFL), or 6.5 on the IELTS. The TOEFL requirement may be waived on an individual basis when appropriate alternative evidence of English language proficiency is presented in writing.
6. Transfer applicants whose transcripts demonstrate an unsatisfactory course completion ratio (including applicants with an Associate in Arts degree) will be denied admission to USF Tampa. For the current percentage required for admission, please consult the transfer admissions web page at <http://www.usf.edu/admissions/transfer/index.aspx>.

Upper-level transfer applicants to a limited access major in Nursing, Business, Social Work, Education, Dance or Mass Communication must meet program requirements prior to admission to the University.

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

### Evaluation of Transfer Credit

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

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information about the content and standards for each course to be reviewed, including, but not limited to a detailed syllabus that contains the course description, prerequisites and co-requisites, major learning outcomes, textbooks, and the academic qualifications of the instructor. These materials will be submitted to the appropriate department for review by the faculty and the process may take some time, during which no credit will be awarded until the department review is completed. Only those courses that appear to match courses currently offered by the university will be reviewed for transfer.

4. USF reserves the right to deny credit for specific courses. USF does not award transfer credit from institutions that it determines to be occupational, 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 distribution requirements and are automatically awarded 60 semester hours of credit. A course-by-course transfer credit evaluation will be done for all out-of-state and private in-state A.A. degree holders.
6. All courses from a Florida College System Institution/University bearing the same State Common Course prefix and last three numbers as a USF course are automatically transferred and transfer students may not be required to repeat these courses, unless a college age-of-record policy is involved. That same automatic transferability of credits applies to courses completed at non-regionally accredited institutions that have been specifically approved by the SCNS. Excluded are graduate courses, studio courses in art, internships, practicums, and performing arts courses such as dance, theater performance, voice, and instrumental music.
7. All undergraduate degree programs at USF require a minimum of 48 hours of upper-level work that would have been completed at a four-year college or university. This policy does not affect approved articulated programs based on the A.S. degree. For information regarding specific articulated A.S. degree programs, consult the Office of Undergraduate Studies, B.S.A.S. Program.
8. Credit will not be awarded for GED tests.
9. Military service school courses will be evaluated with reference to the recommendation of the American Council of Education when official credentials have been presented. Such recommendation, however, is not binding upon the University.
10. For ROTC and military science courses taken after Fall Quarter 1975, the maximum credit will vary with each college. A student must confer with his/her college advisor to determine the acceptability for his/her major. ROTC and military science courses taken prior to Fall 1975 are not acceptable for transfer credit.
11. A maximum of 45 semester hours of College Level Examination Program (subject and general examinations) credits can be accepted for transfer credit.
12. A maximum of 30 semester hours of extension, correspondence, and military service education credits can be applied toward a degree.
13. Grades earned in transferred courses are not computed in the student's USF GPA except for the purposes of admission to limited access programs, the awarding of honors at graduation, and class ranking of baccalaureate students.
14. International postsecondary credentials must be evaluated by an independent evaluation service, with associated costs to be paid by the student. Certain foreign credentials can be evaluated internally and do not require an independent evaluation.
15. A continuously-enrolled USF degree-seeking student must obtain prior written approval from the college of the student's major in order for courses taken at other regionally-accredited institutions to be applied to the USF degree program.

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

### **International Applicants (non-resident aliens)**

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

Some post-secondary international credentials may be evaluated by the Office for International Admissions, while others may require an official course-by-course evaluation completed by an independent credential evaluation service,

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with associated costs to be paid by the student. The listing of countries and/or regions that can be evaluated by USF or information about recommended and approved independent evaluators is available from the Office for International Admissions (<http://www.usf.edu/admissions/international/index.aspx>).

An international applicant (non-resident alien) must meet all admission requirements for the appropriate applicant category (freshman, undergraduate transfer, graduate). Other minimum requirements are as follows:

1. An International applicant must demonstrate English-language proficiency by one of the following means:
  - a. Submit official IELTS ([www.ielts.org](http://www.ielts.org)) score of 6.5 or TOEFL ([www.ets.org/toefl](http://www.ets.org/toefl)) score of 79.
  - b. Submit official SAT or ACT scores with a minimum SAT Critical Reading and Critical Writing score of 440, or an official ACT English/Writing score of 17 and an ACT Reading score of 18.
  - c. Completion of English Composition I and II with a grade of C or better at an English speaking post-secondary institution.
2. International applicants must be in good standing at the last institution attended.
3. International applicants must submit the USF Financial Statement (<http://global.usf.edu/is/pro-students.php>) substantiating availability of financial resources sufficient to cover all educational, maintenance, and personal expenses while attending USF, without financial assistance from the University.
4. International applicants seeking admission to limited access undergraduate degree programs must also meet all requirements specified by the program.
5. Each International applicant must submit a health history form, including proof of immunization, as required by USF Regulation [6.0162](#).

### Transient Applicants

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

## University Scholarships & Financial Aid Services

**Location/Phone:** SVC 1102, (813) 974-4700

**Web Addresses:** Financial Aid Web: <http://www.usf.edu/financial-aid/>; FAFSA Web: <http://www.fafsa.gov>

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

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

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

## Honors College

Academically talented students in all majors may avail themselves of Honors opportunities at USF's Tampa campus. The College is primarily designed for first-time-in-college students (FTICs); however, Honors also accepts continuing USF and transfer students. Honors College experiences are grounded in the liberal arts tradition and intended for students regardless of major. The primary goals of the Honors College are the development of critical thinking skills, an appreciation of the liberal arts tradition and the development of creative, independent thought. (See complete description under Honors College.) Many scholarships are available for Honors students.

Potential FTIC students are actively recruited. Invited students present at least a 3.8 USF recalculated weighted academic high school GPA and a 1300 SAT (based only on Critical Reading and Mathematics sections) or a 29 composite ACT score. Any student not invited as an FTIC may apply for admission once he or she has accumulated 45 college credits with a 3.5 GPA.

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

Admission to the Honors College is determined by the Dean of The Honors College; admission to Departmental Honors is determined by the individual department. Students who satisfactorily complete Honors and graduate with at least an overall GPA of 3.3 and a USF GPA of 3.3 (all course attempts are included in the Honors GPA) shall be identified as Honors College graduates on their diplomas and transcripts, and at the Honors College Graduation Ceremony.

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## Opportunities for Accelerated Progress toward Undergraduate Degrees

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

1. Recognition of satisfactory performance on standardized tests offered through recognized examination programs. See <http://www.ugs.usf.edu/student/crbexam/exams.cfm> for a complete listing of exams and course equivalencies.
2. Recognition of satisfactory performance on tests offered through Advanced Placement Programs of the College Entrance Examination Board (see Advanced Placement Credit Programs).
3. Recognition of the International Baccalaureate Diploma Program. Students who earn the IB Diploma will be awarded 30 semester hours of college credit and sophomore standing. Credit for standard level exams with a score of 4 or higher may be awarded to those students who do not earn the IB diploma.
4. Dual enrollment as a non-degree-seeking student at USF or a community college prior to graduation from high school (see Dual Enrollment [Public/Private High/Home School]). Florida College System students should follow eligibility criteria for non-degree seeking students (below).
5. Early admission for high school students (see Early Admission Freshmen).
6. Courses completed through USF Distance Learning. See: <http://www.usf.edu/innovative-education/programs/online-programs/courses.aspx>.
7. Courses completed through the Florida Distance Learning Consortium. See <http://www.fldlc.org>.
8. Courses completed through the [State University System Correspondence Study program](#).

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

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

## Non-Degree Seeking Student

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

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

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

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

A non-degree-seeking student who has been dismissed from USF is not eligible for admission to USF as a degree-seeking student at the undergraduate level 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 program.

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

Non-degree-seeking students are subject to the same academic policies as undergraduate degree-seeking students and must adhere to deadline dates published in the University Catalog. Non-degree seeking students are not eligible to receive University honors or participate in the USF/Florida College System cross-registration program. Non-degree-seeking students also are not eligible to live in University housing or receive financial aid. Non-degree seeking students are subject to the academic probation and dismissal policy listed in this catalog. Non-degree seeking students who are academically dismissed from the University may appeal to the Academic Regulations Committee (ARC) through the ARC representative for Transitional Advising Center (TRAC) to return. Potential non-degree seeking students should

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also refer to the section of the catalog of the college(s) offering the course(s) of interest to them to determine whether any special college requirements exist which must be met prior to enrolling.

### Early Admission (Public/Private High/Home School)

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

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

- a. have completed the equivalent of the junior year of high school, requiring one more year to complete requirements for the high school diploma;
- b. typically have a 1300 on the Mathematics and Critical Reading sections of the SAT, with no less than 580 on either section; or a 29 on the ACT with no less than a score of 29 on English, 21 on the Reading, and 21 on Mathematics; and a 3.8 weighed high school grade point average (computed by USF); and a TOEFL score, if applicable;
- c. meet regular USF admission criteria for degree-seeking undergraduate students;
- d. have a personal interview with the Early Admissions Coordinator.

### Dual Enrollment (Public/Private High/Home School)

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

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

1. Be at least 16 years old at the start of term, unless enrolled in a special summer program initiated by USF or a special course section involving only dual enrollment students;
2. Have proof of a minimum of 500 on SAT V (Critical Reading) and 500 on SAT Q (Mathematics); or a score of 21 on EACT English, 18 on EACT Reading and a score of 21 on EACT Mathematics; or appropriate placement test scores; and a TOEFL score, if applicable;
3. Have (a) completed the equivalent of the sophomore year, (b) students typically present a 3.5 grade point average or higher on a 4.0 scale (as calculated by USF), and (c) satisfied any course prerequisites; and
4. Provide a list of courses and the number of credits necessary to complete a high school diploma from the school counselor or principal on school stationery.
5. Need college-level courses that are not offered at the local community college.

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

### Readmission (Former Students Returning)

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

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

To be readmitted, a student must meet the following requirements:

1. Have a USF GPA of at least 2.00. Former students returning with a USF GPA below 2.00 may only return to USF under AR-I or AR-II.
2. Be in good standing and eligible to return to the last institution attended as a degree-seeking student; and
3. Have achieved a GPA of at least 2.0 as calculated by USF on a 4.0 scale on all college-level academic courses attempted at institution(s) attended since last enrolled at USF, and meet the minimum GPA for the declared major.
4. If previously enrolled at USF and academically dismissed at the end of the last term of enrollment, a student must file an ARC (Academic Regulations Committee) petition for Academic Renewal I or II in conjunction with the application for readmission.

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

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

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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).

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

### Senior Citizen Tuition Waiver Program

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

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

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

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

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

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

More information about the program can be found at the Office of the Registrar's website, <http://www.usf.edu/registrar/resources/index.aspx>.

### 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.uqs.usf.edu/catalogs.htm>. This catalog, prepared by the USF Office of Undergraduate Studies, explicitly describes the undergraduate program requirements and Florida's common prerequisites that should be followed to ensure maximum ease of transfer into the students' upper-level programs on a par with their native USF counterparts.

### Award of Credit for Military Training BOG Regulation **6.013**

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

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

### Articulation Agreement

#### 6A-10.024 Articulation Between and Among Universities, Community Colleges, and School Districts

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

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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.



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## Initial Florida Residency Classification for Tuition Purposes

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

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

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

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

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

### 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 required)

### Additional Documentation may include:

- 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.

**Out-of-State Veterans Tuition Exemption:** 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 a Florida state university. The waiver is applicable for 110 percent of the required credit hours of the degree or certificate program in which the student is enrolled.

**Out of State Waiver Eligibility Process:** Bill HB 851- Postsecondary Education Tuition and Fees is a new law that allows students, including but not limited undocumented students who meet certain guidelines, to receive waivers to attend college at Florida resident (instate) tuition rates. These nonresident students, who do not have sufficient ties to Florida as set forth under Florida School Code (SB-20E) Section 1009.21 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 6 credit hours of courses per term are exempt from the payment of tuition and fees at a Florida state university.

For more information regarding residency for tuition purposes please visit: <http://www.usf.edu/registrar/resources/residency.aspx> and for more information regarding the residency tuition waiver exemptions, please visit <http://www.usf.edu/registrar/resources/forms.aspx>.

**PLEASE NOTE:** 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

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

## Fees

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

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

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

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

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

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

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

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

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 <http://usfonline.admin.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.
5. **Cancellation for Non-Payment of Fees**  
Students not on an authorized deferred payment of fees and who have not paid their tuition fees in full by a specified day (per "Schedule of Classes") will have their registration for that term cancelled. This means, specifically, that a student will receive no credit for any courses taken during that term.
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 effective July 1, 1997 states that certificate holders are entitled to a waiver of *only matriculation fees* for a maximum of six (6) credit hours instruction during a single term. Certificates are valid for three years from the date of issuance.  
Fees must be paid or postmarked by the U.S. Post Office (not office meter marked) by the fifth day of the term. The University cannot be responsible for lost or misdirected U.S. Postal mail.
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. For summer, terms A, B, and C are all parts of one semester. The employee must be appointed prior to the first day of class and is expected

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to be employed full-time past the end of the semester for which enrolled.

## 8. Tuition Deferment for VA Students

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

## 9. Florida Prepaid College Program

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

## 10. Mailed Payments

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

## 11. Returned Registration Checks

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

## Meal Plans

### Meal Plan Office

**Location:** Marshall Student Center, Room 1502

**Phone:** (813) 974-4499

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

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

## Nutrition Counseling

Student Health Services employs a registered dietitian available to provide nutrition counseling for medical conditions such as diabetes, hypertension, hyperlipidemia, obesity and eating disorders. There is a \$10 fee per visit. Please call 813-974-2331 to make an appointment. Visit the following url for more information: <http://www.usf.edu/student-affairs/student-health-services/services/>.

## Refund of Tuition/Fees Payment Release of Tuition/Fees Liability

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

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

### Fee Adjustment Request After Fifth Day of the Term

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

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

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

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

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

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

## Payment of Accounts Due the University

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

## Financial Aid

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

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

Since many programs are funded on a limited basis, it is to your advantage to apply early. Priority application dates and detailed information regarding financial aid are provided each year on the Scholarships and Financial Aid Services' web site. Check out USF's scholarship information at <http://usfweb2.usf.edu/finaid/scholarships/>. University Scholarships & Financial Aid Services communicates important information regarding aid exclusively via the student's USF e-mail account. Tuition and housing deferments are automatically posted for qualified financial aid applicants. The deadline for deferred tuition payment can be found at <http://usfweb2.usf.edu/finaid/>.

If you withdraw from USF, either officially or unofficially, before the end of a semester, you may be required to repay all or a portion of the aid you received. For detailed information on the Federal Return of Title IV Funds requirement, go to <http://usfweb2.usf.edu/finaid/refund.aspx>.

Each USF institution has financial representatives:

Tampa: (813) 974-4700

Sarasota-Manatee: (941) 359-4459

St. Petersburg: (727) 553-4128

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

## Academic Scholarships

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

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

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

# REGISTRATION

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## Office of the Registrar

**Locations/Phone:** SVC 1034; (813) 974-2000

**Web Address:** <http://www.usf.edu/registrar/>

The Registrar's Office provides a wealth of student, academic, and administrative services. The Registrar's Office is responsible for maintaining each student's academic record from the time of admission to degree.

Registrar's staff publishes the University *Schedule of Classes* (online only); coordinates registration and drop/add activities; processes grade information and prepares transcripts; and processes graduation applications. The Registrar's Office staff also reviews and acts on student requests for reclassification of residency and processes change of name and student I.D. numbers.

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

Although technology is being used as an enabler to provide better service, Registrar's staff provides in-person information and services in its lobby area as well as over the telephone.

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

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

## Immunization Policy

### I. INTRODUCTION (Purpose and Intent of the Policy)

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

### II. STATEMENT OF POLICY (#33-002)

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

MEASLES: Proof of Immunity.

RUBELLA: Proof of Immunity.

HEPATITIS B: Proof of Immunity or signed waiver declining the vaccine.

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

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

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

#### C. HEALTH HISTORY FORM

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

#### D. PROOF OF IMMUNITY

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

##### 1. MEASLES:

a. Medical documentation of immunization with TWO (2) DOSES of live measles virus vaccine on or after the first birthday and administered at least 28 days apart. Persons vaccinated with killed, or an unknown vaccine, prior to 1968 must be revaccinated. Persons born before 1957 may be considered to have had a natural infection, and therefore meet the proof of immunity requirement. The documented date of immunization for measles should indicate the day, month, and year. However, month and year will suffice if the month and year indicate that the immunization was given at least 13 months after the month of birth, OR

b. Copy of laboratory (serologic) evidence of measles immunity (IgG rubeola titer), OR

c. A written, dated statement signed by a physician on his/her stationery that specifies the date seen and stating that the person has had an illness characterized by a generalized rash lasting three (3) or more days, a fever of 101° Fahrenheit or greater, a cough, and conjunctivitis, and, in the physician's opinion, is diagnosed to have had the 10 day measles (rubeola).

##### 2. RUBELLA:

a. Medical documentation of immunization with live rubella virus vaccine on, or after, the first birthday. Persons born before 1957 may be considered to have had a natural infection, and therefore meet the proof of immunity requirement. The documented date of immunization for rubella should indicate the

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day, month, and year. However, month and year will suffice if the month and year indicate that the immunization was given at least 13 months after the month of birth, OR

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

3. HEPATITIS B:

a. Medical documentation of immunization with 3 doses of Hepatitis B vaccine, OR

b. Copy of laboratory (serologic) evidence of Hepatitis B immunity (anti-HBs titer).

4. MENINGITIS:

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

**E. EXEMPTIONS WILL BE CONSIDERED AS FOLLOWS:**

1. RELIGIOUS: Religious exemptions- contact USF Student Health Services for an application.

2. MEDICAL: Requests for temporary or permanent medical exemptions must be submitted to USF Student Health Services by the attending physician and must include reason for exemption and duration of exemption.

3. ON-LINE COURSES: Students registered in 100% on-line courses may be exempt from the requirements of this Policy. However, if a student registers for any on-campus course at any time, the immunization requirements of this Policy will be in effect for all future courses.

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

**F. CONSEQUENCES:**

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

**HEALTH CARE INSURANCE REQUIREMENT FOR INTERNATIONAL STUDENTS**

The State University System of Florida requires that all international students have medical insurance in order to register for classes at USF.

Immunization and vaccinations questions may be directed to [Student Health Services](#), 813-974-2331.

## Registration for Admitted Degree-Seeking Students

Continuing degree-seeking students register on or after their registration appointment time for their next semester's courses during the preceding term, using the OASIS system. Registration appointment times and instructions for all registration periods are online for the appropriate semester at <http://oasis.usf.edu/>.

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

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

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

**NOTE: A Mandatory Medical History Form is required for all students (regardless of age).** According to Florida Administrative Code Rule 6C-6.001(5), "Each student accepted for admission shall, prior to registration, submit on a form, provided by the institution, a medical history signed by the student."

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## Course Attendance at First Class Meeting USF Policy [10-006](#)

This policy has been put into effect so that USF may effectively utilize classroom space and to insure that all students have maximum opportunity to enroll in classes where demand exceeds availability of seats and to avoid overpayment of financial aid for students who are not enrolled at the outset of the academic term.

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

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

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

## Cancellation before First Class Day

Students who do not drop a class via OASIS before the semester begins may only cancel their registration by notifying the Office of the Registrar in writing prior to the first day of classes. If fees have already been paid, the student may request a full refund of fees from the Office of Purchasing and Financial Services.

## Course Syllabus

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

## Course Notes and Recording USF Policy [10-048](#)

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

Students may take notes during lectures/class presentations and, with the permission of the instructor or as authorized by the Office of Academic Support and Accommodations for Students with Disabilities and with the instructor's knowledge, make a recording of the lecture/presentation. Such notes and recordings may be used for individual or group study, or for other noncommercial purposes reasonably arising from the student's enrollment.

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

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

Commercial Activities on the USF Campus: USF Regulation [6.026](#) and Policy No. [0-018](#), concerning distribution of material and solicitation on campus, prohibit commercial activity on campus with certain expressly enumerated exceptions. Unless authorized by the University of South Florida in advance and explicitly permitted by the instructor,

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the sale or taking of class notes and/or recordings constitutes unauthorized commercial activity in violation of the foregoing Regulation.

## General Attendance

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

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

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

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

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

## Procedures for Excused Absences and Make-up Work

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

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

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

## Documented Jury Duty

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

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



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## **Documented Medical Attention for Illness**

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

## **Alternative Academic Process for Seriously Traumatized Students**

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

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

## **Medical Amnesty (Student Reporting)**

### **USF Policy [30-004](#)**

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

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

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

## **Early Notification of Instructor Requirement for University Sponsored Activities**

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

## **Early Notification Requirement for Observed Religious Days**

### **USF Policy [10-045](#)**

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

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

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## Adds

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

## Drops/Withdrawals

A student may drop a course(s) during the drop/add periods (first five days of classes) in order for the course(s) not to appear on any permanent academic records. No tuition or fees will be assessed for course(s) dropped within that period.

A student may withdraw from a course(s) between the second and tenth week of the semester (except for summer sessions - see the Summer Schedule of Classes for dates). However tuition and fees will be assessed for any course(s) withdrawn by the student after the first week. The student's academic record will reflect a "W" grade for any course(s) withdrawal between the second and tenth week of the semester. Under specific conditions, consideration for refund of tuition and fees may be requested if a Fee Adjustment Request form accompanied by verifiable supporting documentation is submitted to the Office of the Registrar within six (6) months from the end of the semester to which any refund would be applicable.

Students who withdraw may not continue to attend classes.

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

The withdrawal attempts is based on attempted hours and not earned hours.

## Auditing Privileges and Fees

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

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

## Cancellation before First Class Day

Students who do not drop a class via OASIS before the semester begins may only cancel their registration by notifying the Office of the Registrar in writing prior to the first day of classes. If fees have already been paid, the student may request a full refund of fees from the Office of Purchasing and Financial Services.

## Excess Hours Surcharge

### [USF Regulation 4.0102](#)

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

The bill requires universities to add a surcharge to each credit hour attempted in excess of the total hours required to earn a baccalaureate degree. The surcharge is calculated based on a percentage defined in the statute (see the following table).

<b>Students Entering as FTIC SUS (First Time in College State University System of Florida) or FTIC FCS (First Time in College Florida College System)</b>	<b>Fees to be Charged</b>
Prior to Fall 2009	None

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Fall 2009 – Summer 2011	50% for credits above 120% of total program hours
Fall 2011 – Summer 2012	100% for credits above 115% of total program hours
Fall 2012 and thereafter	100% for credits above 110% of total program hours

The surcharge is assessed only on the tuition portion of the semester hour cost, not on the fees.

The number of total program hours required for the baccalaureate degree will be identified by the student's declared major. This is typically 120 semester hours, although, some programs have been approved to require more than 120 semester hours.

For further information, visit the Registrar's website at <http://www.usf.edu/registrar/>.

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

### Repeat Course Surcharges

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

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

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

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

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

### Academic Advising for Undergraduate Students

USF seeks to guide all students in selecting programs and courses best suited to their personal abilities, educational interests, and career objectives. Students who have been admitted to the University and have chosen their major area of study may visit their designated academic advising office housed in one of the ten colleges offering baccalaureate degrees. Others who have not yet declared a major should visit the TRansitional Advising Center (TRAC), located in SVC 2043.

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

### Tracking Academic Progress of Students (ATLAS: Advanced Tracking Leading to Academic Success)

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

Students' academic progress is monitored fall, spring and summer semesters to ensure that they are on course to earn their degrees within four years; Summer semesters, however, do not contain critical tracking criteria so that



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## Release of Student Information

Pursuant to requirements of the Family Educational Rights and Privacy Act (FERPA), the following types of information, designated by law as “**directory information**,” may be released via official media of USF (according to USF policy):

Student name, local and permanent addresses, telephone listing, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, full- and part-time status, and the most recent previous educational agency or institution attended, and other similar information.

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

Students must inform the USF Office of the Registrar if they wish directory information to be withheld by changing their privacy status via <http://www.usf.edu/registrar/resources/privacy.aspx>. Such requests must be received within the first two (2) weeks of the semester and will remain in effect until the student has not been enrolled at USF for three (3) consecutive terms.

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

## Confidentiality Policy

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

All other student data is considered to be protected.

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

## Education Record

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

## Administrative Holds

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

## 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. Changes of address may be completed via OASIS at <http://oasis.usf.edu/>.

# ACADEMIC POLICIES AND PROCEDURES

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## Semester System

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

## Academic Load

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

### Full-time Undergraduate Student Definition - Summer Term

Sessions "A" & "B" (6 weeks)

For Academic purposes: 6 hours or more each session

For Financial aid purposes: must enroll for 12 hours (undergraduate) in any combination of Sessions "A," "B" and "C"

Session "C" (10 weeks)

For Academic purposes: 9 hours or more

For Financial aid purposes: must enroll for 12 hours (undergraduate) in any combination of Sessions "A," "B" and "C"

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

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

## Availability of Courses

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

## Transfer of Credit to USF

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

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

## Award of Credit for Military Training BOG Regulation [6.013](#)

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

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

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## Former Student Returning

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

## Declaration of Major

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

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

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

Many resources are made available by the university to assist students in making career decisions and choosing their majors. In addition to academic advising services for undeclared students, the TRansitional Advising Center offers a specialized course called *U-Decide* (SLS 1101) to assist students with career and major decision-making, as well as their transition to USF. This course is required for FTIC students who are undeclared during their first year of enrollment at USF. Transfer and upper-level students may choose to enroll in *Career Development Process* (SLS 2401) for assistance in career exploration.

## Grades, Scholarship Requirements, and Review Procedures

The University is interested in each student making reasonable progress towards his/her educational goals and will aid each student through guidance and faculty advising. To make students aware of their academic progress, the University has enacted a system of grading and policies of Academic Probation and Academic Dismissal that indicates whether or not a student is showing sufficient progress toward meeting degree requirements. Notations of Grades, Academic Probation and Academic Dismissal are posted to the student's academic record.

When a student is academically dismissed from the University and is ineligible to re-enroll, it may be in his/her best interest to re-evaluate his/her educational goals with an academic advisor in his/her college. If the student's poor academic performance has resulted from extenuating circumstances or if after a period of time the student feels he/she has gained adequate maturity and motivation, he/she may petition the Academic Regulations Committee for permission to re-enroll. See "Academic Regulations Committee," for information on petitioning.

## Grading System

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

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

### **Plus/minus Grades**

A+	4.00
A Excellent performance	4.00
A-	3.67
B+	3.33
B Good performance	3.00
B-	2.67
C+	2.33
C Average performance	2.00
C-	1.67
D+	1.33
D Poor performance	1.00
D-	0.67
F Failure	0.00

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## Other Grades

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

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

## Grade Point Average

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

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

## "I" Grade Policy

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

## "M" Grade Policy

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

## S/U Grade System

### No-option Courses

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



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## Option Courses

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

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

## Mechanism for Assigning S/U Grades

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

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

## Mid-Term Grades USF Policy [10-504](#)

It is the student's sole responsibility to be aware of their academic standing and grade status in all courses. In an attempt to assist the student in evaluating his/her academic status mid-term, the University requires instructors to submit midterm grades electronically for each student enrolled in 1000-, 2000- and 3000-\* level courses (\*1000- and 2000-level courses only at USF Sarasota-Manatee). Instructors may choose to not report mid-term grades for alternate calendar courses, study abroad, directed studies, internships and other courses that do not follow the normal course schedule for the academic term, although they are encouraged to do so. Mid-term grade reports are submitted after week 7 or for summer courses, soon after the midpoint of the time period that course is conducted. Once posted, the mid-term grades are available to students in OASIS.

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

## Grade Forgiveness Policy

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

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

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

1. Complete a "[Grade Forgiveness Request Form](#)" for each course to be repeated.
2. Adhere to the following conditions:
  - a. A limitation of applying grade forgiveness to three USF courses with no more than one repeat per course.
  - b. Once a student utilizes grade forgiveness, it cannot be rescinded.
  - c. With prior approval of the college dean, a course different from a course on the approved list may be substituted in the following cases:
    - (1) The substitute course is a change in prefix, number, hours, or title, but not a substantive change in content from the original course.

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- (2) The substitute course replaces a course no longer offered by the institution.
- d. The repeated course must be taken under the standard grading system (A - F) and the latest grade must be posted as "D-" or higher (grades of S/U are not permitted) and be higher than the first grade.
  - e. All grades remain on the transcript. The original course grade will be annotated with "E" to indicate that the course has subsequently been repeated and the original grade is not computed in the GPA.
  - f. Individual colleges may have further restrictions; therefore, the student should consult with his/her college. This policy is applicable to undergraduate and non-degree-seeking students only, and applies to 1000-to-5000-level courses. Once students have been awarded a bachelor's degree from USF, they may not repeat a course and be forgiven the original grade, taken prior to graduation.
- The policy applies only to courses taken originally at USF and repeated at USF.

## Good Standing

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

## Academic Record

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

## Academic Probation and Academic Dismissal for Undergraduate Students

The first time an undergraduate student's USF grade point average (GPA) falls below a cumulative 2.0, the student will be placed on Academic Probation (AP). 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 student is removed from probationary status. The student may remain on academic probation indefinitely as long as he/she maintains 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, the student will be academically dismissed from the University. Once academically dismissed, a student may only return to USF under the University's Academic Renewal Policies. If academically dismissed from USF, a student may not return to USF as a non-degree seeking student.

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

Once a student's semester and overall 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 record cleared.

## Academic Renewal

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

### Academic Renewal I (AR-I)

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

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## Academic Renewal II (AR-II)

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

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

In order to be considered for readmission under AR-II, students must submit a request to the Office of Undergraduate Studies Academic Renewal Committee or equivalent USF System Institution committee, who will, in consultation with the college of the student's intended major, make a final decision regarding the readmission.

Following readmission under Academic Renewal II, students will have their prior USF GPA set to 2.00. In order to graduate, students must have a cumulative GPA of 2.00 and at least 30 USF credit hours with grades of C or higher, including a minimum of 15 USF credits earned following readmission under AR-II. Students readmitted under AR-II may be excluded from admission to limited access programs. Further, students who exercise the Academic Renewal II policy will not be considered for University Honors at graduation unless they meet the criteria using all grades earned.

## College Policies for Academic Progress

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

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

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

## Class Standing

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

Unclassified	Non-degree-seeking students
Freshman	0 through 29 semester hours passed
Sophomore	30 through 59 semester hours passed
Junior	60 through 89 semester hours passed
Senior	90 or more semester hours passed; however, no baccalaureate degree earned at USF or elsewhere
Post Baccalaureate	Baccalaureate degree-holder working on a second undergraduate program or degree

## Admission to a College

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

## Change of Major

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

## Final Examinations

### [USF Policy 10-005](#)

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

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## Testing in General

In each academic course, the student is expected to undergo a meaningful testing and evaluation that will reveal the student's intellectual growth in the subject matter covered or otherwise reflect the achievement of the course objectives.

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

## Comprehensive Final Examinations

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

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

1. Common finals have priority over non-common finals. When two common finals conflict, the higher numbered course takes priority. A common final is one in which all the students from one course, regardless of section or time offered, take the final at the same time.
2. Examinations for graduate level courses have priority over examinations for undergraduate-level courses.
3. Within the level of the courses, undergraduate or graduate, examinations for numerically higher numbered courses have a priority over lower numbered courses. Example: A course numbered 7283 has priority over a course numbered 6924 and a course numbered 4334 has priority over a course numbered 4282.
4. If after applying items 1 through 3, there remains a conflict, priority shall be given to the course with the prefix closest to the beginning of the alphabet. Example: ART 4901 would have priority over BIO 4901.

The final examination schedule shall be published in the same manner and place as the **Schedule of Classes**.

The instructor of the course not receiving priority shall provide for a make-up exam either in accordance with the designated make-up exam periods or at a mutually acceptable time for both the instructor and the student during the exam period.

## Dean's List

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

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

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

## Academic Regulations Committee

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

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Representatives from the college ARC's also meet formally to review ARC policies and procedures for the University.

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

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

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

## STUDENT ACADEMIC GRIEVANCE PROCEDURES

### [USF Policy 10-002](#)

#### I. Introduction (Purpose and Intent)

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

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

#### II. Terms and Guidelines

An "*academic grievance*" is a claim that a specific academic decision or action that affects that student's academic record or status has violated published policies and procedures, or has been applied to the grievant in a manner different from that used for other students. Grievances may relate to such decisions as the assignment of a grade seen by the student as incorrect or the dismissal or failure of a student for his or her action(s), including violations of the professional/ethical standards in clinical or field-based programs. Academic grievances will not deal with general student complaints.

"*Instructor*" shall mean any classroom instructor, thesis/dissertation/directed study supervisor, or Dean or supervisor that imposes the final academic decision.

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

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

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

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

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

"*Jurisdiction*" is where the course (not the student's registration status) is housed (e.g., payment of faculty salary for the course) determines the appropriate forum (institution, college or department) where the grievance will be

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conducted. The outcomes of the grievance should be shared with the home institution, College and Department (Program Director or Chair of the students major). In the case where there is a joint program or it is unclear where jurisdiction shall fall, the Provost (or designee) may be consulted to identify the appropriate forum for the grievance. If a student is dismissed from a course, program, college or institution, that forum may make an additional recommendation for a more comprehensive sanction across the System directly to the Provost. In the event there is a System level dismissal by the Provost, and a student wishes to appeal that system level action, the President may designate an administrative officer to review that appeal and make a final determination.

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

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

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

### III. Statement of Policy

#### A. Resolution Process at the Course or Department Level

1. If the grievance concerns the Chairperson/Director or other officials of the department, the student has a right to bypass the departmental process and proceed directly to the College Level.
2. The student shall first make a reasonable effort to resolve his or her grievance with the instructor concerned, with the date of the incident triggering the start of the process (i.e. the issuance of a final grade) and if the instructor determines it is feasible and may be productive, the instructor shall accommodate a reasonable request to discuss and attempt to resolve this issue.
3. If the situation cannot be resolved or a meeting with the instructor is not feasible, the student shall file a notification letter within three (3) weeks of the triggering incident to the department Chairperson/Director or the appropriate supervisor. This shall be a concise written statement of particulars and must include specific reference to the (a) published USF Policy, procedure or official published catalog and the manner in which it was allegedly violated and the decision that affected the student's academic record or status based on a violation of that specific written USF policy, procedure or official published catalog (b) a description of the manner in which the student was treated in a substantially inequitable manner and a statement indicating the remedy sought (c) supporting documentations of all claims in the grievance and (d) the effort the student made to resolve the issue with the instructor.
4. The department Chairperson/Director must determine if the matter is an Academic Grievance (a specific Policy violated or a student treated differently than others) or if the matter is a complaint regarding the course or instructor.
5. (a) If the Chairperson/Director determines that the matter is not an Academic Grievance, the Chairperson/Director will discuss the complaint with the student and/or the faculty member and must advise the Dean of the complaint and the recommended resolution if any. The Dean will then review the classification of the complaint as not subject to the Academic Grievance Process and advise the student and faculty member in writing of the Dean's decision which may be to do one or more of the following:
  - 1.) Implement the recommendation of the Chairperson/Director (which can include dismissal).
  - 2.) Reject the classification and move the matter forward as an academic grievance.
  - 3.) Make referrals to appropriate Human Resources or employee supervisor/office for intervention and/or to appropriate USF offices (such as Diversity and Equal Opportunity Office (DEO)).(b) If the Chairperson/Director determines the matter is an Academic Grievance, the Chairperson shall provide a copy of the student's statement to the instructor. The instructor may file a written response to the grievance and the Process will continue.
6. The department Chairperson/Director shall discuss the student's statement as reference above jointly or individually with the student and the instructor to see if the grievance can be resolved. If the department maintains its own grievance procedure,\* it should be applied at this point. If the grievance can be resolved, the Chairperson/Director shall provide a statement to that effect to the student and the instructor with a copy to the College Dean.
7. If the grievance cannot be resolved, the department Chair/Director shall notify both the student and the instructor, informing the student of his/her right to file a written request directed back to the Chair/Director within three weeks to advance the grievance to the College Level. Upon receipt of the student's request to move the process to the College Level and the instructor's response to the grievance (if provided), the Chairperson/Director shall immediately notify the College Dean of the grievance, providing copies of the student's initiating grievance statement, any instructor's written response to the grievance, and the written request from the student to have the process advanced to the College Level (which shall include additional student responses and final statement). Should the student not file a written request to move the grievance to the College Level within the prescribed time, the grievance will end.

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## B. Resolution Process at the College Level

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

- a. Three (3) faculty members and two (2) students (undergraduate or graduate as appropriate to the case) shall be selected from the college by the Dean.
  - b. Wherever practical, the Committee shall not include members of the faculty or students of the department directly involved with the grievance, or faculty or students of the student's major department. However, for cases involving Clinical or Professional Standard violations, the Committee shall include, when feasible, at least one member assigned to oversee or with expertise in, a clinical area.
  - c. The student or instructor may request to attend a Committee meeting to present a final statement to the committee. The Chairperson will designate which meeting the student or instructor may attend to present any final statement to the Committee. Only the Committee may invite additional parties such as faculty or students from the department involved with the grievance or from the student's major department or other outside party to provide expert or other relevant testimony in the proceedings. The student or instructor may be present during the other's final statement and may hear the additional information provided, however, neither may be present during the Committee's deliberations. The meeting time and place is to be set by the Committee. Failure or an inability of the student or instructor to attend a meeting will not force the meeting to be rescheduled or cancelled.
  - d. The student or instructor may be accompanied by one individual (not to act as legal counsel or to participate in the meetings) if the student or instructor attends the meeting. The individual may be required to sign a confidentiality agreement.
  - e. Students may not initiate contact regarding or relating to the grievance process or outcome with any member of the Committee outside of this established process before, during or after the Committee review process and any such contact may be considered a violation of the Student Code of Conduct.
2. The Committee will operate in the following manner:
- a. The Committee Chairperson will be appointed by the College Dean from among the three (3) faculty members appointed to the Committee.  
The Committee Chairperson shall be responsible for scheduling meetings, overseeing the deliberations of the committee and ensuring that full and fair consideration is provided to all parties. The Committee Chairperson shall vote on committee decisions only when required to break a tie.
  - b. In Committee reviews involving Academic Integrity, the following Academic Integrity Review Process shall be followed in addition to the other Departmental procedures, if applicable:
    1. The Committee Chairperson shall notify the student and instructor of the date and time of the meeting.
    2. The student and instructor may submit a list of questions to the Committee Chairperson to be answered by the student and instructor. If submitted, the questions will be disseminated by the Committee Chairperson and the Committee Chairperson will ensure that the questions are answered in writing and submitted for review by the Committee, student, and instructor before the initial meeting.
    3. Students shall be permitted to remain in the course or program during the Academic Integrity Review Process. However, if the student is in a clinical or internship setting, the student may be removed from such setting until the issue of Academic Integrity is resolved. In such cases, the program will attempt to identify an alternative educational option to the clinical or internship to enable the student to continue progressing in the program.
  - c. All deliberations shall be in private and held confidential by all members of the Committee. The recommendation of the Committee shall be based on their interpretation of the evidence presented to it.
  - d. Within three (3) weeks of the Committee appointment, the Committee Chairperson shall deliver in writing to the College Dean a report of the findings and a recommended resolution.
  - e. Within three (3) weeks of receipt of the Committee recommendation, the College Dean shall provide a decision in writing to all parties (the student, the instructor and the department Chair/Program Director). The Dean's decision shall indicate whether the decision was consistent with the committee recommendation.
  - f. The College Dean's decision is a final decision and appealable by the instructor or student to the University level only in the event (1) the decision of the College Dean is contrary to the recommendation of the Committee (which will be indicated in the Dean's decision) or (2) if there is a specific and identified substantive procedural violation of these Student Academic Grievance Procedures. Such an appeal must be made in writing to the Dean of Undergraduate Studies or Graduate Studies (as appropriate) or the appropriate Chief Academic Officer or their designee within three weeks of receipt of the decision from the College Dean.

## C. Resolution Process at the Institution Level

For this level of appeal process, the Provost/Executive Vice President for Academic Affairs or the Sr. Vice President for USF Health has delegated authority for academic grievance appeals at the

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

1. The student or the instructor may appeal at the Institution Level within three (3) weeks of the receipt of a decision made at the College Level, when (1) the decision at the College Dean Level is contrary to the recommendation of the Grievance Committee (2) a party identifies a specific substantive procedural violation in the application of the AGP. Within three weeks of receipt of the appeal of the decision, the Administrative Officer shall determine that the appeal is merited (there is a recommendation at the College Level contrary to the committee or the Administrative Officer concurs that there is cause to believe a substantive procedural violation in application of the AGP process may have occurred). If the Administrative Officer determines the appeal is not merited, the Administrative Officer shall advise the student, the instructor and the department Chair accordingly and that notice shall be a final University Decision. If the appeal is determined to be merited, the Administrative Officer (who may consult with the Faculty Senate and Student Senate) shall appoint an Appeals Committee consisting of three (3) faculty members drawn from the appropriate USF System Undergraduate Council or Graduate Council, and two (2) students, undergraduate or graduate (as appropriate and to be determined by the Administrative Officer).
2. The structure, functions and operating procedures of the Appeals Committee will be the same as those of the College Committee (i.e. chaired by one of the appointed faculty members appointed by the Administrative Officer who will not vote except in the case of a tie, having no representation from either party's respective departments, developing a recommendation to the Administrative Officer, etc.); however, the Committee will review only the written documents from the earlier review at the College level unless the Committee invites statements from witnesses or parties. In the event any additional witness testimony is provided, the student and/or instructor will be invited to hear those additional statements and provide a short response.
3. Within three (3) weeks of the appointment, the Committee Chairperson shall deliver in writing to the Administrative Officer a report of the findings of the Committee and a recommended resolution.
4. Within three (3) weeks of receipt of the Committee recommendation, the Administrative Officer shall provide a decision in writing to all parties.
5. If the Administrative Officer's decision is that a grade change is merited, the Administrative Officer shall initiate the grade change on the authority of the Provost and so inform all parties. In all academic grievance appeals, the Administrative Officer's decision is a final University decision and not subject to further appeal within the USF System.
6. In those cases where the final University decision constitutes a dismissal or permanent separation from the University, a student may seek judicial review pursuant to Florida Rule of Appellate Procedure 9.190(b)(3) by filing a petition for certiorari review with the appropriate circuit court within thirty (30) days of the final University decision. If a person seeks review with the court, a copy of the petition must also be provided to the University of South Florida Office of the General Counsel at University of South Florida, CGS 301, 4202 E. Fowler Avenue, Tampa, Florida 33620-4301.

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

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

## DISRUPTION OF ACADEMIC PROCESS

### USF Regulation 3.025

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



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

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

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

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

### 3. Procedures for Handling Disruption of Academic Process

#### (a) General Guidelines for Instructor:

1. If a student is disruptive, the Instructor may ask the student to stop the disruptive behavior and/or warn the student that such disruptive behavior can result in academic and/or disciplinary action. Alleged disruptions of the academic process will be handled initially by the Instructor, who will discuss the incident with the student whenever possible. It must be noted that the Faculty Senate considers the traditional relationship between student and instructor as the primary means of settling disputes that may arise.
2. The Instructor is authorized to ask a student to leave the classroom or academic area and desist from the disruptive behavior if the Instructor deems it necessary. If the Instructor does this, s/he will send an [Academic Disruption Incident Report](#) within 48 hours simultaneously to (a.) the department chair, (b.) the Assistant/Associate Dean of the College (as determined by the College), (c) the Office of Student Rights and Responsibilities (OSRR) or the regional campus' designated office in Student Affairs, and (d.) the student. If the situation is deemed an emergency or circumstances require more immediate action, the instructor should notify the appropriate law enforcement agency, OSRR and other authorities as soon as possible. Any filed Incident Report can, and should, be updated if new information pertinent to the situation is obtained.
3. An Instructor may also further exclude the student from the classroom or other academic area pending resolution of the matter. If the Instructor recommends exclusion (temporary or permanent) from the classroom pending resolution, the student must be informed of the exclusion before the next scheduled class (either by phone, email or in person). That notice must: (a.) inform the student of the exclusion, (b.) inform the student of his/her right to request an expedited review of the exclusion within two days to the Chair of the Department.

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

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

#### (b) Possible Academic Sanctions and Grading Guidelines:

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

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

#### (c) Documentation and Academic Disruption Incident Report:

Instructors should be aware that notes of the dates, times, witnesses and details of the incidents of disruption

# ACADEMIC POLICIES AND PROCEDURES

and the impact of the disruption on those present may be important in any future proceedings which may be necessary. Referrals to the Office of Student Rights and Responsibilities or designated office in Student Affairs require written documentation containing factual and descriptive information. The student is entitled to see this documentation.

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

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

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

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

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

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

(e) Resources (contact numbers are for Tampa):

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

## ACADEMIC INTEGRITY OF STUDENTS

### USF Regulation 3.027

#### I. 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

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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

## II. 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 and Graduate Studies with different standards for academic integrity, it is important to reference Section V(D).

## III. APPLICABILITY & AUTHORITY

A. The following Regulation applies to all students, instructional faculty and staff who participate in administration of academic classes, programs and research at the USF System.

The processes outlined in this Regulation 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 that they maintain procedures and processes for issues regarding academic integrity and/or professionalism.

B. The Academic Integrity Review Process (AIRP) is independent of any other USF process or review. The determinations by the Academic Offices are final. However, this process includes mechanisms for referrals outside of the Academic process to both the Office of Student Rights and Responsibilities (OSRR) and the Office of Research, Integrity and Compliance (ORIC). Each of the offices has the authority to impose independent sanctions on the student that may be additional, less severe or more severe than the academic sanctions. The student will be subject to each sanction concurrently and/or consecutively and must comply with the full terms of each.

C. The student will be assigned the grade by the instructor in the course in which the student is registered. Jurisdiction of the appeal and review stays with the course; however, if the potential sanction extends outside of the College or Academic unit where the course is housed, jurisdiction is transferred to the Academic Officer with the authority to impose the greater sanction.

## IV. DEFINITION OF TERMS

A. Notice shall be considered final upon email to a student's official USF email address. Additional notice may be sent at the discretion of the parties.

B.

C. Academic Officer ("AO") shall mean the individual (or their designee) vested with the authority to impose the recommended academic sanctions by the instructor. The appropriate AO may vary by institution, circumstance or factual basis of each case. In the event it is unclear, the Chief Academic Officer or their designee will identify the appropriate AO. The table below is provided as a general guideline.

Academic Dishonesty occurred in:	Sanction:	Academic Officer (to be determined by individual cases and title may vary):	Academic Officer for Academic Integrity Appeal:
Course	<ul style="list-style-type: none"> <li>• Grade Assignment;</li> <li>or</li> <li>• Removal from course</li> </ul>	Instructor's Supervisor or Department Chair	Dean of College
Program	<ul style="list-style-type: none"> <li>• Suspension; or</li> <li>• Removal from Program</li> </ul>	Chair (or Director for certain Schools)	Dean of College
College	<ul style="list-style-type: none"> <li>• Suspension; or</li> <li>• Removal from College</li> </ul>	Dean of College	Dean of Graduate/Undergraduate Studies or Chief Academic Officer

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University or Institution	<ul style="list-style-type: none"> <li>• Suspension; or</li> <li>• Dismissal from University</li> </ul>	Dean of Graduate/Undergraduate Studies or Chief Academic Officer	Dean of Graduate/Undergraduate Studies or Chief Academic Officer
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D. **Dean** shall mean a College Dean, or where applicable the Dean of Undergraduate Studies, Dean of Graduate Studies, or the Chief Academic Officer (for those Institutions that do not have a Dean of Undergraduate or Graduate Studies) or the equivalent as indicated – or in all cases a “Dean’s designees” appointed to handle academic grievances for the unit.

E. **Academic Integrity Review Board (“AIRB”)**: The committee that will be appointed by the Academic Officer to review the Academic Integrity finding and sanction as referenced in Section VII (2).

F. **Academic Integrity Review Process (“AIRP”)**: The steps described in this Regulation that govern how an Academic Integrity violation will be charged, appealed and determined.

G. **Student Academic Integrity Committee (“SAIC”)**: The group of individuals that may be identified by a University System member as trained academic integrity volunteers. These volunteers may develop academic integrity educational modules and policies and who may be available to serve on an AIRB.

H. **Academic Dishonesty** is the term used to define the violation of the Academic Integrity Regulation.

I. **Violations of Academic Integrity**: The behaviors described below are considered violations of the academic standards for both Undergraduate and Graduate students. The academic sanctions for Graduate students may be more severe.

1. **Cheating** is using or attempting to use materials, information, notes, study aids, or other assistance in any type of examination or evaluation which have not been authorized by the instructor.
  - a) Students completing any type of examination or evaluation are prohibited from looking at or transmitting materials to another student (including electronic reproductions and transmissions) and from using external aids of any sort (e.g. books, notes, calculators, photographic images or conversation with others) unless the instructor has indicated specifically in advance that this will be allowed.
  - b) Students may not take examinations or evaluations in the place of other persons. Students may not allow other persons to take examinations or evaluations in their places.
  - c) Students may not acquire unauthorized information about an examination or evaluation and may not use any such information improperly acquired by others.
  - d) Instructors, programs and departments may establish, with the approval of the colleges, additional rules for exam environments and behavior. Such rules must be announced in advance in a course syllabus or other advance written notice to students.
2. **Plagiarism** is intentionally or carelessly presenting the work of another as one’s own. It includes submitting an assignment purporting to be the student’s original work which has wholly or in part been created by another person. It also includes the presentation of the work, ideas, representations, or words of another person without customary and proper acknowledgement of sources. Students must consult with their instructors for clarification in any situation in which the need for documentation is an issue, and will have plagiarized in any situation in which their work is not properly documented.
  - a) Every direct quotation must be identified by quotation marks or appropriate indentation and must be properly acknowledged by parenthetical citation in the text or in a footnote or endnote.
  - b) When material from another source is paraphrased or summarized in whole or in part in one’s own words, that source must be acknowledged in a footnote or endnote, or by parenthetical citation in the text.
  - c) Information gained in reading or research that is not common professional knowledge must be acknowledged in a parenthetical citation in the text or in a footnote or endnote.
  - d) This prohibition includes, but is not limited to, the use of papers, reports, projects, and other such materials prepared by someone else.
3. **Fabrication, Forgery and Obstruction**:
 

**Fabrication** is the use of invented, counterfeited, altered or forged information in assignments of any type including those activities done in conjunction with academic courses that require students to be involved in out-of-classroom experiences.

**Forgery** is the imitating or counterfeiting of images, documents, signatures, and the like.

**Obstruction** is any behavior that limits the academic opportunities of other students by improperly impeding their work or their access to educational resources.

  - a) Fabricated or forged information may not be used in any laboratory experiment, report of research, or academic exercise. Invention for artistic purposes is legitimate under circumstances explicitly authorized by an instructor.

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- b) Students may not furnish to instructors fabricated or forged explanations of absences or of other aspects of their performance and behavior.
  - c) Students may not furnish, or attempt to furnish, fabricated, forged or misleading information to university officials on university records, or on records of agencies in which students are fulfilling academic assignments.
  - d) Students may not steal, change, or destroy another student's work. Students may not impede the work of others by the theft, defacement, mutilation or obstruction of resources so as to deprive others of their use.
  - e) Obstruction does not include the content of statements or arguments that are germane to a class or other educational activity.
4. **Multiple Submissions** is the presenting or turning in the same or substantially the same work for credit in two or more courses. Multiple submissions shall include the use of any prior academic effort previously submitted for academic credit at this or a different institution. Multiple submissions shall not include those situations where the prior written approval by the instructor in the current course is given to the student to use a prior academic work or endeavor.
- a) Students may not normally submit any academic assignment, work, or endeavor in more than one course for academic credit of any sort. This will apply to submissions of the same or substantially the same work in the same semester or in different semesters.
  - b) Students may not normally submit the same or substantially the same work in two different classes for academic credit even if the work is being graded on different bases in the separate courses (e.g. graded for research effort and content versus grammar and spelling).
  - c) Students may resubmit a prior academic endeavor if there is substantial new work, research, or other appropriate additional effort. The student shall disclose the use of the prior work to the instructor and receive the instructor's permission to use it PRIOR to the submission of the current endeavor.
  - d) Students may submit the same or substantially the same work in two or more courses with the prior written permission of all faculty involved. Instructors will specify the expected academic effort applicable to their courses and the overall endeavor shall reflect the same or additional academic effort as if separate assignments were submitted in each course. Failure by the student to obtain the written permission of each instructor shall be considered a multiple submission.
5. **Complicity** is assisting or attempting to assist another person in any act of academic dishonesty. A student will be considered to be complicit if the student is aware of an academic integrity violation, is able to report and fails to do so. In addition:
- a) Students may not allow other students to copy from their papers during any type of examination.
  - b) Students may not assist other students in acts of academic dishonesty by providing material of any kind that one may have reason to believe will be misrepresented to an instructor or other university official.
  - c) Students may not provide substantive information about test questions or the material to be tested before a scheduled examination unless they have been specifically authorized to do so by the course instructor. This does not apply to examinations that have been administered and returned to students in previous semesters.
  - d) Students may not have a substitute take an examination or take an examination for someone else.
6. **Improper use of teamwork credit** is allowing your name to be included on a group project in which you did not participate. This act is considered a violation of academic integrity. For reference, general guidelines for appropriate teamwork participation include, but are not limited to the following:
- a) No team member shall intentionally restrict or inhibit another team member's access to team meetings, team work-in-progress, or other team activities without the express authorization of the instructor.
  - b) All team members shall be held responsible for the content of all teamwork submitted for evaluation as if each team member had individually submitted the entire work product of their team as their own work.
  - c) Only those persons who participated on the team shall be named in the submission of the assignment.

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7. **Solicitation or Purchase** is the offering, advertising or responding to solicitations or purchasing products or services designed to facilitate, support or actively contribute to the commission of an act of academic dishonesty.
8. **Misrepresentation.** Submitting the work of another as your own, e.g., using a ghostwriter to write a paper, thesis, and dissertation; having another person complete an on-line class in your name.
9. **Misconduct in Research and Creative Endeavors** is a serious deviation from the accepted academic and professional practices within a discipline or from the policies of the university in carrying out, reporting, or exhibiting the results of research or in publishing, exhibiting, or performing creative endeavors. Research Misconduct means fabrication, falsification, or plagiarism in proposing, performing, or reviewing research, or in reporting research results. It does not include honest error or differences in opinion. In addition to the academic sanctions in this Regulation misconduct in research is also subject to USF System Policy 0-301, procedures and any sanctions contained therein.
  - a) Students may not invent or counterfeit information.
  - b) Students may not report results dishonestly, whether by altering data, by improperly revising data, by selective reporting or analysis of data, or by being grossly negligent in the collecting or analysis of data.
  - c) Students may not represent another person's ideas, writing or data as their own.
  - d) Students may not appropriate or release the ideas or data of others when such data have been shared in the expectation of confidentiality.
  - e) Students may not publish, exhibit, or perform work in circumstances that will mislead others. They may not misrepresent the nature of the material or its originality, and they may not add or delete the names of authors without permission.
  - f) Students must adhere to all federal, state, municipal, and university regulations or policies for the protection of human and other animal subjects.
  - g) Students may not conceal or otherwise fail to report any misconduct involving research, professional conduct, or artistic performance of which they have knowledge.
  - h) Students must abide by the university's policies on Misconduct in Research where applicable, which can be found in the university's policies and Procedures Manual at the Regulations and Policies website.
10. **Computer Misuse** includes unethical or illegal use of the computers of any person, institution or agency in which students are performing part of their academic program.
  - a) Students may not use the university computer system in support of any act of plagiarism.
  - b) Students may not monitor or tamper with another person's electronic communications.
11. **Misuse of Intellectual Property** is the illegal use of copyright materials, trademarks, trade secrets or intellectual properties.
12. **Violation of State or Federal laws with regard to Intellectual Property** is conduct that violates and does not adhere to state or federal laws concerning the fair use of copies or other intellectual property.

## V. **SEVERITY OF CONDUCT DETERMINATIONS & ACADEMIC SANCTIONS**

### A. **General Guidelines:**

1. Violations for USF System Undergraduate students are classified into four (4) levels according to the nature of the infraction. For each level of violation a corresponding set of academic sanctions is recommended, however, specific academic programs may include additional and different academic sanctions. These academic sanctions are intended as general guidelines for the academic community with examples cited below for each level of violation. These examples are not to be considered all-inclusive.
2. Violations for USF System Graduate Students are not classified into levels as the instructor determines the severity of the violation, the grade and recommends any more severe academic sanction.
3. Multiple Violations:
  - a) Graduate Studies:

Graduate Students who are assigned an "FF" grade will be academically dismissed from the university and will not be eligible to apply to any Graduate program at USF. Graduate Studies may have additional guidelines and protocols available online or in the Graduate Studies catalog.

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## b) Undergraduate Studies:

- i. For the first "FF" recorded in an Undergraduate student's academic record, the student will receive a letter from the Dean of Undergraduate Studies or the Chief Academic Officer informing him or her of being placed on "Academic Dishonesty Warning" for the remainder of enrollment at USF and of appeal rights for the "FF" grade. The student may also be suspended for one (1) full semester, depending upon the level of violation.
- ii. For the second "FF" recorded, the Undergraduate Student will be suspended for one (1) full semester and readmitted only after writing a clear statement indicating remorse, understanding of the seriousness of the offense, and understanding of the importance of integrity in all areas, including academic work. A letter informing him or her of this action and appeal rights will be sent from the Dean of Undergraduate Studies.
- iii. The Undergraduate Student may be permanently dismissed from the university for violations of academic integrity with notice of that dismissal as a part of the formal record and transcript.
- iv. The maximum penalty for receipt of any "FF" grade may be permanent dismissal from the university for violations of academic integrity and with a notice of that dismissal as a part of the student's formal record and transcript.
- v. In the event of multiple violations, sanctions may be imposed consecutively or concurrently at the discretion of the AO.

B. **Severity of Academic Integrity for Undergraduate Students:** For Undergraduate Students the severity of conduct is divided into levels with specific academic related sanctions. For Graduate Studies, the instructor determines severity and academic sanctions as provided in Section V(D) below.

### 1. Level One

#### a) **CONDUCT:**

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

- i. Working with another student on a laboratory or other homework assignment when such work is prohibited (This level is appropriate if the instructor determines it is a minor infraction).
- ii. Failure to footnote or give proper acknowledgment in an extremely limited section of an assignment.

#### b) **ACADEMIC SANCTIONS:**

- i. Reduction or no credit given for the original assignment.
- ii. An assigned paper or research project on a relevant topic.
- iii. A make-up assignment at a more difficult level than the original assignment.
- iv. Required attendance and tuition cost for a non-credit workshop or seminar on ethics or related subjects.

### 2. Level Two

#### a) **CONDUCT:**

Level Two violations are characterized by dishonesty of a more serious character or that which affects a more significant aspect or portion of the course work or assignment. The following are examples:

- i. Working with another student on a laboratory or other homework assignment when such work is prohibited (This level is appropriate if the instructor determines it is a more serious infraction).
- ii. Quoting directly or paraphrasing, to a moderate extent, without acknowledging the source.
- iii. Submitting the same work or major portions thereof to satisfy the requirements of more than one course without permission from the instructor.
- iv. Using data or interpretative material for a laboratory report without acknowledging the sources or the collaborators. All contributors to preparation of data and/or to writing the report must be named.
- v. Receiving assistance from others, such as research, statistical, computer programming, or field data collection help that constitutes an essential element in the undertaking without acknowledging such assistance in a paper, examination or project.

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- b) **ACADEMIC SANCTIONS:**
  - i. Failing grade for the assignment involved with the grade in the course determined in the normal manner.
  - ii. Failing grade for the course, which may be an “F” or “FF” on the internal transcript.
- 3. **Level Three\***
  - a) **CONDUCT:**

Level Three is characterized by violations that affect a major or essential portion of work done to meet course requirements, involves premeditation or demonstrates repetition or both, of one or more violations of Level One or Level Two violations including repeating any one or more of the following actions:

    - i. Copying on examinations.
    - ii. Plagiarizing major or essential portions of a written assignment.
    - iii. Acting to facilitate copying during an exam.
    - iv. Using prohibited materials, e.g. books, notes, e-flashcards or calculators during an examination.
    - v. Collaborating before an exam to develop methods of exchanging information and implementation thereof.
    - vi. Altering examinations for the purposes of re-grading.
    - vii. Acquiring or distributing an examination from unauthorized sources prior to the examination.
    - viii. Presenting the work of another as one's own.
    - ix. Using purchased term paper or other materials (even if the source is cited).
    - x. Removing posted or reserved material, or preventing other students from having access to it.
    - xi. Fabricating data by inventing or deliberately altering material (this includes citing "sources" that are not, in fact, sources).
    - xii. Using unethical or improper means of acquiring data.
  - b) **ACADEMIC SANCTIONS\*:**
    - i. Failing grade for the course with a designation of “FF” on student's internal transcript.
    - ii. Possible suspension from the university for one (1) semester.
- 4. **Level Four\***
  - a) **CONDUCT:**
    - i. All academic infractions committed after return from suspension for a previous academic honesty violation.
    - ii. Infractions of academic honesty in ways similar to criminal activity (such as forging a grade form, stealing an examination from a professor or from a university office; buying an examination; or falsifying a transcript to secure entry into the university or change the record of work done at the university).
    - iii. Having a substitute take an examination or taking an examination for someone else.
    - iv. Fabrication of evidence, falsification of data, quoting directly or paraphrasing without acknowledging the source, and/or presenting the ideas of another as one's own in a senior thesis.
    - v. Sabotaging another student's work through actions designed to prevent the student from successfully completing an assignment.
    - vi. Willful violation of a canon of the ethical code of the profession for which a student is preparing.
  - b) **ACADEMIC SANCTIONS\*:**

The typical sanction for all Level Four violations is permanent academic dismissal from the university with the designation of "Dismissed for Academic Dishonesty" to be placed permanently on a student's external transcript.
- C. **Centralized Reporting:**
  - 1.\* In all Level 3 or Level 4 violations, the instructor must send a concise written statement including details of the date, time, and incident particulars (the “Report”) to the AO to consider additional academic sanctions above the grade assignment.
  - 2. In Level 2, 3 and 4 violations, the instructor should contact the Dean of Undergraduate Studies or the Chief Academic Officer at their institution to determine if there is an office designated to track academic



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integrity violations/violators (Referred to as an "AIO"). If the institution has an AIO, the instructor must send a copy of the Report to the institution's AIO. The AIO will have exclusive access to the Reports and will only share the Reports to instructors or academic advisors in the event of multiple Reports regarding a single student. This will enable appropriate handling of multiple violations.

3. As member institutions may not have a Dean of Undergraduate Studies they may establish internal protocols for centralized reporting by an internal procedure or Policy.

### D. **Severity of Academic Integrity for Graduate Students**

1. The Office of Graduate Studies has no levels of severity as any violation may result in immediate dismissal. Students will be held to the standards provided for Graduate Studies if those students are admitted to a Graduate degree program or Graduate certificate or any student taking Graduate level courses. The instructor will determine the severity of the offense and the appropriate grade. Any student in a Graduate Studies course who receives an "FF" grade is subject to immediate dismissal and or expulsion. The grade assignments and additional academic sanctions will depend on the seriousness of the offense and may range from the receipt of:
  - a) An "F" or "Zero" grade on the subject paper, lab report, etc.
  - b) An "F" in the course or activity in which credit may be earned.
  - c) An "FF" in the course (leading to expulsion from the university).
  - d) Academic Dismissal for any violations of academic dishonesty Regulations or Policies.
  - e) Possible revocation of the degree or Graduate Certificate following a thorough investigation.

### E. **"FF" Grade Guidelines:**

1. Instructors may assign an "FF" grade in specific circumstances. An "FF" grade is noted on the students USF record, indicates academic dishonesty and is only reflected on internal records. Any Undergraduate Student who receives an "FF" grade in a course is restricted from repeating the course using the Grade Forgiveness Policy. For Graduate Students, an "FF" grade will lead to permanent dismissal from the university (in cases of permanent dismissal from the university a notation may be added to the official USF transcript).
2. If a student who has been accused of academic dishonesty drops the course, the student's registration in the course will be reinstated until the issue is resolved.
3. Any final course grade may be changed to an "FF", "F", or other grade depending on the instructor's decision or the ultimate resolution of the Academic Integrity Review Process. This includes any determination of a violation of the Academic Integrity Regulation that is not detected until after the student has dropped or completed the course or during or after the Academic Integrity Review Process. The actual steps for imposing the "FF" grade (which is an internal USF System designation) shall be established by each institution's Registrar or Chief Academic Officer.

## VI. **PROCESS STEPS:**

1. The instructor identifies or learns of an academic integrity violation.
2. The instructor identifies the severity level of the violation (see Section V(B)).
3. The instructor determines the appropriate grade assignment and use of the guidelines (included in Section V) and identifies any additional academic sanctions that may be recommended to the AO.
4. The instructor advises the student of the grade determination and recommended academic sanctions (if applicable) either in person or by email including a set date to discuss the determination (within ten (10) days of determination of the grade if possible).
5. Final Notice of Academic Sanction by the Instructor: Within ten (10) days of meeting with the student, if the instructor determines there is a grade sanction only and no recommended additional academic sanctions, the instructor may immediately assign the grade sanction and email the student notice of this final grade sanction. If the instructor does recommend additional academic sanctions, the instructor will assign the grade sanction and advise the student and AO of those recommended additional academic sanctions considered to be appropriate to the violation (Level 3 or 4 violations will include additional academic sanctions) and the process continues as detailed below.
6. Final Notice of Academic Sanction by the AO:
  - (a) Undergraduate Students: Within ten (10) days of receipt of the recommendation from the instructor, the AO will determine any additional academic sanctions, if applicable, and notify the student by email.
  - (b) Graduate Students: Graduate Studies uses an internal document which processes the request for academic sanctions up to and including dismissal and the Dean of Graduate Studies provides notice to the student.
7. Reports to a designated centralized office:

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The instructor or the AO may make a referral to an internal university office responsible for tracking academic integrity violations/violators if one has been designated as detailed in Section V (C).

8. If a student files an appeal (Section VII below), the final notice will not be imposed or noted until after the appeal process is complete unless the Academic Officer feels immediate action is necessary.
9. Referral to OSRR & ORIC: The Academic Offices are responsible for the AIRP and assignment of academic sanctions. If the instructor or AO determines the conduct also rises to a violation of the Student Conduct Code or the expectations and standards of the Office of Research, Integrity and Compliance (ORIC), the instructor or AO may make a referral to those offices. The instructor or AO making the referral should notify those additional offices of any pending or final academic sanction. A determination by OSRR or ORIC is separate and distinct from the AIRP and any academic sanction. The student must comply with all sanctions imposed by each office (a lesser sanction or different determination by the conduct offices does not impact the Academic sanction).
  - Transcript/Record: An Academic Integrity dismissal from the University will be reflected on a student's official transcript.
  - A grade sanction (such as an "FF") or other lower sanction is reflected on the student's internal USF record.

## VII. **ACADEMIC INTEGRITY APPEAL:**

The student may appeal after notice of the final academic sanction(s) which is either: (1) the instructor's grade determination; or (2) if there are additional academic sanctions, after those additional academic sanctions are reviewed and determined by the Dean. The student may remain enrolled in their academic program until the conclusion of the appeal process unless the Dean determines that the student may not remain enrolled and advises the student in writing accordingly. Unless an Institution or College has established and referenced an alternative academic integrity or professional standards process, the appeal process steps for academic integrity issues are:

1. After notice of the academic sanction, the student may send a written request to the Dean copying the instructor by email within five (5) days of the grade determination or final academic sanction. If it is unclear who the designated Dean should be, the student may ask the instructor to identify the appropriate Dean. The student's written email request must be a written concise statement of the student's position. This statement should include why the student feels the determination by the instructor and/or AO was not correct and must include any documentation that supports the student's position.
2. Upon receipt of the email appeal, the Dean will appoint an Academic Integrity Review Board (AIRB) composed of three (3) students and two (2) instructors or administrators (or at the Dean's discretion the committee may have just three members with two (2) students and one (1) instructor or administrator).
3. Selection of AIRB members: Although the Dean may select any students to serve on the AIRB, if the university system member establishes a Student Academic Integrity Committee (SAIC) at that institution, and there are SAIC members available to serve, the Dean shall select the student board members from the SAIC to serve on the AIRB at that institution. The students serving on the AIRB do not need to be from the College in which the appeal was filed. However, when possible undergraduate students should serve on AIRB for undergraduate student appeals, graduate students for graduate student appeals, clinical students for clinical student appeals, and medical students for medical student appeals.
4. The AIRB will meet within three (3) weeks from the time the Dean receives the student's written appeal. The Dean will advise the student by email of the date, time and place of the AIRB review. If the student or instructor has a justifiable conflict, the student or instructor may make one (1) written request to reschedule the review emailed to the Dean with the reason for the request, noting any known foreseeable conflicts into the next three (3) weeks. The one-time extension may be granted at the discretion of the Dean. (The timelines provided in this Regulation may be extended at the Dean's discretion with written notice to the student and instructor).
5. At the Review, the student and instructor will each be afforded an opportunity to present their position with reasonable time limits not to exceed fifteen (15) minutes per person.
6. The student may bring one (1) person to serve as an advisor; however that person may not act as a legal representative, argue, present, or participate in any active way in the review, including through communications by verbal, written or electronic promptings with the student.
7. Each party may be present during the other's position statement. Neither party may ask questions of the other, argue, or respond to the other's statement. The AIRB may question both parties at any time during the proceedings.
8. The AIRB will deliberate in private and render a decision within three (3) weeks of the AIRB review and offer its determination as a recommendation to the Dean (or equivalent depending on the organizational structure of the USF institution) with copy to the student by email. The student and

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instructor's concise written statements will be included with the AIRB's recommendation. The Dean will have three (3) weeks to accept or not accept the determination of the AIRB. (a) If the Dean accepts the determination of the AIRB, that is a final university decision and there is no further review available at the university. (b) If the Dean does not accept the determination of the AIRB, the Dean must refer the matter to the university level (Deans of UGS/OGS for Undergraduate and Graduate reviews, respectively or the Chief Academic Officer (See Section IV(C)). The University Level officer (a) will have three (3) weeks to make a final determination (b) may request to review any additional information necessary or may limit the review to the initial statements provided by the student and instructor upon initiation of the Academic Integrity Appeal Review and the Dean's Statement (c) will issue a determination that will be a final university decision in writing by email to the student, instructor and the Dean.

In the event the determination and final university decision is an "FF" grade with Academic Dishonesty noted and/or a related dismissal from the College or University, the student may appeal that final university decision within thirty (30) days to the Circuit Court by way of Writ of Certiori.

### General Education Core Course Requirements

#### [BOG Regulation 8.005](#)

Prior to the award of an Associate in the Arts or Baccalaureate degree, students entering a state university as a first-time-in-college student in the Fall Term 2015 and thereafter must complete at least one course, chosen from the list of [state-approved courses](#) for each of the general education subject areas (Communication, Humanities, Mathematics, Natural Sciences, and Social Sciences). These courses comprise the general education core as required per section 1007.25(3), Florida Statutes. The remaining courses and credits that will fulfill the total 36-hour general education requirement are at the discretion of the state university. Completion of both the general education core and remaining university-specified general education courses are required for completion of an undergraduate degree.

## FOUNDATIONS OF KNOWLEDGE AND LEARNING CORE CURRICULUM

### General Education

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

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

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

The FKL General Education (36 credits) curriculum consists of six Core Areas of Knowledge and Inquiry. These Core Areas are:

#### 1. English Composition

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

#### 2. Fine Arts and Humanities

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

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

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

### **3. Human and Cultural Diversity in a Global Context**

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

### **4. Mathematics and Quantitative Reasoning**

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

### **5. Natural Sciences**

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

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

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

### **6. Social and Behavioral Sciences**

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

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both general issues and methods of the discipline.

## Human Historical Context and Process Dimension (HHCP)

Two of the courses taken while fulfilling the other core area requirements must include the HHCP dimension and be approved as a Human Historical Context and Processes course. ENC1101 English Composition I is HHCP-approved and will count as one of the two required courses. In fulfilling the FKL required coursework, six (6) credit hours must be completed in courses with the HHCP dimension.

## FKL Core Curriculum Requirements

### General Education Core Area Requirements – 36 hours\*

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

\*Includes six (6) Human Historical Context and Process Dimension (HHCP)

## FKL Upper-Level Core Curriculum

The FKL upper-level core curriculum requirement consists of one Capstone Experience course (CPST) and one Writing Intensive Capstone course (WRIN). These courses represent an extension of the skills developed in the FKL curriculum and are upper-level (3000 or above) courses that must be taken at USF. It is expected that all FKL upper-level core curriculum requirements will be completed with USF-Tampa courses. Students must achieve a proficiency level of at least C- in the WRIN and CPST courses in order to full this requirement

### FKL Upper-level Core Curriculum Requirement – 6 credit hours

- 3 Capstone Experience (CPST)
- 3 Writing Intensive Capstone (WRIN)

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

## Other FKL Requirements

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

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

Please visit USF's course inventory [website](#) to search for courses that meet FKL requirements

## Courses to Satisfy the Board of Governor's Articulation Resolution ([6.017](#)) ("Gordon Rule")

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

- a. Six (6) semester hours of English coursework and six (6) semester hours of additional coursework in which the student is required to demonstrate college-level writing skills through multiple assignments. Each institution shall designate the courses that fulfill the writing requirements of this section. These course designations shall be submitted to the Statewide Course Numbering System. An institution to which a student transfers shall accept courses so designated by the sending institution as meeting the writing requirements outlined in this section.
- b. Six (6) semester hours of mathematics coursework at the level of college algebra or higher. For the purposes of this rule, applied logic, statistics and other such computation coursework which may not be placed within a mathematics department may be used to fulfill three (3) hours of the six (6) hours required by this section.
- c. Students awarded college credit in English based on their demonstration of writing skills through dual enrollment, advanced placement, or international baccalaureate instruction pursuant to 6A-10.024, and students awarded college credit based on their demonstration of mathematics skills at the level of college algebra or higher through one or more of the acceleration mechanisms in 6A-10.024, shall be considered to have satisfied the requirements

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

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

Students must achieve a proficiency level of at least C- in the course in order to receive Gordon Rule Communication credit. Courses to satisfy Gordon Rule may not be taken on an S/U basis.

Please visit USF's course inventory [website](#) to search for courses that meet Gordon Rule requirements

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

## Freshman English Requirement

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

1. First-time-enrolled students (a) who do not intend to take the CLEP Freshman English Test or (b) who have been notified of failing CLEP prior to registration and who do not intend to attempt the exam a second time must take ENC 1101 and ENC 1102 sequentially. If a student fails the first course, he/she must repeat it before proceeding to the next Freshman English course. Students should normally take these courses during their freshman year, but these courses are high demand and it is possible that registration space will not always be available.
2. First-time-enrolled students (a) who have not taken CLEP prior to their arrival on campus or (b) who have failed but wish to repeat the test should attempt CLEP during their first nine (9) weeks. During this semester, they should not enroll in ENC 1101. If a student either fails or doesn't attempt the CLEP examination during his/her first nine (9) weeks, the student normally should take ENC 1101 in the following semester. In this case, the student will normally complete the sequence by the first semester of his/her sophomore year.

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

## Credit by Examination

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

## Graduation Requirements Baccalaureate Degree University Requirements USF Regulation [3.007](#)

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

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

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

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

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## Degree Progression USF Policy [10-505](#)

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

Undergraduates must complete the Online Graduation Application for Degree and the Online Graduating Senior Survey by the [official University deadline](#) for the term in which they expect to graduate. Degree application deadlines are available in the Academic Calendar found in the Undergraduate Catalog.

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

Students should be approved to pursue minors only if the minor can be completed without extending the time required for the students' initially projected graduation date and without exceeding their ECHS threshold. Students in lockstep programs without available elective hours will not be approved for minors, unless an exception is approved by the College Dean or designee. Minors are awarded only in conjunction with the receipt of a baccalaureate degree. Students are expected to demonstrate academic success (appropriate GPA for program, completion ratio, and success in pre-requisites, core or other related coursework for current major and requested minor) before they can be approved for a minor. Students will apply for a minor before their last semester of enrollment. Minors may be approved at the discretion of the college offering the minor in the last term of enrollment provided the student will have completed all of the remaining course requirements for the minor in that term.

Students may be approved to pursue dual degrees and second majors only if they are able to complete both programs within no more than two additional semesters but not to exceed 10 semesters total to complete a degree from the initially projected graduation date or within the ECHS threshold for dual majors or dual degrees. Second majors are awarded only in conjunction with the receipt of a baccalaureate degree. Students should follow the requirements as stated on the Double Major or Dual Degree application forms and they are expected to apply for a second major or degree only after demonstrating academic success (appropriate GPA for both major programs, completion ratio, and success in pre-requisites, core or other related coursework for current major and second major or degree). Students will typically be approved for a second major or dual degrees before exceeding 96 credit hours (not counting in the latter any credit from examination or dual enrollment). The students' program of study is delineated on the application form and must be reviewed by both program advisors prior to submission for approval. Third majors will only be allowed in exceptional circumstances when the student can complete within the above criteria.

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

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

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

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

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

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

For the purposes of the requirements in in this policy, a semester is defined as a fall or spring semester in which a student is enrolled full-time (attempting 12 or more credit hours). Summer semesters, overseas study, and full term

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withdrawals are not included in the semester count. Semesters in which a student is doing an internship or co-op experience are not included in the semester count unless a full-semester internship is part of the degree requirements.

For further information, please review the [policy](#).

## Summer Enrollment Requirement

### USF Regulation [3.007](#)

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

## Foreign Language Graduation Requirement for B.A. Students (FLEX)

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

### Classical Languages

Greek (Ancient)  
Greek (New Testament)

Hebrew (Classical)  
Latin

### Modern Languages

Arabic  
Chinese  
French  
German

Greek (Modern)  
Hebrew (Modern)  
Italian  
Japanese

Polish  
Portuguese  
Russian  
Spanish

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

## American Sign Language

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

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

## Foreign Language Placement

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

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



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## Academic Residence

### USF Regulation 3.007

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

Candidates for graduation must have completed at least 30 hours of the last 60 hours of their undergraduate credits in courses offered by the USF System Institution (home institution) from which the degree is to be conferred. Individual colleges and programs may have more stringent requirements, approved by the university, such as the number of specific courses in the major that must be completed at the institution from which a student may receive a degree. Exceptions to the above rules may be made for students who are enrolled at other universities in USF approved exchanges, study abroad programs, co-op training programs or correspondence courses from the University of Florida. CLEP credit does not count toward academic residence.

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

## Academic Major

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

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

- Specialization:** The specific required courses that provide the academic concentration and baccalaureate identification, such as Mathematics, Accounting, Psychology, etc.
- Supporting or Related:** Those courses that are prerequisites to the specialization courses or that support specialized courses, providing preparation or breadth to the area of specialization. These courses are often referred to as college or program core courses.
- Program Electives:** The additional courses offered by the college that enhance the major courses as enrichment to the general academic field of study.
- Minor:** A smaller group of courses in a secondary field of study outside of the academic major. (See Academic Minor) Department courses used in the academic minor may not be applied to the academic major.

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

## Concentration

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

Each undergraduate concentration conforms to these University requirements:

1. A concentration is a minimum of 12 semester hours; at least 8 hours of credit used to satisfy the requirements must be from USF courses; at least 50 percent of the required coursework must be earned from the institution awarding the concentration.
2. USF Coursework for a concentration must have a minimum GPA of 2.00. Some minors have higher minimum GPA requirements.
3. Only an undergraduate degree-seeking student at USF is eligible for a concentration.
4. A concentration can be applied for and received only in conjunction with applying for and receiving a baccalaureate degree except for students who have already received a baccalaureate degree from USF who may earn a concentration by taking additional undergraduate coursework at the university and applying for the concentration as a degree-seeking student.

## College of Arts and Sciences

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

Africana Studies (AFA)

American Studies (AMS)

Anthropology (ANT)

Chemistry (CHM)

Biochemistry/Biotechnology (CBY)

Health Professions (CHH)

Classics-Latin/Greek (CLS)

Communication (SPE)

Culture and Media (SMD)

Health Communication (SHC)

Organizational Communication (SOG)

Performance Studies (SPS)

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Public Advocacy (SAD)	Library and Information Sciences (LIS)
Relational Communication (SRC)	Mass Communications (COM)
Economics (ECO)	Multidisciplinary Behavioral Sciences (MDS)
English (ENG)	Political Science (POL)
Creative Writing (CRW)	Psychology (PSY)
Literary Studies (LTS)	Public Administration (PAD)
Professional Writing, Rhetoric and Technology (PRT)	Public Health (PUB)
French (FRE)	Religious Studies (REL)
International Studies and Business (IFB)	Sociology (SOC)
Geography (GPY)	Women's Studies (WST)
Geology (GLY)	International Studies (INT)
German Studies (GMS)	Italian (ITA)
History (HTY)	Mass Communications (COM)
Humanities and Cultural Studies (HCS)	Advertising (ADV)
American Studies (AMSC)	Broadcast News (NWS)
Film and New Media Studies (FMSC)	Broadcast-Program and Production (PGM)
Humanities (HUMC)	Journalism-Magazine (MAG)
Interdisciplinary Classical Civilizations (ICC)	Journalism-News-Editorial (JOU)
Interdisciplinary Social Sciences (ISS)	Public Relations (PUR)
Africana Studies (AFA)	Mathematics (MTH)
American Studies (AMS)	Applied/Computational Mathematics (ACM)
Anthropology (ANT)	General Mathematics (GMM)
Communication (SPE)	Pure Mathematics (PMM)
Criminology (CCJ)	Philosophy (PHI)
Economics (ECO)	Physics (PHY)
Environmental Science and Policy (ESP)	Political Science (POL)
Geography (GPY)	Psychology (PSY)
Gerontology (GEY)	Religious Studies (REL)
History (HTY)	Russian Studies (RSS)
Interdisciplinary Social Sciences (ISS) (cont.)	Sociology (SOC)
Humanities (HUM)	Identity and Community (IDC)
International Studies (INT)	Inequality and Social Justice (ISJ)
Interpreter Training (TIS)	Spanish (SPA)
Language, Speech, and Hearing (SAH)	International Studies and Business (ISB)
Latin American, Caribbean, and Latino Studies (LAS)	Statistics (STC)
	Women's and Gender Studies (WGS)

## BACHELOR OF SCIENCE (B.S.)

Biomedical Sciences (BMS)	Biological Health Sciences and Social and Behavioral Health Sciences (HSB)
Cell and Molecular Biology (CAM)	Health Information Technology (HHI)
Chemistry (CHS)	Health Management (HHM)
Environmental Biology (ENB)	Health Management and Health Information Technology (HMT)
Environmental Microbiology (EMB)	Social and Behavioral Health Sciences (HBS)
Environmental Science and Policy (ESP)	Social and Behavioral Health Sciences and Aging Health Studies (HAS)
Geology (GLS)	Social and Behavioral Health Sciences and Health Information Technology (HST)
Health Science (HLS)	Social and Behavioral Health Sciences and Health Management (HMG)
Aging Health Studies (HAH)	Information Studies (IFS)
Aging Health Studies and Health Information Technology (HIT)	Integrative Animal Biology (IAB)
Aging Health Studies and Health Management (HAM)	Interdisciplinary Natural Sciences (INS)
Biological Health Sciences (HBH)	Marine Biology (MRN)
Biological Health Sciences and Aging Health Studies (HBA)	Medical Technology (MET)
Biological Health Sciences and Health Information Technology (HBI)	Microbiology (MIC)
Biological Health Sciences and Health Management (HBM)	Physics (PHS)

# ACADEMIC POLICIES AND PROCEDURES

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## College of Behavioral and Community Sciences

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

Communication Sciences and Disorders (CSD)  
Deaf Studies (DST)  
Interpreter Training (ITT)  
Language-Speech-Hearing (LSH)  
Criminology (CCJ)  
Gerontology (GEY)

### BACHELOR OF SCIENCE (B.S.)

Behavioral Healthcare (BHC)  
Addictions and Behavioral Health Care (BAH)  
Adult Community Services (ACS)  
Aging and Behavioral Health (AGBH)  
Applied Behavior Analysis (ABA)  
Behavioral Health Research (BHR)  
Children's Mental Health (CML)  
Long Term Care Administration (LTC)

### BACHELOR OF SOCIAL WORK (B.S.W.)

Social Work (SOK)

## College of Business

### B.A./B.S. option

Advertising (BAV)

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

International Business (ITB)  
Economics (GEC)  
Finance (GFI)  
Management (GMN)  
Management Information Systems (GIS)  
Marketing (GMK)

### BACHELOR OF SCIENCE (B.S.)

Accounting (ACC)	Finance and Management (GFI/GMN)
Finance (FIN)	Finance and Management Information Systems (GFI/GIS)
General Business Administration (GBA)	Finance and Marketing (GFI/GMK)
Accounting and Economics (GAA/GEC)	Management and Management Information Systems (GMN/GIS)
Accounting and Finance (GAA/GFI)	Management and Marketing (GMN/GMK)
Accounting and Management (GAA/GMN)	Management Information Systems and Marketing (GMK/GIS)
Accounting and Management Information Systems (GAA/GIS)	Management (MAN)
Accounting and Marketing (GAA/GMK)	Management Information Systems (ISM)
Economics and Finance (GEC/GFI)	Marketing (MKT)
Economics and Management (GEC/GMN)	Supply Chain Management (SCMG)
Economics and Management Information Systems (GEC/GIS)	
Economics and Marketing (GEC/GMK)	

## College of Education

### B.A./B.S. option

Exceptional Child Education with ESOL & Reading Endorsement (BEX)  
Mathematics Education (BMA)  
Middle School Mathematics (BMM)  
Physical Education (PET)  
Exercise Science (BPW)  
Science Education (SCE)  
Biology Education (BSB)  
Chemistry Education (BSC)

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Middle School Science Education (BDS)  
Physics Education (BSY)

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

Foreign Language Education with ESOL Endorsement (FLE)  
French (BFF)  
German (BFG)  
Italian (BFI)  
Russian (BFR)  
Spanish (BFS)

## **BACHELOR OF SCIENCE (B.S.)**

Early Childhood Education: Pre Kindergarten/Primary (BEC)  
Elementary Education (BEE)  
English Education with ESOL Endorsement (BEN)  
Social Science Education (BSS)

## **College of Engineering**

### **BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING (B.S.C.H.)**

Chemical Engineering (ECH)

### **BACHELOR OF SCIENCE IN CIVIL ENGINEERING (B.S.C.E.)**

Civil Engineering (ECE)

### **BACHELOR OF SCIENCE IN COMPUTER ENGINEERING (B.S.C.P.)**

Computer Engineering (ECP)

### **BACHELOR OF SCIENCE IN COMPUTER SCIENCE (B.S.C.S.)**

Computer Science (BCS)

### **BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING (B.S.E.E.)**

Electrical Engineering (EEL)

### **BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING (B.S.I.E.)**

Industrial Engineering (EIE)

### **BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY (B.S.I.T.)**

Information Technology (ITC)

### **BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING (B.S.M.E.)**

Mechanical Engineering (EME)

## **College of Nursing**

### **BACHELOR OF SCIENCE (B.S.)**

Nursing: VCARE (VCA)  
Nursing: RN to Bachelor's Sequence (NRN)  
Nursing: Second Bachelor's Degree Sequence (SBN)  
Nursing: Upper Division Sequence (NUR)

## **College of Public Health**

### **BACHELOR OF SCIENCE (B.S.)**

Public Health (PUB)

## **The Arts**

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

Art History (AHM)  
Dance (DAN)  
Dance Studies (DAS)  
Music Studies (MSU)  
Studio Art (SBA)  
Theatre (TAR)  
Design (TAD)  
Performance (TAP)  
Theatre Arts (TAA)

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## **BACHELOR OF FINE ARTS (B.F.A.)**

Dance (DAN)  
    Ballet (DAB)  
    Modern Dance (DAM)  
Studio Art (SBF)

## **BACHELOR OF MUSIC (B.M.)**

Music Performance (MUS)  
    Acoustic & Electronic Composition (MUC)  
    Jazz Studies (MJP)  
    Performance (MPF)

## **BACHELOR OF SCIENCE (B.S.)**

Music Education (MUE)

### **Undergraduate Studies**

## **BACHELOR OF GENERAL STUDIES (B.G.S.)**

General Studies (BGS)  
    Behavioral Healthcare (GBH)  
    Business (GBU)  
    Criminal Justice (GCJ)  
    Environmental Policy & Management (GEM)  
    Gerontology (GRY)  
    Information Studies: Information Architecture (GFA)  
    Information Technology (GIT)  
    Leadership Studies (GSL)  
    Public Administration (GPA)  
    Public Health (GPU)  
    Urban Studies (GUS)  
    Women's and Gender Studies (GWS)

## **BACHELOR OF SCIENCE IN APPLIED SCIENCE (B.S.A.S.)**

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

### **The Honors College**

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

### **Academic Minor**

An academic minor is a complement to a bachelor's degree program in a particular field, leading to specific educational goals. It requires approximately one-half the upper-level credits required for a major in that field. Minors are optional unless required by a specific major. A student may declare a minor at any point during the first term of enrollment and thereafter as a degree-seeking student, but is expected to declare it as early as possible. Students should obtain prior approval with the specific requirements and forms from the college and department in which the minor is offered. The department may require the same admission or retention standards as required for the major.

Each academic minor conforms to these University requirements:

1. A minor is a minimum of 12 semester hours; at least 8 semester hours of credit used to satisfy the requirements must be from USF courses; at least 50 percent of the required coursework must be earned from the institution awarding the minor.
2. A student may not have a major and a minor in the same program. Department courses used in the major may not apply to the minor.

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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.

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

### College of Arts and Sciences

Africana Studies (AFA)	Interdisciplinary Classical Civilizations (ICC)
American Studies (AMS)	International Studies (INT)
Anthropology (ANT)	Italian (ITA)
Astronomy (AST)	Linguistics (LIN)
Biomedical Anthropology (BAN)	Literary Studies (LTS)
Biomedical Physics (BPH)	Mass Communications (COM)
Chemistry (CHM)	Mathematics (MTH)
Chinese Language (CHN)	Microbiology (MIC)
Classics (CLS)	Modern Greek (MGR)
Communication (SPE)	Philosophy (PHI)
Creative Writing (CRW)	Physics (PHY)
Economics (ECO)	Political Science (POL)
Environmental Policy (ESP)	Professional Writing, Rhetoric and Technology (PRT)
Film and New Media Studies (FNM)	Psychology (PSY)
French (FRE)	Public Administration (PAN)
Geography (GPY)	Religious Studies (REL)
Geology (GLY)	Russian Studies (RSS)
German Studies (GMS)	Sociology (SOC)
History (HTY)	Spanish (SPA)
Humanities (HUM)	Women's and Gender Studies (WGS)

### College of Behavioral and Community Sciences

American Sign Language (ASL)	Criminology (CCJ)
Applied Behavior Analysis (ABA)	Gerontology (GEY)
Behavioral Healthcare (BHC)	

### College of Business

Accounting (for Business majors only) (ACC)	Finance (for Business majors only) (FIN)
Economics (ECN)	
Entrepreneurship (for Business and Industrial Engineering majors only) (ETN)	Management (for Business Majors only) (MAN)
Entrepreneurship (for Non-Business and Non-Industrial Engineering majors only) (ETB)	Management Information Systems (for Business majors only) (ISM)
	Marketing (for Business Majors only) (MKT)

### College of Education

Educational Foundations and Research (EFR)	Science of Physical Activity (SPED)
Foreign Language Education (FLE)	

### College of Engineering

Biomedical Engineering (EBI)	Information Technology General (ITG)
Computer Science (BCS)	Information Technology Technical (ITE)

### College of Public Health

Community Engaged Homeland Security & Emergency Management (HSE)	Infection Control (IFC)
Environmental Health (EVH)	Maternal and Child Health (PMC)
Global Communicable Disease (GCD)	Nutrition (NUT)
Health Education (HEAL)	Public Health (GPH)

# ACADEMIC POLICIES AND PROCEDURES

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## The Arts

Art (ART)

Dance (DAN)

Theatre (TAR)

## Undergraduate Studies

Aerospace Studies (AEO)

Leadership Studies (LDS)

Military Science (MTY)

Naval Science and Leadership (NSL)

## Undergraduate Certificate

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

Each undergraduate certificate conforms to these University requirements:

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

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

### College of Arts and Sciences

Africana Literatures

Asian Studies

Film Studies

Food Studies

India Studies

Italian Studies

Latin American and Caribbean

Studies

Modern Western European

Studies

Russian Studies

Urban Studies

### College of Behavioral and Community Sciences

Undergraduate Research in Behavioral & Community Sciences

### College of Business

National & Competitive Intelligence

Undergraduate Business

### College of Public Health

Community Engaged Homeland Security &

Emergency Management

Global Communicable Disease

Infection Control

Public Health

### College of The Arts

Visualization and Design

## Academic Learning Compacts

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

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

## Student's Choice of Catalog

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

# ACADEMIC POLICIES AND PROCEDURES

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

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

## Continuous Enrollment

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

If a student does not maintain continuous enrollment, he/she will become inactive and need to reapply to USF.

If the student cannot meet all of the graduation requirements specified in the catalog of his/her choice due to decisions and changes by the University in policy matter, course offering, etc., appropriate substitutions will be determined by the chairperson of the department or program of the student's major.

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

## Continuously Enrolled Degree Seeking Student

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

## Repeat Course Work

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

## Double Undergraduate Major

Students may elect to graduate with two majors. In that event, they must apply independently to each department and college and be assigned an advisor in each discipline. While this independent notification to each department may begin at entry into the University, the student will need to formally declare the double majors to Undergraduate Studies after earning at least 45 credit hours but no more than 95 credit hours (excluding accelerated credits). The student must meet all requirements of each major separately and must be certified for graduation by each college within 10 semesters of the degree starting date. In declaring a second major, the student will be charged the Excess Credit Hour Surcharge required by the state for excess credit hours beyond the official limit (after 110-120 percent of those allowed for the first major, up to thirty credit hours allowed for the second major). Both majors will be awarded in the same term at the completion of the degree.

## Second Undergraduate Major

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



# ACADEMIC POLICIES AND PROCEDURES

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UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

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A student who wishes to apply for a second major, but applies after the end of the semester in which the student graduated, must apply as a degree-seeking student and will be classified as a post-baccalaureate student.

\*Note that those students who complete the requirements for a second major must be aware that they will not receive a second degree.

## Two Degrees (USF Students)

A student at USF may receive two baccalaureate degrees provided he/she meets University graduation requirements for both degrees. In addition to the minimum 120 semester 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 dual degrees may be made to each department or college at entry into the university, the student will need to formally declare the dual degrees to Undergraduate Studies after earning at least 45 credit hours but no more than 95 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 will be charged the Excess Credit Hour Surcharge required by the state for excess credit hours beyond the official limit (after 110-120 percent of those allowed for the first degree, plus thirty credit hours for the second degree). Both degrees will be awarded in the same term at the completion of the degrees.

## Second Baccalaureate Degree (Transfer Students)

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

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

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

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

## Application for Graduation

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

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

The application for the bachelor's degree is available from the student's college advising office. The application for an Associate in Arts degree is available from the Transitional Advising Center in Undergraduate Studies.

The application must first be certified (signed or stamped in the section, "Office Use Only") by the student's college (Transitional Advising Center for the A.A. certificate). The college retains one copy, and the student must submit the remaining copies to the Office of the Registrar prior to the graduation application deadline. Inquiries concerning approval or denial of graduation should be made to the appropriate college or to the Transitional Advising Center in Undergraduate Studies.

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

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

A student applying for a minor must:

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

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

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

## Posthumous Degrees and Degrees in Memoriam

The University of South Florida System institutions may award a posthumous baccalaureate, master's or doctoral and medical degree to a student who was in good academic standing 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 would need to have completed all courses required for the degree. Courses required for the degree, in which students are enrolled at the time of his or her death, must have been completed to the satisfaction of the faculty so that passing grades might be posted. All other degree requirements must have been satisfied as well. To award a thesis or dissertation degree, all courses must be completed as described above and the thesis/dissertation must be sufficiently complete to the satisfaction of the faculty so that certification of completion may be posted to the student's record.

USF System institutions may award baccalaureate, master's, doctoral and medical degrees in memoriam to students who were in good academic standing at the time of his or her death.

### Procedures for Award of Posthumous Degrees or Degrees in Memoriam

Departmental Chairs, 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 respective Dean of the appropriate college. If approved by the Dean, the request, accompanied by supporting documentation, will be forwarded to the Dean of Undergraduate or Graduate Studies (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 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 the ceremony held in fall and spring terms. A posthumous degree may be awarded at a commencement ceremony.

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

## Honors at Graduation

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

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

# ACADEMIC POLICIES AND PROCEDURES

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

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

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

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

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

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

## Commencement

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

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

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

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

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

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

## Certification Requirements

### Associate in Arts

#### USF Regulation 3.019

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

1. To receive the Associate in Arts certificate, a student must complete 60 semester hours of university credit; at least twenty (20) of the last thirty (30) credit hours or a total of thirty-six (36) credit hours must be completed in residence at the home institution of USF; the minimum grade point average must be 2.0 overall GPA and 2.0 GPA based on work attempted at USF and transfer work accepted and evaluated by the USF Office of Admissions. Physical Education and military science credits do not count within the 60 semester hours toward the Associate in Arts Certificate. All students must satisfy the General Education Requirements of USF, [the College-Level Academic Skills requirements and fulfill the writing and computation course requirements of Section 1008.29], F.S. and Florida Board of Governors' Regulation 6.017, prior to receiving the 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 s.1007.262. (Also known as USF's FLENT requirement.)
3. Application Procedure for the Associate in Arts Certificate. The Application for an Associate in Arts Certificate can be obtained from the Transitional Advising Center prior to the application deadline. The deadline to apply for a degree/certificate in each semester is stated in the Academic Calendar in the catalog.
4. The Associate in Arts certificate must be awarded at least one term prior to the term that the student becomes eligible for the baccalaureate degree.

# ACADEMIC POLICIES AND PROCEDURES

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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 from the student's USF home institution. The consideration of whether or not General Education Requirements are met will be made without consideration of the student's choice of major at the time he/she applies.
8. Residence credit will be broadly defined to include USF sponsored student exchange programs and the University of Florida Correspondence Division. Where the grades from these institutions, except those earned through the University of Florida Correspondence Division, are recorded on the permanent record at the USF home institution, and included in the grade point average calculation, they will also be counted in the student's grade point average as work attempted at the USF home institution for the Associate in Arts Certificate.
9. An applicant who has not been enrolled at a USF institution for three semesters may be contacted to ascertain whether or not that applicant meets the residency requirements.
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 USF colleges with undergraduate programs will accept the Associate in Arts from USF. That is, the student will be placed at least, at the junior level and will be considered to have met the University's General Education Requirements. The applicability of the courses taken by the student toward his/her major program will be determined by the college of the student's major. Similarly, any special requirements for a student's professional certification (e.g., Education and Engineering) are not necessarily met by the Associate in Arts certificate, but could be included as part of the General Education Requirements. Thus, students should check with their colleges concerning meeting any special requirements in an efficient manner.
12. The awarding of the Associate in Arts is posted on the permanent record but does not alter the calculation of the grade point average nor does it interrupt the accumulation of the student's record.
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 90 semester hours.

## **Academic Credit Hours USF Policy 10-065 Florida Statute 6A-10.033**

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. 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. 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.

# STUDENT RESOURCES

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## OFFICE OF THE DEAN, UNDERGRADUATE STUDIES

**Location/Phone:** SVC 2003; (813) 974-4051

**Web Address:** <http://www.ugs.usf.edu/ugs.htm>

The Office of Undergraduate Studies (UGS) works in partnership with the academic colleges in the development, review and enhancement of the undergraduate programs to assist faculty to provide outstanding undergraduate education for students. The members of the UGS team work with faculty to establish and administer academic policies, assist with undergraduate curriculum development and review, and support proposals for new and revised programs and courses through the various approval processes. In addition to assisting with the academic programs offered by the colleges, Undergraduate Studies offers a number of academic programs, including the Bachelor of Science in Applied Sciences, the Bachelor of General Studies, the Leadership Studies minor, and the Army, Air Force and Naval Reserve Officer Training Corps programs.

Undergraduate Studies provides a strong set of student success programs designed to make it more likely that students will successfully navigate the complexities of the transition to college and the baccalaureate experience. (It integrates academic endeavors with meaningful experiences within a myriad of student development programs.) Together, they aim to provide coordinated opportunities for students to develop their identities and intellectual competencies for successful careers and lifelong learning. Those services include: the Academic Success Center, First-Year and Transfer Student Orientation, the Transitional Advising Center, the Office of Academic Advocacy, the Academic Foundations Course, First Generation Access and Pre-Collegiate Programs, the Office for Undergraduate Research, the Joint Military Leadership Center, and the Academic Enrichment Center for Student Athletes.

The Dean is committed to providing vision and leadership in undergraduate education and to serving the needs of all undergraduate students, including those with non-traditional and diverse backgrounds.

## Center for Victim Advocacy & Violence Prevention

The Center for Victim Advocacy & Violence Prevention (part of the Division of Student Affairs) provides free and confidential services to students, faculty and staff (both men and women), who have experienced crime, violence, or abuse for incidents occurring on or off campus, recently or in the past. Services are provided by professional Victims Services Practitioners and may include: crisis intervention, emotional support, personal and systems advocacy, court accompaniment, victim helpline, safety planning, and assistance filing for injunctions (protective orders) and crime victim's compensation claims. We also provide prevention and education presentations, programs and events.

Appointments are available in our office or other safe locations on campus. Walk-ins are welcomed, Monday – Friday, 8:00 a.m. to 5:00 p.m. After hours, weekends and holidays, an advocate is available for victims of violent crimes through the Victim Helpline.

### Important Contact Information

Victim Helpline: (813) 974-5757; Office: (813) 974-5756; SVC 0067; [www.sa.usf.edu/advocacy/](http://www.sa.usf.edu/advocacy/)

## Veteran's Services

**Location/Phone:** Grace and Allen Building (ALN) 130; (813) 974-2291

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

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

Veterans with a service-connected disability approved for benefits under Chapter 31 may contact the Office of Veterans Services no earlier than two weeks prior to the start of classes for a book and supplies voucher. The VA toll-free number is 1-888-442-4551.

## Students with Disabilities Services

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

# STUDENT RESOURCES

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more information on the accommodations process.

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

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

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

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

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

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

Ms. Deborah McCarthy, Director, 4202 E. Fowler Avenue, SVC 1133, Tampa, FL 33620-6500  
(813) 974-4309 (Voice), Email Contact: [dmccarthy@usf.edu](mailto:dmccarthy@usf.edu), Web Contact: [www.sds.usf.edu](http://www.sds.usf.edu)

## **USF Testing Services**

**Location/Phone:** Northwest Education Complex (NEC) 116 / (813) 974-2742

**Office Hours:** 7:30 a.m. – 5 pm. Monday through Friday and 7:30 a.m.-1 p.m. most Saturdays

**Web address:** <http://www.usf.edu/testing-services/>

USF Testing Services provides high quality proctoring services for the following exams:

1. Entrance and Placement: Tests required for admission to colleges, graduate and professional schools and/or for placement into a course(s). Examples are the ACT, SAT, CPT, GRE, LSAT, EDT, MAT, PRAXIS and TOEFL.
2. Credit-By-Examination: The College Level Examination Program (CLEP) and DANTEs Subject Standardized Tests-DSST.
3. Professional certification/licensure such as CHES/MCHES, FTCE, IT, MPRE, PRAXIS, Six Sigma, Castle, Kryterion and Prov.
4. Distance Learning Course Proctoring (DLCP): As a member of the Consortium of College Testing Centers (CCTC), USF – Testing Services provides proctoring services for students taking distance learning courses from other colleges or institutions. We proctor both paper and computer based exams.
5. USF Online Course Exam Proctoring (OCEP): USF Testing Services proctors course exams for USF students enrolled in specified/eligible online courses.
6. Pre-employment: Performance/skill assessment exams used for employment screening by PAN (Performance Assessment Network) clients.

## **College Level Examination Program (CLEP)**

USF allows students to receive up to 45 semester hours of credit towards the baccalaureate degree upon successful completion of Advanced Placement (AP), Advanced International Certificate of Education Program (AICE), International Baccalaureate (IB), General and Subject College Level Examination Program (CLEP), DSST (formerly DANTEs), Caribbean Advanced Proficiency Exams (CAPE), Global Certificate of Education (GCE), Global Assessment Certificate (GAC), German Abitur (ABITUR) and Excelsior (EXCEL) College examinations. Performance levels necessary to achieve credit have been established at a common level for all universities and community colleges in the State system. For information on credit-by-exam equivalents, please visit the following URL:

<http://www.ugs.usf.edu/student/crbyexam/exams.cfm>. Credit earned through one examination program may not be duplicated by another examination or course.

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

Certain General and Subject CLEP Examinations noted in the table found at <http://www.uc.usf.edu/testing/> may apply to the General Education Liberal Arts Requirements. Some programs do not award credit toward the degree for certain CLEP examinations, and certain graduate or professional schools such as law, medicine and engineering may not grant equal recognition to students with extensive examination credits.

An academic advisor should be consulted to ascertain the applicability of a specific CLEP examination toward a student's degree requirements and the advisability of taking the examinations in a student's specific situation.

All CLEP Subject Examinations are administered at USF Testing Services every day; schedules are available at the

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USF Testing Services website (<http://www.uc.usf.edu/testing>). Prior registration is required before scheduling an appointment for information regarding CLEP examinations, please go to the USF Testing Services website <http://www.uc.usf.edu/testing/>.

## Office for Undergraduate Research

**Location/Phone:** LIB 210; (813) 974-6842

**Web Address:** <http://www.lib.usf.edu/undergraduate-research/>

**Contact Email:** [ur@ur.usf.edu](mailto:ur@ur.usf.edu)

USF is a "Global Research University Dedicated to Student Success". The Office for Undergraduate Research (OUR) is uniquely positioned to support this mission and prepare students to have a competitive advantage for job and graduate/professional school admissions. The OUR promotes mentored research across all disciplines by partnering with faculty and staff in all academic programs, administrative units and within the community. The office assists students, faculty, staff, administrators and community leaders in establishing research experiences that are designed to enhance a student's academic progression and foster deeper immersion in the field. Since 2012, the OUR has facilitated the training and engagement for thousands of undergraduates in research activities across all disciplines. Each year the OUR provides:

- Comprehensive "Getting Started in Research" workshops to inspire action and engagement
- Personalized assistance to help students market themselves and "Engage in the Conversation of Research" with potential mentors
- Innovative initiatives to increase capacity for all students to obtain an authentic research experience
- Professional Development workshops to support presentation, publication and job preparation.
- Several mechanisms to obtain funding for strategic research priorities
- The Undergraduate Research and Arts Colloquium to provide all students an outlet to credential their research and showcase their activities to the USF community.

The Office for Undergraduate Research hosts the annual Undergraduate Research and Art Colloquium every April. This event provides an opportunity for undergraduate students across all disciplines to present their current research and interact with faculty, community leaders and peers. Students who participate in undergraduate research and utilize the services of the OUR will develop critical thinking skills, show better academic performance, gain invaluable experience, learn to bring research to their conversation and develop mentoring relationships that last for a lifetime.

## USF/FLORIDA COLLEGE SYSTEM - Cross Enrollment/Transient Student

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

Students interested in taking courses at a private or out-of-state institution must complete the Transient Form located on the Registrar's website at [http://www.registrar.usf.edu/forms/TransientStudentForm2009-02-11\\_15\\_02\\_38.pdf](http://www.registrar.usf.edu/forms/TransientStudentForm2009-02-11_15_02_38.pdf) following the instructions on the form.

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

Visit <http://www.ugs.usf.edu/student/transient.html> for further information.

## State University System Correspondence Courses - Flexible Learning

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

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

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a training period are transferred and will be used in computing the USF GPA.

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

## Independent Study

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

## First Year Academic Programs

**Location/Phone:** SVC 2043; (813) 974-2645

**Web Address:** <http://ugs.usf.edu/academic-foundations/>

To support incoming students in their pursuit of academic and personal success, First Year Academic Programs offers two courses: University Experience and Academic Foundations Seminar. The elective credit earned from these courses can be applied to any undergraduate degree program.

SLS 1101 University Experience and SLS 2901 Academic Foundations are designed specifically for first-year students to acclimate them to USF. The courses provide the necessary support and assistance needed during a student's transition to university life. Student success is of utmost importance and USF created this curriculum specifically to address the many unknowns related to new responsibilities, expectations and academic challenges. USF wants to make sure that you have the tools you need to succeed at a high impact, research institution. Data continues to show us that students at USF who take these courses earn higher grades and graduate faster.

The goals of SLS 1101 and SLS 2901 are to help students build community, learn about campus resources, develop effective academic skills, and explore personal character and values. Course topics include: goal setting, time management, career development, occupational exploration, learning and problem solving strategies, financial literacy, personal wellness, university resources, research opportunities and involvement in the campus community. Each class consists of approximately 25 students.

## U-First Program

**Location/Phone:** SVC 2043; (813) 974-4227

**Web Address:** <http://www.ugs.usf.edu/fsi/fsi.htm>

U-First is a mentoring and academic success program for first-time in college (FTIC) students dedicated to helping students make the most of their college experience. New students are provided with opportunities for individualized advising/coaching throughout their first year at USF. Students will benefit from one-on-one personalized coaching, acquiring an understanding of personal strengths and learning styles, and individual support as they adapt to the dynamics of the college environment at a high-impact research university. U-First professional staff are committed to student development and dedicated to providing transitional services to guide and coach students to success throughout their first year of college. Staff will focus on assisting students in achieving their academic and personal goals. This program provides additional support for first-year students to enhance student effectiveness.

## College Reach-Out Program (CROP)

**Location/Phone:** SVC 2011; (813) 974-3713

**Web Address:** <http://www.ugs.usf.edu/crop/crop.htm>

The College Reach-Out Program (CROP) is a statewide program designed to increase the number of students who successfully complete a postsecondary institution. The program's primary objective is to strengthen the educational motivation and preparation of low-income and educationally disadvantaged students in grades 8 through 11, representing various cultural backgrounds, who otherwise would be unlikely to seek admission to a community college, state university, or independent post-secondary institution without special support and recruitment efforts.

The goals of CROP are to motivate students to pursue a postsecondary institution, develop students' basic learning skills, strengthen students' and parents' understanding of the benefits of postsecondary education, and foster academic, personal, and career development through supplemental instruction.

## Upward Bound Program

**Location/Phone:** SVC 2011; (813) 974-9138; Fax: (813) 974-2022

**Web Address:** <http://www.ugs.usf.edu/upbound/upbound.htm>

The Upward Bound Program (UBP) at the University of South Florida provides fundamental support to participants



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in their preparation for college placement. The program provides opportunities for participants to succeed in their pre-college performance and ultimately in their higher education pursuits. UBP serves high school students (grades 9 through 12) from low-income and first-generation college households.

The goal of UBP is to increase the rates at which high school students enroll in and graduate from institutions of post-secondary education. The purpose of UBP is to provide assistances in developing goals, improving academic skills, and providing the motivation necessary to achieve success in a college or post-secondary program. The program serves 165 students from 5 target schools in the Hillsborough County School District that have been determined to have a high need for academic support.

## Student Support Services

**Location/Phone:** SVC 2011; (813) 974-4301

**Web Address:** <http://www.ugs.usf.edu/sss/sss.htm>

Student Support Services (SSS) is a federally funded retention program designed to help students make a smooth transition from high school to the University of South Florida. The program provides academic and personal support for students during their first two years of enrollment. A student is eligible to participate in Student Support Services if the student meets all of the following requirements:

- A. Is a citizen or national of the United States or meets the residency requirements for Federal student financial assistance;
- B. Is enrolled at the grantee institution or accepted for enrollment in the next academic term at that institution;
- C. Has a need for academic support (SAT below 520 on a section or ACT below 23 or high school grade point average below 3.40);
- D. Is 1) a low income individual; 2) a first generation college student (the student's parents did not earn a four year degree); or 3) an individual with disabilities.

Student Support Services provides a six-week summer program to ease the transition from high school to college, enhance self-confidence, establish a strong foundation during the summer semester, and expose students to university resources and facilities. Students receive a comprehensive summer orientation, individualized advising, college survival skills and course credit toward graduation. Other services provided include ongoing individual counseling, midterm assessment, pre-registration, success workshops, financial assistance, tutorial assistance, laptop loan program, computer lab, career programs, and scholarship opportunities. Research reveals that USF's Student Support Services Program has been recognized nationally for its positive impact on student retention and graduation rates. In fact, 80-90% of program participants are in good academic standing at the end of each semester.

## Community Experiential Learning Program

**Location/Phone:** School of Public Affairs; SOC 007; (813) 974-7276

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

## Academic Enrichment Center for Student Athletes

The Academic Enrichment Program at the University of South Florida is a full service program designed with the goal of enhancing the total development of the USF student-athlete. The program is focused on the unique needs and demands of student-athletes at USF and fosters the cultivation of skills that allow for the development of potential in the classroom, on the field and for the future.

The Academic Enrichment Program provides a variety of support mechanisms for all student-athletes by way of specific events and activities designed to promote academic success, athletic success, community service, career development and personal development.

Because we are committed to academic success and to providing the appropriate level of support for all our students-athletes, the academic component of our Enrichment Program is considered most vital. Focus is placed on identifying and meeting the needs and challenges faced by our student-athletes through providing assistance programs, workshops, tutoring and mentoring made available throughout the academic year. Emphasis is placed on encouraging student-athletes to take responsibility for their academic careers and for being productive and successful members of the USF academic community.

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## Career Services

**Location/Phone:** SVC 2088; (813) 974-2171

**Web Address:** <http://www.usf.edu/career-services/>

Career Services provides USF students with comprehensive career planning and job search services. A staff of experienced professionals is available to help students choose a career; gain career-related work experience and plan their job search. Career Services also provides information on employment opportunities and creates venues where students can network and interview with local, state, national and international employers.

Career Services' numerous services are clustered into the areas of career planning, career-related work experience, job search preparation, and making contact with employers.

### Career Planning

- Sessions with a career counselor are available to help students make an informed decision about a potential career and major.
- Career Assessment Surveys are available to help students identify their interests, skills, work values and personality profile.
- Career Decision-making Seminars, offered online, teach students about the career development process and how to choose a career and academic major.
- Career Reference Library contains information on career fields, including job descriptions, working conditions, educational requirements, salary information and projected employment outlook.

### Career-Related Work Experience

- Part-time Jobs, off campus, are posted on the [Career Services' website](#) via Employ-A-Bull
- Cooperative Education ("Co-op") a structured, academic program of paid, practical work experience related to a student's major is administered by the Career Center. Eligibility and program details are located on the [Career Services' website](#).
- Internships are advertised on the [Career Services' website](#). Internships for academic credit are coordinated through the student's sponsoring academic department.

### Job Search Preparation

- Sessions with a career counselor are available for assistance with resume/cover letter preparation; interview techniques; and various other job search strategies.
- Job Search Seminars are available on topics such as resume writing, interview techniques and other job search strategies.
- Job Search Reference Library contains resources on resume writing, interviewing and job search strategies employer directories and salary information.
- Job Search Computer Lab, located in the Career Services' reference library, is equipped with computers with Internet access for conducting an on-line job search, scheduling on-campus interviews and researching employers.
- Practice interviews are available to help students polish and perfect their interview skills

### Making Contact with Employers

- On-Campus Interviews for Internships and full-time positions are conducted in the Career Center by recruiters from numerous types of organizations. All majors are eligible to participate.
- Resume Referral is available to students with a resume uploaded in the Career Center's online resume database.
- Students can electronically refer their resume to apply for both on-campus interviews, and employment opportunities advertised in the Career Services' job listing database.
- Employer Information Sessions allows students a chance to learn about employment opportunities, hiring criteria and the organization's workplace directly from the employer.
- Career Networking Fairs and Part-time Job Fairs, held each semester, bring students and employers together to network and discuss employment opportunities.
- Job Listings are posted daily on Employ-A-Bull, the Career Services' on online recruitment system, and include part-time jobs, internships, Cooperative Education and full-time professional positions.
- A Credential Service is available through a partnership between Career Services and Interfolio, Inc., an on-line service available to students applying to graduate or professional schools, or applying for jobs requiring a credential file, dossier or portfolio.

### Alumni Services

Career Services' *Alumni Career Services* assists USF alumni in career planning, career management and job search strategies critical for navigating today's competitive job market. *Alumni Career Services* are exclusively for USF graduates who have completed a minimum of a bachelor's degree.

## Undergraduate Studies Office of Academic Advising Initiatives

**Location/Phone:** SVC 2002; (813) 974-4051

**Web Address:** <http://www.ugs.usf.edu/aa/aa.htm>

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The Office of Academic Advising Initiatives in Undergraduate Studies is dedicated to enhancing student academic success by supporting advisors, developing systems, and improving academic policy and processes with the goal of increasing student persistence, progression, graduation and the overall student experience. We collaborate with institutional partners from the state and community colleges and with our institutional departments to improve persistence and progression to graduation.

The Senior Director of Tracking and Academic Advising along with our Academic Support Services Administrator work to enhance academic advising systems and support the professional development of all academic advisors. The Assistant Director of State and Community College Relations works with our regional partners and the advising community to develop improvements for student in the process of transitioning to USF. The Office of Academic Advocacy (OAA) consists of Academic Success Advocates and the Freshman Retention Advocate. They assist in identifying policy, process, and student barriers to persistence, progression, or graduation. Major advisors and University department staff may refer a student to OAA when it is perceived the student is experiencing an academic barrier needing additional support or consultation.

Referrals may be sent to [academicadvocacy@usf.edu](mailto:academicadvocacy@usf.edu).

## Transitional Advising Center (TRAC)

**Location/Phone:** SVC 2043; (813) 974-2645

**Web Address:** <http://www.ugs.usf.edu/trac/trac.htm>

The Transitional Advising Center is dedicated to promoting the successful achievement of transitional students' academic goals through comprehensive advising services.

TRAC specializes in focusing on undergraduate students who are selecting the Exploratory Curriculum Major (ECM), pursuing the Bachelor of Science in Applied Science (BSAS) degree, or are preparing to enter the USF/SM Hospitality Management major, hosted by USF/Tampa. The staff also certifies all students seeking Associate of Arts certificates.

TRAC is also available to students who need assistance with re-selecting a major. Sometimes a student's original major of choice is no longer an option because of limited access programs, minimum GPA standards, or a realization that one is no longer on the right path. Whether this decision is voluntary or determined by academic requirements, TRAC advisors can assist with the selection of a new major.

Appointments can be scheduled online at: <http://usfweb3.usf.edu/appointments/StudentSignon.asp>.

## Academic Success Center

**Location/Phone:** LIB 206; (813) 974-2713

**Web Address:** <http://www.lib.usf.edu/tutoring/>

The Academic Success Center is part of the Library Learning Commons and is located on the second floor, LIB 206. Offering a variety of academic support services, the mission of the department is to support student learning. Tutoring is free and available in many different subject areas including math, science, and languages. Students can select from several drop-in centers or make an appointment. The center also offers individual Academic Coaching appointments designed to help students customize their approach to learning. Several credited academic enhancement courses are offered each semester as well as including Strategic Learning (REA 2604), Improving College Writing (ENC 1130) and Advanced Reading (REA 1205).

## The Writing Studio

**Location/Phone:** LIB 233; (813) 974-8293

**Web Address:** <http://www.usf.edu/writing>

The Writing Studio is a place for writers of all skill levels to take chances, ask questions, and develop their abilities. The Writing Studio is an academic support partner in the Library Learning Commons and is located on the second floor, at LIB 233. Writing support is free to all registered USF students. In order to support writing across the curriculum, writing consultants are graduate students from a wide range of departments including English, Communications, World Languages, and several STEM fields. Help is available for all levels of students from first-year undergraduate to doctoral level, including staff and faculty. Appointments are needed and can be scheduled by phone, in person, or online.

## SMART Lab

**Location/Phone:** LIB 232; (813) 974-9944

**Web Address:** <http://www.usf.edu/smartlab>

The SMART (Science, Math, and Research Technology) Lab is equipped with 324 computer workstations to provide learning support and testing services to students in introductory mathematics courses including College Algebra, Pre-Calculus, Finite Math and Business Calculus. In addition, students in Calculus, Statistics and Physics courses can receive tutoring assistance in various drop-in areas around the lab. No appointment is needed for tutoring in any SMART Lab areas.

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## Aerospace Studies - Air Force ROTC

**Location/Phone:** CWY 407, (813) 974-3367

**Web Address:** <http://web.usf.edu/airforce/>

**Contact Email:** [afrotc@usf.edu](mailto:afrotc@usf.edu)

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](http://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](mailto:afrotc@usf.edu), phone 813-974-3367, or visit us in person on the 4<sup>th</sup> floor of the CWY Building, just north of the USF Campus Recreation Center on Maple Drive.

### Air Force ROTC Programs

To ensure maximum flexibility for our cadets, we offer a variety of tailored programs to match their academic progress toward a bachelor’s degree. The table below depicts the flow of AFROTC coursework based on the number of years of academic coursework remaining before receiving a bachelor’s degree. Note that there is no military commitment until after Field Training (if you do not have a scholarship) or until your second year in the program (if you do have a scholarship). Also, physical training twice weekly is required during the fall and spring semesters as long as you’re a cadet in the program.

AFROTC Programs	3-Year AFROTC Program	3 ½ -Year AFROTC Program	4 or 5-Year AFROTC Program
<b>Time remaining until you’ll receive your bachelor’s degree</b>	2 ½ or 3 years (Fall Start only)	3 ½ years (Spring Start only)	4 to 5 years (Fall Start only)
<b>Year 1 Classes - Fall</b>	LLAB, AFR 1101, AFR 2130	N/A	LLAB, AFR 1101
<b>Year 1 Classes - Spring</b>	LLAB, AFR 1120, AFR 2140	LLAB, AFR 1120	LLAB, AFR 1120
<b>Year 1 – Summer</b>	<b>FIELD TRAINING</b>	<b>NONE</b>	<b>NONE</b>
<b>Year 2 Classes – Fall</b>	LLAB, AFR 3220	LLAB, AFR 1101, AFR 2130	LLAB, AFR 2130
<b>Year 2 Classes – Spring</b>	LLAB, AFR 3231	LLAB, AFR 2140	LLAB, AFR 2140
<b>Year 2 – Summer</b>	<b>NONE</b>	<b>FIELD TRAINING</b>	<b>FIELD TRAINING</b>
<b>Year 3 Classes – Fall</b>	LLAB, AFR 4201	LLAB, AFR 3220	LLAB, AFR 3220
<b>Year 3 Classes – Spring</b>	LLAB, AFR 4211	LLAB, AFR 3231	LLAB, AFR 3231
<b>Year 4 Classes – Fall</b>	N/A	LLAB, AFR 4201	LLAB, AFR 4201
<b>Year 4 Classes – Spring</b>	N/A	LLAB, AFR 4211	LLAB, AFR 4211
<b>Year 5 Classes - Fall</b>	N/A	N/A	<i>LLAB only for 5 year program</i>
<b>Year 5 Classes - Spring</b>	N/A	N/A	<i>LLAB only for 5 year program</i>

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## General Military Course (GMC)

The GMC consists of four one-hour courses offered in the spring and fall only. Each semester you are in GMC must include a two-hour LLAB and physical fitness sessions twice weekly. As seen in the AFROTC Programs table, 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)** -- Foundations of the United States Air Force Part 1 (1 credit)
- **AFR 1120 (Spring)** -- Foundations of the United States Air Force Part 2 (1 credit)
- **AFR 2130 (Fall)** -- The Evolution of USAF Air and Space Power, Part I (1 credit)
- **AFR 2140 (Spring)** -- The Evolution of USAF Air and Space Power, Part II (1 credit)

## Field Training (FT)

Prior to entering the Professional Officer Corps, cadets must successfully complete a four-week Field Training course 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, and 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)** -- Air Force Management and Leadership I (3 credits)
- **AFR 3231 (Spring)** -- Air Force Management and Leadership II (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 II (3 credits)

## 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 materials free of charge that you'll need in the program to include a variety of uniforms and all AFR course textbooks.

## Air Force Careers

In addition to pilot careers, there are a multitude of USAF officer careers for our cadets to choose from. 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 for orientation flights in actual USAF aircraft. With this background, cadets can make an informed decision on the careers 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.

## Military Science - Army Reserve Officers Training Corps (ROTC)

**Location/Phone:** CWY 405; (813) 974-4065

**Web Address:** <http://armyrotc.com/edu/univsouthfl>

**Contact Email:** [arotcgbr@usf.edu](mailto:arotcgbr@usf.edu)

The Department of Military Science for Army Reserve Officers Training Corps (AROTC) was established to select and prepare students to serve as officers in the Regular and Reserve components of the United States Army. The

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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.

## Naval Science - Naval ROTC

**Location/Phone:** CWY 406; (813) 974-4789

**Web Address:** <http://web.usf.edu/nrotc>

**Contact Email:** [naval@nrotc.usf.edu](mailto:naval@nrotc.usf.edu)

The Naval Science Program at the University of South Florida is administered by the Naval Reserve Officers Training Corps (NROTC) Unit. This program affords selected men and women the opportunity to receive instruction in Navy specified courses which, in conjunction with the baccalaureate degree, will qualify them for a commission in the United States Navy or Marine Corps. Students enrolled in the university who are physically and mentally qualified are eligible to apply for the NROTC program. As naval officers, USF NROTC graduates become eligible for varied careers, serving in aviation squadrons, on surface ships, on submarines in the nuclear power program, at naval installations all over the world, or in the numerous sub-specialties as an officer of the Marines Corps. With the consent of the Professor of Naval Science, any student, although not enrolled in the NROTC program, is eligible for enrollment in naval science courses. The USF NROTC Unit offers participation through three programs: (1) the Navy-Marine Corps Scholarship Program, (2) the Navy-Marine Corps College Program, and (3) the 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

# STUDENT RESOURCES

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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 mid-shipmen for appointment to commissioned grade by providing basic military instruction and physical training. An evaluation of midshipmen is made to ensure that they possess the leadership, academic, and physical qualifications required for appointment to commissioned grade in the Marine Corps Reserve. Female midshipmen participate in all NROTC curriculum requirements and activities, including cruises aboard selected ships. A woman who has qualified for Marine Option NROTC Summer Training at Quantico attends the Woman Officer Candidate Course in Quantico, Virginia.

## **Specified University Courses**

In addition to satisfying requirements for a Baccalaureate degree, the student must satisfactorily complete the following four-year curriculum guide, including required naval science courses and specified university courses.

### **Freshman Year:**

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- NSC 1110 Introduction to Naval Science (See Note 1)
- NSC 1101L Naval Science Laboratory
- NSC 1140 Sea Power and Maritime Affairs (See Note 1)

## **Sophomore Year:**

- (MAC 2311 Calculus I and MAC 2312 Calculus II) **or** (MAC 2281 Engineering Calculus I and MAC 2282 Engineering Calculus II) (See Note 4)
- NSC 1101L Naval Science Laboratory
- NSC 2212C Navigation/Naval Operations I: Navigation (See Note 2)
- NSC 2220 Evolution of Warfare (See Note 3)
- NSC 2231 Principles of Naval Management I (See Note 1)

## **Junior Year:**

- NSC 1101L Naval Science Laboratory
- NSC 2121 Naval Ships System I (See Note 2)
- NSC 3123 Naval Ships Systems II (See Note 2)
- PHY 2048 and PHY 2049 Physics I and II (See Note 4)

## **Senior Year:**

- NSC 1101L Naval Science Laboratory
- NSC 3214C Navigation/Naval Operations II: Seamanship & Ship Operations (See Note 2)
- NSC 4224 Amphibious Warfare (See Note 3)
- NSC 4232 Principles of Naval Management II (Leadership and Ethics)

## **NOTES:**

1. Undergraduate Naval Sciences required to be completed for all students before Fall semester junior year.
2. Upper-division Naval Science courses required of Navy Options and not required of Marine Options.
3. Required of Marine Option midshipmen only.
4. One year of each calculus and calculus-based physics is required for every Navy option scholarship student. It is recommended, but optional for College Program and Marine Options.

## **Furnished Items**

All uniforms, textbooks, and equipment needed by the student for naval science courses are furnished by the Navy.

## **Use of Navy Science Courses as University Electives**

Academic departments within the university may, according to their own policies, accept naval science courses as electives to fulfill requirements in their academic program.



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**Tampa Campus Location/Phone:** ALN 241; (813) 974-3087

**Web Address:** <http://honors.usf.edu>

First-time-in-college (FTIC) students take 4 -7 Honors courses that examine the nature of human knowledge, ethics, interdisciplinary approaches to the natural and social sciences, arts and humanities, multiculturalism, and major works and issues. Then, a Senior Honors Thesis or Project is the culmination of the Honors experience. (Course descriptions-IDH prefix- appear later in the catalog.) Students also complete six semester hours of English, six semester hours of Mathematics, and the foreign language exit requirement (please refer to the foreign language requirement for students pursuing the Bachelor of Arts degree for further information). Honors students may satisfy the English, Math, and Foreign Language requirements through Advanced Placement, IB, dual enrollment, and CLEP (See "Academic Programs and Services" section). First-time-in-college Honors students satisfy USF Foundations of Knowledge and Learning (FKL) requirements by completing the core Honors courses, the Senior Honors Thesis or Project and the FKL, English, Math, and Foreign Language requirements. Enrolling in the Honors College does not generally increase the number of credits needed to graduate.

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

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

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

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

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

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

## Honors Research Major

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

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

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

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

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

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

The student will have a separate research committee for each cognate, consisting of a mentor and two faculty "readers." The HC Dean approves the mentor, and the mentor approves the "readers". The committee and student design the cognate courses of study and submit the written plan for HC approval.

The committee shall ensure that the student has an appropriate background in scientific method/experimental

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design/research tools. Research project format shall be discipline appropriate and clearly represent the number of credits earned.

Formal prospectus/proposal and final presentations will be required of each student in both cognates.

No grade below B will be accepted towards the HCRM.

## Accelerated Bachelor's/J.D. Program

Beginning Fall 2013, the University of South Florida Honors College has entered into an agreement with Stetson University College of Law (SUCL) to offer an accelerated Bachelor's/J.D. program. This 3 +3 program will allow first-year students to use their first year law curriculum to count as the 4th year elective requirements for the Bachelor's degree, graduate from USF and be a second year law student. Students must be admitted to the Honors College as first year students and meet the following eligibility criteria.

- Provide notice to the USF Honors College of intent to apply for the 3+3 Program on or before September 1 of the year prior to the intended matriculation date at the College of Law (generally at the beginning of the student's junior year);
- Complete at least 89 credits in the undergraduate curriculum before matriculating at the College of Law; of these credits, at least 45 must be completed at USF;
- Complete all general-education requirements and all other requirements for the student's major before matriculating at the College of Law;
- Earn a minimum cumulative GPA of 3.5 in courses taken at USF as of the date of application to the College of Law;
- On or before the application date, earn a minimum score on the LSAT at the 75th percentile of the most recent class to matriculate at the College of Law;
- Receive written recommendation of the Dean of the USF Honors College no later than December 1st in the academic year before the student intends to begin J.D. study;
- Apply to the College of Law for admission into the full-time J.D. program between October 1st and January 15th in the academic year before the student intends to begin J.D. study;
- Meet the College of Law's character and fitness requirements and comply with the College of Law's general admissions policies; and
- Participate in the College of Law's Academic Success Workshop during the student's first year of law school.

### Benefits for Students Enrolled in 3+3 Program

Students admitted into the College of Law under the 3+3 Program will automatically receive a scholarship of at least one-half tuition, renewable for the second and third years of law school subject to the College of Law's academic scholarship requirements. In addition, students admitted into the College of Law under the 3+3 Program will be assigned a student, alumni, and/or faculty mentor to assist during the period from admission until matriculation at the College of Law. Students will receive a book stipend for their first year books (up to \$1,500), redeemable at the College of Law bookstore.

For further information contact [Dr. Sandra Fogel](#) or call the Honors College Office 813-974-3087.

## George Jenkins Scholars Program

The Jenkins Scholars Program is one of the highest funded academic scholarships at USF. The George Jenkins Scholarships are funded through the Publix Super Markets Charities, which was founded by the late George Jenkins, the initial founder and owner of Publix Supermarkets.

A select group of Jenkins Scholars are elected annually from a statewide competition of high school seniors who are admitted to USF as freshmen. The Jenkins recipients are academically talented students with financial need.

The Jenkins Scholars Program is designed to provide academic and personal support services for all scholars, freshman through senior year. The scholars participate in various scholarly and cultural activities, such as academic monitoring, mentoring activities, academic/personal development seminars, career advising and planned activities with the Jenkins family.

## Holcombe Scholars Program

The Holcombe Scholars Program is one of the highest funded academic scholarships at USF. These scholarships are funded by Brad and Terry Holcombe, two USF graduates.

A select group of Scholars are elected annually from a statewide competition of high school seniors who are admitted to USF as freshmen. The Holcombe recipients are academically talented students with financial need.

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The program is designed to provide academic and personal support services for all scholars, freshman through senior year. The scholars participate in various scholarly and cultural activities, such as academic monitoring, mentoring activities, academic/personal development seminars, career advising and planned activities with the Holcombe family.

## **Office of National Scholarships & Resources for Educational Distinction**

**Location/Phone:** ALN 244; (813) 974-3087

**Web Address:** <http://ons.usf.edu>

The Office of National Scholarships matches high achieving students, both undergraduate and graduate, with prestigious nationally competitive scholarships, fellowships and awards. Some awards support graduate or professional study in the U.S., while others involve education abroad or independent research.

These opportunities are open to all qualified USF students who wish to apply. The Office identifies recruits and mentors students who apply for merit scholarships such as Rhodes, Marshall, Mitchell, Fulbright, Goldwater and Truman.

University of South Florida students have won nationally prestigious awards including Truman, Goldwater, and Udall.

The Undergraduate Scholar Award is a University of South Florida designation. To earn the Undergraduate Scholar Award, a student must do three things: complete a mentored research project, a leadership/service project and have a significant global experience. An integrative essay describing the experiences is the final part of the process. This program adds depth to students' academic experience by fostering applied learning to real-life issues and problems through faculty-supervised research. This innovative program creates opportunities for students to engage in meaningful service and promotes 'connecting' with the global community. USF's Undergraduate Scholar Award recognizes students who fulfill the University's goals of community engagement, undergraduate research, and global citizenship on a student's transcript.

## **Honors Faculty**

*Dean:* C. Adams; *Assistant Dean:* S. Bingham; *Assistant Dean:* L. Lucas.

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The College of Arts and Sciences is a community of scholars dedicated to the idea that educated people are the basis of a just and free society. The essences of education are a capacity for and an appreciation of social change within a context of prior human achievement. The faculty of the Arts and Sciences strive to instill in their students a history of human ideas, a sense of love for learning, and an understanding of the means that scholars have used in their search for beauty and order in the natural world.

The education provided by the disciplines of the Arts and Sciences is the foundation upon which the lives and professions of our students are built, and the basis from which personal growth occurs. The College of Arts and Sciences takes as its goal a melding of the natural, humanistic and social philosophies into a comprehensive whole that encourages the development of new ideas and new approaches to the understanding of our universe.

Great universities provide direction for their communities and service for their needs. The faculty of the Arts and Sciences as well as the staff, who support and encourage their work, explore their scholarly interests within the home and community created by the academic society. It is the responsibility of scholars to share their discoveries for the betterment of society. Thus, the Arts and Sciences embrace disciplines that strive to make immediate use of knowledge in the service of social goals as well as disciplines whose discoveries contribute to the fund of basic information that is the stepping stone of applied knowledge.

## General Information

The College of Arts and Sciences Dean's Office is located in Cooper Hall (CPR), Room 107. For additional information about the College, visit our web site at <http://www.cas.usf.edu>. Information regarding advising, admission to the College, graduation requirements, special programs, and departments follows.

## Community Initiative

Universities have become major actors in today's knowledge-based society. As such they can no longer remain secluded ivory towers, removed from the social problems that surround them. Recognizing this, the College of Arts and Sciences launched the Community Initiative, a new focus that identifies the community outside the university as an integral part of its educational mission to acquire, disseminate, and apply knowledge. The Community Initiative develops concrete and integrated efforts to link the teaching, research, and service components of our College with the interests and needs of residential, community-based organizations and businesses in the local area. Two major components of the Community Initiative are the Urban Studies Certificate Program and the Community Experiential Learning (CEL) Program. The Urban Studies Certificate gives students the opportunity to supplement their education and training with a focus on the urban world around them. Through the Community Experiential Learning (CEL) Program, students can explore the relationship between their classroom learning and the broader community as they do community-based independent research or internships.

## Honors Program

The College of Arts and Sciences offers undergraduate honors programs in Anthropology, Classics, Communication, English, Geology, Mathematics, Philosophy, Political Science, Psychology, Religious Studies, and Sociology. Students interested in one of these honors programs should consult the appropriate department for further information.

## COMMUNITY EXPERIENTIAL LEARNING PROGRAM

The Community Experiential Learning (CEL) Program offers students the opportunity to explore the relationship between their classroom learning and the broader community. With faculty guidance, students design their own community experiences and receive between one and four academic credit(s) upon completion. Students may choose to work as an intern with a community organization/agency or to explore a community issue through independent research. The community can be as close as a neighborhood just beyond the campus or on the other side of the world.

Students may participate in CEL anytime during their academic career. Good standing at the university and a 2.0 GPA is required for acceptance into the Program. CEL courses are offered throughout the entire year. Ideally, students should plan their CEL projects during the term prior to their implementation, but they can be added at any time during the term. Information may be obtained from Kim Lersch, School of Public Affairs, at [klersch@usf.edu](mailto:klersch@usf.edu).

## Institute for the Study of Latin America and the Caribbean (ISLAC)

**Location/Phone:** FAO 286; (813) 974-3547

**Web Address:** <http://islac.usf.edu>

**Contact Email:** [plezama@usf.edu](mailto:plezama@usf.edu)

The mission of ISLAC is to promote the study of Latin America and the Caribbean, in collaboration with USF's strategic plan for internationalization. ISLAC is an academic unit devoted to interdisciplinary research and teaching focused on economic, social, political and cultural formations in Latin America and the Caribbean and among the Hispanic/Latino populations in North America. ISLAC has 72 affiliate faculty members who are drawn from social science, humanities, arts, and human services fields, including, but not limited to, history, languages and literature,

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humanities, anthropology, political science, sociology, economics, business, geography, public administration, fine arts, public health, education and behavioral and community sciences.

ISLAC offers a certificate in Latin America and Caribbean Studies open to undergraduate students enrolled in any USF major and a Graduate Certificate in LACS, open to USF graduate students and non-degree seeking students who have already obtained a BA. ISLAC also offers a Masters of Arts (M.A.) in Latin America and Caribbean Studies. All ISLAC academic programs are interdisciplinary, flexible and applied.

The Institute fosters greater knowledge of Latin America and the Caribbean, and Latino issues by providing research support for USF faculty and students, and through partnerships with community organizations and other USF departments to sponsor lectures and cultural events. ISLAC faculty and staff are engaged with USF administration to strengthen community ties and to advance the internationalization of USF programs, research, curricula, faculty and students.

**Following are the undergraduate academic programs offered by the College of Arts & Sciences:**

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

Africana Studies (AFA)  
American Studies (AMS)  
Anthropology (ANT)  
Chemistry (CHM)  
    Biochemistry/Biotechnology (CBY)  
    Health Professions (CHH) (suspended)  
Classics-Latin/Greek (CLS)  
Communication (SPE)  
    Culture and Media (SMD)  
    Health Communication (SHC)  
    Organizational Communication (SOG)  
    Performance Studies (SPS)  
    Public Advocacy (SAD)  
    Relational Communication (SRC)  
Economics (ECO)  
English (ENG)  
    Creative Writing (CRW)  
    Literary Studies (LTS)  
    Professional Writing, Rhetoric & Technology (PRT)  
French (FRE)  
    International Studies and Business (IFB)  
Geography (GPY)  
Geology (GLY)  
German Studies (GMS)  
History (HTY)  
Humanities and Cultural Studies (HCS)  
    American Studies (AMSC)  
    Film and New Media Studies (FMSC)  
    Humanities (HUMC)  
Interdisciplinary Classical Civilizations (ICC)  
Interdisciplinary Social Sciences (ISS)  
    Africana Studies (AFA)  
    American Studies (AMS)  
    Anthropology (ANT)  
    Communication (SPE)  
    Criminology (CCJ)  
    Economics (ECO)  
    Environmental Science and Policy (ESP)  
    Geography (GPY)  
    Gerontology (GEY)  
    History (HTY)  
Humanities (HUM)  
International Studies (INT)  
Interpreter Training (TIS)  
Language, Speech, and Hearing (SAH)  
Latin American, Caribbean, & Latino Studies (LAS)  
Library and Information Sciences (LIS)  
Mass Communications (COM)  
Multidisciplinary Behavioral Sciences (MDS)  
Political Science (POL)  
Psychology (PSY)  
Public Administration (PAD)  
Public Health (PUB)  
Religious Studies (REL)  
Sociology (SOC)  
Women's Studies (WST)  
International Studies (INT)  
Italian (ITA)  
Mass Communications (COM)  
    Advertising (ADV)  
    Broadcast News (NWS)  
    Broadcast-Program and Production (PGM)  
    Journalism-Magazine (MAG)  
    Journalism-News-Editorial (JOU)  
    Public Relations (PUR)  
Mathematics (MTH)  
    Applied/Computational Mathematics (ACM)  
    General Mathematics (GMM)  
    Pure Mathematics (PMM)  
Philosophy (PHI)  
Physics (PHY)  
Political Science (POL)  
Psychology (PSY)  
Religious Studies (REL)  
Russian Studies (RSS)  
Sociology (SOC)  
    Identity and Community (IDC)  
    Inequality and Social Justice (ISJ)  
Spanish (SPA)  
    International Studies and Business (ISB)  
Statistics (STC)  
Women's and Gender Studies (WGS)

## **BACHELOR OF SCIENCE (B.S.)**

Biomedical Sciences (BMS)  
Cell and Molecular Biology (CAM)  
Chemistry (CHS)  
Environmental Biology (ENB)

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Environmental Microbiology (EMB)	Health Management & Health Information Technology (HMT)
Environmental Science and Policy (ESP)	Social and Behavioral Health Sciences (HBS)
Geology (GLS)	Social and Behavioral Health Sciences & Aging Health Studies (HAS)
Health Science (HLS)	Social and Behavioral Health Sciences & Health Information Technology (HST)
Aging Health Studies (HAH)	Social and Behavioral Health Sciences and Health Management (HMG)
Aging Health Studies & Health Information Technology (HIT)	Information Studies (IFS)
Aging Health Studies & Health Management (HAM)	Integrative Animal Biology (IAB)
Biological Health Sciences (HBH)	Interdisciplinary Natural Sciences (INS)
Bio Health Sciences & Aging Health Studies (HBA)	Marine Biology (MRN)
Biological Health Sciences & Health Information Technology (HBI)	Medical Technology (MET)
Biological Health Sciences & Health Mgmt. (HBM)	Microbiology (MIC)
Biological Health Sciences & Social and Behavioral Health Sciences (HSB)	Physics (PHS)
Health Information Technology (HHI)	
Health Management (HHM)	

## Accelerated Degree Programs

B.S. Biomedical Sciences/M.A.T. Science Education	B.S. Environmental Biology/M.A.T. Science Education
B.S. Biology/M.S. Biology (non-thesis)	B.S. Interdisciplinary Natural Sciences /M.A.T. Science Education
B.A. Chemistry/M.A.T. Science Education	B.S. Integrative Animal Biology/M.A.T. Science Education
B.A. Economics/M.A. Economics	B.S. Marine Biology/M.A.T. Science Education
B.A. English with a concentration in Literary Studies/M.A. Literature	B.S. Microbiology/M.S. Microbiology
B.S. Environmental Microbiology/M.A.T. Science Education	B.A. Physics/M.A.T. Science Education
	B.A. Religious Studies/M.A. Religious Studies

## Honors Programs

Anthropology	Mathematics
Classics-Latin/Greek	Philosophy
Communication	Political Science
English	Psychology
French	Religious Studies
Geology	Sociology
Interdisciplinary Classical Civilizations	

## Minors

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

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## Certificates

Africana Literatures  
Asian Studies  
Film Studies  
Food Studies  
India Studies

Italian Studies  
Latin American and Caribbean Studies  
Modern Western European Studies  
Russian Studies  
Urban Studies

Admission to the College of Arts and Sciences is open to students who have been accepted to the University of South Florida and who declare a major in a particular field. **Mass Communications is a limited access degree program** and has additional requirements listed under "Departments and Programs."

Undergraduate students must submit a formal application for admission into the College. This usually occurs during orientation and advising for new students. This application is available online for current students at <http://www.cas.usf.edu/declare>. Students preparing for a science or mathematics career must plan their courses carefully because of the sequential nature of the curricula. Students seeking entrance into a health professional school or the medical technology internship program require specialized counseling, therefore, immediate application for admission into the College is strongly recommended.

Information on admission criteria, departments, majors, programs, advising and other services of the College may be obtained from the Office of Graduate and Undergraduate Studies (BEH 201), College of Arts and Sciences, University of South Florida, Tampa, Florida 33620, or visit our web site at <http://www.cas.usf.edu>.

## Undergraduate Advising Information

The College of Arts and Sciences offers two undergraduate degrees: Bachelor of Arts and Bachelor of Science.

### IT IS EACH STUDENT'S RESPONSIBILITY TO MEET GRADUATION REQUIREMENTS:

Core Curriculum Requirements of 36 hours credit:

EXIT Course Requirements

1. Complete at least 120 accepted semester hours, 124 for Mass Communications, with a minimum USF cumulative GPA and overall GPA of 2.0.
2. Maintain major GPA of 2.0 in USF coursework. Note: In Anthropology, English and Mass Communications students must have a 2.50 major GPA in USF coursework.
3. Complete the Foreign Language Entrance Requirement and students pursuing a B.A. degree must complete the Foreign Language Exit Requirement.
4. Students enrolling in USF must satisfy Articulation Resolution 6A-10.30 (Gordon Rule) concerning computation and communication. Transfer students who enter the University of South Florida with 60 or more semester hours from a regionally accredited institution are considered to have met the communication portion of the Gordon Rule.
5. Complete 36 hours of General Education Core Courses and Foundations of Knowledge and Learning Core Curriculum Requirements.
6. Physical Education coursework is limited to two (2) semester hours.
7. ROTC courses are limited to nine (9) semester hours.
8. When double majoring, a maximum of two (2) departmental courses or eight (8) credit hours may be used to satisfy requirements between majors. Students should check with the college and respective departments when pursuing more than one major/degree. The only exception whereby a student may apply more than eight (8) credit hours of overlapping coursework to their majors/degrees are those students who pursue double majors or two degrees between the College of Education and the College of Arts and Sciences.
  - o The College of Arts and Sciences defines a "major" as those courses taught by the department where the major is housed.
  - o In the case of interdisciplinary programs (Biomedical Sciences, Interdisciplinary Natural Sciences, Health Sciences, International Studies, Environmental Science and Policy, French International Studies & Business Concentration, Spanish International Studies & Business Concentration and Interdisciplinary Social Sciences) overlapping coursework between double majors requires prior approval.
9. Maximum of 20 hours of S/U option. S/U contracts must be negotiated in writing within the first three (3) weeks of the term. None of the 20 credits may be taken in the student's major unless S/U is the only grading option. Coursework fulfilling the Foundations of Knowledge and Learning Core Curriculum Requirements and Gordon Rule requirement may not be taken S/U.
10. The Audit option is available only during the first 5 days of classes.
11. Complete at least 9 semester hours at a Florida public university in the Florida State University System during summer terms if entering USF with fewer than 60 semester hours.
12. "D" grades are not acceptable in the major and supporting sciences for all natural sciences majors (Biomedical

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Sciences; Cell Biology, Microbiology, and Molecular Biology; Health Science; Integrative Biology; Interdisciplinary Natural Sciences; Medical Technology; Chemistry; Geology; Math; and Physics). "D" grades are not acceptable for the major area in Anthropology, Communication, English, Geography, History, Humanities, Mass Communications, Philosophy, Psychology, and Sociology.

13. Complete all major course requirements.
14. Complete a minimum of 48 hours of upper-level courses (numbered 3000 or above).
15. Thirty (30) of the last 60 semester hours must be completed at the USF System Institution (home institution) to fulfill the residency requirement.
16. Biomedical Sciences; Cell Biology, Microbiology, and Molecular Biology; Chemistry; Economics; English; Integrative Biology; Interdisciplinary Natural Sciences; Mass Communications; Mathematics; Physics; Political Science; Religious Studies; and Sociology have established minimum major course hours to be taken in residency at USF. See the department section of the catalog for these credit-hour requirements. In addition, all students who have majors outside the natural sciences must take a minimum of 80 hours outside of the major department.

### 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, Shriners' Hospital for Children, H. Lee Moffitt Cancer Center and Research Institute, University of South Florida Mental Health Institute, and Florida Hospital Tampa are within walking distance of the campus and offer students excellent opportunities for observation, research, and experience.

The College of Arts and Sciences offers programs designed to prepare students for admission to allopathic medicine (M.D.), osteopathic medicine (D.O), chiropractic medicine, dentistry, optometry, podiatry, veterinary medicine, pharmacy, physician assistant, and physical therapy. Most of these professions require four years of pre-professional preparation followed by four years of training in a professional school. A few well-prepared students with exceptional qualifications may be admitted to some professional schools as early as the completion of the junior year of pre-professional work. The pre-professional programs do not meet requirements for a degree; therefore, students must choose a major in addition to fulfilling their pre-professional requirements. Most pre-professional students major in biology, biomedical sciences, or chemistry because of their interests in the health sciences, and there is considerable overlap between the pre-professional curriculum and the degree requirements for those majors, however, there is no specific major required for admission into pre-professional programs. Entrance into all professional schools or programs is competitive, and students should begin establishing a record of excellence with the first semester at USF. Furthermore, it is essential that students pursue courses developing a sense of understanding of cultural and humane values as well as basic social problems. Students should also have some clinical and/or volunteer experience related to their intended field.

Students considering one of the health professions should contact the Health Professions Advisors during the first semester at USF to declare their interest in a health professions program.

For specific information about the following programs, please see our health professions website at: <http://www.cas.usf.edu/healthprofessions/>

- For information regarding the USF's Medical program, please visit: <http://health.usf.edu/medicine/>
- For information regarding USF's Physical Therapy program, visit: <http://health.usf.edu/medicine/dpt/>
- For information regarding the USF's Pharmacy program, visit: <http://health.usf.edu/pharmacy/>

### Requirements for Health Professions Schools

These courses prepare students for admission to professional schools of chiropractic medicine, dentistry, allopathic medicine, osteopathic medicine, podiatric medicine, optometry, veterinary medicine, and pharmacy. All of these professional schools have in common the following course requirements, which should be completed by the end of the junior year, the usual time of application:

- **Biology**
  - BSC 2010, 2010L Biology I: Cellular Processes and Lab
  - BSC 2011, 2011L Biology II: Biodiversity and Lab
- **Chemistry**
  - CHM 2045, 2045L General Chemistry I and Lab
  - CHM 2046, 2046L General Chemistry II and Lab
  - CHM 2210, 2210L Organic Chemistry I and Lab
  - CHM 2211, 2211L Organic Chemistry II and Lab
- **Physics**
  - PHY 2053, 2053L General Physics I and Lab
  - PHY 2054, 2054L General Physics II and Lab



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In addition to these requirements it is generally expected that pre-professional students will complete two semesters of English and mathematics appropriate for their degree. Some schools require calculus and some require one or two courses in biochemistry. CLEP credit usually is not accepted by professional schools, and some schools do not accept AP or IB and have specific restrictions for accepting DE credits. Students should check with the school of their choice regarding acceptable acceleration credit.

### Requirements for B.S. in Biomedical Sciences for Early Admission Students

Early admission to professional school is exceptional with today's competitive applicant pool; however, a few students may be admitted prior to completion of the bachelor's degree through special programs.

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

Students planning on early admission should begin studies at a 4-year institution as professional schools require at least 1 year of studies at a university prior to application. Depending upon the professional school, additional science courses may be required or strongly recommended as indicated in the preceding sections. Exposure to a health profession is also strongly recommended.

Students who are admitted to an accredited U.S. medical or dental school after completing their junior year at the University of South Florida may be awarded the B.S. degree in Biomedical Sciences from the College of Arts and Sciences subject to the following conditions:

1. Transfer of a minimum of 30 semester hours of science courses from an accredited medical or dental school.
2. Completion of a minimum of 90 semester hours of credit with a minimum grade point average of 2.00 prior to transfer to the medical or dental school.
3. Completion of the following courses with at least a C in each course:
4. Completion of the University's Foundations of Knowledge and Learning Requirements.
5. Completion of the last 30 hours prior to transfer to a medical or dental school in residence at the University of South Florida.
6. Application for the degree must be received no later than two years from the date of entrance into the professional school.

Students admitted to professional schools of veterinary medicine, optometry, physical therapy, or podiatric medicine prior to completion of their degree may also be able to transfer courses from the professional school and receive their bachelor's degree. However, approval of the courses to be transferred must be obtained on an individual basis from the College of Arts and Sciences, and in some cases it may be necessary for students to complete more than 90 hours prior to leaving the University of South Florida.

### Teacher Education Program

The College of Arts and Sciences offers B.A. and M.A. degree programs for secondary school teachers and the M.A. degree for junior college teachers.

### B.S. Degree Programs for Secondary School Teachers

The College of Arts and Sciences, in cooperation with the College of Education, offers degree programs in Mathematics, Biology, Chemistry, Physics, English, Foreign Language and Social Science Education. Prospective students should consult the College of Education portion of this catalog under the heading, Department of Secondary Education for degree requirements.

#### • Biology

Plus two of the following biology courses, including at least one with a laboratory (minimum 7 semester hours):

BSC 2010 2010L Biology I: Cellular Processes and Lab  
BSC 2011 2011L Biology II: Biodiversity and Lab  
MCB 3020 3020L General Microbiology and Lab  
PCB 3023 3023L Cell Biology (lab optional)  
PCB 3063 3063L General Genetics (lab optional)  
MCB 4115 4115L Determinative Bacteriology and Lab  
MCB 4502 Virology  
MCB 5815 Medical Mycology  
PCB 4064 Experimental Genetics  
PCB 4723 Animal Physiology  
PCB 4723L Animal Physiology Lab  
PCB 4234 Principles of Immunology  
ZOO 3713C Comparative Vertebrate Anatomy  
ZOO 4753C Histology

#### • Chemistry

CHM 2045 2045L General Chemistry I  
CHM 2046 2046L General Chemistry II

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CHM 2210 2210L Organic Chemistry I  
CHM 2211 2211L Organic Chemistry II  
BCH 3023 Introductory Biochemistry or BCH 3053 or BCH 4033

• **Physics**

PHY 2053 2053L General Physics I  
PHY 2054 2054L General Physics II

• **Mathematics**

MAC 2241, MAC 2311, or MAC 2281 Calculus I  
Plus either the second semester of a calculus sequence OR  
STA 2023 Introductory Statistics I

• **B.A. - AFRICANA STUDIES (AFA) (CIP = 05.0201)**

**TOTAL DEGREE HOURS: 120**

<http://africanastudies.usf.edu/undergraduate/major/>

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

There are no state mandated common course prerequisites for this major.

## 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 4400 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  
AMS 3700 Racism in American Society  
ANT 4340 The Caribbean  
PHM 4120 Major Black Thinkers

Other electives may become available to students. Please see the undergraduate advisor or the Africana Studies Undergraduate Director for further information.

### 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

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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 for Undergraduate Research](#) will assist students in understanding the various course options.

## REQUIREMENTS FOR THE MINOR IN AFRICANA STUDIES (AFA) TOTAL MINOR HOURS: 18

<http://africanastudies.usf.edu/undergraduate/minor/>

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 4150 Africa and the United States  
AFA 4931 Selected Topics in Africana Studies  
INR 4254 Africa in World Affairs

### Advising Information

Andrew Bird, Undergraduate Advisor, BEH 201

## REQUIREMENTS FOR THE 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.

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)

AFS 3153 African Literature Survey  
AML 3604 African American Literature  
AFA 4430 Afro-Diasporic Literature and Political Movements  
ENG 4013 Literary Criticism

### Certificate Electives (6 hours)

Select any two of the following:

AFA 4931 Selected Topics  
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 or better is required in core courses.

### Advising Information

Andrew Bird, Undergraduate Advisor, BEH 201

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## AFRICANA STUDIES FACULTY

*Chairperson:* C. Rodriguez; *Associate Professors:* E. Kissi; K. Simeon-Jones; *Assistant Professors:* E.D. Duke, A. Khan; *Instructor:* L. Lahey; *Other Faculty:* H.R. Kaplan, L. Tavernier-Almada, S. Moore, F.U. Ohaegbulam.

### • B.A. - AMERICAN STUDIES (AMS) (CIP = 05.0102)

**TOTAL DEGREE HOURS: 120**

<http://humanities.usf.edu/undergraduate/as/>

The American Studies major is designed for students who seek to understand the cultural patterns, beliefs and values that have unified and sometimes divided Americans. American Studies is an interdisciplinary program that emphasizes the diversity of American people and institutions; the importance of gender, race, ethnicity and social class; the material and technological foundations of American society; the development of distinctive regions within the United States; and creative expression in art, architecture, film, literature, music and photography.

### STATE MANDATED COMMON COURSE PREREQUISITES

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

### REQUIREMENTS FOR THE MAJOR IN AMERICAN STUDIES

**TOTAL MAJOR HOURS: 36**

#### Major requirements for the B.A. Degree:

##### Major Core (30 hours)

- AMS 2030 Introduction to American Studies
- AMS 2270 Twentieth-Century American Culture
- Two 3000- or 4000-level Period courses  
(e.g. AMS 3230, AMS 3001, AMS 3260)
- One 3000- or 4000-level Regions or Regionalisms course  
(e.g. AMS 4210)
- Two 3000- or 4000-level Genre or Media courses  
(e.g. AMS 3601, AMS 4305, HUM 4582)
- HUM 3804 Introduction to Cultural Studies  
Students must pass HUM 3804 with a B- or better in order to register for AMS 4936 American Studies Pro-Seminar.
- AMS 4936 American Studies Pro-Seminar  
Students must have at least 6 credit hours of upper-level major coursework in addition to a B- in HUM 3804 in order to enroll in AMS 4936 American Studies Pro-Seminar.
- AMS 4935 Senior Seminar in American Studies  
Students must pass AMS 4936 American Studies Pro-Seminar with at least a C- to register for AMS 4935 Senior Seminar in American Studies.

##### Major Electives (6 hours)

Six (6) credit hours of AMS electives from the list below:

- AMS 2030 Introduction to American Studies
- AMS 2201 Colonial American Culture
- AMS 2270 Twentieth-Century 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

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## Research Opportunities

The American Studies major offers six credit hours of undergraduate research through the senior-year sequence (AMS 4936 and AMS 4935).

## 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/>.

## Advising Information

Dr. Christiane Rinck, [HCSAdvise@usf.edu](mailto:HCSAdvise@usf.edu).

## REQUIREMENTS FOR THE 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.

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 departmental 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.

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## AMERICAN STUDIES FACULTY

*Chairperson:* D. Belgrad; *Professor:* R.E. Snyder, W. Cummings; *Associate Professors:* D. Belgrad, A. Berish, M. Cizmic, A. Cozzi, J. D'Emilio, R. May, B. Sadler; *Assistant Professors:* S. Ferguson, A. Rust, *Professors Emeriti:* C.B. Cooper, S.L. Gaggi, G.S. Kashdin, D. Rutenberg; *Instructors:* S. Dykins Callahan, B. Cook, B. Goldberg.

### • B.A. - ANTHROPOLOGY (ANT) (CIP = 45.0201)

**TOTAL DEGREE HOURS: 120**

<http://anthropology.usf.edu/undergrad/major/>

Anthropology aims at comprehending people as biological and social beings. It is concerned with all forms of people through time and space. One consequence of this broad-ranging view is the presence within anthropology of four branches: archaeology, biological anthropology, cultural anthropology, and linguistics. Exposure to anthropological information and the cross-cultural perspective produces heightened sensitivity in the student to the world about him/her. This helps the student to adopt an intellectual posture of disciplined skepticism with respect to any scheme that purports to define and account for regularities in human life. Students majoring in other fields may find anthropology coursework an exciting and valuable supplement to their primary academic interest.

### STATE MANDATED COMMON COURSE PREREQUISITES

The state mandated common course prerequisites must be completed with a minimum grade of C before the degree is granted. If the courses are not transferred in, they may be taken at USF. Following are the courses:

ANT XXXX Two Introductory Courses in Anthropology (ANT prefix)

### REQUIREMENTS FOR THE MAJOR IN ANTHROPOLOGY

**TOTAL MAJOR HOURS: 36**

#### Major requirements for the B.A. Degree:

##### Major Core (16 hours)

- ANT 2410 Cultural Anthropology
- ANT 2511 Biological Anthropology
- ANT 2511L Biological Anthropology Laboratory
- ANT 3101 Archaeology
- ANT 3610 Anthropological Linguistics
- ANT 4034 Theories of Culture

##### Major Electives (20 hours)

Students are required to complete a minimum of 20 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 20 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 4824 Archaeological Field Methods

##### • Biological Anthropology Subfield

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

##### • Cultural Anthropology Subfield

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ANT 4014	Anthropology of American Culture
ANT 4231	Folklore
ANT 4241	Anthropology of Religion
ANT 4285	Oral History
ANT 4302	Gender in Cross-Cultural Perspectives
ANT 4312	North American Indians
ANT 4316	Ethnic Diversity in the United States
ANT 4323	Mexico and Central America
ANT 4340	The Caribbean
ANT 4390	Visual Anthropology
ANT 4401	Exploring Cross-Cultural Diversity
ANT 4403	Environmental Anthropology
ANT 4432	The Individual and Culture
ANT 4442	Urban Life and Culture
ANT 4462	Health, Illness, and Culture
ANT 4472	Work and Migration in the Americas
ANT 4495	Methods in Cultural Research
ANT 4620	Language and Culture
ANT 4701	Applied Anthropology
ANT 4750	Language and Social Interaction
ANT 4935	Rethinking Anthropology
URS 3002	Introduction to Urban Studies

• **Methods Courses (3 credit hours):**

ANT 4180	Lab Methods in Archaeology
ANT 4181	Museum Methods
ANT 4183C	Archaeological Science
ANT 4185	Ancient Diets
ANT 4260	Ancient Trade
ANT 4285	Oral History
ANT 4390	Visual Anthropology
ANT 4495	Methods in Cultural Research
ANT 4520C	Forensic Anthropology
ANT 4824	Archaeological Field Methods
ANT 4932	Honors Seminar

Depending upon the specific topic, ANT 4930 Special Topics, may count toward any of the subdivisions and/or the methods requirement.

## GPA Requirements

In order to graduate, students must maintain an average best attempt 2.5 GPA in all courses counted 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 for Undergraduate Research](#) will assist students in understanding the various course options.

## OPTIONAL HONORS PROGRAM

The purpose of the Honors Program is to provide outstanding Anthropology undergraduates with advanced, individually tailored training in areas of anthropology of interest to them. The program, operating independently of the major itself, involves a year of coursework and research culminating in the writing of an Honors thesis. Students in the second semester of their junior year, prior to completion of 90 semester hours, may apply to the program, which begins in the fall semester.

Admission is competitive, based on the student's overall academic record:

- minimum overall 3.25 GPA,
- 3.5 GPA for USF Anthropology coursework,

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- a two-page, personal statement indicating research interests, and
- a letter of recommendation from a member of the Department of Anthropology.

Successful completion of the program requires:

- maintenance of an overall 3.25 GPA,
- maintenance of a 3.5 GPA in the major,
- completion of ANT 4932 Honors Seminar, with a grade of B or better,
- completion of ANT 4970 (3) (Honors Thesis) with a grade of "S,"
- and completion of all other requirements for graduation.

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 modern foreign language (which may include American Sign Language). They are also urged to enhance their English reading, writing, speaking and critical thinking capabilities and develop their skills in computational, statistical and other forms of quantitative analysis at every opportunity. Students are encouraged to fulfill General Education and Exit requirements with courses relevant to their interests in anthropology whenever possible. In pursuit of all these goals, they should meet with the department's undergraduate advisor at least once each semester to discuss such topics as academic progress, future course plans, Anthropology's Honors Program, summer field schools, job opportunities, graduate education and professional careers in anthropology.

## Advising Information

[AnthroAdvise@usf.edu](mailto:AnthroAdvise@usf.edu)

## REQUIREMENTS FOR THE MINOR IN ANTHROPOLOGY (ANT)

**TOTAL MINOR HOURS: 18**

<http://anthropology.usf.edu/undergrad/minor/>

The minor program is structured to allow the student maximum flexibility in course selection within a broadly defined progression of anthropological concerns. Thus, the student is able to tailor a minor in anthropology to best suit special wants and needs in the context of an overall curriculum.

Students will normally progress through these areas in the order listed below, selecting courses prerequisite or otherwise appropriate to courses desired in subsequent areas. Exceptions to this pattern must be approved by the department's undergraduate advisor.

The minor in Anthropology consists of a minimum of 18 credit hours.

### Minor Core (12 hours)

- ANT 2410 Cultural Anthropology
- ANT 2511 Biological Anthropology
- ANT 3101 Archaeology
- ANT 3610 Anthropological Linguistics

### Minor Electives (6 hours)

Six (6) credit hours of 4000-level elective courses are required as described in the listing of elective courses in archaeology, biological anthropology and cultural anthropology. Note: ANT 4932 Honors Seminar and ANT 4970 Honors Thesis will not count toward the Anthropology minor.

## GPA Requirements

A 2.0 GPA is required for the minor.

## Grading Requirement

A C average is required for the minor.

## Advising Information

Students are urged to consult with an advisor to create the most beneficial set of courses.

## REQUIREMENTS FOR THE MINOR IN BIOMEDICAL ANTHROPOLOGY (BAN)

**TOTAL MINOR HOURS: 19**

This minor prepares undergraduates majoring in biomedical sciences for futures in medical-related disciplines such as medicine, nursing, and dentistry. The required courses give students a strong foundation on evolutionary and cross-



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cultural factors affecting human biological variation. The elective course list provides students with ample choices among more specialized topics 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 4525 Human Osteology and Osteometry
- ANT 4532 Anthropology of Infectious and Contagious Diseases
- ANT 4301 Human Sexuality and Culture (newly proposed course)
- ANT 4593 Evolution and Health
- ANT 4930 Special Topics in Anthropology, when taught as:
  - Nutritional Anthropology
  - Paleopathology
  - Neuroanthropology
  - Global Health
  - Human Reproductive Ecology
  - Anthropology of Human Growth and Development

## Grading Requirement

A C average is required for all courses that count toward the minor.

## ANTHROPOLOGY FACULTY

*Chairperson:* D. Himmelgreen; *Professors:* R. Baer, E. Bird, D. Himmelgreen, L. Madrigal, N. Romero-Daza, R. Tykot, B. Weisman, C. Wells, N. White, L. Whiteford, K. Yelvington; *Associate Professors:* H. Castañeda, K. Davis-Salazar, A. Jackson, D. Lende, T. Pluckhahn, R. Zarger; *Assistant Professors:* T. Deubel, E. Miller, A. Stuesse; *Instructors:* E. Ford, J. Napora; *Courtesy Faculty:* K. Besterman-Daha; L. Lai, D. Martinez Tyson, M. Overbey, G. Tobin, D. Uzzell; *Emeritus Faculty:* M. Angrosino, K. Borman, S. Greenbaum, C. Wienker, A. Wolfe.

## • B.S. - BIOMEDICAL SCIENCES (BMS) (CIP = 26.0102)

**TOTAL DEGREE HOURS: 120**

<http://chemistry.usf.edu/undergraduate/degree/biomed/>

The Biomedical Sciences degree serves as a gateway into a variety of health-professional programs such as Medicine, Pharmacy, Dentistry, and Physical Therapy. Required courses include Biology, Chemistry, Math and Physics. This degree provides the flexibility to choose advanced-level science 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 should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community/junior college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

- BSC X010 & 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 PHY X053C and PHY X054C or
- PHY X048 & PHY X048L General Physics I & Lab and PHY X049 & PHY X049L General Physics II & Lab or BSC X093C Human Anatomy & Physiology I and BSC X094C Human Anatomy & Physiology II or
- BSC X093 & BSC X093L and BSC X094 & BSC X094L
- MAC X241 Life Sciences Calculus or MAC X281 or MAC X311

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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 2242 Life Sciences Calculus II or STA 2023 Introductory Statistics

\*MAC 2311 and MAC 2312 are also acceptable for the major.

\*MAC 2281 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

#### Major Electives (21-22 hours)

##### 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 Lab  
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 (choose one)  
Upper-level Chemistry course (choose one)  
Upper-level Chemistry or Biology course (choose one)  
Upper-level Chemistry or Biology Lab (choose one)  
Upper-level Additional Biomedical elective (choose one)

#### 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 5206 Public Health & Pathogenic Microbiology  
MCB 5815 Medical Mycology  
MCB 3410 Cell Metabolism  
PCB 3023 Cell Biology  
PCB 3023L Cell Biology Laboratory  
PCB 3063 General Genetics

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PCB 3063L	Genetics Laboratory
PCB 3712	General Physiology
PCB 3713L	General Physiology Laboratory
PCB 4234	Principles of Immunology
PCB 4522C	Experimental Genetics
PCB 4723	Animal Physiology
PCB 4723L	Animal Physiology Laboratory
PCB 4744	Mammalian Physiology
PCB 4843	Principles of Neuroscience
ZOO 3713C	Comparative Vertebrate Anatomy
ZOO 4753C	Histology

## Chemistry Courses:

BCH 3023L	Biochemistry Laboratory
BCH 4033	Advanced Biochemistry I
BCH 4034	Advanced Biochemistry II
CHM 3120C	Elementary Analytical Chemistry
CHM 3610	Intermediate Inorganic Chemistry
CHM 3610L	Intermediate Inorganic Chemistry Laboratory
CHM 3941	Peer Leading in Chemistry
CHM 4060	Use of Chemical Literature
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 4307	BioOrganic Chemistry
CHM 4455	Chemistry of High Polymers
CHM 4932	Selected Topics in Chemistry
CHS 4300	Fundamentals of Clinical Chemistry
CHS 4301L	Clinical Chemistry Laboratory

## Other Courses:

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.

*Free 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
- Biology (including the marine science concentration)
- Microbiology
- Chemistry (BA, BS)
- Interdisciplinary Natural Sciences (INS)
- Medical Technology and
- Pre-medical sciences students (PMS) who have not yet declared a major

All students entering USF for the first time, in Fall 2009 or later, who subsequently earn three (3) D and/or F grades in applicable USF science and math coursework for their major (i.e. Math, Biology, Chemistry and Physics) will be required to change their major to a major more appropriate to their goals and academic performance, and to a major that is not

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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 in violation of 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 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/>. 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

This program intends for students to complete a B.S. in Biomedical Sciences (College of Arts and Sciences) and a M.A.T. in Secondary Science (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 credits toward the M.A.T. in Science Education during their senior year of their B.S. in Biomedical Sciences. This accelerated program shares 12 credits between already existing degrees/concentrations:

- B.S. in Biomedical Sciences
- M.A.T. in Science Education

### Target Students and Expected Outcomes

The accelerated Bachelor's to M.A.T. in Science Education program is a collaborative effort between the College of Arts and Sciences and the College of Education. This program is an attractive and viable career path for students in the Department of Chemistry's degree program that results in secondary science teacher certification. Students who complete this program receive the necessary science content and pedagogy coursework to be highly qualified science teachers at the secondary level.

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## Description and Requirements

For admission to the program a student must:

1. Have completed 15 hours in the B.S. in Biomedical Sciences major upon applying and thirty (30) semester hours in science (includes twenty-one (21) semester hours in a science concentration (e.g. chemistry, biology, physics) plus 9 hours in minor science content area) with associated laboratory experiences to be fully admitted as a graduate student in the M.A.T. Science Education Program. Evidence of successfully completing all sections of the General Knowledge Test (GKT) is also required for full admission to the graduate program
2. Have a minimum 3.0 GPA overall; and
3. Have a minimum undergraduate 3.25 GPA in the major.

## Undergraduate Degree Requirements for the B.S. in Biomedical Sciences

All BMS students will complete FLENT and Summer Enrollment requirements as well as graduation requirements listed in the catalog.

Specifically, according to the BOG Articulation Regulation 6A-10.030; earn a minimum of 48 semester hours of upper-level work (courses numbered 3000 and above), therefore, BMS students will take 21 credits of additional 3000+ level coursework in addition to their required major and exit courses listed below. Of this 21 credits, 12 credits will be shared with the MAT Science Education program. **The entire undergraduate program will total no more than 120 credits.**

## Foundations of Knowledge and Learning Coursework – 36 credit hours:

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

## Capstone Experience – 6 credit hours

- Capstone (CPST)
- Writing Intensive (WRIN)

## 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 2242 Life Sciences Calculus II or STA 2023 Introductory Statistics
- \*MAC 2311 and MAC 2312 are also acceptable for the major.  
\*MAC 2281 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

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PHY 2054L General Physics II Laboratory

\*Students may substitute Human Anatomy or Physiology I and II (BSC 2093C & 2094C or BSC 2085, 2085L and BSC 2086, 2086L) for Physics I and II

## Tier 2:

### Required Biomedical Courses (7-8 credit hours):

BCH 3053 General Biochemistry

MCB 3020 and MCB 3020L General Microbiology and Laboratory

or choose one lecture: PCB 3063 or PCB 3023 and one lab: PCB 3063L or PCB 3023L or BCH 3023L

### Minimum of 14 additional Biomedical credits to include:

- Upper-level Biology course (choose one)
- Upper-level Chemistry course (choose one)
- Upper-level Chemistry or Biology course (choose one)
- Upper-level Chemistry or Biology laboratory course (choose one)
- Additional Biomedical elective (choose one)

### Chemistry Residency Requirement:

Seven credits of Chemistry coursework--upper and/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

No duplicate credit allowed.

### Shared B.S./M.A.T. Requirements

According to the BOG Articulation Regulation 6A-10.030; earn a minimum of 48 semester hours of upper-level work (courses numbered 3000 and above), therefore, the B.S. in Biomedical Sciences students will take 21 credits of additional 3000+ level coursework in addition to their required major and exit courses listed below. Out of this 21 credits, 12 credits will be shared with the MAT Science Education program. The shared courses are listed below:

- SCE 6938 Topics in Science Education: Field Practicum
- SCE 5325 Methods for Middle Grades Science Education
- SCE 5337 Methods for Secondary Science Education
- SCE 6456 Teaching the Physical Sciences

### Graduate Degree Requirements for Accelerated M.A.T in Science Education

#### PROGRAM REQUIREMENTS

Note: that all M.A.T. programs include as an admission requirement the passing of all sections of the General Knowledge Test (GKT). Applicants who can document they lived outside the state or country and did not have access to take the GKT before the application deadline may submit passing Praxis scores or GRE scores to be considered for admission. Whether admitted with passing Praxis scores or acceptable GRE scores, the applicant must submit passing scores on the GKT before the last day of classes of the semester of first enrollment, or admission to the College of Education will be revoked,

### Total Minimum Program Hours: 39 hours

The courses required for the M.A.T. in Science Education are listed below. Please check with the program for other program requirements.

#### Core Requirements

##### Process Core (33 hours minimum)

- EDF 6432 Foundations of Measurement
- ESE 5342 Teaching the Adolescent Learner
- ESE 5344 Classroom Management for a Diverse School and Society
- TSL 5325 ESOL Education in Content Areas
- SCE 5564 Reading and Communication Science Education
- SCE 5325 Methods for Middle Grades Science Education
- SCE 5337 Methods for Secondary Science Education
- SCE 6416 Teaching Secondary School Biology
- SCE 6456 Teaching Secondary School Physical and Earth Science
- SCE 6634 Current Trends in Secondary Science Education
- SCE 6938 Topics in Science Education: Field Practicum
- SCE 6947 Internship (PR: CI and passing scores of FTCE exam)
  - o Student's participation in the internship experience in classes that correspond to the specific area

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in which he or she will be certified.

- o Passing score on the appropriate subject area exam.
- o Student's content degree or equivalent (an admission's requirement).

\*Shared courses between B.S. Biomedical Sciences and M.A.T. Science Education

## Comprehensive Examination

A written narrative exam tailored to the individual student. The written exam must be completed two weeks prior to final exam week of the student's graduating semester. Exams will only be accepted during fall or spring semesters, unless a previous contract is established with the student's graduate advisor.

## Timeline and benchmarks:

1. To be considered for acceptance into the Accelerated B.S./M.A.T. Science Education students must have completed a minimum of 15 credit hours in the Biomedical Science undergraduate major.
2. Students must have a minimum undergraduate GPA of 3.0 overall, and a minimum GPA of 3.25 in the major and passing scores on all sections of the General Knowledge Test (GKT) to be eligible for the accelerated degree program. You can find information on the General Knowledge Test on the Florida Teacher Certification section of the following webpage: <http://www.fl.nesinc.com/>
3. Following completion of a minimum of 15 hours in the undergraduate major, students may be considered for acceptance into the accelerated program through faculty nomination or student self-nomination, via submission of an *Accelerated Program Application Form*. Both B.S. and M.A.T. programs will review the applications and approve the nominations. All applications require the approval of USF's Graduate School, the College of Education's Graduate Program, and the Department of Chemistry's Undergraduate Program.
4. To be promoted to graduate status, students must meet all admission requirements of the M.A.T. in Science Education in the College of Education. Specifically, the following materials must be submitted:
  - o Undergraduate transcripts; and evidence of possessing a degree in a science discipline (biology, chemistry, physics, geology, etc.) that is taught in a middle or high school, or comparable coursework in a science teaching field acceptable to the program faculty.
  - o A minimum of 21 hours in a major science content area of concentration (e.g., chemistry, biology, physics) plus 9 hours in minor science content area are required to teach secondary school.
    - Note, to teach secondary science in a specialty area (e.g. chemistry, biology, physics) the State of Florida requires: A bachelor's or higher degree with thirty (30) semester hours in science to include twenty-one (21) semester hours in that specialty area with associated laboratory experiences.
  - o Documentation of GKT scores.
5. Students must earn a minimum of a "B" (3.00) in all graduate courses. Failure to earn at least a "B" in a graduate course will result in academic review by the graduate program. Failure to maintain a minimum 3.0 GPA will result in academic probation, according to the procedures of the USF Office of Graduate Studies.

A comprehensive plan of study to complete the integrated B.S./M.A.T program will be developed with the guidance of an advisor and a faculty member. A possible plan of study could be as follows. Summer sessions may also be included in the study plan.

## First and Second Years

Courses and credits as designated for freshman and sophomore years

## Third Year

Apply for Admission to the Integrated B.S./M.A.T. program.

## Fourth Year

Student accepted in M.A.T. in Science Education program complete the following shared credits:

- SCE 6938 Topics in Science Education: Field Practicum
- SCE 5325 Methods for Middle Grades Science Education
- SCE 5337 Methods for Secondary Science Education
- SCE 6456 Teaching the Physical Sciences

## Fifth Year

- EDF 6432 Foundations of Measurement
- ESE 5342 Teaching the Adolescent Learner
- ESE 5344 Classroom Management for a Diverse School and Society
- TSL 5325 ESOL Education in Content Areas
- SCE 5564 Reading and Communication Science Education

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SCE 6416 Teaching Secondary School Biology  
SCE 6634 Current Trends in Secondary Science Education  
SCE 6947 Internship (PR: CI and passing scores of FTCE exam)  
Comprehensive Examination

## Advising Information

Department of Chemistry Advising: [chemadvise@usf.edu](mailto:chemadvise@usf.edu) or <http://chemistry.usf.edu/advising/>.

## BIOMEDICAL SCIENCES FACULTY

*Chairperson and Professor:* R. Larsen; *Associate Chairperson and Professor:* J.E. Lewis; *Distinguished University Professor Emeritus:* D.F. Martin; *Emeritus Professors:* J.C. Davis, Jr., J.E. Fernandez, L. Mandell, R.M. O'Malley, G. Solomons; *Professors:* B.J. Baker, M. Eddaoudi, W.C. Guida, J.P. Harmon, M.D. Johnston, J. Leahy, M.L. McLaughlin, G.G. Meisels, D.J. Merkler, L. Ming, R. Potter, B. Space, E. Turos, P. Zhang; *Associate Professors:* J. Antilla, K.S. Bisht, A. Malik, A. van der Vaart; *Assistant Professors:* J. Cai, I. Gelis, S. Lewis, S. Ma, J. Raker, D. Rogers, L. Woodcock; *Research Professor:* M. Acevedo-Duncan; *Research Assistant Professors:* X. Cui, M. Kumar, E. Rivera, L. Wojtas; *Instructors:* L. Anderson, D. Cruz-Ramírez de Arellano, K. Fields, U. Kulatunga, C. Vetromile, S.T. Weldegirma.

## • 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 the 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 should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of C- is the minimum acceptable grade.

BSC X010/X010L Biology I with Lab **or** BSC X010C **or** BSC X040/040L

BSC X011/X011L Biology II with Lab **or** BSC X2011C **or** BSC X041/X041L **or** ZOO X0101/0101L **or** BOT X010/X010L **or** BOT X013/X013L

CHM X045/X045L General Chemistry I with Lab **or** CHM X045C **or** CHM X040 and CHM X041

CHM X046/X046L General Chemistry II with Lab **or** CHM X046C

CHM X210/X210L Organic Chemistry I with Lab and CHM X211/X211L **or** (CHM X210C and X211C) **or** (PHY X053/X053L and PHY X054/X054L) **or** (PHY X048/X048L and PHY X049/X049L)

MAC X311 Calculus I **or** MAC X233 **or** MAC X253 **or** MAC X281 **or** MAC X241

MAC X312 Calculus II **or** MAC X282 **or** MAC X234 **or** STA X023 **or** STA X024 **or** STA X321

## REQUIREMENTS FOR THE MAJOR IN CELL AND MOLECULAR BIOLOGY TOTAL MAJOR HOURS: 74

### 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  
PCB 3063 General Genetics



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PCB 3063L General Genetics Laboratory  
PCB 3023 Cell Biology  
PCB 3023L Cell Biology Laboratory  
MCB 3410 Cell Metabolism  
PCB 4024 Molecular Biology of Cell  
PCB 4026 Molecular Biology of Gene  
Major Electives (49 hours)

**Elective courses (minimum of 15 credit hours):**

PCB 3712 General Physiology  
PCB 3713L General Physiology Lab  
PCB 4843 Principles of Neuroscience  
ZOO 4753 Human Histology and Molecular Pathology of Disease  
ZOO 4694 Developmental Biology  
MCB 3020 General Microbiology  
MCB 3020L General Microbiology Lab  
MCB 4503 Virology  
BOT 4434 Mycology  
PCB 4663 Human Genetics  
BCH 3053 General Biochemistry  
BSC 5420 Genetic Engineering  
BSC 4434 Bioinformatics  
PCB 3043 Principles of Ecology  
PCB 3043L Principles of Ecology Laboratory  
PCB 4234 Principles of Immunology  
PCB 4671 Molecular Evolution  
PCB 4522C Experimental Genetics and Cell Biology  
PCB 4744 Biomedical Physiology  
BSC 4910 Undergraduate Research (1 or 2 credit hours/semester, no more than 4 credits total)  
BSC 4933 Selected Topics\*  
BSC 5931 Selected Topics in Biology (for the accelerated program only)  
BSC 4905 Independent Study (1 credit maximum)

\*Selected topics approved for the major by the Department of Cell Biology, Microbiology and Molecular Biology

**Supporting Courses in the Natural Sciences (minimum 34 credits 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  
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 II and PHY 2049/2049L General Physics II  
**or**  
PHY 2053/2053L General Physics II and PHY 2054/2054L General Physics II

All students majoring in one of the programs offered through the department of Cell Biology, Microbiology and Molecular Biology and entering USF for the first time, in Fall 2009 or later, who subsequently earn three (3) D and/or F grades in USF coursework for their major and/or supporting coursework will be required to change to majors more appropriate to their goals and academic performances. Those majors may not include any conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology and Molecular Biology.

All *continuing* USF students who entered USF prior to Fall 2009 and who have not earned any D or F grades in USF major coursework or supporting coursework by the beginning of Fall 2009, will also be allowed three (3) D and/or F grades in subsequent terms before being required to choose another major more appropriate to their goals and academic performances, and not including any conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology and Molecular Biology.

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Any *continuing* USF students who enter USF prior to Fall 2009 and who have earned greater than or equal to one (1) D or F grade in USF coursework for their major coursework or supporting coursework by the beginning of Fall 2009, will be allowed only two (2) more D and/or F grades in subsequent semesters before being required to choose other majors more appropriate to their goals and academic performances, and not including any majors conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology and Molecular Biology.

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

### 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 Cell Biology, Microbiology, and Molecular Biology courses and supporting courses in the natural sciences, except if they are used as free elective courses. This specification applies to both USF and transfer courses.

### 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 Non-Thesis B.S./M.S. Program in Biology

This program allows B.S. majors to take graduate courses for the elective part of the Biology degree and apply them to a non-thesis M.S. degree in Biology. Successful students will be able to earn the M.S. degree in two additional semesters beyond the completion of the B.S. degree. This accelerated program shares 12 credits between already existing degrees/concentrations:

- B.S. in Biology, Concentration in Cell and Molecular Biology (submitted)
- M.S. in Biology, Concentration in Cell and Molecular Biology (non-thesis option)

### Target students and expected outcomes

This program will appeal to the more competitive Biology majors who would benefit professionally from having the M.S. when they enter the job market but do not want to commit to the longer time a thesis M.S. or a Ph.D. program takes to complete. Professions that do not require bench laboratory experience but desire the broadened knowledge base are targeted. Graduates from this program would be ideally suited for health professions, technology based industry, education and government. We also expect that some students will be interested in doctoral education in the biological or biomedical areas.

### Description and Requirements

Biology majors who have completed the following courses may apply to this program:

PCB 3023	Cell Biology	
PCB 3063	General Genetics	
MCB 3410	Cell Metabolism	
PCB 4024	Molecular Biology of the Cell <b>or</b> PCB 4026	Molecular Biology of the Gene

Students who have been admitted to the program but subsequently fail to achieve a 3.0 GPA in the last 60 hours of their B.S. degree, or who do not complete at least 30 of their last 60 hours at USF, will be dismissed from the program.

Once accepted, students must meet with BioAdvise (the advising office for biological sciences within the College of Arts and Sciences) to prepare an action plan to complete the B.S./M.S. accelerated program. This requires them to take all the courses required for the B.S. in Biology: Concentration in Cell and Molecular Biology. Students may take up to 12 credits of graduate courses as electives in Cell, Molecular and Microbiology and apply those courses to both the B.S. and M.S. degrees. They will not be admitted as graduate students until they have completed their B.S. degree and met all the requirements for admission to Cell, Molecular and Microbiology graduate students.

The action plan should include a schedule of coursework to complete their B.S. degrees and a date in their last year in the B.S. program to take the GRE.

Application materials are the same as the M.S. in Biology:

1. Two official transcripts of undergraduate work from other institutions. Applicants need not supply USF

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transcripts.

2. Three letters of recommendation
3. A brief essay stating your professional goals
4. GRE scores must be sent to USF directly from the testing agency (USF institution code is 5828)

## Graduate Degree Requirements

Students admitted into the M.S. portion of the program must complete all the requirements for the M.S. degree (non-thesis) within three semesters of admission. The requirement is 30 hours of graduate work with at least 16 of these hours completed at the 6000 level; 26 hours must be formally structured courses; and at least 15 hours must be in Cell, Molecular and Microbiology courses. Students will be required to take 3 core courses from the list below as part of these 26 hours. Of the required 26 hours, 9 hours will be derived from the core- Cell, Molecular and Microbiology graduate courses listed below (see associated curriculum). These requirements can be partially met by up to 12 hours of graduate courses taken as undergraduates. Any graduate class taken outside of Cell, Molecular and Microbiology must be approved by the Cell, Molecular and Microbiology Graduate Director. Students should be aware that a B grade or better is required for every graduate class applied to the MS portion of their degree. In addition, students will be required to pass an oral qualifying exam based on a review paper submitted in their final semester. Students must form a committee as part of their action plan to complete their graduate work. This committee will be comprised of at least 3 Cell, Molecular and Microbiology faculty, and will serve as the examination committee for the review paper required as part of the MS portion of their degree. Upon approval of that paper, students must successfully complete a comprehensive oral exam by their committee.

## Timeline and benchmarks:

1. Completion of prerequisite upper division courses and application to the accelerated program. Typically students will be in their junior year.
2. Acceptance into the program and an action plan within a semester of application.
3. Students will take up to 12 credits of graduate credit in Cell, Molecular and Microbiology courses following acceptance into the program. Typically these courses will be taken in the latter half of the junior year and in the senior year. BioAdvise will monitor the progress of the students and ensure they follow their action plan. Students who do not complete at least 9 hours of graduate work by graduation will be dropped from the accelerated M.S. program.
4. GRE exams will be taken in a timely manner so scores will be available for admission to the M.S. portion of the program. Students who do not complete the GRE in time will not be admitted to the accelerated M.S. program.
5. Students admitted to the accelerated program must form a committee prior to the beginning of their first semester in the M.S. portion of the program and must continue to follow the action plan which will be monitored by BioAdvise.
6. Students admitted to the accelerated M.S. program must complete the requirements within three semesters or will be dismissed from the program.

### Year 1

BSC	2010	Cellular Processes
BSC	2010L	Cellular Processes Laboratory
BSC	2011	Diversity
BSC	2011L	Diversity Laboratory

### Year 2

MCB	3410	Cell Metabolism
PCB	3063	General Genetics
PCB	3063L	General Genetics Laboratory
PCB	3023	Cell Biology
PCB	3023L	Cell Biology Laboratory
MCB	3020	General Microbiology
MCB	3020L	General Microbiology Laboratory

### Year 3

PCB	4024	Molecular Biology of the Cell
PCB	4026	Molecular Biology of the Gene

Three (3) credit hours of 5000-level elective structured course

### Year 4

Nine (9) credit hours of 5000- or 6000-level elective courses

### Year 5

Eighteen (18) hours of graduate coursework - 9 hours of which must be derived from the list below:  
BSC 6932 Selected Topics in Biology  
PCB 6525 Molecular Genetics

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PCB 6236 Advanced Immunology

Four (4) credit hours of non-structured courses (seminar, independent study, laboratory research)

Oral exam and review paper done at the end of Year 5

## Comprehensive Oral Qualifying Examination.

A final comprehensive oral examination is required for all master's students. This examination is open to all departmental faculty. Students must take their comprehensive exam within two years of matriculation and the exam is normally taken after the completion of all formal course work. Thesis students must take the examination at least one semester before the thesis is presented. Any graduate work counted toward the requirement for the M.S. degree must be completed within five (5) years after matriculation.

## Advising Information

BioAdvise: SCA 203; (813) 974-3250

<http://biology.usf.edu/bioadvise/>

Email: [bioadvise@usf.edu](mailto:bioadvise@usf.edu)

## CELL AND MOLECULAR BIOLOGY FACULTY

*Chairperson:* J. Garey; *Professors:* J. Garey, D. Lim, R. Pollenz, D. Te Strake, *Emeritus Professors:* J. Romeo, R. Wunderlin; *Associate Professors:* M. Dao, G. Daughdrill, M. Nanjundan, K. Schmidt, L. Shaw, S. Stevens. *Assistant Professors:* B. Burkhardt, P. Eswaramoorthy, Y. Kee, C. Nunes, J. Riordan, S. Stevens, S. Varma, S. Westerheide, B. Xue. *Research Assistant Professors:* A. Limayem; *Instructors:* W. Brazelle, J. El-Rady, E. Jones-Mason, E. Sikorski, A. Upadhyaya.

## • B.A. - CHEMISTRY (CHM) (CIP = 40.0501 - TRACK 1 OF 2) TOTAL DEGREE HOURS: 120

<http://chemistry.usf.edu/undergraduate/degree/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 change in the direction of graduate study should supplement this curriculum by addition and/or substitution of a selection of advanced courses from the B.S. program.

The Bachelor of Arts in Chemistry provides opportunities for curricula individually tailored to meet many career objectives.

## STATE MANDATED COMMON COURSE PREREQUISITES

Students should complete the following prerequisite courses listed below at the lower level prior to entering the university. These include two semesters each of General Chemistry lecture and lab, Organic Chemistry lecture and lab, Calculus, and General Physics lecture and lab. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

CHM X045/CHM X045L General Chemistry I (with lab) **or** CHM 1040 and CHM 1041, **or** CHM 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

CHM 2211/CHM 2211L Organic Chemistry II & Lab **or** CHM 2211C

PHY 2048/PHY 2048L Gen Physics I & Laboratory **or** PHY 2048C **or** PHY 2053C **or** PHY 2053 and PHY 2053L

PHY 2049/PHY 2049L Gen Physics II & Laboratory **or** PHY 2049C **or** PHY 2054C **or** PHY 2054 and PHY 2054L

## REQUIREMENTS FOR THE MAJOR IN CHEMISTRY TOTAL MAJOR HOURS: 63

Major requirements for the B.A. Degree:

### Major Core (49 hours)

Students are required to complete 39 credits of degree applicable Chemistry coursework.

CHM 2045 General Chemistry

CHM 2045L General Chemistry I Lab

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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
CHM 3610	Intermediate Inorganic Chemistry
CHM 3610L	Intermediate Inorganic Chemistry Lab
CHM 4410	Physical Chemistry I
CHM 4413	Biophysical Chemistry
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
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

## Major Electives (14 hours)

Students must choose 6 hours of 3000 level or above; may include not more than 1 hour of CHM 4970.

### • Suggested courses:

BCH 4033	Advanced Biochemistry I
BCH 4034	Advanced Biochemistry II
BCH 3023L	Basic Biochemistry Laboratory
CHM 4300	Biomolecules
CHS 4300	Fundamentals of Clinical Chemistry
CHS 4301L	Clinical Laboratory
CHM 4060	Use of Chemical Literature
CHM 4070	Historical Perspectives in Chemistry
CHM 4130C	Methods of Instrument Analysis
CHM 4131C	Methods of Chemical Investigation II
CHM 4230	Spectroscopic Analysis of Organic Compounds
CHM 4274	Introduction to Drug Discovery
CHM 4307	BioOrganic Chemistry
CHM 4455	Chemistry of High Polymers
CHM 4411	Physical Chemistry II
CHM 4410L	Physical Chemistry Laboratory
CHM 4611	Advanced Inorganic Chemistry
CHM 4970	Undergraduate Research
CHM 4932	Selected Topics in Chemistry

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 Earth History 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

*Free 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.

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*D/F Policy:* The following three departments, the Department of Chemistry, the Department of Cell Biology, Microbiology and Molecular Biology and the Department of Integrative Biology have instituted a procedure to provide students with the best opportunity to progress toward their degree requirements.

Effective Fall 2009, the following D and/or F grade rules apply for students to continue in **all** of the following majors:

- Biomedical Sciences
- Biology (including the marine science concentration)
- Microbiology
- Chemistry (BA, BS)
- Interdisciplinary Natural Sciences (INS)
- Medical Technology and
- Pre-medical sciences students (PMS) who have not yet declared a major

All students entering USF for the first time, in Fall 2009 or later, who subsequently earn three **(3) D and/or F grades** in applicable USF science and math coursework for their major (i.e. Math, Biology, Chemistry and Physics) will be required to change their major to a major more appropriate to their goals and academic performance, and to a major that is not conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

All continuing USF students who entered USF prior to Fall 2009 and who **have not** earned any D or F grades in USF science and math coursework for their major (i.e. Math, Biology, Chemistry and Physics) before Fall 2009, will also be redirected after earning three **(3) D and/or F grades** in subsequent terms. Upon earning the 3rd D and/or F grade, students will be required to choose another major more appropriate to their goals and academic performance, and to one that is not conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

All continuing USF students who entered USF prior to Fall 2009 and who **have earned** one (1) or more **D or F grades** in USF science and math coursework for the major (i.e. Math, Biology, Chemistry and Physics) prior to Fall 2009, will be allowed to count all previous D/F grades as one (1) D/F grade. After Fall 2009, students who earn two **(2) additional D and/or F grades (resulting in three (3) total D/F grades)** in subsequent terms will be required to choose another major more appropriate to their goals and academic performance, and to one that is not conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

Lab only courses are not counted towards the total number of D/F grades earned for the policy. Grade Forgiveness will NOT apply to the mandated requirement of changing majors.

If a student is in violation of 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 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 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.A./M.A.T. PROGRAM

This program intends for students to complete a B.A. in Chemistry (College of Arts and Sciences) and a M.A.T. in Secondary Science (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 credits toward the M.A.T. in Science Education during the senior year of their B.A. in Chemistry. This accelerated program shares 12 credits between already existing degrees/concentrations:

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- B.A. in Chemistry
- M.A.T. in Science Education

## Target students and expected outcomes

The accelerated Bachelor's to M.A.T. in Science Education program is a collaborative effort between the College of Arts and Sciences and the College of Education. This program is an attractive and viable career path for students in the Department of Chemistry's degree programs that results in secondary science teacher certification. Students who complete this program receive the necessary science content and pedagogy coursework to be highly qualified chemistry teachers at the secondary level.

## Description and Requirements

For admission to the program a student must:

1. Have completed 15 hours in the B.A. in Chemistry major upon applying and thirty (30) semester hours in science (includes twenty-one (21) semester hours in chemistry plus 9 hours in minor science content area) with associated laboratory experiences to be fully admitted as a graduate student in the M.A.T. Science Education Program. Evidence of successfully completing all sections of the General Knowledge Test (GKT) is also required for full admission to the graduate program
2. Have a minimum 3.0 GPA overall; and
3. Have a minimum undergraduate 3.25 GPA in the major.

## Undergraduate Degree Requirements for the B.A. in Chemistry

All Chemistry, B.A. students will complete FLENT, FLEX and Summer Enrollment requirements as well as graduation requirements listed in the catalog: <http://www.ugs.usf.edu/pdf/cat1213/08ACADEMICPOL.pdf>.

Specifically, according to the BOG Articulation Regulation 6A-10.030; earn a minimum of 48 semester hours of upper-level work (courses numbered 3000 and above), therefore, the Chemistry, BA students will take 21 credits of additional 3000+ level coursework in addition to their required major and exit courses listed below.

### Foundations of Knowledge and Learning Coursework – 36 credit hours:

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

### Capstone Experience – 6 credit hours

- Capstone (CPST)
- Writing Intensive (WRIN)

### Required Chemistry Courses - 33 credit hours

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab
- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab
- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Lab
- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II Lab
- CHM 3120C Elementary Analytical Chemistry I
- CHM 3610 Intermediate Inorganic Chemistry I
- CHM 3610L Intermediate Inorganic Chemistry I Lab
- CHM 4410 Physical Chemistry I
- CHM 4413 Biophysical Chemistry

### Required Chemistry Electives - 6 credit hours:

3000 level or above; may include not more than 1 hour of CHM 4970.

Suggested courses:

- BCH 4033 Advanced Biochemistry I
- BCH 3023L Basic Biochemistry Laboratory
- BCH 4034 Advanced Biochemistry II
- CHM 4300 Biomolecules
- CHS 4300 Fundamentals of Clinical Chemistry

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CHS 4301L	Clinical Laboratory
CHM 4060	Use of Chemical Literature
CHM 4070	Historical Perspectives in Chemistry
CHM 4130C	Methods of Instrument Analysis
CHM 4131C	Methods of Chemical Investigation II
CHM 4411	Physical Chemistry II
CHM 4410L	Physical Chemistry Laboratory
CHM 4611	Advanced Inorganic Chemistry
CHM 4970	Undergraduate Research
CHM 4932*	Selected Topics in Chemistry

\*Selected Topics in Chemistry - content varies each semester.

Note: Peer Leading cannot be used as a required chemistry elective in the major.

## Required Supporting Courses - 14-16 credit hours:

MAC 2311 and MAC 2312 or MAC 2281 and MAC 2282

PHY 2053 /PHY 2053L and PHY 2054/PHY 2054L or PHY 2048/PHY 2048L and PHY 2049/PHY 2049L

## Required natural science or engineering electives - 8 credit hours:

Suggested courses:

BSC 2010/2010L	Cellular Processes/Laboratory
BSC 2011/2011L	Biodiversity/Laboratory
GLY 2010/2000L	Dynamic Earth: Introduction to Physical Geology/Laboratory
GLY 2100/2100L	History of Life/Laboratory
EVR 2001/2001L	Introduction to Environmental Science/Laboratory
CGS 2060	Introduction to Computers and Computer Programming
STA 2023	Introductory Statistics I

## Shared B.A./M.A.T. Requirements

According to the BOG Articulation Regulation 6A-10.030; earn a minimum of 48 semester hours of upper-level work (courses numbered 3000 and above), therefore, the Chemistry, B.A. students will take 21 credits of additional 3000+ level coursework in addition to their required major and exit courses listed above. Of this 21 credits, 12 credits will be shared with the M.A.T. Science Education program. The shared courses are listed below:

SCE 6938	Topics in Science Education: Field Practicum
SCE 5325	Methods for Middle Grades Science Education
SCE 5337	Methods for Secondary Science Education
SCE 6456	Teaching the Physical Sciences

## Graduate Degree Requirements for Accelerated M.A.T in Science Education PROGRAM REQUIREMENTS

Note: that all M.A.T. programs include as an admission requirement the passing of all sections of the General Knowledge Test (GKT). Applicants who can document they lived outside the state or country and did not have access to take the GKT before the application deadline may submit passing Praxis scores or GRE scores to be considered for admission. Whether admitted with passing Praxis scores or acceptable GRE scores, the applicant must submit passing scores on the GKT before the last day of classes of the semester of first enrollment, or admission to the College of Education will be revoked.

### Total Minimum Program Hours: 39 hours

The courses required for the M.A.T. in Science Education are listed below. Please check with the program for other program requirements.

### Core Requirements

#### Process Core 33 hours minimum

EDF 6432	Foundations of Measurement
ESE 5342	Teaching the Adolescent Learner
ESE 5344	Classroom Management for a Diverse School and Society
TSL 5325	ESOL Education in Content Areas
SCE 5564	Reading and Communication Science Education
SCE 5325	Methods for Middle Grades Science Education
SCE 5337	Methods for Secondary Science Education
SCE 6416	Teaching Secondary School Biology
SCE 6456	Teaching Secondary School Physical and Earth Science
SCE 6634	Current Trends in Secondary Science Education
SCE 6938	Topics in Science Education: Field Practicum
SCE 6947	Internship (PR: CI and passing scores of FTCE exam)

Student's participation in the internship experience in classes that correspond to the specific area in



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which he or she will be certified.

Passing score on the appropriate subject area exam.

Student's content degree or equivalent (an admission's requirement).

\*Shared courses between B.A. Chemistry and M.A.T. Science Education

## Comprehensive Examination

A written narrative exam tailored to the individual student. The written exam must be completed two weeks prior to final exam week of the student's graduating semester. Exams will only be accepted during fall or spring semesters, unless a previous contract is established with the student's graduate advisor.

## Timeline and benchmarks:

1. To be considered for acceptance into the Accelerated B.A./M.A.T. Chemistry/Science Education students must have completed a minimum of 15 credit hours in the Chemistry undergraduate major.
2. Students must have a minimum undergraduate GPA of 3.0 overall, and a minimum GPA of 3.25 in the major and passing scores on all sections of the General Knowledge Test (GKT) to be eligible for the accelerated degree program. You can find information on the General Knowledge Test on the Florida Teacher Certification section of the following webpage: <http://www.fl.nesinc.com/>
3. Following completion of a minimum of 15 hours in the undergraduate major, students may be considered for acceptance into the accelerated program through faculty nomination or student self-nomination, via submission of an *Accelerated Program Application Form*. Both B.A. and M.A.T. programs will review the applications and approve the nominations. All applications require the approval of USF's Graduate School, the College of Education's Graduate Program, and the Department of Chemistry's Undergraduate Program.
4. To be promoted to graduate status, students must meet all admission requirements of the M.A.T. in Science Education in the College of Education. Specifically, the following materials must be submitted:
  - o Undergraduate transcripts; and evidence of possessing a degree in a science discipline (biology, chemistry, physics, geology, etc.) that is taught in a middle or high school, or comparable coursework in a science teaching field acceptable to the program faculty.
  - o A minimum of 21 hours in major science content area of concentration (plus 9 hours in minor science content area) are required to teach secondary school. Note, to teach secondary chemistry the state of Florida requires: A bachelor's or higher degree with thirty (30) semester hours in science to include twenty-one (21) semester hours in chemistry with associated laboratory experiences.
  - o Documentation of GKT scores.
5. Students must earn a minimum of a "B" (3.00) in all graduate courses. Failure to earn at least a "B" in a graduate course will result in academic review by the graduate program. Failure to maintain a minimum 3.0 GPA will result in academic probation, according to the procedures of the USF Office of Graduate Studies.

A comprehensive plan of study to complete the integrated B.A./M.A.T program will be developed with the guidance of an advisor and a faculty member. A possible plan of study could be as follows. Summer sessions may also be included in the study plan.

### First and Second Years

Courses and credits as designated for freshman and sophomore years.

### Third Year

Apply for Admission to the Integrated B.A./M.A.T. program.

### Fourth Year

Student accepted in M.A.T. in Science Education program complete the following shared credits:

SCE 6938	Topics in Science Education: Field Practicum
SCE 5325	Methods for Middle Grades Science Education
SCE 5337	Methods for Secondary Science Education
SCE 6456	Teaching the Physical Sciences

### Fifth Year

EDF 6432	Foundations of Measurement
ESE 5342	Teaching the Adolescent Learner
ESE 5344	Classroom Management for a Diverse School and Society
TSL 5325	ESOL Education in Content Areas
SCE 5564	Reading and Communication Science Education
SCE 6416	Teaching Secondary School Biology
SCE 6634	Current Trends in Secondary Science Education
SCE 6947	Internship (PR: CI and passing scores of FTCE exam)
	Comprehensive Examination

## Advising Information

Department of Chemistry Advising: [chemadvise@usf.edu](mailto:chemadvise@usf.edu) or <http://chemistry.usf.edu/advising/>.

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## CHEMISTRY CONCENTRATIONS

### **BIOCHEMISTRY/BIOTECHNOLOGY (CBY)**

**(CIP = 40.0501 TRACK 1 OF 2)**

**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 should complete the following prerequisite courses listed below at the lower level prior to entering the university. These include two semesters each of General Chemistry lecture and lab, Organic Chemistry lecture and lab, Calculus, and General Physics lecture and lab. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

CHM X045/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

CHM 2211/CHM 2211L Organic Chemistry II & Laboratory **or** CHM 2211C

PHY 2048/PHY 2048L Gen Physics I & Laboratory **or** PHY 2048C **or** PHY 2053C **or** PHY 2053 and PHY 2053L

PHY 2049/PHY 2049L Gen Physics II & Laboratory **or** PHY 2049C **or** PHY 2054C **or** PHY 2054 and PHY 2054L

### **REQUIREMENTS FOR THE CONCENTRATION IN BIOCHEMISTRY/BIOTECHNOLOGY**

**TOTAL MAJOR HOURS: 63**

#### **Major requirements for the B.A. Degree:**

##### **Major Core (54 hours)**

Students are required to complete 39 credits of degree applicable Chemistry coursework.

CHM 2045 General Chemistry

CHM 2045L General Chemistry I Lab

CHM 2046 General Chemistry II

CHM 2046L General Chemistry II Lab

CHM 2210 Organic Chemistry I

CHM 2210L Organic Chemistry I Lab

CHM 2211 Organic Chemistry II

CHM 2211L Organic Chemistry II Lab

CHM 3120C Elementary Analytical Chemistry I

BCH 4033 Advanced Biochemistry I

BCH 3023L Basic Biochemistry Lab

BCH 4034 Advanced Biochemistry II

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

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## Major Electives (9 hours)

Minimum of 9 hours selected from the following:

- CHM 3610 Intermediate Inorganic Chemistry I
- CHM 3610L Intermediate Inorganic Chemistry I Lab
- CHM 4060 Use of the Chemical Literature
- CHM 4300 Biomolecules
- CHM 4070 Historical Perspectives in Chemistry
- CHM 4230 Spectroscopic Analysis of Organic Compounds
- CHM 4274 Introduction to Drug Discovery
- 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

## Other suggested electives important for advanced studies in Biochemistry:

- PCB 3063 General Genetics
- STA 2023 Introductory Statistics I
- MCB 3020C General Microbiology
- EVR 2001 Introduction to Environmental Science

*Free 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
- Biology (including the marine science concentration)
- Microbiology
- Chemistry (BA, BS)
- Interdisciplinary Natural Sciences (INS)
- Medical Technology and
- Pre-medical sciences students (PMS) who have not yet declared a major

All students entering USF for the first time, in Fall 2009 or later, who subsequently earn three **(3) D and/or F grades** in applicable USF science and math coursework for their major (i.e. Math, Biology, Chemistry and Physics) will be required to change their major to a major more appropriate to their goals and academic performance, and to a major that is not conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

All continuing USF students who entered USF prior to Fall 2009 and who **have not** earned any D or F grades in USF science and math coursework for their major (i.e. Math, Biology, Chemistry and Physics) before Fall 2009, will also be redirected after earning three **(3) D and/or F grades** in subsequent terms. Upon earning the 3rd D and/or F grade, students will be required to choose another major more appropriate to their goals and academic performance, and to one that is not conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

All continuing USF students who entered USF prior to Fall 2009 and who **have earned** one(1) or more **D or F grades** in USF science and math coursework for the major (i.e. Math, Biology, Chemistry and Physics) prior to Fall 2009, will be allowed to count all previous D/F grades as one (1) D/F grade. After Fall 2009, students who earn two **(2) additional D and/or F grades (resulting in three (3) total D/F grades)** in subsequent terms will be required to choose another major more appropriate to their goals and academic performance, and to one that is not conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

Lab only courses are not counted towards the total number of D/F grades earned for the policy. Grade Forgiveness will NOT apply to the mandated requirement of changing majors.

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If a student is in violation of 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 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 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.

## Advising Information

Department of Chemistry Advising: [chemadvise@usf.edu](mailto:chemadvise@usf.edu) or <http://chemistry.usf.edu/advising/>.

## **This concentration is accepting no new admits.**

### **HEALTH PROFESSIONS (CHH)**

**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 should complete the following prerequisite courses listed below at the lower level prior to entering the university. These include two semesters each of General Chemistry lecture and lab, Organic Chemistry lecture and lab, Calculus, and General Physics lecture and lab. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

CHM X045/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

CHM 2211/CHM 2211L Organic Chemistry II & Laboratory or CHM 2211C

PHY 2048/PHY 2048L Gen Physics I & Laboratory or PHY 2048C, or PHY 2053C or PHY 2053 and PHY 2053L

PHY 2049/PHY 2049L Gen Physics II & Laboratory or PHY 2049C, or PHY 2054C or PHY 2054 and PHY 2054L

## **REQUIREMENTS FOR THE CONCENTRATION IN**

### **HEALTH PROFESSIONS**

**TOTAL MAJOR HOURS: 63**

#### **Major requirements for the B.A. Degree:**

#### **Major Core (54 hours)**

CHM 2045 General Chemistry

CHM 2045L General Chemistry I Lab

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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  
CHS 4300 Fundamentals of Clinical Chemistry  
CHS 4301L Clinical Laboratory  
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 **or** MAC 2281 Engineering Calculus I and MAC 2282 Engineering Calculus II  
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

## Major Electives (9 hours)

Minimum of 9 hours selected from the following:

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 the 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  
PCB 3063 General Genetics  
STA 2023 Introductory Statistics I  
MCB 3020C General Microbiology  
PCB 4723 Animal Physiology  
ZOO 4753 Human Histology and Molecular Pathology of Disease  
ZOO 3713C Comparative Vertebrate Anatomy

*Free 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
- Biology (including the marine science concentration)
- Microbiology
- Chemistry (BA, BS)

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- Interdisciplinary Natural Sciences (INS)
- Medical Technology and
- Pre-medical sciences students (PMS) who have not yet declared a major

All students entering USF for the first time, in Fall 2009 or later, who subsequently earn three (3) D and/or F grades in applicable USF science and math coursework for their major (i.e. Math, Biology, Chemistry and Physics) will be required to change their major to a major more appropriate to their goals and academic performance, and to a major that is not conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

All continuing USF students who entered USF prior to Fall 2009 and who have not earned any D or F grades in USF science and math coursework for their major (i.e. Math, Biology, Chemistry and Physics) before Fall 2009, will also be redirected after earning three (3) D and/or F grades in subsequent terms. Upon earning the 3rd D and/or F grade, students will be required to choose another major more appropriate to their goals and academic performance, and to one that is not conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

All continuing USF students who entered USF prior to Fall 2009 and who have earned one(1) or more D or F grades in USF science and math coursework for the major (i.e. Math, Biology, Chemistry and Physics) prior to Fall 2009, will be allowed to count all previous D/F grades as one (1) D/F grade. After Fall 2009, students who earn two (2) additional D and/or F grades (resulting in three (3) total D/F grades) in subsequent terms will be required to choose another major more appropriate to their goals and academic performance, and to one that is not conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

Lab only courses are not counted towards the total number of D/F grades earned for the policy. Grade Forgiveness will NOT apply to the mandated requirement of changing majors.

If a student is redirected via the D/F policy, regardless of major, they will no longer be able to take any courses offered by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

## 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](mailto:chemadvise@usf.edu) or <http://chemistry.usf.edu/advising/>.

## REQUIREMENTS FOR THE MINOR IN CHEMISTRY (CHM)

**TOTAL MINOR HOURS: 24**

<http://chemistry.usf.edu/undergraduate/degree/minor/>

The Chemistry minor provides a broad and general exposure to the traditional areas of the chemical sciences

### Minor Core (14 hours)

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab
- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab
- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Lab
- CHM 4060 Use of Chemical Literature

### 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 Lab

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CHM 2211	Organic Chemistry II
CHM 2211L	Organic Chemistry II Lab
CHM 3120C	Elementary Analytical Chemistry
CHM 3610	Intermediate Inorganic Chemistry
CHM 3610L	Intermediate Inorganic Chem. Lab
CHM 4230	Spectroscopic Analysis of Organic Compounds
CHM 4274	Introduction to Drug Discovery
CHM 4300	Biomolecules
CHM 4307	BioOrganic Chemistry
CHM 4410	Physical Chemistry I
CHM 4410L	Physical Chemistry Laboratory
CHM 4411	Physical Chemistry II
CHM 4413	Biophysical Chemistry
CHM 4455	Chemistry of High Polymers
CHM 4932	Selected Topics in Chemistry
CHS 4300	Fundamentals of Clinical Chemistry

## Grading Requirement

A grade of C or better is required for each course in the Chemistry minor. Courses in the chemistry minor must be taken with letter grade (A, B, C, D, F, I) except those courses which are graded S/U only.

## Residency Requirement

Eight hours of approved Chemistry coursework must be completed at USF.

## Other Requirements

Chemistry, Biomedical Sciences, Interdisciplinary Natural Sciences, and Medical Technology majors are not eligible for the minor in Chemistry.

## Advising Information

Department of Chemistry Advising: [chemadvise@usf.edu](mailto:chemadvise@usf.edu) or <http://chemistry.usf.edu/advising/>.

## • B.S. - CHEMISTRY (CHS) (CIP = 40.0501 - TRACK 1 OF 2) TOTAL DEGREE HOURS: 120

<http://chemistry.usf.edu/undergraduate/degree/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 should complete the following prerequisite courses listed below at the lower level prior to entering the university. These include two semesters each of General Chemistry lecture and lab, Organic Chemistry lecture and lab, Calculus, and General Physics lecture and lab. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

CHM X045/CHM X045L General Chemistry I (with laboratory) or CHM 1040 and CHM 1041, or CHM 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

CHM 2211/CHM 2211L Organic Chemistry II & Laboratory or CHM 2211C

PHY 2048/PHY 2048L Gen Physics I & Laboratory or PHY 2048C, or PHY 2053C or PHY 2053 and PHY 2053L

PHY 2049/PHY 2049L Gen Physics II & Laboratory or PHY 2049C, or PHY 2054C or PHY 2054 and PHY 2054L

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## REQUIREMENTS FOR THE MAJOR IN CHEMISTRY TOTAL MAJOR HOURS: 76

### Major requirements for the B.S. Degree:

#### Major Core (70 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 required to complete 50 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  
BCH 4033 Advanced Biochemistry I  
CHM 3120C Elementary Analytical Chemistry  
CHM 3610 Intermediate Inorganic Chemistry  
CHM 3610L Intermediate Inorganic Chemistry Lab  
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  
MAC 2311 Calculus I **and** MAC 2312 Calculus II **and** MAC 2313 Calculus III **or** MAC 2281 Engineering Calculus I **and** MAC 2282 Engineering Calculus II **and** MAC 2283 Engineering Calculus III  
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

#### Major Electives (6 hours)

BSC 2010 Cellular Processes **and**  
One 3000-level Natural Science or Engineering course (PHY 3101, MAP 4302 suggested) **or**  
One 2000-level Natural Science course (BSC 2011, GLY 2010, GLY 2100, EVR 2001, CGS 2060, CGS 2100, EGN 2210)

Other suggested chemistry electives:

CHM 4970 Undergraduate Research  
BCH 3023L Basic Biochemistry Laboratory  
CHM 4070 Historical Perspectives in Chemistry  
CHM 4413 Biophysical Chemistry  
CHM 4932 Selected Topics in Chemistry

Note: The content varies for the Selected Topics in Chemistry course.

*Free 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



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- Biology (including the marine science concentration)
- Microbiology
- Chemistry (BA, BS)
- Interdisciplinary Natural Sciences (INS)
- Medical Technology and
- Pre-medical sciences students (PMS) who have not yet declared a major

All students entering USF for the first time, in Fall 2009 or later, who subsequently earn three (3) D and/or F grades in applicable USF science and math coursework for their major (i.e. Math, Biology, Chemistry and Physics) will be required to change their major to a major more appropriate to their goals and academic performance, and to a major that is not conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

All continuing USF students who entered USF prior to Fall 2009 and who have not earned any D or F grades in USF science and math coursework for their major (i.e. Math, Biology, Chemistry and Physics) before Fall 2009, will also be redirected after earning three (3) D and/or F grades in subsequent terms. Upon earning the 3rd D and/or F grade, students will be required to choose another major more appropriate to their goals and academic performance, and to one that is not conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

All continuing USF students who entered USF prior to Fall 2009 and who have earned one (1) or more D or F grades in USF science and math coursework for the major (i.e. Math, Biology, Chemistry and Physics) prior to Fall 2009, will be allowed to count all previous D/F grades as one (1) D/F grade. After Fall 2009, students who earn two (2) additional D and/or F grades (resulting in three (3) total D/F grades) in subsequent terms will be required to choose another major more appropriate to their goals and academic performance, and to one that is not conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

Lab only courses are not counted towards the total number of D/F grades earned for the policy. Grade Forgiveness will NOT apply to the mandated requirement of changing majors.

If a student is in violation of 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 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 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.

## Advising Information

Department of Chemistry Advising: [chemadvise@usf.edu](mailto:chemadvise@usf.edu) or <http://chemistry.usf.edu/advising/>.

## CHEMISTRY FACULTY

*Chairperson and Professor:* R. Larsen; *Associate Chairperson and Professor:* J.E. Lewis; *Distinguished University Professor Emeritus:* D.F. Martin; *Emeritus Professors:* J.C. Davis, Jr., J.E. Fernandez, L. Mandell, R.M. O'Malley, G. Solomons; *Professors:* B.J. Baker, M. Eddaoudi, W.C. Guida, J.P. Harmon, M.D. Johnston, J. Leahy, M.L. McLaughlin, G.G. Meisels, D.J. Merkler, L. Ming, R. Potter, B. Space, E. Turos, P. Zhang; *Associate Professors:* J. Antilla, K.S. Bisht, A. Malik, A. van der Vaart; *Assistant Professors:* J. Cai, I. Gelis, S. Lewis, S. Ma, J. Raker, D. Rogers, L. Woodcock; *Research Professor:* M. Acevedo-Duncan; *Research Assistant Professors:* X. Cui, M. Kumar, E. Rivera, L. Wojtas; *Instructors:* L. Anderson, D. Cruz-Ramírez de Arellano, K. Fields, U. Kulatunga, C. Vetromile, S.T. Weldegirma.

# COLLEGE OF ARTS & SCIENCES

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

## • B.A. - CLASSICS-LATIN/GREEK (CLS) (CIP = 16.1200) TOTAL DEGREE HOURS: 120

<http://languages.usf.edu/undergraduate/classics/>

Classics at the University of South Florida is a language-based interdisciplinary humanities field. We provide instruction in the Greek and Latin languages and in the Greek and Roman civilization, literature, mythology and religion.

Faculty specialize in diverse aspects of the Greek and Roman world (such as Greek poetry, Latin poetry, Roman historiography). Our department combines the intimacy of a small liberal arts college with the wide-ranging educational possibilities of a large state university.

Our major is of particular interest to students who wish to teach Latin or Greek at the secondary level or plan graduate study in a humanistic discipline; also to students who wish to focus on the classical civilizations that are the cornerstone of the Western Tradition.

### STATE MANDATED COMMON COURSE PREREQUISITES

Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

To complete a major in Classics, students should demonstrate proficiency at the intermediate level within the target language. This may be accomplished by completing 6-12 hours within the language or by demonstrated competency at the intermediate level. If this coursework (or associated competency) is not completed at a Florida College System institution, it must be completed before the degree is granted. A grade of "C" is the minimum acceptable grade.

## REQUIREMENTS FOR THE MAJOR IN CLASSICS-LATIN/GREEK TOTAL MAJOR HOURS: 33-34

### Major requirements for the B.A. Degree:

#### Major Core (33-34 hours)

The Classics Major requires 10 courses (33-34 credit hours), which are classified as language and civilization requirements.

#### Language Requirements (15-16 credit hours):

Students are required to take at least four (4) successive courses in a single language, Latin or Classical Greek (LAT, LNW, GRE, GRW).

#### Civilization Requirements (18 credit hours):

Students are required to take six (6) upper-level civilization courses, five (5) of which are the core courses offered by Classics:

- CLA 3103 Daily Life in Ancient Greece
- CLA 3124 Daily Life in Ancient Rome
- CLT 3370 Gods, Heroes, and Monsters in the Ancient World
- CLT 3103 Epic Battles and Dramatic Reversals in Greek Thought
- CLT 3123 Voyages and Metamorphoses in Roman Imagination

The sixth remaining course for the major can be fulfilled through appropriate offerings by the departments of History, Humanities and Cultural Studies, Religious Studies, and Philosophy, but only with the approval of the Classics 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 for Undergraduate Research](#) will assist students in understanding the various course options.

### OPTIONAL HONORS PROGRAM

To graduate with Honors in Classics, the student must apply in the junior year and complete special requirements during the senior year.

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To apply, the student must schedule an appointment with the Advisor and a thesis director chosen by the student.

1. **Admissions Criteria**

- o Senior status, with a departmental and overall GPA of 3.50.
- o Completion of the core courses in Classics.
- o An appropriate project accepted by a faculty member of Classics who agrees to serve as thesis director.

2. **Requirements for Completion of Departmental Honors:**

- o The student must maintain a departmental and overall GPA of 3.50.
- o The student must pass two (2) sight translations in either Greek or Latin (passages to be determined by the thesis director and the student).
- o The student must turn in the completed thesis (thirty to fifty pages, at the discretion of the thesis director) before April of the senior year and defend it before a committee of at least three faculty members by May of the senior year (Committee members to be chosen by the student and thesis director).

3. **Dismissal Procedures**

- o The student must maintain a Departmental GPA of 3.50, must submit the Honors Thesis on time and must pass the scheduled Departmental Honors Examination.

## Advising Information

All students who wish to enroll in the Classics Major must schedule an appointment with an advisor.

Yury Riascos ([yuryr@usf.edu](mailto:yuryr@usf.edu)) or Dr. Ippokratis Kantzios ([kantzios@usf.edu](mailto:kantzios@usf.edu)).

## REQUIREMENTS FOR THE MINOR IN MODERN GREEK (MGR)

**TOTAL MINOR HOURS: 16**

### Minor Core (16 hours)

GRK 2220 Modern Greek III

GRK 2221 Modern Greek IV

Two, four-credit hour GRK 4905 Directed Studies Courses

## Advising Information

Dr. Ippokratis Kantzios ([kantzios@usf.edu](mailto:kantzios@usf.edu))

## REQUIREMENTS FOR THE MINOR IN CLASSICS (CLS)

**TOTAL MINOR HOURS: 15**

<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.

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

Yury Riascos ([yuryr@usf.edu](mailto:yuryr@usf.edu)) or Dr. Ippokratis Kantzios ([kantzios@usf.edu](mailto:kantzios@usf.edu)).

## CLASSICS-LATIN/GREEK FACULTY

*Associate Professors:* I. Kantzios (Classics Program Coordinator), E. Manolaraki; *Assistant Professor:* C. Polt;  
*Instructor:* A. Oh.

# COLLEGE OF ARTS & SCIENCES

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

## • B.A. - COMMUNICATION (SPE) (CIP = 23.1304) TOTAL DEGREE HOURS: 120

<http://communication.usf.edu/undergraduate/major/>

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.

Students are encouraged to tailor their major to meet their own interest and select from one of six areas of concentration: Relational Communication, Organizational Communication, Health Communication, Culture and Media, Performance Studies or Public Advocacy.

### STATE MANDATED COMMON COURSE PREREQUISITES

The State of Florida has identified a common course prerequisite for the major in Communication. This course must be completed with a minimum grade of "C" before the degree is granted. If the course is not transferred in, the student may take the course at USF.

SPC 2608 Public Speaking

### REQUIREMENTS FOR THE MAJOR IN COMMUNICATION TOTAL MAJOR HOURS: 36

#### Major requirements for the B.A. Degree:

##### Major Core (15 hours)

Students must take each of these four courses as early as possible in the major. These courses are prerequisites for taking many of the more advanced courses in the respective concentrations.

COM 2000 Introduction to Communication  
ORI 3004 Communication as Performance  
SPC 3301 Interpersonal Communication  
SPC 3544 Persuasion and Media

This course is a prerequisite for the Communication major:

SPC 2608 Public Speaking

##### Major Electives (6 hours)

Students must take 6 additional hours of elective coursework from any concentration in the Department of Communication at the 3000-level or higher.

#### The following courses will count for major electives, unless designated or approved to count toward specific concentrations:

COM 4958 Communication Senior Capstone  
SPC 4930 Selected Topics (titles and topics vary each semester)  
SPC 4932 Senior Seminar

#### 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.

#### 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 for 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.

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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.

## **COMMUNICATION CONCENTRATIONS**

### **REQUIREMENTS FOR THE CONCENTRATION IN CULTURE AND MEDIA (SMD)**

**TOTAL CONCENTRATION HOURS: 15**

<http://communication.usf.edu/undergraduate/concentrations/culture/>

#### **Concentration Core (15 hours)**

Students must take a minimum of fifteen hours in one of the six areas of concentration. Many courses are listed in more than one concentration. Therefore, students should plan their concentration coursework in ongoing consultation with the advisor.

#### **Culture and Media Concentration** course offerings:

- COM 3014 Communication, Gender and Identity
- COM 3051 Analyzing Culture and Media
- COM 3052 Cultural Studies and Communication
- COM 3413 Communication and Visual Culture
- COM 4016 Public Memory
- COM 4021 Family Communication and the End of Life
- COM 4030 Women and Communication
- COM 4050 Globalization and Democratic Discourse
- COM 4104 Communication, Tourism, and Travel
- COM 4414 Performance Art
- COM 4931 Performance and Video
- ORI 3950 Communication as Performance Laboratory
- ORI 4019 Performing Identity and Culture
- ORI 4410 Performance Art
- ORI 4931 Performance and Video
- SPC 3653 Popular Forms of Public Communication
- SPC 4201 Oral Tradition
- SPC 4310 Relationships on Film
- SPC 4632 Rhetoric and Social Change
- SPC 4683 Rhetorical Analysis of Social Media
- SPC 4701 Intercultural Communication
- SPC 4714 Communication, Culture, and Community

#### **Concentration Electives**

**The following courses are contracted individually between student and instructor. The concentration will be designated when the course is contracted.**

- SPC 4900 Directed Readings
- SPC 4903 Honors Readings
- SPC 4905 Undergraduate Research
- SPC 4970 Honors Thesis

### **REQUIREMENTS FOR THE CONCENTRATION IN HEALTH COMMUNICATION (SHC)**

**TOTAL CONCENTRATION HOURS: 15**

<http://communication.usf.edu/undergraduate/concentrations/health/>

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## Concentration Core (15 hours)

Students must take a minimum of fifteen hours in one of the six areas of concentration. Many courses are listed in more than one concentration. Therefore, students should plan their concentration coursework in ongoing consultation with the advisor.

### Health Communication Concentration course offerings:

- COM 4020 Communicating Illness, Grief, and Loss
- COM 4021 Family Communication and the End of Life
- COM 4022 Health Communication
- COM 4702 Communication, Language, and Mental Illness
- SPC 3212 Communication Theory
- SPC 4305 Communicating Emotions
- SPC 4321 Communication and Aging
- SPC 4431 Family Communication

### Concentration Electives

The following courses are contracted individually between student and instructor. The concentration will be designated when the course is contracted.

- SPC 4900 Directed Readings
- SPC 4903 Honors Readings
- SPC 4905 Undergraduate Research
- SPC 4970 Honors Thesis

## REQUIREMENTS FOR THE CONCENTRATION IN ORGANIZATIONAL COMMUNICATION (SOG)

**TOTAL CONCENTRATION HOURS: 15**

<http://communication.usf.edu/undergraduate/concentrations/organizational/>

## Concentration Core (15 hours)

Students must take a minimum of fifteen hours in one of the six areas of concentration. Many courses are listed in more than one concentration. Therefore, students should plan their concentration coursework in ongoing consultation with the advisor.

### Organizational Communication Concentration course offerings:

- COM 3120 Organizational Communication
- COM 3122 Interview Communication
- COM 4050 Globalization and Democratic Discourse
- COM 4124 Communication and Organizational Change
- COM 4128 Integrated Organizational Communication
- COM 4151 Communication and Working Life in Cont Orgs
- COM 4530 Influencing Public Opinion
- SPC 3212 Communication Theory
- SPC 3425 Group Communication
- SPC 3602 Advanced Public Speaking
- SPC 4714 Communication, Culture and Community

### Concentration Electives

The following courses are contracted individually between student and instructor. The concentration will be designated when the course is contracted.

- SPC 4900 Directed Readings
- SPC 4903 Honors Readings
- SPC 4905 Undergraduate Research
- SPC 4970 Honors Thesis

## REQUIREMENTS FOR THE CONCENTRATION IN PERFORMANCE STUDIES (SPS)

**TOTAL CONCENTRATION HOURS: 15**

<http://communication.usf.edu/undergraduate/concentrations/performance/>

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## Concentration Core (15 hours)

Students must take a minimum of fifteen hours in one of the six areas of concentration. Many courses are listed in more than one concentration. Therefore, students should plan their concentration coursework in ongoing consultation with the advisor.

### Performance Studies Concentration course offerings:

- COM 3014 Communication, Gender and Identity
- COM 3413 Communication and Visual Culture
- COM 4016 Public Memory
- COM 4030 Women and Communication
- COM 4104 Communication, Tourism, and Travel
- ORI 3950 Communication as Performance Laboratory
- ORI 4019 Performing Identity and Culture
- ORI 4120 Performance of Poetry
- ORI 4150 Performing Nonfiction
- ORI 4220 Performing Young Adult Literature
- ORI 4310 Group Performance of Literature
- ORI 4320 Writing for Performance
- ORI 4410 Performance Art
- ORI 4460 Performing Relationships
- ORI 4931 Performance and Video
- SPC 3653 Popular Forms of Public Communication
- SPC 4201 Oral Tradition

### Concentration Electives

The following courses are contracted individually between student and instructor. The concentration will be designated when the course is contracted.

- SPC 4900 Directed Readings
- SPC 4903 Honors Readings
- SPC 4905 Undergraduate Research
- SPC 4970 Honors Thesis

## REQUIREMENTS FOR THE CONCENTRATION IN PUBLIC ADVOCACY (SAD) TOTAL CONCENTRATION HOURS: 15

<http://communication.usf.edu/undergraduate/concentrations/public/>

## Concentration Core (15 hours)

Students must take a minimum of fifteen hours in one of the six areas of concentration. Many courses are listed in more than one concentration. Therefore, students should plan their concentration coursework in ongoing consultation with the advisor.

### Public Advocacy Concentration course offerings:

- COM 3014 Communication, Gender and Identity
- COM 3413 Communication and Visual Culture
- COM 4016 Public Memory
- COM 4030 Women and Communication
- COM 4050 Globalization and Democratic Discourse
- COM 4104 Communication, Tourism, and Travel
- ORI 4019 Performing Identity and Culture
- ORI 4410 Performance Art
- SPC 3230 Rhetorical Theory
- SPC 3425 Group Communication
- SPC 3513 Argumentation and Debate
- SPC 3602 Advanced Public Speaking
- SPC 3653 Popular Forms of Public Communication
- SPC 3680 Rhetorical Analysis
- SPC 3710 Communication and Cultural Diversity
- SPC 4683 Rhetorical Analysis of Mass Media

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- SPC 4701 Intercultural Communication
- SPC 4714 Communication, Culture and Community

## Concentration Electives

The following courses are contracted individually between student and instructor. The concentration will be designated when the course is contracted.

- SPC 4900 Directed Readings
- SPC 4903 Honors Readings
- SPC 4905 Undergraduate Research
- SPC 4970 Honors Thesis

## REQUIREMENTS FOR THE CONCENTRATION IN RELATIONAL COMMUNICATION (SRC)

**TOTAL CONCENTRATION HOURS: 15**

<http://communication.usf.edu/undergraduate/concentrations/relational/>

### Concentration Core (15 hours)

Students must take a minimum of fifteen hours in one of the six areas of concentration. Many courses are listed in more than one concentration. Therefore, students should plan their concentration coursework in ongoing consultation with the advisor.

### Relational Communication Concentration course offerings:

- COM 3014 Communication, Gender and Identity
- COM 4020 Communicating Illness, Grief, and Loss
- COM 4021 Family Communication and the End of Life
- COM 4022 Health Communication
- COM 4030 Women and Communication
- COM 4151 Communication and Working Life in Cont Orgs
- COM 4490 Communication and Love
- COM 4702 Communication, Language, and Mental Illness
- COM 4710 Writing Lives
- ORI 4019 Performing Identity and Culture
- ORI 4220 Performing Young Adult Literature
- ORI 4460 Performing Relationships
- SPC 3212 Communication Theory
- SPC 3425 Group Communication
- 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
- SPC 4714 Communication, Culture and Community

### Concentration Electives

The following courses are contracted individually between student and instructor. The concentration will be designated when the course is contracted.

- SPC 4900 Directed Readings
- SPC 4903 Honors Readings
- SPC 4905 Undergraduate Research
- SPC 4970 Honors Thesis

## REQUIREMENTS FOR THE MINOR IN COMMUNICATION (SPE)

**TOTAL MINOR HOURS: 18**

<http://communication.usf.edu/undergraduate/minor/>

The minor in Communication requires a minimum of 18 hours of departmental coursework.



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## 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.

## COMMUNICATION FACULTY

*Chairperson:* D. Payne; *Professors:* E. Bell, A.P. Bochner, E.M. Eisenberg, C.S. Ellis, L.S. Pettegrew; *Associate Professors:* M. Bartesaghi, A. Basu, K. Berry, R. Dubrofsky, N.C. James, J. Jorgenson, C. Noy, D. Payne, L. Roscoe, F. Steier; *Assistant Professors:* M. Dean Kruzell, A. Durham, A. Khan, C. McRae, M. Pal, J. Zalinger; *Instructor:* A. Huber.

## • B.A. - ECONOMICS (ECO) (CIP = 45.0601) TOTAL DEGREE HOURS: 120

[http://economics.usf.edu/undergraduate/ba\\_ecn/](http://economics.usf.edu/undergraduate/ba_ecn/)

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

The State of Florida has identified common course prerequisites for the major in Economics. These courses must be completed with a minimum grade of "C" before the degree is granted. If the courses are not transferred in, they may be taken at USF.

ECO X013 Economic Principles: Macroeconomics or ECO XXXX  
ECO X023 Economic Principles: Microeconomics or 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

#### Major Electives (15 hours)

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 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

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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 either the College of Arts and Sciences or the College of Business.

All continuing USF students who entered USF prior to Fall 2012 and who **have not** earned any D or F grades in any of the following courses at USF: ECO 2013, ECO 2023, ECO 3101, ECO 3203, 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 or the College of Business.

All continuing USF students who entered USF prior to Fall 2012 and who **have** earned 1 (one) or more D or F grades in any of the following courses at USF: ECO 2013, ECO 2023, ECO 3101, ECO 3203, 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 (formerly ECO 3100) 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 for Undergraduate Research will assist students in understanding the various course options.

## ACCELERATED BA/MA PROGRAM

This program allows superior students with strong analytical skills and the ability to handle a fast paced, challenging program the opportunity to complete both the Bachelor's and Master's degrees in Economics in five years.

The program requires students to take two graduate-level courses required for the MA degree during the last year in the Bachelor program. These six hours are counted as general electives (not major electives) in the undergraduate program and are also used to satisfy the requirements for the MA in economics. After completing the 120-hour Bachelor's program, five-year students take 24 hours at the graduate level.

To be eligible for the program, a student must have:

- Completed at least 6 hours of 3000-level or above Economics courses at USF (not including statistics),
- Have an overall grade point average of 3.00 or above, and have a minimum of 3.25 cumulative grade point average in all economics courses (including statistics).

To apply for admission, send a letter to the Undergraduate Program Director in the Department of Economics stating your qualifications and desire to enter the program. To plan your program, or for additional information, see the Undergraduate Advisor in Economics.

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## Coursework in the Undergraduate Economics Major:

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

15 credit hours of Economics electives numbered 3000 or higher.

1. MAC 2233 Business Calculus or MAC 2311 Calculus I (or the equivalent) is an acceptable substitute for ECO 2052.
2. QMB 3200 Business and Economics Statistics II is an acceptable substitute for STA 2023.
3. 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.
4. ECP 3703 Managerial Economics, may be substituted for ECO 3101. Students may not take both for credit.
5. No more than 3 hours credit can be applied toward a major from ECO 4905 and/or ECO 4914.
6. Economics majors taking coursework at the other USF institutions may not be able to fulfill all Economics course requirements at those institutions.
7. 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 or the College of Business.
8. 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 or the College of Business.
9. 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.
10. Grade Forgiveness will NOT apply to the mandated requirement of changing majors.
11. Appeals to the required change of major will be handled in the Economics Department and **ONLY** those students whose appeal is based on exceptional circumstances will be considered.

Advisors in the College of Arts and Sciences or the Transitional Advising Center will be available to assist students in the selection of a new major in their respective colleges. They will also track their progress through the Accelerated Degree Program.

Advisors will also clarify the financial aid implications of entering the Accelerated Degree Program. This includes the cost differences between undergraduate and graduate credit hours as well as possibly not being able to apply certain undergraduate scholarships to graduate coursework.

The BA in Economics will be conferred once the student has completed all requirements for the degree including having completed the graduate coursework that comprises part of the Accelerated Degree Program. The MA in Economics will be conferred once the student has completed all remaining requirements for the MA degree.

The M.A. in Economics is a non-thesis option degree program comprised of a minimum of 30 credit hours of graduate coursework, 12 hours of which are required courses:

ECO 6115 Microeconomics I  
ECO 6206 Macroeconomics I  
ECO 6405 Mathematical Economics I  
ECO 6424 Econometrics I

as well as 18 hours of electives at least 12 of which must be drawn from the list of economics electives shown below and at most 6 hours of which may be drawn from graduate courses outside of economics.

Economics electives must be drawn from the following set of graduate-level courses offered in the Department of Economics.

ECO 6120 Economic Policy Analysis  
ECO 6305 History of Economic Thought  
ECO 6425 Econometrics II

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ECO 6505	Public Finance
ECO 6525	Public Sector Economics
ECO 6706	International Trade: Theory and Policy
ECO 7116	Microeconomics II
ECO 7207	Macroeconomics II
ECO 7406	Mathematical Economics II
ECO 7426	Econometrics III
ECP 6405	Industrial Organization I
ECP 6408	Economics of Organization
ECP 6415	Issues in Regulation and Antitrust
ECP 6456	Law and Economics
ECP 6536	Economics of Health Care I
ECP 6614	Urban Economics
ECP 6624	Regional Economics
ECP 7406	Industrial Organization II
ECP 7537	Economics of Health Care II
ECS 6015	Economic Development

With the approval of the Graduate Director, unrestricted elective courses may be satisfied either by graduate-level courses offered by any department within the University or by certain MBA courses taught within the Department of Economics.

### *Specific Course Requirements for the Accelerated Degree Program*

Students in the Accelerated Degree Program will be permitted to take 9 hours of graduate coursework prior to the BA in Economics being conferred. Of these 9 hours, 6 will be mandatory (ECO 6405 and ECO 6115) and 3 hours will be chosen from ECO 6206, ECO 6424, ECO 6505, ECP 6408, ECP 6415, ECP 6456, and ECP 6614. With the exceptions of ECO 6115 and ECO 6206 which do not satisfy any specific undergraduate course (ECO 3101 and ECO 3203 constitute 6 hours of the 15 hours in the major that are required to be admitted to the Accelerated Degree Program), all other graduate courses taken prior to the awarding of the BA in Economics satisfy the following undergraduate elective courses:

ECO 4401	satisfied by ECO 6405
ECO 4421	satisfied by ECO 6424
ECO 4504	satisfied by ECO 6505
ECP 3403	satisfied by ECP 6408
ECP 3413	satisfied by ECP 6415
ECP 3613	satisfied by ECP 6614
ECP 4451	satisfied by ECP 6456

At the time that the BA degree is conferred, students in the Accelerated Degree Program will have completed at least two of the four required courses and at most one of the six elective courses needed for the MA degree. The remaining one or two required courses for the MA degree will be completed after the BA degree has been conferred.

### *Elective Requirements*

Of the 6 elective courses that comprise the Main Economics, students in the Accelerated Degree Program are permitted to take at most one such course before the BA in Economics is conferred. The list of approved elective courses is as follows:

ECO 4421	satisfied by ECO 6424
ECO 4504	satisfied by ECO 6505
ECP 3403	satisfied by ECP 6408
ECP 3413	satisfied by ECP 6415
ECP 3613	satisfied by ECP 6614
ECP 4451	satisfied by ECP 6456

Following the awarding of the BA in Economics, students in the Accelerated Degree Program will be able to choose their remaining graduate elective courses from the list of economics elective courses given below.

### DEGREE PROGRAM REQUIREMENTS

Program Minimum Hours: 30 hours

All students are required to take courses in advanced economic theory and econometrics. Undergraduate economics majors at USF may complete the program in one year beyond the B.A. in the 5-Year B.A./M.A. Program. Students preparing for doctoral studies select from these and additional courses in economic theory, mathematics, and quantitative methods. Where appropriate students may select course in other departments in the University.

Students must satisfy all University requirements for the M.A. degree. Departmental requirements include 30 hours of graduate credit selected with the approval of the department's graduate advisor. At least 24 hours must be in

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Economics, not including Independent Study (ECO 6906) and Directed Research (ECO 6917). To graduate, a student must have at least an overall 3.0 GPA and at least a 3.0 GPA for all economics courses, and pass an oral examination.

In addition to completing the 30 hours of coursework with overall and major GPAs of at least 3.0, a student must pass an oral examination conducted by a panel of three faculty members who have taught courses in the student's program. At least one faculty member must be drawn from those who teach the core courses. The oral examination provides a forum for the student to provide evidence that s/he has sufficient knowledge and breadth of fundamental economic concepts so as to be able to undertake rigorous economic analysis, both theoretical and empirical in nature.

## 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](mailto:econadvise@usf.edu)

## REQUIREMENTS FOR THE 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.

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

### Minor Core (6 hours)

ECO 2013 Economic Principles: Macroeconomics

ECO 2023 Economic Principles: Microeconomics

ECO 1000, if taken before both ECO 2013 and ECO 2023 and student receives a C- or better, may be substituted for 3 hours of upper level electives. Before being recognized as a minor in economics a student must obtain program approval by the Economics Department Undergraduate Advisor. A grade point average of 2.0 or higher must be achieved in the minor course work at USF and in all minor courses completed at any institution. Unless stated otherwise, a grade of "C-" is the minimum acceptable grade for all minor and supporting minor courses.

### Minor Electives (12 hours)

Students must choose twelve (12) credit hours of Economics electives numbered 3000 or higher (may include QMB 3200).

### 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.

Beyond ECO 2013 Economic Principles: Macroeconomics and ECO 2023 Economic Principles: Microeconomics, students should elect ECP 4451 Law and Economics, ECP 3413 Economics of Regulation and Antitrust, and ECO 4505 Economics of Crime. Additional courses of interest are ECO 4504 Public Finance, ECP 3530 Economics of Health, ECP 3302 Environmental Economics, ECP 3203 Labor Economics, and ECP 3201 Economics of Women and Work.

The Economics Pre Law Curriculum fits easily within the Economics major or minor but is open to other students.

### Advising Information

[econadvise@usf.edu](mailto:econadvise@usf.edu)

## ECONOMICS FACULTY

*Chairperson:* B. Kamp; *Professors:* J.S. DeSalvo, K. Gyimah-Brempong, G.A. Picone, P.K. Porter; *Professors Emeriti:* D. M. Bellante, E.J. Ford, C.A. Green, M.G. Herander, W. Herman, J.S. Hodgson, J.W. Rowe, Jr., W.E. Shows; *Associate Professors:* B.P. Kamp, M.B. Loewy, M. Munkin, C.R. Thomas; *Assistant Professors:* A. Barbos, X. Jin, G. La Mattina, H. Liu, J. Wilde; *Senior Instructors:* S. Bartlett, A.J. Criss; *Instructors:* E. Martinez; *Visiting Instructor:* C. Jones.

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## • 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

The State of Florida has identified common course prerequisites for the major in English. These courses must be completed with a minimum grade of "C" before the degree is graded. If the courses are not transferred in, they may be taken at USF.

ENC 1101 Composition I or ENC XXXX

ENC 1102 Composition II or ENC XXXX

### REQUIREMENTS FOR THE MAJOR IN ENGLISH TOTAL MAJOR HOURS: 36

#### 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 15 hours in the major at USF.

#### Foreign Language Requirement

The English Department does not accept Sign Language as a foreign language.

#### 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 for 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.

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## Admissions Criteria

Students may apply for the program after completing 80 hours of coursework (90 before actual admission). Applicants should have a GPA of 3.30 in the major and an overall GPA of 3.00 and should submit signatures of recommendation from two English faculty supporting their applications.

After screening all applications, the Department's Honors Committee will select participants for each year's program.

## Requirements for Completion of Departmental Honors

1. The Honors student will complete the requirements of his/her chosen English major as described in the current catalog.
2. The Honors program requires 9 hours of Honors-level work.
  - 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:
    - A second (three-hour) Honors seminar (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 A+.
  - Of the nine hours required for Departmental Honors, a maximum of six hours may be counted towards the requirements for the major (historical distribution requirements or electives).

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.

The student who completes all requirements above will graduate with Honors in English. The credit hours completed within the program by the student who does not complete all Honors requirements will count toward the baccalaureate degree.

\*\*Faculty who are willing to accommodate the extra needs of Honors students will notify the Undergraduate Director before registration to have their course put on the list of eligible courses. The Honors student will enroll in an independent study but will attend the scheduled course and complete the bulk of the reading and written requirements for the course in addition to a special Honors project for the course (this could include a formal presentation of research, an independent research project, a longer research paper, a long annotated bibliography, a larger collection of creative work, etc. The independent study represents 3 hours of coursework.

## ENGLISH CONCENTRATIONS

### REQUIREMENTS FOR THE CONCENTRATION IN CREATIVE WRITING (CRW)

**TOTAL CONCENTRATION HOURS: 36**

<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,

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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.

## Concentration Core (36 hours)

### Writing Requirements: Six 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 of the following courses:

CRW 3112 Fiction I

CRW 3121 Fiction II

CRW 3312 Poetry I

CRW 3321 Poetry II

CRW 4930 Selected Topics in Creative Writing

CRW 4930 may be repeated twice, with different content, for a total of six (6) credits hours.

Choices would include creative nonfiction, screenwriting, craft courses in fiction/poetry, young adult literature, lyric poetry, etc.).

### Literature Requirements: Six courses as follows:

#### One of the following courses that concentrates on literature written pre-1900:

AML 3031 American Literature from the Beginning to 1860

AML 3032 American Literature from 1860 to 1912

AML 4111 Nineteenth-Century American Novel

ENG 4060 History of the English Language

ENL 3015 British Literature to 1616

ENL 3016 Studies in 17th and 18th Century British Literature

ENL 3017 Studies in 19th Century British Literature

ENL 3230 British Literature 1616-1780

ENL 3251 British Literature 1780-1900

ENL 3331 Early Shakespeare

ENL 3332 Late Shakespeare

ENL 4122 19th Century British Novel

ENL 4311 Chaucer

ENL 4338 Advanced Studies in Shakespeare

ENL 4341 Milton

LIT 3031 Survey of Poetry

LIT 3101 Literature of the Western World through the Renaissance

One LIT course at the 2000 level

**Five (5) additional major literature courses from those listed in the Literary Studies concentration**

## REQUIREMENTS FOR THE CONCENTRATION IN LITERARY STUDIES (LTS)

**TOTAL CONCENTRATION HOURS: 36**

<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.

## Concentration Core (27 hours)

### I. Required Courses (2 courses/6 credit hours):

ENG 3014 Introduction to Literary Methodology (recommended during first 2 semesters of the major)

ENG 4013 Literary Criticism (recommended before any 4000-level courses are taken)



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## II. Additional Requirements (1 course from each of the following groups) (5 courses/15 credit hours):

### A. Medieval / Renaissance Group

- ENL 3015 British Literature to 1616
- ENL 3331 Early Shakespeare
- ENL 3332 Late Shakespeare
- ENL 4311 Chaucer
- ENL 4338 Advanced Studies in Shakespeare

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

- ENL 3230 British Literature 1616-1780
- ENL 4341 Milton
- ENL 3016 Studies in 17th and 18th Century British Literature

### C. 19th Century British Group

- ENL 3251 British Literature 1780-1900
- ENL 4122 Nineteenth-Century British Novel
- ENL 3017 Studies in Nineteenth-Century British Literature

### D. American before 1900 Group

- AML 3031 American Literature from the Beginnings to 1860
- AML 3032 American Literature from 1860 to 1912
- AML 4111 Nineteenth-Century American Novel
- AML 4261 Literature of the South

### E. 20th or 21st Century American or British Group

- AML 3051 American Literature from 1912 to 1945
- AML 4121 Twentieth-Century American Novel
- AML 4261 Literature of the South
- ENL 3026 Studies in 20th Century Literature
- ENL 3273 British Literature 1900-1945
- ENL 4132 British Novel Conrad to the Present
- LIT 4233 Postcolonial Literature

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

- AML 3604 African American Literature
- AML 3630 U.S. Latino/Latina Literature in English
- AML 4111 Nineteenth-Century American Novel
- AML 4121 Twentieth-Century American Novel
- AML 4933 Studies in American Literature and Culture
- ENG 4060 History of the English Language
- ENL 4122 Nineteenth-Century British Novel
- ENL 4132 British Novel Conrad to the Present
- LIN 4671 Traditional English Grammar
- LIT 3022 Modern Short Prose
- LIT 3031 Survey of Poetry
- LIT 3043 Modern Drama
- LIT 3093 Contemporary Literature
- LIT 3101 Literature of the Western World through Renaissance
- LIT 3102 Literature of the Western World since Renaissance
- LIT 3144 Modern European Novel
- LIT 3410 Religious and Philosophical Themes in Literature
- LIT 4233 Postcolonial Literature
- LIT 4386 British and American Literature by Women

## Concentration Electives (9 hours)

Students must choose 3 courses/9 credit hours from the following:

- AML 4300 Selected American Authors
- ENG 3113 Film as Narrative Art
- ENG 4674 Film and Culture
- ENL 4303 Selected British Authors
- LIT 3374 Bible as Literature
- LIT 3930 Selected Topics in Literature
- LIT 4930 Selected Topics in English Studies

Any additional courses listed under, "Additional Requirements" above.  
Any major CRW course listed under the Creative Writing concentration

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Any major ENC course listed under the Professional Writing, Rhetoric and Technology concentration.  
One LIT course at the 2000 level

## ACCELERATED B.A./M.A. PROGRAM

This program allows B.A. majors in Literary Studies to take graduate courses in the M.A. degree in Literature 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.A. degree.

This accelerated program shares 12 credits between already existing degrees:

- B.A. English with a Concentration in in Literary Studies
- M.A. in Literature

## Target students and expected outcomes

This program builds on the department's B.A. and M.A. degrees. It will give talented Literary Studies majors the opportunity to take graduate courses and apply them to an M.A. in Literature. If successful, students will be able to complete an M.A. two semesters after the B.A. requirements have been met. This will allow them to more expeditiously pursue career opportunities requiring a graduate degree in Literary Studies or pursue Ph.D. studies.

## Description and Requirements

For admission to the program, a student must:

1. have completed at least 15 hours in the English major, with a concentration in Literary Studies, including ENG 3014.
2. have a minimum undergraduate 3.33 GPA overall; and
3. have a minimum undergraduate 3.5 GPA in the major.

Application to the program may be made by any student who has satisfied the minimum requirements. Applications should be addressed to the Department Undergraduate and Graduate Directors and should include a statement by the student affirming satisfaction of minimum requirements (with supporting documentation) and a letter of recommendation from a Literary Studies faculty member familiar with the student's academic performance.

## Requirements for the B.A. English with a Concentration in Literary Studies

Within the 120-semester hour program listed in the College of Arts and Sciences General Requirement section (including the state mandated common prerequisites), students must choose a total of 36 credit hours from the Literary Studies concentration coursework. Transfer students may not apply more than 12 hours taken elsewhere toward the major at the University of South Florida. Only letter grades of at least C- will be counted toward the minimum of 24 credit hours taken at the University of South Florida for transfer students or 36 (for non-transfer students) credit hours necessary to complete the 36 credit hours required for the major.

### I. Required Courses:

- ENG 3014 Introduction to Literary Methodology (recommended during first 2 semesters of the major)
- ENG 4013 Literary Criticism (recommended before any 4000-level courses are taken)

### II. Additional Requirements (1 course from each of the following groups) (5 courses/15credit hours):

- A. Medieval / Renaissance Group
  - ENL 3015 British Literature to 1616
  - ENL 3331 Early Shakespeare
  - ENL 3332 Late Shakespeare
  - ENL 4311 Chaucer
  - ENL 4338 Advanced Studies in Shakespeare
- B. 17th/18<sup>th</sup> Century British Group
  - ENL 3230 British Literature 1616-1780
  - ENL 4341 Milton
  - ENL 3016 Studies in 17th and 18th Century British Literature
- C. 19<sup>th</sup> Century British Group
  - ENL 3251 British Literature 1780-1900
  - ENL 4122 Nineteenth-Century British Novel
  - ENL 3017 Studies in Nineteenth-Century British Literature
- D. American before 1900 Group
  - AML 3031 American Literature from the Beginnings to 1860
  - AML 3032 American Literature from 1860 to 1912
  - AML 4111 Nineteenth-Century American Novel
  - AML 4261 Literature of the South
- E. 20<sup>th</sup> or 21<sup>st</sup> Century American or British Group

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AML 3051	American Literature from 1912 to 1945
AML 4121	Twentieth-Century American Novel
AML 4261	Literature of the South
ENL 3026	Studies in 20th Century Literature
ENL 3273	British Literature 1900-1945
ENL 4132	British Novel Conrad to the Present
LIT 4233	Postcolonial Literature

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

AML 3604	African American Literature
AML 3630	U.S. Latino/Latina Literature in English
AML 4111	Nineteenth-Century American Novel
AML 4121	Twentieth-Century American Novel
AML 4933	Studies in American Literature and Culture
ENG 4060	History of the English Language
ENL 4122	Nineteenth-Century British Novel
ENL 4132	British Novel Conrad to the Present
LIN 4671	Traditional English Grammar
LIT 3022	Modern Short Prose
LIT 3031	Survey of Poetry
LIT 3043	Modern Drama
LIT 3093	Contemporary Literature
LIT 3101	Literature of the Western World through Renaissance
LIT 3102	Literature of the Western World since Renaissance
LIT 3144	Modern European Novel
LIT 3410	Religious and Philosophical Themes in Literature
LIT 4233	Postcolonial Literature
LIT 4386	British and American Literature by Women

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

AML 4300	Selected American Authors
ENG 3113	Film as Narrative Art
ENG 4674	Film and Culture
ENL 4303	Selected British Authors
LIT 3374	Bible as Literature
LIT 3930	Selected Topics in Literature
LIT 4930	Selected Topics in English Studies

Any additional courses listed under, "Additional Requirements" above.

Any major CRW course listed under the Creative Writing concentration

Any major ENC course listed under the Professional Writing, Rhetoric and Technology concentration.

One LIT course at the 2000 level.

### Shared B.A./M.A. Requirements

Twelve (12) hours of graduate credit may be shared as follows:

ENG 4013 can be satisfied by either ENG 6018 or ENG 6019

9 hours at the 4000 level are satisfied by 9 hours at the 6000 level from comparable categories II-IV

### Graduate Degree Requirements

#### For Accelerated M.A. in English with a Concentration in Literature

**Total Minimum Hours: 33**

#### Core Requirements - 6 hours

ENG 6009 Introduction to Graduate Studies

Either ENG 6018 Criticism and Theory I or ENG 6019 Criticism and Theory II

#### Historical Distribution\* - 12 credit hours

**Four courses chosen from the following** (1 course from each of the following groups):

Medieval or Renaissance (including 17th Century)

ENL 6206 Studies in Old English

ENL 6216 Studies in Middle English

ENL 6226 Studies in Sixteenth-Century British Literature

ENL 6228 Studies in Seventeenth-Century British Literature

18<sup>th</sup> Century (Either British tradition or Literature of the Americas)

AML 6017 Studies in American Literature to 1860

ENL 6236 Studies in Restoration and Eighteenth-Century British Literature

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19<sup>th</sup> Century (Either British tradition or Literature of the Americas):

- AML 6017 Studies in American Literature to 1860
- AML 6018 Studies in American Literature to 1860 to 1920
- ENL 6246 Studies of the English Romantic Period
- ENL 6256 Studies in Victorian Literature

20<sup>th</sup> Century (Either British traditions or Literature of the Americas):

- AML 6027 Studies in Modern American Literature
- ENL 6276 Studies in Modern British Literature
- LIT 6096 Studies in Contemporary Literature

## Cultural & Critical Studies\* - 6 credit hours

Two courses in ethnic literature (including African-American, Latino/a, post-colonial), world literature, women's literature or gender studies, critical theory, film, or genre

- AML 6608 Studies in African American Literature
- ENG 6018 Studies in Criticism and Theory I
- ENG 6019 Studies in Criticism and Theory II
- ENG 6067 History of the English Language
- LIT 6934 Selected Topics in English Studies

Or other courses as approved by the Graduate Director

## Electives - 6 credit hours

Students taking ENC 6745 Teaching Practicum must use this as an elective if they count it toward the 33 credits in the degree. No CRW courses will be allowed in the literature track. Only one practicum will be allowed to satisfy degree requirements (including ENC 6745) in Option I. One Directed Study may be used to substitute for degree requirement with the approval of the Graduate Director.

## Portfolio and Defense - 3 credit hours

Three directed study hours to prepare portfolio. In their fourth and final semester (excluding summer terms), MA students will submit a portfolio for review to a three-member faculty committee six weeks prior to the Office of Graduate Studies deadline for thesis/dissertation submission. Upon submission, the student and chair of the committee will establish a defense date with the Graduate Program Specialist.

The portfolio will contain the following:

- An introductory first-person essay in which the student offers a self-evaluation of the contents of the portfolio and how it reflects his or her own process of revision, intellectual growth, plans for publication/dissemination, and professional development (minimum five pages, not to exceed fifteen).
- Three revised seminar papers 15-20 pages in length, including appropriate MLA or Chicago Style documentation.
  - Papers should represent three distinct literary periods, including at least one prior to 1800 and one after 1800. In addition, the contents of the portfolio should represent diversity on a national level, with at least one paper focusing on literature of the Americas and the other on literature from Britain (broadly construed) or its colonies.
  - Papers should be developed under the direction of three different faculty members from the English Department, who then will form the committee for the defense. One member of the committee will serve as the chair, who will coordinate the circulation of the portfolio, the scheduling of the defense, and the submission of evaluation forms to the graduate director within specified deadlines.

The portfolio will be reviewed and evaluated by this three-member faculty committee using the published assessment rubric.

Members of the portfolio committee will be asked to work with the student to revise the papers she/he wrote for class. The goal is to get the papers into a form that might reasonably be published.

Because this option is not a thesis, it does not have to be submitted to the Office of Graduate Studies, and so it does not need to adhere to the Office of Graduate Studies deadlines. Defenses should be concluded two weeks before the end of classes. The whole portfolio, along with the revised papers and the introductory essay, should be circulated two weeks prior to the defense, to give committee members an opportunity to read it through.

Each portfolio paper will also be scored on a scale from 1 to 4 on content using the rubric at the end of the handbook. To pass, a portfolio requires a minimum score of 9 in content.

Pass with Distinction: portfolios scoring between 11 and 12 will merit distinction; this will be noted in the student's file and can be referenced on a student's CV.

Deficiency: portfolios scoring between 7 and 8 or with one paper earning a 1 will be deficient. Any paper scoring less than 3 will require revision. Individual faculty need to specify in writing what the essay requires for revision in order to pass. Students will have the opportunity to revise during the remaining time of the semester; revised paper(s) need to be submitted to all committee members for approval no later than the last day of class for the semester. No second

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defense is required. Students who fail to revise appropriately before the end of the semester will be put on academic probation and will be required to finalize their papers the following semester (excluding summer unless faculty agree to serve during the summer).

Failure: portfolios that score a 6 or less or portfolios that score less than 9 in overall content fail. Students who fail will automatically be put on academic probation and given the opportunity to revise papers so that the portfolio reaches a minimum score of 9 the following semester (excluding summer unless faculty agree to serve during the summer). A failed portfolio requires a second defense after revision, and the committee will determine if it passes or fails (no deficiencies or distinctions may be awarded). If the portfolio fails after the second defense the student will be academically dismissed from the program.

Graduate Assistants on probation in the initial term maintain eligibility for an assistantship. If probationary status is not removed, the student can be removed from assistantship and academically dismissed from the program.

The committee will also evaluate the introductory essay using the appropriate rubric; this grade will be recorded for purposes of program assessment.

## Oral Defense

The committee chair convenes a meeting with the committee and student for 30 minutes; this oral examination provides the opportunity for faculty to question the student on various aspects of the portfolio, and it gives the student the opportunity to expand upon and refine ideas represented in writing. The defense also provides an opportunity for further suggestions on publication and revision. After 30 minutes, the committee will convene without the student to discuss a final assessment for the portfolio using the published rubric.

No grade lower than a B will be accepted in a graduate course in the B.A./M.A. program. Students earning less than a B in a graduate course must retake the course and earn a B or higher to apply it to their graduate degree.

## Timeline and benchmarks:

1. To be considered for acceptance into the Accelerated B.A./M.A. in Literary Studies, students must have completed a minimum of 15 credits in the Literary Studies undergraduate major.
2. Students must have a minimum undergraduate GPA of 3.33 overall, and a minimum GPA of 3.50 in the major to be eligible for the accelerated degree program.
3. Following completion of a minimum of 15 hours in the undergraduate major, students may be considered for acceptance into the accelerated program.
4. Applications should be addressed to the Department Undergraduate and Graduate Directors and should include:
  - a. a statement by the student affirming satisfaction of minimum requirements (with supporting documentation)
  - b. a letter of recommendation from a Literary Studies faculty member familiar with the student's academic performance.
5. Students must earn a minimum of a "B" (3.00) in all graduate courses. Failure to earn at least a "B" in a graduate course will result in academic review by the graduate program. Failure to maintain a minimum 3.0 GPA will result in academic probation, according to the procedures of the USF Office of Graduate Studies.

A comprehensive plan of study to complete the integrated B.A./M.A. program will be developed with the guidance of an advisor and a faculty member. A possible plan of study could be as follows. Summer sessions may also be included in the study plan.

### First and Second Year

ENG 3014 Introduction to Literary Methodology  
12 credit hours of undergraduate courses in literary studies

### Third Year (Apply for Admission to the Integrated B.A./M.A. program)

9 hours of undergraduate courses in literary studies at 3000 and 4000 level

### Fourth Year (Student accepted in M.A. in Literature program)

ENG 6018 or ENG 6019 (satisfies ENG 4013)  
9 credit hours of 6000-level  
6 credit hours of 4000-level

### Fifth Year

15 credit hours of 6000-level  
3 credits of directed study in preparation/defense of MA portfolio

## REQUIREMENTS FOR THE CONCENTRATION IN PROFESSIONAL WRITING, RHETORIC AND TECHNOLOGY (PRT)

**TOTAL CONCENTRATION HOURS: 36**

<http://english.usf.edu/ug/concentrations/technical/>

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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.

## **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 courses listed in the Literary Studies concentration.  
Any courses listed in the Creative Writing concentration.

## **REQUIREMENTS FOR THE MINOR IN CREATIVE WRITING (CRW)** **TOTAL MINOR HOURS: 15**

<http://english.usf.edu/ug/concentrations/creative/>

### **Minor Core (15 hours)**

- CRW 3111 Form & Technique of Fiction
  - CRW 3311 Form & 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

## **REQUIREMENTS FOR THE MINOR IN LITERARY STUDIES (LTS)** **TOTAL MINOR HOURS: 15**

[http://english.usf.edu/data/UG\\_LTSminor.pdf](http://english.usf.edu/data/UG_LTSminor.pdf)

### **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, TCM

## **REQUIREMENTS FOR THE MINOR IN PROFESSIONAL WRITING, RHETORIC AND TECHNOLOGY (PRT)** **TOTAL MINOR HOURS: 15**

<http://english.usf.edu/ug/concentrations/technical/>

### **Minor Core (15 hours)**

- ENC 3242 Technical Communication for Majors
- One of the following:
- ENC 4260 Advanced Technical Writing or
  - ENC 4311 Advanced Composition
- Any three of the following:
- ENC 3250 Professional Writing

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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 course from the Literary Studies concentration

## ENGLISH FACULTY

*Chairperson:* H. Hawkins; *Professors:* C. Adams, R.L. Ciresi, C. Herndl, R.L. Hewitt, J.M. Moxley, D. Price Herndl, L.L. Runge, H. Sellers, P.J. Sipiora; *Associate Professors:* N.G. Discenza, J. Fleming, M. Gould, G. Grewal, E.A. Hirsh, J. Hopley, D.L. Jacobs, M. Johnson, G. Lemons, E.A. Metzger, S. Mooney, C. Patterson, D. Plant, J. Staggers, I. Sukrungruang; *Assistant Professors:* S. Altschuler, T. Cooper, Y. Irizarry, J. Lennon, N. Le, , J. Rosello, M. Santos, J. Zisk; *Instructors:* K. Brown, S.M. Diecidue, D. Donnelly, L. Head, J.Y. Karpay, M. Leahy, B. Moss, K. Riegel; M. Shuman, E. Smith; *Professors Emeriti:* J. P. W. Rogers, R. Baum, L. Broer, S.M. Deats, H.A. Deer, R.F. Dietrich, F.J. Fabry, S.R. Fiore, W. Garrett, M. Harmon, J. Hatcher, D.L. Kaufmann, W.T. Ross, D. Schenck, W. Scheuerle, N. Tyson.

## • B.S. - ENVIRONMENTAL BIOLOGY (ENB) (CIP = 26.0101 - TRACK 1 OF 2) TOTAL DEGREE HOURS: 120

<http://biology.usf.edu/ib/ug/bs/>

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 should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of C- is the minimum acceptable grade.

BSC X010/X010L Biology I with Lab **or** BSC X010C **or** BSC X040/X040L

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

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 **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

TOTAL MAJOR HOURS: 72-75

**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

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## Choose one of:

- BOT 4601 Plant Ecology
- BSC 4933 Selected Topics in Biology\*
- PCB 5307 Limnology
- ZOO 5555C Marine Animal Ecology

\*Selected topics as approved for the major by the Department of Integrative Biology

## Major Electives (47-49 hours)

### Elective Courses (minimum 15 credit hours):

Integrative Biology or Cell, Molecular and Microbiology courses, with the exception of those intended for non-majors.

## Supporting Courses in the Natural Sciences and Mathematics: 32-34 credit hours

Students must receive a C- or better to meet requirements for degree (for progression in Math and CHM, a C is required)

- 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 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

All students majoring in one of the programs offered through the departments of Integrative or Cell Biology, Microbiology and Molecular Biology and entering USF for the first time, in Fall 2009 or later, who subsequently earn three (3) D and/or F grades in USF coursework for their major and/or supporting coursework will be required to change to majors more appropriate to their goals and academic performances. Those majors may not include any conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology and Molecular Biology.

All *continuing* USF students who entered USF prior to Fall 2009 and who have not earned any D or F grades in USF major coursework or supporting coursework by the beginning of Fall 2009, will also be allowed three (3) D and/or F grades in subsequent terms before being required to choose another major more appropriate to their goals and academic performances, and not including any conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology and Molecular Biology.

Any *continuing* USF students who enter USF prior to Fall 2009 and who have earned greater than or equal to one (1) D or F grade in USF coursework for their major coursework or supporting coursework by the beginning of Fall 2009, will be allowed only two (2) more D and/or F grades in subsequent semesters before being required to choose other majors more appropriate to their goals and academic performances, and not including any majors conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology and Molecular Biology.

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

## 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 free 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



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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

This program intends for students to complete a Bachelor of Science in Environmental Biology major (College of Arts and Sciences) and an M.A.T. in Secondary Science (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 credits toward the M.A.T. in Science Education during the senior year of their Bachelor of Science in Environmental Biology major.

### Target students and expected outcomes

The accelerated B.S. in Environmental Biology to M.A.T. in Science Education program is a collaborative effort between the College of Arts and Sciences and the College of Education. This program is an attractive and viable career path for students in the undergraduate Environmental Biology major that results in secondary science teacher certification. Students who complete this program receive the necessary science content and pedagogy coursework to be highly qualified biology teachers at the secondary level.

### Description and Requirements

For admission to the program a student must:

1. Have completed 15 hours in the B.S. Environmental Biology major upon applying and thirty (30) semester hours in science (includes twenty-five (25) semester hours in biology plus 5 hours of upper-level work in math or supporting science content area) with associated laboratory experiences to be fully admitted as a graduate student in the M.A.T. Science Education program. Evidence of successfully completing all sections of the General Knowledge Test (GKT) is also required for full admission to the graduate program.
2. Have a minimum 3.0 GPA overall; and
3. Have a minimum undergraduate 3.25 GPA in the major.

## Undergraduate Degree Requirements for the B.S. in Environmental Biology

### Environmental Biology Major Degree Requirements

All Environmental Biology major students will complete graduation requirements listed in the undergraduate catalog.

#### University and College Requirements:

- 120 hours
- 36 hours of general education coursework
- 6 hours upper-level core curriculum (Writing Intensive Capstone and Capstone Experience)
- 48 hour upper-level rule
- Summer rule
- USF Residency - Students must complete 30 hours of the last 60 hours in USF coursework.
- FLENT (Foreign Language Entrance Requirement)
- Gordon Rule Communication and Computation

### Specialization Requirements for Certification in Separate Areas of Science (Grades 6-12):

In order to be eligible for certification in a separate area of science, students must complete a minimum of thirty (30) semester hours in science to include twenty-one (21) semester hours in the area of desired specialization (chemistry, biology, physics, earth-space science).

#### Environmental Biology Major Requirements: 72-74 credit hours total

- Must receive a C- or better to meet major requirements.
- Cascading prerequisites are strictly enforced. CR = co-requisite, courses that can be taken concurrently.
- Must have fewer than 3 D and/or F grades in the Biology major and supporting science requirement lectures
- Must complete a minimum of 50 percent (20 credit hours) of Environmental Biology major requirements at USF Tampa

#### Biology Core Curriculum: 16 credit hours

BSC 2010 & 2010L	Cellular Processes/Laboratory
BSC 2011 & 2011L	Biodiversity/Laboratory
PCB 3043 & 3043L	Principles of Ecology and Laboratory
PCB 3063 & 3063L	General Genetics and Laboratory

#### Environmental Biology Curriculum: 24 credit hours

BSC 4052	Conservation Biology
PCB 4674	Organic Evolution

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One of the Following Courses:

- BOT 4601 Plant Ecology
- BSC 4933 Selected Topics: Restoration Ecology
- BSC 4933 Selected Topics: Wetlands Ecology
- BSC 4933 Selected Topics: Tropical Ecology
- BSC 4933 Selected Topics: Freshwater Ecology and Management
- BSC 4933 Selected Topics: Marine Ecology
- MCB 4202 Ecology of Infectious Diseases

## **LIST OF APPROVED ECOLOGY ELECTIVES SUBJECT TO CHANGE BASED ON COURSE AVAILABILITY**

Choose 15 additional hours of Environmental 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".

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.

OCE 4930 Advanced Oceanography I and II are the only approved non-Biology elective course options not offered by IB or CMMB departments.

## **Supporting Sciences and Mathematics: 32-34 credit hours**

Students must receive a C- or better to meet requirements for degree (for progression in Math and CHM C is required)

- CHM 2045 & CHM 2045L General Chemistry I and Lab
- CHM 2046 & CHM 2046L General Chemistry II and Lab
- CHM 2210 & CHM 2210L Organic Chemistry I and Lab
- CHM 2211 & CHM 2211L Organic Chemistry II and Lab
- 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 General Physics sequences:

- PHY 2053/L & 2054/L General Physics I and II/Labs
- PHY 2048/L & 2049/L General Physics Calculus Based I and II/Labs

## **Graduate Degree Requirements for Accelerated M.A.T in Science Education**

### **PROGRAM REQUIREMENTS**

All M.A.T. programs include as an admission requirement the passing of all sections of the General Knowledge Test (GKT). Applicants who can document they lived outside the state or country and did not have access to take the GKT before the application deadline may submit passing Praxis scores or GRE scores to be considered for admission. Whether admitted with passing Praxis scores or acceptable GRE scores, the applicant must submit passing scores on the GKT before the last day of classes of the semester of first enrollment, or admission to the College of Education will be revoked.

### **Total Minimum Program Hours 39 hours minimum**

The courses required for the M.A.T. in Science Education are listed below. Please check with the program for other program requirements.

### **Core Requirements**

- SCE 5325 Methods of Middle Grades Science Education
- SCE 5337 Methods of Secondary Science Education
- SCE 6456 Teaching Secondary School Physical and Earth Science
- SCE 6938 Topics in Science Education: Field Practicum
- EDF 6432 Foundations of Measurement
- ESE 5342 Teaching the Adolescent Learner
- ESE 5344 Classroom Management for a Diverse School and Society
- SCE 5564 Reading and Communication in Science Education
- SCE 6416 Teaching Secondary School Biology
- SCE 6634 Current Trends in Secondary Science Education
- SCE 6947 Internship in Secondary Education for Social Science (PR: CI and passing scores of FTCE exam)
- TSL 5325 ESOL Strategies for Content Area Teachers

Comprehensive Examination

Student's participation in the internship experience in classes that correspond to the specific area in which he or she will be certified.

Passing score on the appropriate subject area exam.

Student's content degree or equivalent (an admission's requirement).

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## Comprehensive Examination

A written narrative exam tailored to the individual student. Exam needs to be completed by two weeks before final exam week of the student's graduating semester. Exams will only be accepted during fall or spring semester, unless previous contract is established with the student's advisor.

## Timeline and benchmarks:

1. To be considered for acceptance into the Accelerated B.S. Environmental Biology/M.A.T. Science Education program students must have completed a minimum of 15 credit hours in the Environmental Biology undergraduate major.
2. Students must have a minimum undergraduate GPA of 3.0 overall, and a minimum GPA of 3.25 in the major and passing scores on all sections of the General Knowledge Test (GKT) to be eligible for the accelerated degree program. Information on the General Knowledge Test on the Florida Teacher Certification section may be found on the webpage: <http://www.fl.nesinc.com/>
3. Following completion of a minimum of 15 hours in the undergraduate major, students may be considered for acceptance into the accelerated program through faculty nomination or student self-nomination, via submission of an *Accelerated Program Application Form*. Both B.S. and M.A.T. programs will review the applications and approve the nominations. All applications require the approval of the College of Education Graduate Program, the College of Arts and Sciences, and the USF Graduate School.
4. To be promoted to graduate status, students must meet all admission requirements of the M.A.T. in Science Education in the College of Education. Specifically, the following materials must be submitted:
  - a. Undergraduate transcripts;
  - b. Evidence of possessing a degree in a science discipline (Biology, Chemistry, Physics, Geology, etc.) that is taught in a middle or high school, or comparable coursework in a science teaching field acceptable to the program faculty;
  - c. A bachelor's or higher degree in biology or a bachelor's or higher degree with thirty (30) semester hours in science to include twenty-one (21) semester hours in biology with associated laboratory experiences.
  - d. Documentation of GKT scores.
5. Students must earn a minimum of a "B" (3.00) in all graduate courses. Failure to earn at least a "B" in a graduate course will result in academic review by the graduate program. Failure to maintain a minimum 3.0 GPA will result in academic probation, according to the procedures of the USF Office of Graduate Studies.

A comprehensive plan of study to complete the accelerated B.S./M.A.T program will be developed with the guidance of an advisor and a faculty member. A possible plan of study could be as follows:

**Note:** Summer sessions may also be included in the study plan.

### First and Second Year

Courses and credits as designated for freshman and sophomore years

### Third Year

Apply for Admission to the Accelerated B.S./M.A.T. program

### Fourth Year

**Student accepted in M.A.T. in Science Education program complete the following credits:**

SCE 5325 Methods of Middle Grades Science Education  
SCE 5337 Methods of Secondary Science Education  
SCE 6456 Teaching Secondary School Physical and Earth Science  
SCE 6938 Topics in Science Education: Field Practicum

### Fifth Year

EDF 6432 Foundations of Measurement  
ESE 5342 Teaching the Adolescent Learner  
ESE 5344 Classroom Management for a Diverse School and Society  
SCE 5564 Reading and Communication in Science Education  
SCE 6416 Teaching Secondary School Biology  
SCE 6634 Current Trends in Secondary Science Education  
SCE 6947 Internship in Secondary Education for Social Science (PR: CI and passing scores of FTCE exam)  
TSL 5325 ESOL Education in Content Areas  
Comprehensive Examination

## Advising Information

BioAdvise: SCA 203; (813) 974-3250

<http://biology.usf.edu/bioadvise/>

Email: [bioadvise@usf.edu](mailto:bioadvise@usf.edu)

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## ENVIRONMENTAL BIOLOGY FACULTY

*Chairperson:* V. Harwood; *Professors:* S. Bell, T. Crisman, V. Harwood, E. McCoy, P. Motta, H. Mushinsky, P. Stiling; *Associate Professors:* S. Deban, G. Fox, J. Rohr, K. Scott; *Assistant Professors:* L. Johnson, M. Lajeunesse, D. Lewis, L. Martin, L. Prevost, C. Richards; *Instructors:* C. Begin, C. Osovitz, B. Predmore.

### • 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 should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of C- is the minimum acceptable grade.

BSC X010/X010L Biology I with Lab or BSC X010C or BSC X040/X040L

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

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 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 TOTAL MAJOR HOURS: 67-72

**Major requirements for the B.S. Degree:**

**Major Core (60-63 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: (12-13 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 Microbiology of Waterborne Diseases

BSC 4444 Genomics

MCB 4202 Ecology of Infectious Diseases

MCB 5655 Applied and Environmental Microbiology

ZOO 4233 Parasitology

**Supporting Courses in the Natural Sciences and Mathematics: 32-34 credit hours**

Students must receive a C- or better to meet requirements for degree (for progression in Math and CHM, a C is required)

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

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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

## Major Electives (7-9 hours)

### Elective Courses (minimum 7-9 hours):

Integrative Biology or Cell, Molecular and Microbiology courses, with the exception of those intended for non-majors.

All students majoring in one of the programs offered through the departments of Integrative or Cell Biology, Microbiology and Molecular Biology and entering USF for the first time, in Fall 2009 or later, who subsequently earn three (3) D and/or F grades in USF coursework for their major and/or supporting coursework will be required to change to majors more appropriate to their goals and academic performances. Those majors may not include any conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology and Molecular Biology.

All *continuing* USF students who entered USF prior to Fall 2009 and who have not earned any D or F grades in USF major coursework or supporting coursework by the beginning of Fall 2009, will also be allowed three (3) D and/or F grades in subsequent terms before being required to choose another major more appropriate to their goals and academic performances, and not including any conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology and Molecular Biology.

Any *continuing* USF students who enter USF prior to Fall 2009 and who have earned greater than or equal to one (1) D or F grade in USF coursework for their major coursework or supporting coursework by the beginning of Fall 2009, will be allowed only two (2) more D and/or F grades in subsequent semesters before being required to choose other majors more appropriate to their goals and academic performances, and not including any majors conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology and Molecular Biology.

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

## 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 free 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

This program intends for students to complete a B.S. in Environmental Microbiology (College of Arts and Sciences) and an M.A.T. in Secondary Science (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 credits toward the M.A.T. in Science Education during the senior year of their B.S. in Environmental Microbiology.

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## Target students and expected outcomes

The accelerated B.S. in Environmental Microbiology to an M.A.T. in Science Education program is a collaborative effort between the College of Arts and Sciences and the College of Education. This program is an attractive and viable career path for students majoring in Environmental Microbiology that results in secondary science teacher certification. Students who complete this program receive the necessary science content and pedagogy coursework to be highly qualified biology teachers at the secondary level.

## Description and Requirements

For admission to the program a student must:

1. Have completed 15 hours in the B.S. Environmental Microbiology major upon applying and thirty (30) semester hours in science (includes twenty-five (25) semester hours in biology plus 5 hours of upper-level work in math or supporting science content area) with associated laboratory experiences to be fully admitted as a graduate student in the M.A.T. Science Education program. Evidence of successfully completing all sections of the General Knowledge Test (GKT) is also required for full admission to the graduate program.
2. Have a minimum 3.0 GPA overall; and
3. Have a minimum undergraduate 3.25 GPA in the major.

## Undergraduate Degree Requirements for the B.S. in Environmental Microbiology

### Environmental Microbiology Major Degree Requirements

All Environmental Microbiology major students will complete graduation requirements listed in the undergraduate catalog.

#### University and College Requirements:

- 120 hours
- 36 hours of general education coursework
- 6 hours upper-level core curriculum (Writing Intensive Capstone and Capstone Experience)
- 48 hour upper-level rule
- Summer rule
- USF Residency - Students must complete 30 hours of the last 60 hours in USF coursework.
- FLENT (Foreign Language Entrance Requirement)
- Gordon Rule Communication and Computation

## Specialization Requirements for Certification in Separate Areas of Science (Grades 6-12):

In order to be eligible for certification in a separate area of science, students must complete a minimum of thirty (30) semester hours in science to include twenty-one (21) semester hours in the area of desired specialization (chemistry, biology, physics, earth-space science).

### Environmental Microbiology Major Requirements: 72-74 hours total

- Must receive a C- or better to meet major requirements.
- Cascading prerequisites are strictly enforced. CR = co-requisite, courses that can be taken concurrently.
- Must have fewer than 3 D and/or F grades in the Biology major and supporting science requirement lectures
- Must complete a minimum of 50 percent (20 credit hours) of Environmental Microbiology major requirements at USF Tampa

### Biology Core Curriculum: 16 credit hours

BSC 2010 & 2010L Cellular Processes/Laboratory  
BSC 2011 & 2011L Biodiversity/Laboratory  
PCB 3043 & 3043L Principles of Ecology and Laboratory  
PCB 3063 & 3063L General Genetics and Laboratory

### Environmental Microbiology Core Curriculum: 24 hours

MCB 3020 General Microbiology  
MCB 3020L General Microbiology Laboratory  
MCB 4404/MCB 4404L Microbial Physiology & Genetics and Laboratory

Advanced Micro Core option, Choose 2 from:

BSC 4933 Selected Topics: Applied/Environmental Micro  
BSC 4933 Selected Topics: Epigenetics  
BSC 4933 Selected Topics: Microbiology of Waterborne Diseases  
MCB 4202 Ecology of Infectious Diseases  
BSC 4444 Genomics  
ZOO 4233 Parasitology

Choose 10 additional hours of Biology Major courses from Tampa Campus IB Department or CMMB Department courses (course code prefix of BOT, BSC, MCB, PCB, or ZOO), with the exception of BSC 4905 and courses labeled as "not for major credit".

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- Must complete remaining credit hours necessary to meet the total 40 hours of biology required. If 15 hours completed in the rest of the environmental micro core requirement, then must complete 9 hours in the advanced curriculum.
- Most advanced biology courses are not offered every semester and there are no set offerings for summer semesters.
- A maximum of four credit hours of BSC 4910 Undergraduate Research can apply.
- BCH 4033/3023L Introduction to Biochemistry and Lab are the only approved options not offered by IB or CMMB.

### **Supporting Sciences and Mathematics: 32-34 credit hours**

Students must receive a C- or better to meet requirements for degree (for progression in Math and CHM C is required)

CHM 2045 & CHM 2045L General Chemistry I and Lab  
CHM 2046 & CHM 2046L General Chemistry II and Lab  
CHM 2210 & CHM 2210L Organic Chemistry I and Lab  
CHM 2211 & CHM 2211L Organic Chemistry II and Lab  
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 General Physics sequences:  
PHY 2053/L & 2054/L General Physics I and II/Labs  
PHY 2048/L & 2049/L General Physics Calculus Based I and II/Labs

### **Graduate Degree Requirements for Accelerated M.A.T in Science Education**

#### **PROGRAM REQUIREMENTS**

All M.A.T. programs include as an admission requirement the passing of all sections of the General Knowledge Test (GKT). Applicants who can document they lived outside the state or country and did not have access to take the GKT before the application deadline may submit passing Praxis scores or GRE scores to be considered for admission. Whether admitted with passing Praxis scores or acceptable GRE scores, the applicant must submit passing scores on the GKT before the last day of classes of the semester of first enrollment, or admission to the College of Education will be revoked.

#### **Total Minimum Program Hours 39 hours minimum**

The courses required for the M.A.T. in Science Education are listed below. Please check with the program for other program requirements.

#### **Core Requirements**

SCE 5325 Methods of Middle Grades Science Education  
SCE 5337 Methods of Secondary Science Education  
SCE 6456 Teaching Secondary School Physical and Earth Science  
SCE 6938 Topics in Science Education: Field Practicum  
EDF 6432 Foundations of Measurement  
ESE 5342 Teaching the Adolescent Learner  
ESE 5344 Classroom Management for a Diverse School and Society  
SCE 5564 Reading and Communication in Science Education  
SCE 6416 Teaching Secondary School Biology  
SCE 6634 Current Trends in Secondary Science Education  
SCE 6947 Internship in Secondary Education for Social Science  
(PR: CI and passing scores of FTCE exam)  
TSL 5325 ESOL Strategies for Content Area Teachers  
Comprehensive Examination

Student's participation in the internship experience in classes that correspond to the specific area in which he or she will be certified.

Passing score on the appropriate subject area exam.

Student's content degree or equivalent (an admission's requirement).

#### **Comprehensive Examination**

A written narrative exam tailored to the individual student. Exam needs to be completed by two weeks before final exam week of the student's graduating semester. Exams will only be accepted during fall or spring semester, unless previous contract is established with the student's advisor.

#### **Timeline and benchmarks:**

1. To be considered for acceptance into the Accelerated B.S. Environmental Microbiology/M.A.T. Science Education program students must have completed a minimum of 15 credit hours in the Environmental Microbiology undergraduate major.
2. Students must have a minimum undergraduate GPA of 3.0 overall, and a minimum GPA of 3.25 in the major

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and passing scores on all sections of the General Knowledge Test (GKT) to be eligible for the accelerated degree program. Information on the General Knowledge Test on the Florida Teacher Certification section may be found on the webpage: <http://www.fl.nesinc.com/>

3. Following completion of a minimum of 15 hours in the undergraduate major, students may be considered for acceptance into the accelerated program through faculty nomination or student self-nomination, via submission of an *Accelerated Program Application Form*. Both B.S. and M.A.T. programs will review the applications and approve the nominations. All applications require the approval of the College of Education Graduate Program, the College of Arts and Sciences, and the USF Graduate School.
4. To be promoted to graduate status, students must meet all admission requirements of the M.A.T. in Science Education in the College of Education. Specifically, the following materials must be submitted:
  - a. Undergraduate transcripts;
  - b. Evidence of possessing a degree in a science discipline (Biology, Chemistry, Physics, Geology, etc.) that is taught in a middle or high school, or comparable coursework in a science teaching field acceptable to the program faculty;
  - c. A bachelor's or higher degree in biology or a bachelor's or higher degree with thirty (30) semester hours in science to include twenty-one (21) semester hours in biology with associated laboratory experiences.
  - d. Documentation of GKT scores.
5. Students must earn a minimum of a "B" (3.00) in all graduate courses. Failure to earn at least a "B" in a graduate course will result in academic review by the graduate program. Failure to maintain a minimum 3.0 GPA will result in academic probation, according to the procedures of the USF Office of Graduate Studies.

A comprehensive plan of study to complete the accelerated B.S./M.A.T program will be developed with the guidance of an advisor and a faculty member. A possible plan of study could be as follows:

**Note:** Summer sessions may also be included in the study plan.

#### **First and Second Year**

Courses and credits as designated for freshman and sophomore years

#### **Third Year**

Apply for Admission to the Accelerated B.S./M.A.T. program

#### **Fourth Year**

**Student accepted in M.A.T. in Science Education program complete the following credits:**

- SCE 5325 Methods of Middle Grades Science Education
- SCE 5337 Methods of Secondary Science Education
- SCE 6456 Teaching Secondary School Physical and Earth Science
- SCE 6938 Topics in Science Education: Field Practicum

#### **Fifth Year**

- EDF 6432 Foundations of Measurement
- ESE 5342 Teaching the Adolescent Learner
- ESE 5344 Classroom Management for a Diverse School and Society
- SCE 5564 Reading and Communication in Science Education
- SCE 6416 Teaching Secondary School Biology
- SCE 6634 Current Trends in Secondary Science Education
- SCE 6947 Internship in Secondary Education for Social Science (PR: CI and passing scores of FTCE exam)
- TSL 5325 ESOL Education in Content Areas  
Comprehensive Examination

#### **Advising Information**

BioAdvise: SCA 203; (813) 974-3250

<http://biology.usf.edu/bioadvise/>

Email: [bioadvise@usf.edu](mailto:bioadvise@usf.edu)

## **ENVIRONMENTAL MICROBIOLOGY FACULTY**

*Chairperson:* V. Harwood; *Professors:* S. Bell, T. Crisman, V. Harwood, E. McCoy, P. Motta, H. Mushinsky, P. Stiling; *Associate Professors:* S. Deban, G. Fox, J. Rohr, K. Scott; *Assistant Professors:* L. Johnson, M. Lajeunesse, D. Lewis, L. Martin, L. Prevost, C. Richards; *Instructors:* C. Begin, C. Osovitz, B. Predmore.

- **B.S. - ENVIRONMENTAL SCIENCE AND POLICY (ESP)**  
**(CIP = 03.0104 - TRACK 1 OF 2)**  
**TOTAL DEGREE HOURS: 120**



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<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 program spans multiple colleges within the university but is housed in the Department of Geography in the College of Arts and Sciences. All majors in the program must complete the required courses including two introductory courses in environmental science and policy, one semester of calculus, two semesters each of general biology and general chemistry, environmental ethics, environmental politics and policy, statistics and physical science (either geology or physics). In addition, majors take 6-7 courses that allow them to sub-specialize in environmental science or in environmental policy. Students choosing to sub-specialize in environmental science take a second semester of calculus, one semester of organic chemistry and lab, and four electives within designated tracks. Students choosing to sub-specialize in policy take environmental law and environmental economics and four electives within designated categories. Finally, all majors must complete an upper division seminar and an internship or project. The department advisor advises ESP majors.

## STATE MANDATED COMMON COURSE PREREQUISITES

Students wishing to transfer to USF should complete the A.A. degree at the Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students are encouraged to complete the following required supporting major courses prior to entering the university. Unless stated otherwise, a grade of C- is the minimum acceptable grade.

BSC X010 and BSC 2010L Biology I and Lab  
BSC X011 and BSC 2011L Biology II and Lab  
CHM X045 & CHM 2045L General Chemistry I & Lab  
CHM X046 & CHM 2046L General Chemistry II & Lab  
STA X023 Statistics  
MAC X311 Calculus I

## REQUIREMENTS FOR THE MAJOR IN ENVIRONMENTAL SCIENCE AND POLICY TOTAL MAJOR HOURS: 61-77

### Major requirements for the B.S. Degree:

#### Major Core (43-52 hours)

##### Core Courses (39-48 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  
PUP 4203 Environmental Politics and Policy  
PHI 3640 Environmental Ethics  
EVR 4910 ESP Project or EVR 4940 ESP Internship  
EVR 4921 Environmental Science and Policy Seminar  
MAC 2311 Calculus I or MAC 2281 or MAC 2241  
STA 2023 Introductory Statistics

##### Geology or Physics (4 credit hours):

GLY 2010 Dynamic Earth and GLY 2000L Essentials of Geology Lab or  
GLY 2100 Historical Geology and GLY 2000L Essentials of Geology Lab or  
PHY 2048 General Physics I - Calculus Based and PHY 2048L General Physics I Lab or

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PHY 2053 General Physics I and PHY 2053L General Physics I 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.

### Policy Track (18-20 credit hours)

GEO 4502 Economic Geography

POS 3697 Environmental Law

Plus four (4) approved policy-related electives.

## 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 for Undergraduate Research will assist students in understanding the various course options.

## Advising Information

Please see <http://gep.usf.edu/ug/en/> and/or contact Katie Kosmoski, the Environmental Science and Policy Academic Advisor, for a current list of electives under these categories. She may be contacted via email at: [kkosmosk@usf.edu](mailto:kkosmosk@usf.edu); by phone at (813) 974-8962; and her office location is SCA 207.

All students majoring in Environmental Science and Policy are required to see the advisor (Katie Kosmoski - 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; [cmizak@usf.edu](mailto:cmizak@usf.edu)) six weeks prior to the beginning of the semester in which they will complete the internship.

## REQUIREMENTS FOR THE MINOR IN ENVIRONMENTAL POLICY (ESP) TOTAL MINOR HOURS: 19

A total of 19 credits are required for the minor in Environmental Policy.

### Minor Core (16 hours)

#### Required Core Courses (7 credit hours):

EVR 2002 Environmental Science

EVR 2001L Introduction to Environmental Science Lab

EVR 2861 Introduction to Environmental Policy

#### Three of the following four courses (9 credit hours):

PUP 4203 Environmental Politics and Policy

PHI 3640 Environmental Ethics

GEO 4502 Economic Geography

POS 3697 Environmental Law

### Minor Electives (3 hours)

Plus one approved policy-related elective.

## Residency Requirement

12 credits must be completed at USF.

## Advising Information

Please see <http://gep.usf.edu/ug/en/> and or contact Katie Kosmoski, the Environmental Science and Policy Academic Advisor, for a current list of electives.

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Katie Kosmoski can be contacted via email at: [kkosmosk@usf.edu](mailto:kkosmosk@usf.edu); by phone at (813) 974-8962; and her office location is SCA 207.

## ENVIRONMENTAL SCIENCE AND POLICY FACULTY

*Department Chairperson:* K. Archer; *Director:* P. Reeder; *Professors:* A. Njoh; *Associate Professors:* P. Reeder, E. Strom, P. van Beynen; J. Collins; *Assistant Professors:* F. Akiwumi, *Assistant Professors:* K. Alsharif, J. Downs; *Instructors:* M. Hafen, R. Jones, C. Mizak; L. Walker; *Adjuncts:* G. Anderson, D. Weir.

### • B.A. - FRENCH (FRE) (CIP = 16.0901)

**TOTAL DEGREE HOURS: 120**

<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, are 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*.

### STATE MANDATED COMMON COURSE PREREQUISITES

Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

To complete a major in French, students should demonstrate proficiency at the intermediate level within the target language. This may be accomplished by completing 6-12 hours within the language or by demonstrated competency at the intermediate level. If this coursework (or associated competency) is not completed at a Florida College System institution, it must be completed before the degree is granted. A grade of "C" is the minimum acceptable grade.

### REQUIREMENTS FOR THE MAJOR IN FRENCH

**TOTAL MAJOR HOURS: 33**

#### Major requirements for the B.A. Degree:

##### Major Core (15 hours)

The Core of the French major is composed of courses which promote all skills language and cultural proficiency.

FRE 2240	Intermediate Spoken French in Cultural Context
FRE 3420	Written French in Cultural Context
FRE 3234	Reading in French Literature and Culture
FRW 4100	The French Novel
FRW 4101	Introduction to French Drama and Poetry

##### Major Electives (18 hours)

Students should take 18 hours in 3000-, 4000-, or 5000-level courses planned with an advisor. Depending on semester offerings, these courses include a wide variety of possibilities, such as Business French, French Civilization, Advanced Written French in Cultural Context, Renaissance Literature: Art and War, French Linguistics, French Phonetics, French Translation, The Francophone World: A Global Culture, African and Caribbean Literatures, Quebec Literature, Medieval Literature, Classical Drama, Classical Prose and Poetry, and more.

French Civilization (FRE 3500) is the capstone course for the French major, which must be taken as one of the elective courses. FRT 3140 French Masterpieces in English and FRT 3001 Great French Love Stories both count for the Writing Intensive Requirement. Note that French majors are only allowed 3 credits in French Literature in Translation (FRT courses).

##### Residency Requirement

The French major has no residency requirement other than that of USF and the College of Arts and Sciences.

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## Other Requirements

The French major 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.

## Research Opportunities

Research Opportunities are plentiful, since our French faculty are all prolific researchers and guide students in research in classes. We also encourage students to take advantage of university-wide opportunities through Undergraduate Research and our department, World Languages, holds an annual WLE Research Colloquium at which both graduate and undergraduate students present their research.

## Internship Opportunities

France is the fourth largest foreign investor in the Tampa Bay area with approximately fifty French companies operating here. USF is a member of the regional French business organization, FRAMCO, and together with the College of Business, the French faculty has organized events bringing representatives of French companies to campus. We are happy to put students in touch with the President of FRAMCO and the Honorary French Consul, in order to investigate internship opportunities.

## OPTIONAL HONORS PROGRAM

French encourages talented students to apply to USF's Honors Program and often works with that program directing honors theses and participating in other events.

## Advising Information

The French faculty works with the WLE advisor to optimize student success.

Yury Riascos, [languagesadvise@usf.edu](mailto:languagesadvise@usf.edu)

## REQUIREMENTS FOR THE CONCENTRATION IN INTERNATIONAL STUDIES AND BUSINESS (IFB) TOTAL CONCENTRATION HOURS: 48

This French Language/International Studies and Business Concentration offers students an exciting well-rounded program for today's global society. Necessary "cultural baggage" in French promotes a graduate's success in fields related to International Studies (politics and government, for example) and in Business (global finance, for example).

### Concentration Core (48 hours)

*Supporting courses in French required for the major (9 credit hours): Choose from the list below:*

FRE 4421 Composition II  
FRE 4700 French Linguistics  
FRE 4930 Selected Topics  
FRE 5425 Advanced Written Expression  
FRE 5566 Contemporary France

*Required courses in International Studies (9 credit hours):*

CPO 2002 Introduction to Comparative Politics  
CPO 4930 Comparative Government & Politics of Select Areas  
EUS 3000 Europe

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

ACG 3074 Managerial Accounting for Non-Business Majors  
ECO 1000 Basic Economics  
FIN 3403 Principles of Finance  
MAN 3025 Principles of Management  
MAR 3023 Basic Marketing  
XXX XXXX Capstone Course TBD by Business

*Supporting courses in Business (6 credit hours):*

Choose any two (2) upper-level International Business courses.

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

Select six (6) overseas study credit hours or three (3) credit hours overseas study plus three (3) credit hours area studies courses planned with an advisor.

## Residency Requirement

The International Studies and Business concentration has no residency requirement other than that of USF and the College of Arts and Sciences.

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## Other Requirements

The French major 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.

## Research Opportunities

Research Opportunities are plentiful, since our French faculty are all prolific researchers and guide students in research in classes. We also encourage students to take advantage of university-wide opportunities through Undergraduate Research and our department, World Languages, holds an annual WLE Research Colloquium at which both graduate and undergraduate students present their research.

## Internship Opportunities

France is the fourth largest foreign investor in the Tampa Bay area with approximately fifty French companies operating here. USF is a member of the regional French business organization, FRAMCO, and together with the College of Business, the French faculty has organized events bringing representatives of French companies to campus. We are happy to put students in touch with the President of FRAMCO and the Honorary French Consul, in order to investigate internship opportunities.

## Advising Information

The WLE advisor works with advisors in International Studies and Business to optimize student success.

## REQUIREMENTS FOR THE 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*.

### 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.

Yury Riascos, [languagesadvise@usf.edu](mailto:languagesadvise@usf.edu).

## FRENCH FACULTY

*World Languages Chairperson:* S.K. Schindler; *Professors:* P. Brescia (Spanish), G.A. Brulotte (French), M. Camara (Spanish), V.E. Peppard (Russian), C.M. Probes (French), S.K. Schindler (German); *Associate Professors:* C.J. Cano (Spanish), M. Grieb (German), I. Kantzios (Classics), A. Latowsky (French), P. La Trecchia (Italian), E. Manolaraki (Classics), H. Scharm (Spanish), E. Shepherd (Chinese), K. Simeon-Jones (French), A. Thompson (Linguistics), C. Vasquez (Linguistics), W. Zhu (Linguistics); *Assistant Professors:* D. Arbesu (Spanish), M.H. Chiang (Chinese), A. Huensch (Linguistics), X. Qin (Chinese), N. Tracy-Ventura (Linguistics); *Instructors:* S. Amer (Arabic), M. Chineas-Thornberry (Spanish), F. Colleoni (Italian), C. Davies (Portuguese), A. De La Pava (Spanish), S. Huber (German), M. Manzur-Leiva (Spanish), M. Nozu (Japanese), A. Oh (Classics), O. Oleynik (Russian), S. Wohlmut (Spanish), Q. Wu (Chinese).

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## • B.A. - GEOGRAPHY (GPY) (CIP = 45.0701) TOTAL DEGREE HOURS: 120

<http://gep.usf.edu/ug/geo/>

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.

### STATE MANDATED COMMON COURSE PREREQUISITES

Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Two introductory courses in Geography with GEO prefix (6 credit hours) must be completed.

### REQUIREMENTS FOR THE MAJOR IN GEOGRAPHY TOTAL MAJOR HOURS: 38

#### Major requirements for the B.A. Degree:

##### Major Core (20 hours)

The degree program in Geography consists of at least 38 credit hours, 20 of which are associated with 7 core courses required of all majors. Students choose elective courses that should total at least 18 hours. Upper level electives offer applied and techniques orientations for students, depending on their interests, to complement the core course structure for the major.

Electives in physical geography focus on major environmental systems including the hydrosphere, atmosphere, geosphere, and biosphere. Particular emphasis is placed on the human modification of the natural environment and the global interconnections of the major earth systems.

Electives in human geography focus on the social and spatial effects of the growth of cities, including issues such as the historical evolution of urban form and function, land-use changes and conflicts, economic restructuring, the growth and decline of inner-cities, and urban racial and ethnic relations.

Courses **Excluded** as Electives for the major:

- GEO 1930 Geography of Current Events
- GEO 2371 Earth System Science

Only four (4) combined credit hours of the following courses may be applied toward the degree:

- GEO 4900 Directed Reading
- GEO 4910 Individual Research

#### Required core courses (7 courses + Physical Geography Lab):

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

Choose from:

- GEA 2000 World Regional Geography
- GEA 3194 Regional Geography
- GEA 3405 Geography of Latin America
- GEA 3500 Geography of Europe
- GEA 3703 Geography of Asia

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## Major Electives (18 hours)

With the help of their advisor, students must select from among the following list of courses to provide at least 18 credit hours of additional course work:

- GEO 3602 Urban Geography
- GEO 4114C Geographic Techniques & Methodology
- GEO 4204C Topics in Physical Geography
- GEO 4210 Process Geomorphology
- GEO 4244 Tropical Meteorology
- GEO 4265 Soil Genesis and Classification
- GEO 4280C Hydrology
- GEO 4284 Water Resources Management
- GEO 4300 Biogeography
- GEO 4340 Natural Hazards
- GEO 4372 Global Conservation
- GEO 4421 Cultural Geography
- GEO 4471 Political Geography
- GEO 4502 Economic Geography
- GEO 4604 Topics in Urban Geography
- GEO 4700 Transportation Geography
- GEO 4930 Selected Topics
- GIS 4035 Remote Sensing of the Environment
- MET 4002 Climatology
- MET 4012C Meteorology
- URP 4052 Urban & Regional Planning

## GPA Requirements

Students must maintain a minimum 2.0 major GPA in order to graduate.

## Grading Requirement

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 for 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.

## REQUIREMENTS FOR THE MINOR IN GEOGRAPHY (GPY)

**TOTAL MINOR HOURS: 19**

A minor in Geography consists of 19 credit hours.

### Minor Core (7 hours)

- GEO 2200 Introduction to Physical Geography
- GEO 2200L Introduction to Physical Geography Lab
- GEO 2400 Human Geography

### Minor Electives (12 hours)

- One GEA elective
- Three upper-level electives (3000-5000 level) with prefixes in GEO, GIS, MET.

## GPA Requirements

A minimum grade-point average of 2.00 is required.

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## Other Information

Students may not apply upper-level Geography electives to the Geography minor if these electives are being used to satisfy their requirements in another major.

## GEOGRAPHY FACULTY

*Chairperson:* J. Chakraborty; *Full Professors:* J. Chakraborty; *Associate Professors:* P. Basu, M. Bosman, R. Pu, S. Reader; *Instructors:* E. Warren.

### • B.S. - GEOLOGY (GLS) (CIP = 40.0601 - TRACK 1 OF 2)

**TOTAL DEGREE HOURS: 120**

<http://hennarot.forest.usf.edu/main/depts/geosci/>

The Bachelor of Science degree program provides the student with a hands-on foundation in the fundamentals of the geosciences.

## STATE MANDATED COMMON COURSE PREREQUISITES

Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet USF's Foundations of Knowledge and Learning (FKL) core curriculum requirements, thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they (or their equivalents) must be completed before the degree is granted. Unless stated otherwise, a grade of C is the minimum acceptable grade.

CHM X045/X045L General Chemistry I (with lab) or CHM X045C or CHM X040/X041

CHM X046/X046L General Chemistry II (with lab) or CHM X046C

GLY X010C Introduction to Physical Geology or GLY X010/X010L

MAC X311 Calculus I or MTH X281

PHY X048C\* General Physics and Laboratory I or PHY X048/X048L or PHY X053C

PHY X049C\* General Physics and Laboratory II or PHY X049/X049L or PHY X054C

XXX XXXX Historical Geology STRONGLY recommended

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

## REQUIREMENTS FOR THE MAJOR IN GEOLOGY

**TOTAL MAJOR HOURS: 98-104**

### Major requirements for the B.S. Degree:

#### Major Core (64 hours)

Others may be approved by the undergraduate advisor.

#### 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

\*Transfer students who have taken GLY 2010C or GLY 2100C or the equivalent will be deemed to have met the introductory sequence requirements. However, ALL students are strongly encouraged to take GLY 2000L, as this course will greatly facilitate success in the upper-level offerings.

#### Core Courses (20 hours):

GLY 3311C The Solid Earth: Petrology and Geochemistry

GLY 3402C The Solid Earth: Plate Tectonics and Earth Structure

GLY 3552C Sedimentary Record 1: Sedimentary Processes and Petrology

GLY 3720C Fluid Earth 1: Basic Principles or

GLY 4822C Fluid Earth 2: Hydrogeology

GLY 4104C Sedimentary Record 3: Paleontology and Earth Evolution\*



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\*(Requirement is waived for students who have taken GLY 2010, GLY 2000L or GLY 2010L, and GLY 2100, GLY 2100L.)

## Quantitative Requirement (6 credit hours):

Of these electives, at least six hours must be drawn from courses identified by the department as including high - quantitative content. Courses which meet this requirement include:

GLY 4866 Computational Geology  
GLY 4822C Fluid Earth 2: Hydrogeology  
GLY 4324C Physical Volcanology  
GLY 4480C Seismology

## Capstone Sequence (6 credit hours):

GLY 4947L Practical and Applied Geology: Laboratory Experience  
GLY 4948L Practical and Applied Geology: Field Experience  
GLY 4949L Practical and Applied Geology: Computational Experience  
One (1) credit of each of these labs and any combination for the remaining three (3) credits, or an approved Geology field course.

## Supporting Courses (28 hours):

BSC 2010 Cellular Processes  
BSC 2010L Cellular Processes Laboratory  
CHM 2045 General Chemistry I  
CHM 2045L General Chemistry I Laboratory  
CHM 2046 General Chemistry II  
CHM 2046L General Chemistry II Laboratory  
MAC 2281 and MAC 2282 (recommended)] or  
MAC 2241 and MAC 2242 or  
MAC 2311 and MAC 2312  
PHY 2048, PHY 2048L, PHY 2049, PHY 2049L (recommended) or  
PHY 2053, PHY 2053L, PHY 2054, PHY 2054L

## Major Electives (34-40 hours)

### Upper-Level Electives (15 hours):

GLY 4554C Sedimentary Record 2: The Earth's Surface  
GLY 4104C Sedimentary Record 3: Paleontology and Earth Evolution (if not counted toward core requirements above)  
GLY 4324C Physical Volcanology  
GLY 4480C Seismology  
GLY 3720C Fluid Earth 1: Basic Principles or  
GLY 4822C Fluid Earth 2: Hydrogeology (if not counted toward Core requirements above)  
GLY 4310C Petrology  
GLY 4866 Computational Geology  
GLY 4921 Geocommunications  
GLY 4780 Geologic Field Studies  
And/or other 3000- or 4000-level GLY course, as approved by the undergraduate advisor

### • Free Electives (19-25 hours)

- The student will choose, in consultation with his/her Geology advisor, such courses in the natural sciences that support his/her major interest in the field of geology. Courses in computer programming and additional mathematics courses are of particular value. Those students who anticipate continuing for a doctorate in graduate school are encouraged to take a foreign language, preferably French, German, or Russian.

## 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 for Undergraduate Research](#) will assist students in understanding the various course options.

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## 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.

### • 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 the subject, but who is not preparing for a career in the field, or for the pre-professional school student. A student who elects the B.A. program and decides to pursue the geology profession or attend graduate school will need at least physics and field geology in his/her program.

## STATE MANDATED COMMON COURSE PREREQUISITES

Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet USF's Foundations of Knowledge and Learning (FKL) core curriculum requirements, thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they (or their equivalents) must be completed before the degree is granted. Unless stated otherwise, a grade of C is the minimum acceptable grade.

CHM X045/X045L General Chemistry I (with lab) or CHM X045C or CHM X040/X041

CHM X046/X046L General Chemistry II (with lab) or CHM X046C

GLY X010C Introduction to Physical Geology or GLY X010/X010L

MAC X311 Calculus I or MTH X281

PHY X048C\* General Physics and Laboratory I or PHY X048/X048L or PHY X053C

PHY X049C\* General Physics and Laboratory II or PHY X049/X049L or PHY X054C

XXX XXXX Historical Geology STRONGLY recommended

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

## REQUIREMENTS FOR THE MAJOR IN GEOLOGY

TOTAL MAJOR HOURS: 60

### Major requirements for the B.A. Degree:

#### Major Core (48 hours)

\*Transfer students who have taken GLY 2010C or GLY 2100C or the equivalent will be deemed to have met the introductory sequence requirements. However, ALL students are strongly encouraged to take GLY 2000L, as this course will greatly facilitate success in the upper-level offerings.

#### • Introductory Sequence\* (4 credit hours):

a. 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

b. GLY 2000L Essentials of Geology Laboratory

#### • Core Courses (20 credit hours):

GLY 3311C The Solid Earth: Petrology and Geochemistry

GLY 3402C The Solid Earth: Plate Tectonics and Earth Structure

GLY 3552C Sedimentary Record 1: Sedimentary Processes and Petrology

GLY 3720C Fluid Earth 1: Basic Principles or

GLY 4822C Fluid Earth 2: Hydrogeology

GLY 4104C Sedimentary Record 3: Paleontology and Earth Evolution\*

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\*(Requirement is waived for students who have taken GLY 2010, GLY 2000L or GLY 2010L, and GLY 2100, GLY 2100L.)

• **Supporting Courses (24 hours):**

CHM 2045 General Chemistry I  
CHM 2045L General Chemistry I Laboratory  
CHM 2046 General Chemistry II  
CHM 2046L General Chemistry II Laboratory  
MAC 2281 and MAC 2282 (recommended) or  
MAC 2241 and MAC 2242 or  
MAC 2311 and MAC 2312  
PHY 2048, PHY 2048L, PHY 2049, PHY 2049L (recommended) or  
PHY 2053, PHY 2053L, PHY 2054, PHY 2054L

**Major Electives (12 hours)**

• **Upper-Level Electives (12 credit hours):**

GLY 4554C Sedimentary Record 2: The Earth's Surface  
GLY 4104C Sedimentary Record 3: Paleontology and Earth Evolution (if not counted toward core requirements above)  
GLY 4324C Physical Volcanology  
GLY 4480C Seismology  
GLY 3720C Fluid Earth 1: Basic Principles or GLY 4822C Fluid Earth 2: Hydrogeology (if not counted toward core requirements above)  
GLY 4310 Petrology  
GLY 4822C Fluid Earth 2: Hydrogeology  
GLY 4866 Computational Geology  
GLY 4921 Geocommunications  
GLY 4780 Geologic Field Studies  
And/or other 3000- or 4000-level GLY course, as approved by the undergraduate advisor

**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 for Undergraduate Research](#) will assist students in understanding the various course options.

## REQUIREMENTS FOR THE MINOR IN GEOLOGY (GLY)

### TOTAL MINOR HOURS: 16

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)**

Any three Geology Core courses.

**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.

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## GEOLOGY FACULTY

*Chairperson:* J.G. Ryan; *Assistant Chairperson:* P. Wang; *Professors:* C. Connor, P.J. Harries, J.G. Ryan; M.T. Stewart, H.L. Vacher; *Associate Professors:* G.S. Herbert, S.E. Kruse, B. Onac, M. Rains, P. Wang, P. Wetmore; *Assistant Professors:* R. Malservisi, M. Pasek, J. Wynn; *Instructors:* J. Gould, J. McIlrath, T.C. Juster; *Adjunct Faculty:* E. Rodriguez; *Research Associates:* Z. Atlas, L. Connor; *Courtesy Faculty:* C. Bonadonna, R. Denicourt, R.M. Olney, T. Pichler, D. Roman, V. Sales, S. Sandberg, T.M. Scott, J. Sorauf, S. Upchurch, K. Watson; *Assistant Curator:* R. Campbell, G. Vest; *Emeritus Distinguished Professor:* R.A. Davis.

### • B.A. - GERMAN STUDIES (GMS) (CIP = 16.0501) TOTAL DEGREE HOURS: 120

<http://languages.usf.edu/undergraduate/german/>

### STATE MANDATED COMMON COURSE PREREQUISITES

Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

To complete a major in German Studies, students should demonstrate proficiency at the intermediate level within the target language. This may be accomplished by completing 6-12 hours within the language or by demonstrated competency at the intermediate level. If this coursework (or associated competency) is not completed at a Florida College System institution, it must be completed before the degree is granted. A grade of "C" is the minimum acceptable grade.

### REQUIREMENTS FOR THE MAJOR IN GERMAN STUDIES TOTAL MAJOR HOURS: 32

#### Major requirements for the B.A. Degree:

##### Major Core (11 hours)

- Select nine (9) hours of 3000- or 4000-level coursework in German (taught in German)
- GEW 4900 Directed Study or FLE 4316 Language Principles of Acquisition

##### Major Electives (21 hours)

Select 21 hours in 2000-, 3000- or 4000-level courses with coursework in German, including approved courses in related disciplines, planned with an advisor.

#### 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 for Undergraduate Research](#) will assist students in understanding the various course options.

### REQUIREMENTS FOR THE MINOR IN GERMAN STUDIES (GMS) TOTAL MINOR HOURS: 15

<http://languages.usf.edu/undergraduate/german/>

##### 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.

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UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

## GERMAN STUDIES FACULTY

*Chairperson:* S.K. Schindler; *Professors:* G.A. Brulotte, M. Camara, V.E. Peppard, C.M. Probes; *Associate Professors:* P. Brescia, C.J. Cano, M. Grieb, I. Kantzios, P. La Trecchia, K. Simeon-Jones, C. Vasquez, W. Zhu; *Assistant Professors:* D. Arbesu, M.H. Chiang, A. Huensch, A. Latowsky, E. Manolaraki, C. Polt, X. Qin, H. Scharm, E. Shepherd, A. Thompson, N. Tracy-Ventura; *Instructors:* S. Amer, M. China-Thornberry, C. Davies, A. De La.

### • B.S. - HEALTH SCIENCES (HLS) (CIP = 51.0000)

**TOTAL DEGREE HOURS: 120**

<http://biology.usf.edu/cmmb/undergrad/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 a greater social sciences, business and humanities focus than the more natural science and mathematics intensive degrees required for the professional schools in medicine, dentistry, pharmacy or veterinary medicine; for these see the health professions section in this catalog).

### STATE MANDATED COMMON COURSE PREREQUISITES

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The state mandated prerequisites are included in the core requirements for the degree.

BSC XXXXC or BSC X007/X007L or BSC X005/X005L or BSC X010/X010L

MAC X105

PSY X012

STA XXX or STA X023 or STA X014

DEP X053 or DEP X004 or DEP X000 or CLP X140

APK X0105C or BSC X085/X085L or (BSC X093 and BSC X094)

ENC X210 or ENC X254

### REQUIREMENTS FOR THE MAJOR IN HEALTH SCIENCES

**TOTAL MAJOR HOURS: 64**

#### Major requirements for the B.S. Degree:

##### Major Core (34 hours)

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

BSC 2085 and BSC 2085L Anatomy and Physiology I for Health Professions and Lab or

BSC 2093 Human Anatomy and Physiology I and BSC 2094 Human Anatomy and Physiology II and Lab

MAC 1105 College Algebra

STA 2023 Introductory Statistics I

HSC 2000 Introduction to Health Professions

ENC 2210 Technical Writing

DEP 2004 The Life Cycle

PHI 3633 Biomedical Ethics or PHI 3636 Professional Ethics

CLT 3040 Scientific and Medical Terminology

PSY 2012 Introduction to Psychological Science

COM 2000 Introduction to Communication or ACG 2021 Principles of Financial Accounting or ANT 2511

Biological Anthropology or GEY 2000 Introduction to Gerontology or SYG 2000 Introduction to Sociology

#### Residency Requirement

A minimum of 20 credit hours of courses must be taken in residency at USF-Tampa and be applicable to the major.

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## 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.

## Internship Opportunities

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 (BSC 4933) prior to applying for the internships. Placement applications and information are available upon completion of the course. Internships are restricted to health sciences majors only and a permit is required for registration. Please email [hhsadvise@usf.edu](mailto: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 Public Affairs  
[hhsadvise@usf.edu](mailto:hhsadvise@usf.edu)

## HEALTH SCIENCES CONCENTRATIONS

### REQUIREMENTS FOR THE CONCENTRATION IN AGING HEALTH STUDIES (HAH) (CIP = 51.0000 - TRACK 1 OF 7)

TOTAL CONCENTRATION HOURS: 30

<http://www.spa.usf.edu/undergraduate/health/>

#### 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	Gerontological Case Management
MHS 4931	Selected Topics (see advisor for approval)
GEY 4327	Understanding Policy and Practice in Long Term Care
GEY 4360	Gerontological Counseling
GEY 4608	Alzheimer's Disease Management
GEY 4628	Race, Ethnicity, and Aging
GEY 4641	Death and Dying
GEY 4935	Special Topics in Gerontology
HSC 4211	Health, Behavior & Society
HSC 4630	Understanding US Healthcare
PHC 4931	Health Care Ethics

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SPA 3002 Introduction to Disorders of Speech and Language

## REQUIREMENTS FOR THE CONCENTRATION IN AGING HEALTH STUDIES AND HEALTH INFORMATION TECHNOLOGY (HIT) TOTAL CONCENTRATION HOURS: 30

### 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 Gerontological Case Management  
MHS 4931 Selected Topics (see advisor for approval)  
GEY 4327 Understanding Policy and Practice in Long Term Care  
GEY 4360 Gerontological Counseling  
GEY 4608 Alzheimer's Disease Management  
GEY 4628 Race, Ethnicity, and Aging  
GEY 4641 Death and Dying  
GEY 4935 Special Topics in Gerontology  
HSC 4211 Health, Behavior & Society  
HSC 4630 Understanding US Healthcare  
PHC 4931 Health Care Ethics  
SPA 3002 Introduction to Disorders of Speech and Language

Health Information Technology courses (students must take 15 hours from this list)

ISM 3113 Systems Analysis and Design  
LIS 3352 Interaction Design  
LIS 3353 IT Concepts for Information Professionals  
LIS 3361 World Wide Web Page Design and Management  
LIS 3783 Information Architecture or LIS 4365 Web Design Technologies  
LIS 4204 Information Behaviors  
LIS 4414 Information Policy and Ethics  
LIS 4482 Networks and Communication  
LIS 4930 Selected Topics in Information Studies (see advisor for approval)  
EEL 4935 Special Electrical Engineering Topics I  
PAD 4712 Managing Information Resources in the Public Sector

## REQUIREMENTS FOR THE CONCENTRATION IN AGING HEALTH STUDIES AND HEALTH MANAGEMENT (HAM) TOTAL CONCENTRATION HOURS: 30

### 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 Gerontological Case Management  
MHS 4931 Selected Topics (see advisor for approval)  
GEY 4327 Understanding Policy and Practice in Long Term Care  
GEY 4360 Gerontological Counseling  
GEY 4608 Alzheimer's Disease Management  
GEY 4628 Race, Ethnicity, and Aging  
GEY 4641 Death and Dying  
GEY 4935 Special Topics in Gerontology  
HSC 4211 Health, Behavior & Society  
HSC 4630 Understanding US Healthcare  
PHC 4931 Health Care Ethics  
SPA 3002 Introduction to Disorders of Speech and Language

Health Management courses (students must take 15 hours from this list):

ACG 2071 Principles of Managerial Accounting

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GEY 4635	Business Management in an Aging Society
PHC 4101	Introduction to Public Health
HSC 4211	Health, Behavior & Society
HSC 4624	Foundations of Global Health
HSC 4933	Special Topics in Public Health (see advisor for approval)
MAN 3025	Principles of Management
PAD 3003	Introduction to Public Administration
PAD 4204	Public Financial Administration
PAD 4415	Personnel and Supervision
PAD 4712	Managing Information Resources in the Public Sector
PHC 4931	Health Care Ethics
PHI 3636	Professional Ethics
PUP 4002	Public Policy
SYO 4400	Medical Sociology

## REQUIREMENTS FOR THE CONCENTRATION IN BIOLOGICAL HEALTH SCIENCES (HBH) (CIP = 51.0000 - TRACK 1 OF 7) TOTAL CONCENTRATION HOURS: 30

### 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 4520C	Forensic Anthropology
ANT 4462	Health, Illness, and Culture
BSC 3022	Biology of Aging
BSC 4933	Selected Topics in Biology (see advisor for approval)
CHM 2023	Chemistry for Today
CHM 2045	General Chemistry I and CHM 2045L General Chemistry Laboratory
CHM 2046	General Chemistry II and CHM 2046L General Chemistry Laboratory
GEY 3601	Physical Changes and Aging
HSC 3541	Human Structure & Function
HSC 4430	Occupational Health and Safety
HSC 4504	Foundations of Public Health Immunology
HSC 4551	Survey of Human Disease
HSC 4573	Foundations of Food Safety
HSC 4624	Foundations of Global Health
HSC 4933	Special Topics in Public Health (see advisor for approval)
HUN 3296	Nutrition and Disease
HUN 3272	Sports Nutrition
LIS 4930	Selected Topics in Information Studies (see advisor for approval)
PCB 3063/PCB3063L	General Genetics with Lab
PHC 3320	Environmental Health Science
PHC 4030	Introduction to Epidemiology
PHC 4101	Introduction to Public Health
PHC 406	Pop Culture, Vices, and Epidemiology
PHY 2020	Conceptual Physics or PHY 2053/PHY 2053L Physics I with Lab
PHY 2054/PHY 2054L	Physics II with Lab
ZOO 4512	Sociobiology

### Communication Sciences & Disorders Cluster

SPA 3030	Introduction to Hearing Science
SPA 3101	Anatomy and Physiology of the Speech & Hearing Mechanism
SPA 3002	Introduction to Disorders of Speech and Language
SPA 3004	Introduction to Language Development and Disorders
SPA 4104	Neuroanatomy of Speech, Language & Hearing

## REQUIREMENTS FOR THE CONCENTRATION IN BIOLOGICAL HEALTH SCIENCES AND AGING HEALTH STUDIES (HBA)



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## TOTAL CONCENTRATION HOURS: 30

### Concentration Core (30 hours)

Biological Health Sciences courses (students must take 15 hours from this list):

- ANT 4520C Forensic Anthropology
- ANT 4462 Health, Illness, and Culture
- BSC 3022 Biology of Aging
- BSC 4933 Selected Topics in Biology (see advisor for approval)
- CHM 2023 Chemistry for Today
- CHM 2045 General Chemistry I and CHM 2045L General Chemistry Laboratory
- CHM 2046 General Chemistry II and CHM 2046L General Chemistry Laboratory
- GEY 3601 Physical Changes and Aging
- HSC 3541 Human Structure & Function
- HSC 4430 Occupational Health and Safety
- HSC 4504 Foundations of Public Health Immunology
- HSC 4551 Survey of Human Disease
- HSC 4573 Foundations of Food Safety
- HSC 4624 Foundations of Global Health
- HSC 4933 Special Topics in Public Health (see advisor for approval)
- HUN 3296 Nutrition and Disease
- HUN 3272 Sports Nutrition
- LIS 4930 Selected Topics in Information Studies (see advisor for approval)
- PCB 3063/PCB 3063L General Genetics with Lab
- PHC 3320 Environmental Health Science
- PHC 4030 Introduction to Epidemiology
- PHC 4101 Introduction to Public Health
- PHC 4406 Pop Culture, Vices, and Epidemiology
- PHY 2020 Conceptual Physics or PHY 2053/PHY 2053L Physics I with Lab
- PHY 2054/PHY 2054L Physics II with Lab
- ZOO 4512 Sociobiology

### Communication Sciences & Disorders Cluster

- SPA 3030 Introduction to Hearing Science
- SPA 3101 Anatomy and Physiology of the Speech & Hearing Mechanism
- SPA 3002 Introduction to Disorders of Speech and Language
- SPA 3004 Introduction to Language Development and Disorders
- SPA 4104 Neuroanatomy of Speech, Language & Hearing

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 Gerontological Case Management
- MHS 4931 Selected Topics (see advisor for approval)
- GEY 4327 Understanding Policy and Practice in Long Term Care
- GEY 4360 Gerontological Counseling
- GEY 4608 Alzheimer's Disease Management
- GEY 4628 Race, Ethnicity, and Aging
- GEY 4641 Death and Dying
- GEY 4935 Special Topics in Gerontology
- HSC 4211 Health, Behavior & Society
- HSC 4630 Understanding US Healthcare
- PHC 4931 Health Care Ethics
- SPA 3002 Introduction to Disorders of Speech and Language

## REQUIREMENTS FOR THE CONCENTRATION IN BIOLOGICAL HEALTH SCIENCES AND HEALTH INFORMATION TECHNOLOGY (HBI)

TOTAL CONCENTRATION HOURS: 30

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## Concentration Core (30 hours)

Biological Health Sciences courses (students must take 15 hours from this list):

- ANT 4520C Forensic Anthropology
- ANT 4462 Health, Illness, and Culture
- BSC 3022 Biology of Aging
- BSC 4933 Selected Topics in Biology (see advisor for approval)
- CHM 2023 Chemistry for Today
- CHM 2045 General Chemistry I and CHM 2045L General Chemistry Laboratory
- CHM 2046 General Chemistry II and CHM 2046L General Chemistry Laboratory
- GEY 3601 Physical Changes and Aging
- HSC 3541 Human Structure & Function
- HSC 4430 Occupational Health and Safety
- HSC 4504 Foundations of Public Health Immunology
- HSC 4551 Survey of Human Disease
- HSC 4573 Foundations of Food Safety
- HSC 4624 Foundations of Global Health
- HSC 4933 Special Topics in Public Health (see advisor for approval)
- HUN 3296 Nutrition and Disease
- HUN 3272 Sports Nutrition
- LIS 4930 Selected Topics in Information Studies (see advisor for approval)
- PCB 3063/PCB 3063L General Genetics with Lab
- PHC 3320 Environmental Health Science
- PHC 4030 Introduction to Epidemiology
- PHC 4101 Introduction to Public Health
- PHC 4406 Pop Culture, Vices, and Epidemiology
- PHY 2020 Conceptual Physics or PHY 2053/PHY 2053L Physics I with Lab
- PHY 2054/PHY 2054L Physics II with Lab
- ZOO 4512 Sociobiology

### *Communication Sciences & Disorders Cluster*

- SPA 3030 Introduction to Hearing Science
- SPA 3101 Anatomy and Physiology of the Speech & Hearing Mechanism
- SPA 3002 Introduction to Disorders of Speech and Language
- SPA 3004 Introduction to Language Development and Disorders
- SPA 4104 Neuroanatomy of Speech, Language & Hearing

Health Information Technology courses (students must take 15 hours from this list)

- ISM 3113 Systems Analysis and Design
- LIS 3352 Interaction Design
- LIS 3353 IT Concepts for Information Professionals
- LIS 3361 World Wide Web Page Design and Management
- LIS 3783 Information Architecture or LIS 4365 Web Design Technologies
- LIS 4204 Information Behaviors
- LIS 4414 Information Policy and Ethics
- LIS 4482 Networks and Communication
- LIS 4930 Selected Topics in Information Studies (see advisor for approval)
- EEL 4935 Special Electrical Engineering Topics I
- PAD 4712 Managing Information Resources in the Public Sector

## REQUIREMENTS FOR THE CONCENTRATION IN BIOLOGICAL HEALTH SCIENCES AND HEALTH MANAGEMENT (HBM)

**TOTAL CONCENTRATION HOURS: 30**

### Concentration Core (30 hours)

Biological Health Sciences courses (students must take 15 hours from this list):

- ANT 4520C Forensic Anthropology
- ANT 4462 Health, Illness, and Culture
- BSC 3022 Biology of Aging
- BSC 4933 Selected Topics in Biology (see advisor for approval)
- CHM 2023 Chemistry for Today
- CHM 2045 General Chemistry I and CHM 2045L General Chemistry Laboratory
- CHM 2046 General Chemistry II and CHM 2046L General Chemistry Laboratory

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- GEY 3601 Physical Changes and Aging
  - HSC 3541 Human Structure & Function
  - HSC 4430 Occupational Health and Safety
  - HSC 4504 Foundations of Public Health Immunology
  - HSC 4551 Survey of Human Disease
  - HSC 4573 Foundations of Food Safety
  - HSC 4624 Foundations of Global Health
  - HSC 4933 Special Topics in Public Health (see advisor for approval)
  - HUN 3296 Nutrition and Disease
  - HUN 3272 Sports Nutrition
  - LIS 4930 Selected Topics in Information Studies (see advisor for approval)
  - PCB 3063/PCB 3063L General Genetics with Lab
  - PHC 3320 Environmental Health Science
  - PHC 4030 Introduction to Epidemiology
  - PHC 4101 Introduction to Public Health
  - PHC 4406 Pop Culture, Vices, and Epidemiology
  - PHY 2020 Conceptual Physics or PHY 2053/PHY 2053L Physics I with Lab
  - PHY 2054/PHY 2054L Physics II with Lab
  - ZOO 4512 Sociobiology
- Communication Sciences & Disorders Cluster*
- SPA 3030 Introduction to Hearing Science
  - SPA 3101 Anatomy and Physiology of the Speech & Hearing Mechanism
  - SPA 3002 Introduction to Disorders of Speech and Language
  - SPA 3004 Introduction to Language Development and Disorders
  - SPA 4104 Neuroanatomy of Speech, Language & Hearing
- 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
  - PHC 4101 Introduction to Public Health
  - HSC 4211 Health, Behavior & Society
  - HSC 4624 Foundations of Global Health
  - HSC 4933 Special Topics in Public Health (see advisor for approval)
  - MAN 3025 Principles of Management
  - PAD 3003 Introduction to Public Administration
  - PAD 4204 Public Financial Administration
  - PAD 4415 Personnel and Supervision
  - PAD 4712 Managing Information Resources in the Public Sector
  - PHC 4931 Health Care Ethics
  - PHI 3636 Professional Ethics
  - PUP 4002 Public Policy
  - SYO 4400 Medical Sociology

## REQUIREMENTS FOR THE CONCENTRATION IN BIOLOGICAL HEALTH SCIENCES AND SOCIAL AND BEHAVIORAL HEALTH SCIENCES (HSB)

**TOTAL CONCENTRATION HOURS: 30**

### Concentration Core (30 hours)

Biological Health Sciences courses (students must take 15 hours from this list):

- ANT 4520C Forensic Anthropology
- ANT 4462 Health, Illness, and Culture
- BSC 3022 Biology of Aging
- BSC 4933 Selected Topics in Biology (see advisor for approval)
- CHM 2023 Chemistry for Today
- CHM 2045 General Chemistry I and CHM 2045L General Chemistry Laboratory
- CHM 2046 General Chemistry II and CHM 2046L General Chemistry Laboratory
- GEY 3601 Physical Changes and Aging
- HSC 3541 Human Structure & Function

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HSC	4430	Occupational Health and Safety
HSC	4504	Foundations of Public Health Immunology
HSC	4551	Survey of Human Disease
HSC	4573	Foundations of Food Safety
HSC	4624	Foundations of Global Health
HSC	4933	Special Topics in Public Health (see advisor for approval)
HUN	3296	Nutrition and Disease
HUN	3272	Sports Nutrition
LIS	4930	Selected Topics in Information Studies (see advisor for approval)
PCB	3063/PCB 3063L	General Genetics with Lab
PHC	3320	Environmental Health Science
PHC	4030	Introduction to Epidemiology
PHC	4101	Introduction to Public Health
PHC	4406	Pop Culture, Vices, and Epidemiology
PHY	2020	Conceptual Physics or PHY 2053/PHY 2053L Physics I with Lab
PHY	2054/PHY 2054L	Physics II with Lab
ZOO	4512	Sociobiology

#### *Communication Sciences & Disorders Cluster*

SPA	3030	Introduction to Hearing Science
SPA	3101	Anatomy and Physiology of the Speech & Hearing Mechanism
SPA	3002	Introduction to Disorders of Speech and Language
SPA	3004	Introduction to Language Development and Disorders
SPA	4104	Neuroanatomy of Speech, Language & Hearing

Social and Behavioral Health Sciences courses (students must take 15 hours from this list):

CLP	4143	Abnormal Psychology
COM	4022	Health Communication
COM	4020	Communicating Illness, Grief and Loss
COM	4225	Global and Cultural Health Communication
HSC	4172	Women's Health: A Public Health Perspective
HSC	4211	Health, Behavior and Society
HSC	4579	Foundations of Maternal & Child Health
HSC	4631	Critical Issues in Public Health
HSC	4933	Special Topics in Public Health (see advisor for approval)
LIS	4930	Selected Topics in Information Studies (see advisor for approval)
PHI	4930	Selected Topics
SOP	4330	Social Psychology of HIV/AIDS
SOW	3203	Introduction to Social Work
SPC	4321	Communication and Aging
SYO	4400	Medical Sociology
WST	4320	The Politics of Women's Health

#### *Mental Health Cluster*

MHS	3411	Multidisciplinary Behavioral Healthcare Services
MHS	4002	Behavioral Health Systems Delivery
MHS	4408	Exemplary Practices in Behavioral Healthcare Treatment
MHS	4931	Selected Topics (see advisor for approval)
MHS	4703	Legal, Ethical and Professional Issues in Behavioral Healthcare

#### *Substance Abuse Cluster*

MHS	3411	Multidisciplinary Behavioral Healthcare Services
MHS	4408	Exemplary Practices in Behavioral Healthcare Treatment
MHS	4931	Selected Topics (see advisor for approval)
MHS	4703	Legal, Ethical and Professional Issues in Behavioral Healthcare
PSB	3444	Drugs and Behavior

**REQUIREMENTS FOR THE CONCENTRATION IN HEALTH  
INFORMATION TECHNOLOGY (HHI) (CIP = 51.0000 - TRACK 1 OF 7)  
TOTAL CONCENTRATION HOURS: 30**

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## 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	3352	Interaction Design
LIS	3353	IT Concepts for Information Professionals
LIS	3361	World Wide Web Page Design and Management
LIS	3783	Information Architecture or LIS 4365 Web Design Technologies
LIS	4204	Information Behaviors
LIS	4414	Information Policy and Ethics
LIS	4482	Networks and Communication
LIS	4930	Selected Topics in Information Studies (see advisor for approval)
EEL	4935	Special Electrical Engineering Topics I
PAD	4712	Managing Information Resources in the Public Sector

## REQUIREMENTS FOR THE CONCENTRATION IN HEALTH MANAGEMENT (HHM) (CIP = 51.0000 - TRACK 1 OF 7) TOTAL CONCENTRATION HOURS: 30

### 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
PHC	4101	Introduction to Public Health
HSC	4211	Health, Behavior & Society
HSC	4624	Foundations of Global Health
HSC	4933	Special Topics in Public Health (see advisor for approval)
MAN	3025	Principles of Management
PAD	3003	Introduction to Public Administration
PAD	4204	Public Financial Administration
PAD	4415	Personnel and Supervision
PAD	4712	Managing Information Resources in the Public Sector
PHC	4931	Health Care Ethics
PHI	3636	Professional Ethics
PUP	4002	Public Policy
SYO	4400	Medical Sociology

## REQUIREMENTS FOR THE CONCENTRATION IN HEALTH MANAGEMENT AND HEALTH INFORMATION TECHNOLOGY (HMT) TOTAL CONCENTRATION HOURS: 30

### 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
PHC	4101	Introduction to Public Health
HSC	4211	Health, Behavior & Society
HSC	4624	Foundations of Global Health
HSC	4933	Special Topics in Public Health (see advisor for approval)
MAN	3025	Principles of Management
PAD	3003	Introduction to Public Administration
PAD	4204	Public Financial Administration
PAD	4415	Personnel and Supervision
PAD	4712	Managing Information Resources in the Public Sector
PHC	4931	Health Care Ethics
PHI	3636	Professional Ethics

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PUP	4002	Public Policy
SYO	4400	Medical Sociology
Health Information	Technology courses (students must take 15 hours from this list)	
ISM	3113	Systems Analysis and Design
LIS	3352	Interaction Design
LIS	3353	IT Concepts for Information Professionals
LIS	3361	World Wide Web Page Design and Management
LIS	3783	Information Architecture or LIS 4365 Web Design Technologies
LIS	4204	Information Behaviors
LIS	4414	Information Policy and Ethics
LIS	4482	Networks and Communication
LIS	4930	Selected Topics in Information Studies (see advisor for approval)
EEL	4935	Special Electrical Engineering Topics I
PAD	4712	Managing Information Resources in the Public Sector

## REQUIREMENTS FOR THE CONCENTRATION IN SOCIAL AND BEHAVIORAL HEALTH SCIENCES (HBS) (CIP = 51.0000 - TRACK 1 OF 7) TOTAL CONCENTRATION HOURS: 30

### 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	4022	Health Communication
COM	4020	Communicating Illness, Grief and Loss
COM	4225	Global and Cultural Health Communication
HSC	4172	Women's Health: A Public Health Perspective
HSC	4211	Health, Behavior and Society
HSC	4579	Foundations of Maternal & Child Health
HSC	4631	Critical Issues in Public Health
HSC	4933	Special Topics in Public Health (see advisor for approval)
LIS	4930	Selected Topics in Information Studies (see advisor for approval)
PHI	4930	Selected Topics
SOP	4330	Social Psychology of HIV/AIDS
SOW	3203	Introduction to Social Work
SPC	4321	Communication and Aging
SYO	4400	Medical Sociology
WST	4320	The Politics of Women's Health

### *Mental Health Cluster*

MHS	3411	Multidisciplinary Behavioral Healthcare Services
MHS	4002	Behavioral Health Systems Delivery
MHS	4408	Exemplary Practices in Behavioral Healthcare Treatment
MHS	4931	Selected Topics (see advisor for approval)
MHS	4703	Legal, Ethical and Professional Issues in Behavioral Healthcare

### *Substance Abuse Cluster*

MHS	3411	Multidisciplinary Behavioral Healthcare Services
MHS	4408	Exemplary Practices in Behavioral Healthcare Treatment
MHS	4931	Selected Topics (see advisor for approval)
MHS	4703	Legal, Ethical and Professional Issues in Behavioral Healthcare
PSB	3444	Drugs and Behavior

## REQUIREMENTS FOR THE CONCENTRATION IN SOCIAL AND BEHAVIORAL HEALTH SCIENCES AND AGING HEALTH STUDIES (HAS) TOTAL CONCENTRATION HOURS: 30

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## Concentration Core (30 hours)

Social and Behavioral Health Sciences courses (students must take 15 hours from this list):

- CLP 4143 Abnormal Psychology
- COM 4022 Health Communication
- COM 4020 Communicating Illness, Grief and Loss
- COM 4225 Global and Cultural Health Communication
- HSC 4172 Women's Health: A Public Health Perspective
- HSC 4211 Health, Behavior and Society
- HSC 4579 Foundations of Maternal & Child Health
- HSC 4631 Critical Issues in Public Health
- HSC 4933 Special Topics in Public Health (see advisor for approval)
- LIS 4930 Selected Topics in Information Studies (see advisor for approval)
- PHI 4930 Selected Topics
- SOP 4330 Social Psychology of HIV/AIDS
- SOW 3203 Introduction to Social Work
- SPC 4321 Communication and Aging
- SYO 4400 Medical Sociology
- WST 4320 The Politics of Women's Health

### *Mental Health Cluster*

- MHS 3411 Multidisciplinary Behavioral Healthcare Services
- MHS 4002 Behavioral Health Systems Delivery
- MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment
- MHS 4931 Selected Topics (see advisor for approval)
- MHS 4703 Legal, Ethical and Professional Issues in Behavioral Healthcare

### *Substance Abuse Cluster*

- MHS 3411 Multidisciplinary Behavioral Healthcare Services
- MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment
- MHS 4931 Selected Topics (see advisor for approval)
- MHS 4703 Legal, Ethical and Professional Issues in Behavioral Healthcare
- 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 Gerontological Case Management
- MHS 4931 Selected Topics (see advisor for approval)
- GEY 4327 Understanding Policy and Practice in Long Term Care
- GEY 4360 Gerontological Counseling
- GEY 4608 Alzheimer's Disease Management
- GEY 4628 Race, Ethnicity, and Aging
- GEY 4641 Death and Dying
- GEY 4935 Special Topics in Gerontology
- HSC 4211 Health, Behavior & Society
- HSC 4630 Understanding US Healthcare
- PHC 4931 Health Care Ethics
- SPA 3002 Introduction to Disorders of Speech and Language

## REQUIREMENTS FOR THE CONCENTRATION IN SOCIAL AND BEHAVIORAL HEALTH SCIENCES AND HEALTH INFORMATION TECHNOLOGY (HST)

**TOTAL CONCENTRATION HOURS: 30**

## Concentration Core (30 hours)

Social and Behavioral Health Sciences courses (students must take 15 hours from this list):

- CLP 4143 Abnormal Psychology
- COM 4022 Health Communication
- COM 4020 Communicating Illness, Grief and Loss
- COM 4225 Global and Cultural Health Communication
- HSC 4172 Women's Health: A Public Health Perspective

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HSC 4211	Health, Behavior and Society
HSC 4579	Foundations of Maternal & Child Health
HSC 4631	Critical Issues in Public Health
HSC 4933	Special Topics in Public Health (see advisor for approval)
LIS 4930	Selected Topics in Information Studies (see advisor for approval)
PHI 4930	Selected Topics
SOP 4330	Social Psychology of HIV/AIDS
SOW 3203	Introduction to Social Work
SPC 4321	Communication and Aging
SYO 4400	Medical Sociology
WST 4320	The Politics of Women's Health
<i>Mental Health Cluster</i>	
MHS 3411	Multidisciplinary Behavioral Healthcare Services
MHS 4002	Behavioral Health Systems Delivery
MHS 4408	Exemplary Practices in Behavioral Healthcare Treatment
MHS 4931	Selected Topics (see advisor for approval)
MHS 4703	Legal, Ethical and Professional Issues in Behavioral Healthcare
<i>Substance Abuse Cluster</i>	
MHS 3411	Multidisciplinary Behavioral Healthcare Services
MHS 4408	Exemplary Practices in Behavioral Healthcare Treatment
MHS 4931	Selected Topics (see advisor for approval)
MHS 4703	Legal, Ethical and Professional Issues in Behavioral Healthcare
PSB 3444	Drugs and Behavior
Health Information	Technology courses (students must take 15 hours from this list)
ISM 3113	Systems Analysis and Design
LIS 3352	Interaction Design
LIS 3353	IT Concepts for Information Professionals
LIS 3361	World Wide Web Page Design and Management
LIS 3783	Information Architecture or LIS 4365 Web Design Technologies
LIS 4204	Information Behaviors
LIS 4414	Information Policy and Ethics
LIS 4482	Networks and Communication
LIS 4930	Selected Topics in Information Studies (see advisor for approval)
EEL 4935	Special Electrical Engineering Topics I
PAD 4712	Managing Information Resources in the Public Sector

## REQUIREMENTS FOR THE CONCENTRATION IN SOCIAL AND BEHAVIORAL HEALTH SCIENCES AND HEALTH MANAGEMENT (HMG)

**TOTAL CONCENTRATION HOURS: 30**

### Concentration Core (30 hours)

Social and Behavioral Health Sciences courses (students must take 15 hours from this list):

CLP 4143	Abnormal Psychology
COM 4022	Health Communication
COM 4020	Communicating Illness, Grief and Loss
COM 4225	Global and Cultural Health Communication
HSC 4172	Women's Health: A Public Health Perspective
HSC 4211	Health, Behavior and Society
HSC 4579	Foundations of Maternal & Child Health
HSC 4631	Critical Issues in Public Health
HSC 4933	Special Topics in Public Health (see advisor for approval)
LIS 4930	Selected Topics in Information Studies (see advisor for approval)
PHI 4930	Selected Topics
SOP 4330	Social Psychology of HIV/AIDS
SOW 3203	Introduction to Social Work
SPC 4321	Communication and Aging
SYO 4400	Medical Sociology



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WST 4320 The Politics of Women's Health

## *Mental Health Cluster*

MHS 3411 Multidisciplinary Behavioral Healthcare Services

MHS 4002 Behavioral Health Systems Delivery

MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment

MHS 4931 Selected Topics (see advisor for approval)

MHS 4703 Legal, Ethical and Professional Issues in Behavioral Healthcare

## *Substance Abuse Cluster*

MHS 3411 Multidisciplinary Behavioral Healthcare Services

MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment

MHS 4931 Selected Topics (see advisor for approval)

MHS 4703 Legal, Ethical and Professional Issues in Behavioral Healthcare

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

PHC 4101 Introduction to Public Health

HSC 4211 Health, Behavior & Society

HSC 4624 Foundations of Global Health

HSC 4933 Special Topics in Public Health (see advisor for approval)

MAN 3025 Principles of Management

PAD 3003 Introduction to Public Administration

PAD 4204 Public Financial Administration

PAD 4415 Personnel and Supervision

PAD 4712 Managing Information Resources in the Public Sector

PHC 4931 Health Care Ethics

PHI 3636 Professional Ethics

PUP 4002 Public Policy

SYO 4400 Medical Sociology

## HEALTH SCIENCES FACULTY

Program Director and Instructor: C. Cooperman

### • 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 the A.A. degree at a Florida College System institution. If students transfer with fewer than 60 semester hours of acceptable credit, they must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Specific state mandated common course prerequisites for admission to the major include:

6 credit hours of AFH, AMH, EUH, WOH, LAH, ASH, HIS prefix courses

### REQUIREMENTS FOR THE MAJOR IN HISTORY

**TOTAL MAJOR HOURS: 35**

**Major requirements for the B.A. Degree:**

**Major Core (35 hours)**

A minimum of 35 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):**

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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 pre-requisite requirements.

## **Upper-Level Course Requirements for the Major (15 credit hours)**

In addition to the three required courses below, students must complete a minimum of --15 hours of 3000-4000 numbered courses to fulfill the upper level major requirement.

## **Additional Required Courses for the History Major – Permits required (11 credit hours):**

Three additional courses are required for graduation with a B.A. degree in History: Theory and Methods of History (HIS 4104) and two separate sections of Pro-Seminar in History (HIS 4936).

Students should plan to take Theory and Methods of History (HIS 4104) as early in the major as possible—preferably as they begin to take courses at the 3000-level, and no later than in the junior year. Majors are expected to complete this course before enrolling in either of their Pro-Seminars.

It is recommended that majors take the two Pro-Seminar (HIS 4936) courses in the fall and spring of their senior year. A GPA of 2.00 in the History major is required before a student can be permitted into these courses. Additionally, the two Pro-Seminar courses may not be taken during the same semester.

## **Major Electives**

For elective hours outside of the major, it is recommended that History majors take

- ENC 3310 Expository Writing
- SPC 2608 Public Speaking
- LIS 2005 Library and Internet Research Skills

Additional hours can be profitably drawn from the following disciplines: Africana Studies, American Studies, Anthropology, Classics, Economics, Geography, Government and International Affairs, Philosophy, Religious Studies, Sociology, Women's Studies, Literature, 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 35-hour requirement.

## **Residency Requirement**

The B.A. degree in History from USF requires that 50% of the major coursework be completed at the USF campus.

## **Research Opportunities**

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.

## **Internship Opportunities**

The History Department has many contacts in the Tampa Bay community, especially museums or historical societies, where students may intern.

## **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: SOC 274.  
[HistoryAdvise@usf.edu](mailto:HistoryAdvise@usf.edu)

## **REQUIREMENTS FOR THE 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.

A minor in History is an excellent complement to any undergraduate degree that benefits from a humanities discipline.

## **Minor Core (6 hours)**

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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](http://www.history.usf.edu) Undergraduate web page; or may contact the undergraduate advisor at [HistoryAdvise@usf.edu](mailto:HistoryAdvise@usf.edu).

## Advising Information

Undergraduate Advisor, History Department

[HistoryAdvise@usf.edu](mailto:HistoryAdvise@usf.edu)

Location: SOC 274

## HISTORY FACULTY

*Chairperson:* F. Ottanelli; *Professors:* J. Belohlavek, G. Benadusi, C. Boterbloem, M. Decker, P. Dosal, P. Levy, W. Murray, F. Ottanelli; *Associate Professors:* G. Alexopoulos, B. Connolly, J. Irwin, D. Johnson, J. Langford, A. Novoa, F. Ramos; *Assistant Professors:* D. Fontaine, J. Gonzalez, A. Koenig, S. Prince; *Instructors:* J. Dukes-Knight; S. Murray, G. Tunstall, Jr.; *Post-Doctoral Fellows:* J. Toney; *Adjunct:* R. Alicea.

## • 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 wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

## REQUIREMENTS FOR THE MAJOR IN HUMANITIES AND CULTURAL STUDIES

**TOTAL MAJOR HOURS: 36**

### 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.

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## 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/>.

## **HUMANITIES AND CULTURAL STUDIES CONCENTRATIONS**

### **REQUIREMENTS FOR THE CONCENTRATION IN AMERICAN STUDIES (AMSC)**

**TOTAL CONCENTRATION HOURS: 27**

The American Studies concentration is an interdisciplinary concentration dealing with the study of the United States.

#### **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.

### **REQUIREMENTS FOR THE CONCENTRATION IN FILM AND NEW MEDIA STUDIES (FMSC)**

**TOTAL CONCENTRATION HOURS: 27**

The Film & 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.

#### **Concentration Core (15 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
- HUM 4581 Film and Media Theory

Students select one course from the following list:

- AMS 2270 Twentieth-Century American Culture
- HUM 2250 Studies in Culture: The Twentieth Century

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## **Concentration Electives (12 hours)**

Students take an additional 12 credit hours of upper-level coursework from Humanities and Cultural Studies courses.

## **REQUIREMENTS FOR THE CONCENTRATION IN HUMANITIES (HUMC)**

**TOTAL CONCENTRATION HOURS: 27**

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.

### **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.

## **REQUIREMENTS FOR THE MINOR IN MINOR IN HUMANITIES (HUM)** **TOTAL MINOR HOURS: 18**

<http://humanities.usf.edu/undergraduate/as/>

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.

## **REQUIREMENTS FOR THE 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.

The minor consists of 18 credit hours.

### **Minor Core (9 hours)**

- FIL 1002 Introduction to Film Studies
- FIL 3052 Foundations of Film & New Media (prerequisite is FIL 1002)
- FIL 3077 Contemporary Film & New Media (prerequisite is FIL1002)

### **Minor Electives (9 hours)**

#### **One 3000- or 4000-Level Genres/Auteurs/Production Course**

Students should choose a course from the following list:

- ART 3612C Beginning Digital Video and Electronic Arts
- COM 3052 Cultural Studies and Communication
- COM 4931 Selected Topics in Media Analysis
- GET 3522 Fantastic Films of Early German Cinema
- GEW 4930 Selected Topics
- HUM 4582 Film Auteurs
- HUM 4890 Genres and Media

#### **One 3000- or 4000-Level National Cinemas/Themes Course**

Students should choose a course from the following list:

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AMS	3615	Film & American Society
COM	4414	Race and Gender in Popular Film and Television
ENG	4674	Film and Culture
FRE	4392	African Images in Francophone Film
GET	3524	German Popular Film
GET	4523	New German Cinema to Present
ITT	3504	Italian Culture through Cinema
ITT	4505	Italy & the Italian-American Experience
LIT	4930	Selected Topics in English Studies
REL	3111	The Religious Quest in Contemporary Films
SPC	4310	Relationships on Film
SPT	3100	Masterpieces of Hispanic Literature
SYG	3011	Social Problems through Film
WST	4335	Women and Film

**One additional 3000- or 4000-Level Elective Film Course, 3 credits.**

Students should choose from either the Genres/Auteurs/Production or National Cinemas/Themes course lists or consult with the undergraduate advisor.

## REQUIREMENTS FOR THE CERTIFICATE IN FILM STUDIES

### TOTAL CERTIFICATE HOURS: 12-15

<http://languages.usf.edu/undergraduate/cert/>

The Certificate in Film Studies is designed for undergraduate students majoring in another field who also desire a concentration in film studies. The certificate program is a carefully structured, interdisciplinary sequence of four courses (12-15 credits) that provides students with a broad introduction to the field of film studies. Receipt of a Certificate in Film Studies is recorded on the student's transcript.

Spanning colleges, departments, and academic disciplines, the Certificate in Film Studies provides students with a balanced and multi-faceted course of study that will focus on the functions and manifestations of film as a medium in contemporary western society.

The proposed course of study grants the student a multi-disciplinary comprehension of film as an aesthetic medium and an understanding of how it describes, and has helped shape, the socio-political situation of western civilizations.

#### **Certificate Core (3 hours)**

FIL 1002 Introduction to Film Studies

#### **Certificate Electives (9-12 hours)**

##### **Group I (Area Studies):**

Students will take 3-4 credits of elective courses chosen from the following list:

FRE	4392	African Images in Francophone Film
GET	3522	Fantastic Films of Early German Cinema
GET	3524	German Popular Film
GET	4523	New German Cinema to Present
HUM	4930	Selected Topics in Humanities*
ITT	3540	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 3-4 credits of elective courses chosen from the following list:

ENG	3113	Film as Narrative Art
FIL	2000	Film: The Language of Vision
FIL	3427C	Beginning Film
FIL	3845	World Cinema
HUM	4581	Film and Media Theory
THE	2252	Great Performances on Film

##### **Group III (Socio-Political & Historical Perspectives):**

Students will take 3-4 credits of elective courses chosen from the following list:

AMS	3615	Film and American Society
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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 between 12 and 15 semester hours. Students must declare their intention to be awarded the certificate by notifying the Coordinator at least one full semester prior to graduation.

## 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](mailto:grieber@usf.edu).

## REQUIREMENTS FOR THE CERTIFICATE IN FOOD STUDIES

**TOTAL CERTIFICATE HOURS: 12-18**

<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 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.

### Certificate Core (3 hours)

HUM 2930 Selected Topics: Food, Culture & Society

### Certificate Electives (9 hours)

#### Group I – Cultural Contexts and Identities:

Students will take one course chosen from the following list:

HUM	4930	Selected Topics in Humanities: Food in Film
HUM	4930	Selected Topics in Humanities: Food in Western Culture
HUM	4930	Selected Topics in Humanities: Food in Theory

#### Group II – Global Ecology & Sustainability:

Students will take one course chosen from the following list:

AMS	4804	Major Ideas in America
ANT	4403	Environmental Anthropology
REL	4936	Selected Topics: Religion and Food
SYA	4930	Topics in Sociology: Sustainable Consumption

#### Group III – Health, Diet, and Cuisine:

Students will take one course chosen from the following list:

ANT	4930	Special Topics in Anthropology: Ancient Diets
ANT	4930	Special Topics in Anthropology: Nutritional Anthropology
WST	4930	Selected Topics: Food and Gender

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.

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## Grading Requirement

Courses must be taken on a letter-grade basis.

## HUMANITIES AND CULTURAL STUDIES FACULTY

*Chairperson:* D. Belgrad; *Professor:* R.E. Snyder, W. Cummings; *Associate Professors:* D. Belgrad, A. Berish, M. Cizmic, A. Cozzi, J. D'Emilio, R. May, B. Sadler; *Assistant Professors:* S. Ferguson, A. Rust, *Professors Emeriti:* C.B. Cooper, S.L. Gaggi, G.S. Kashdin, D. Rutenberg; *Instructors:* S. Dykins Callahan, B. Cook, B. Goldberg, N. Kantzios.

## • 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. 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 should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless otherwise stated, a grade of C- is the minimum acceptable grade.

PSY XXXX Any Psychology course  
STA X023 Introductory Statistics I or STA X122  
ECO X013 Principles of Economics (Macroeconomics)  
CGS XXXX Any Database Course  
COP XXXX Any Computer Programming course  
COP XXXX Any Object-Oriented Computer Programming course  
MAC XXXX Any Pre-Calculus or Discrete Math course  
PHI XXXX Any general ethics course

## REQUIREMENTS FOR THE MAJOR IN INFORMATION STUDIES TOTAL MAJOR HOURS: 51

### Major requirements for the B.S. Degree:

#### Major Core (36 hours)

Students admitted to the program prior to the Fall 2011 semester follow previous catalog guidelines.

LIS 3261 Introduction to Information Science  
LIS 3783 Information Architecture  
LIS 3353 IT Concepts for Information Professionals  
LIS 361 World Wide Web Page Design and Management  
LIS 4482 Networks and Communication  
LIS 4414 Information Policy and Ethics  
LIS 4365 Web Design Technologies  
LIS 3352 Interaction Design  
LIS 4204 Information Behaviors  
LIS 4930 Selected Topics in Information Studies

Exit Courses (6 credits):

ENC 3249 Communication for Information Professionals  
XXX XXXX A Capstone Course

#### Major Electives (15 hours)

Student must choose 15 credit hours from the following:

CIS 3360 Principles of Information Security  
CIS 3362 Cryptography and Information Security  
CIS 4203 Computer Forensics & Investigations  
CIS 4204 Ethical Hacking



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CIS	4368	Database Security and Audits
CIS	4412	Information Technology Resource Management
CIS	4510	IT Project Management
ISM	3011	Information Systems in Organizations
ISM	4213	Advanced Database Administration
ISM	4382	Global Information Systems
ISM	4400	Decision Support Systems
ISM	4480	Electronic Commerce Systems
LIS	4930	Selected Topics in Information Studies

## 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 for Undergraduate Research will assist students in understanding the various course options.

## INFORMATION STUDIES FACULTY

*Director:* J. Andrews; *Professors:* R. Borum, J. Gathegi, V. Gregory, K. McCook; *Associate Professors:* J. Andrews, C. Dunkley, J. Yoon; *Assistant Professors:* A. Friedman, H. Huang, J. Niu, E. Schneider; *Professors Emeriti:* A. Perrault, H.M. Smith; *Instructors:* L. Alexander, D. Austin, R. Austin, K. Cox, H. Haubitz, J. Sullivan.

## • B.S. - INTEGRATIVE ANIMAL BIOLOGY (IAB) (CIP = 26.0101 - TRACK 1 OF 2) TOTAL DEGREE HOURS: 120

<http://biology.usf.edu/ib/ug/bs/>

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 aquarium and zoo biology and education.

## STATE MANDATED COMMON COURSE PREREQUISITES

Students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of C- is the minimum acceptable grade.

BSC X010/X010L Biology I with Lab or BSC X010C or BSC X040/X040L

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

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 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 TOTAL MAJOR HOURS: 72-74

**Major requirements for the B.S. Degree:**

**Major Core (56-58 hours)**

**Biology Core Curriculum: 16 credit hours**

BSC 2010 and BSC 2010L Cellular Processes and Laboratory

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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

## Structure and Function Courses: 8 credit hours

Choose one Structure & Function Pairing from:

Invertebrate Biology

ZOO 3205C Advanced Invertebrate Zoology **AND** PCB 3712/3713L General Physiology and Lab

Vertebrate Biology

BSC 4933/L Selected Topics in Biology: Vertebrate Natural History and Lab **OR** ZOO 3713C Comparative Vertebrate Anatomy **AND** PCB 3712/3713L General Physiology and Lab

Human Biology

BSC 2093C Human Anatomy & Physiology I **AND** BSC 2094C Human Anatomy & Physiology II

## Supporting Courses in the Natural Sciences and Mathematics: 32-34 credit hours

Students must receive a C- or better to meet requirements for degree (for progression in Math and CHM, a C is required)

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 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

## 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
- OCE 4930 Selected Topics in Marine Science: Advanced Oceanography I and II **OR** BCH 4033 Advanced Biochemistry I and BCH 3023/BCH 3023L Introductory Biochemistry and Lab are the only approved non-Biology elective course options not offered by IB or CMMB departments.
- BCH 4033 Advanced Biochemistry I will NOT count towards the 8 credit hours of 4000+level major electives.

All students majoring in one of the programs offered through the departments of Integrative or Cell Biology, Microbiology and Molecular Biology and entering USF for the first time, in Fall 2009 or later, who subsequently earn three (3) D and/or F grades in USF coursework for their major and/or supporting coursework will be required to change to majors more appropriate to their goals and academic performances. Those majors may not include any conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology and Molecular Biology.

All *continuing* USF students who entered USF prior to Fall 2009 and who have not earned any D or F grades in USF major coursework or supporting coursework by the beginning of Fall 2009, will also be allowed three (3) D and/or F grades in subsequent terms before being required to choose another major more appropriate to their goals and academic performances, and not including any conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology and Molecular Biology.

Any *continuing* USF students who enter USF prior to Fall 2009 and who have earned greater than or equal to one (1) D or F grade in USF coursework for their major coursework or supporting coursework by the beginning of Fall 2009, will be allowed only two (2) more D and/or F grades in subsequent semesters before being required to choose other majors more appropriate to their goals and academic performances, and not including any majors conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology and Molecular Biology.

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

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## 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 free elective courses. This specification applies to both USF and transfer courses.

Please note that some supporting science courses may require a grade of C or better in order to meet the prerequisite requirements for course sequences.

## 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

This program intends for students to complete a Bachelor of Science in Integrative Animal Biology (College of Arts and Sciences) and an M.A.T. in Secondary Science (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 credits toward the M.A.T. in Science Education during the senior year of their B.S. in Integrative Animal Biology.

## Target students and expected outcomes

The accelerated B.S. in Integrative Animal Biology to an M.A.T. in Science Education program is a collaborative effort between the College of Arts and Sciences and the College of Education. This program is an attractive and viable career path for students majoring in Integrative Animal Biology that results in secondary science teacher certification. Students who complete this program receive the necessary science content and pedagogy coursework to be highly qualified biology teachers at the secondary level.

## Description and Requirements

For admission to the program a student must:

1. Have completed 15 hours in the B.S. Integrative Animal Biology major upon applying and thirty (30) semester hours in science (includes twenty-five (25) semester hours in biology plus 5 hours of upper-level work in math or supporting science content area) with associated laboratory experiences to be fully admitted as a graduate student in the M.A.T. Science Education program. Evidence of successfully completing all sections of the General Knowledge Test (GKT) is also required for full admission to the graduate program.
2. Have a minimum 3.0 GPA overall; and
3. Have a minimum undergraduate 3.25 GPA in the major.

## Undergraduate Degree Requirements for the B.S. in Integrative Animal Biology

### Integrative Animal Biology Major Degree Requirements

All Integrative Animal Biology major students will complete graduation requirements listed in the undergraduate catalog.

### University and College Requirements:

- 120 hours
- 36 hours of general education coursework
- 6 hours upper-level core curriculum (Writing Intensive Capstone and Capstone Experience)
- 48 hour upper-level rule
- Summer rule
- USF Residency - Students must complete 30 hours of the last 60 hours in USF coursework.
- FLENT (Foreign Language Entrance Requirement)
- Gordon Rule Communication and Computation

### Integrative Animal Biology Major Requirements: 72-74 total major credit hours

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- Must receive a C- or better to meet major requirements.
- Cascading prerequisites are strictly enforced. CR = co-requisite, courses that can be taken concurrently.
- Must have fewer than 3 D and/or F grades in the Biology major and supporting science requirement lectures
- Must complete a minimum of 50 percent (20 credit hours) of Integrative Animal Biology major requirements at USF Tampa

## **Biology Core Curriculum: 16 credit hours**

- BSC 2010 & 2010L Cellular Processes/Laboratory
- BSC 2011 & 2011L Biodiversity/Laboratory
- PCB 3043 & 3043L Principles of Ecology and Laboratory
- PCB 3063 & 3063L General Genetics and Laboratory

## **Integrative Animal Biology Curriculum: 24 credit hours**

Choose one Structure & Function Pairing from:

- Invertebrate Biology
  - ZOO 3205C Advanced Invertebrate Zoology **AND** PCB 3712/3713L General Physiology and Lab
- Vertebrate Biology
  - BSC 4933/L Selected Topics in Biology: Vertebrate Natural History and Lab **OR** ZOO 3713C Comparative Vertebrate Anatomy **AND** PCB 3712/3713L General Physiology and Lab
- Human Biology
  - BSC 2093C Human Anatomy & Physiology I **AND** BSC 2094C Human Anatomy & Physiology II

## **Major Elective Courses: 16 credit 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.”

- 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.
- OCE 4930 Selected Topics in Marine Science: Advanced Oceanography I and II **OR** BCH 4033 Advanced Biochemistry I and BCH 3023/3023L Introductory Biochemistry/Lab are the only approved non-Biology elective course options not offered by IB or CMMB departments.
- BCH 4033 Advanced Biochemistry I will NOT count towards the eight credit hours of 4000-level major electives.

## **Supporting Sciences and Mathematics: 32-34 credit hours**

Students must receive a C- or better to meet requirements for degree (for progression in Math and CHM C is required)

- CHM 2045 & CHM 2045L General Chemistry I and Lab
- CHM 2046 & CHM 2046L General Chemistry II and Lab
- CHM 2210 & CHM 2210L Organic Chemistry I and Lab
- CHM 2211 & CHM 2211L Organic Chemistry II and Lab
- 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 General Physics sequences:
  - PHY 2053/L & 2054/L General Physics I and II/Labs
  - PHY 2048/L & 2049/L General Physics Calculus Based I and II/Labs

## **Graduate Degree Requirements for Accelerated M.A.T in Science Education PROGRAM REQUIREMENTS**

All M.A.T. programs include as an admission requirement the passing of all sections of the General Knowledge Test (GKT). Applicants who can document they lived outside the state or country and did not have access to take the GKT before the application deadline may submit passing Praxis scores or GRE scores to be considered for admission. Whether admitted with passing Praxis scores or acceptable GRE scores, the applicant must submit passing scores on the GKT before the last day of classes of the semester of first enrollment, or admission to the College of Education will be revoked.

### **Total Minimum Program Hours: 39 hours minimum**

The courses required for the M.A.T. in Science Education are listed below. Please check with the program for other program requirements.

### **Core Requirements**

- SCE 5325 Methods of Middle Grades Science Education
- SCE 5337 Methods of Secondary Science Education
- SCE 6456 Teaching Secondary School Physical and Earth Science
- SCE 6938 Topics in Science Education: Field Practicum
- EDF 6432 Foundations of Measurement
- ESE 5342 Teaching the Adolescent Learner

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- ESE 5344 Classroom Management for a Diverse School and Society
- SCE 5564 Reading and Communication in Science Education
- SCE 6416 Teaching Secondary School Biology
- SCE 6634 Current Trends in Secondary Science Education
- SCE 6947 Internship in Secondary Education for Social Science (PR: CI and passing scores of FTCE exam)
- TSL 5325 ESOL Strategies for Content Area Teachers
- Comprehensive Examination
  - Student's participation in the internship experience in classes that correspond to the specific area in which he or she will be certified.
  - Passing score on the appropriate subject area exam.
  - Student's content degree or equivalent (an admission's requirement).

## Comprehensive Examination

A written narrative exam tailored to the individual student. Exam needs to be completed by two weeks before final exam week of the student's graduating semester. Exams will only be accepted during fall or spring semester, unless previous contract is established with the student's advisor.

**COURSES** (<http://ugs.usf.edu/course-inventory/>)

## Timeline and benchmarks:

1. To be considered for acceptance into the Accelerated B.S. Integrative Animal Biology/M.A.T. Science Education program students must have completed a minimum of 15 credit hours in the Integrative Animal Biology undergraduate major.
2. Students must have a minimum undergraduate GPA of 3.0 overall, and a minimum GPA of 3.25 in the major and passing scores on all sections of the General Knowledge Test (GKT) to be eligible for the accelerated degree program. Information on the General Knowledge Test on the Florida Teacher Certification section may be found on the webpage: <http://www.fl.nesinc.com/>
3. Following completion of a minimum of 15 hours in the undergraduate major, students may be considered for acceptance into the accelerated program through faculty nomination or student self-nomination, via submission of an *Accelerated Program Application Form*. Both B.S. and M.A.T. programs will review the applications and approve the nominations. All applications require the approval of the College of Education Graduate Program, the College of Arts and Sciences, and the USF Graduate School.
4. To be promoted to graduate status, students must meet all admission requirements of the M.A.T. in Science Education in the College of Education. Specifically, the following materials must be submitted:
  - a. Undergraduate transcripts;
  - b. Evidence of possessing a degree in a science discipline (Biology, Chemistry, Physics, Geology, etc.) that is taught in a middle or high school, or comparable coursework in a science teaching field acceptable to the program faculty;
  - c. A bachelor's or higher degree in biology or a bachelor's or higher degree with thirty (30) semester hours in science to include twenty-one (21) semester hours in biology with associated laboratory experiences.
  - d. Documentation of GKT scores.
5. Students must earn a minimum of a "B" (3.00) in all graduate courses. Failure to earn at least a "B" in a graduate course will result in academic review by the graduate program. Failure to maintain a minimum 3.0 GPA will result in academic probation, according to the procedures of the USF Office of Graduate Studies.

A comprehensive plan of study to complete the accelerated B.S./M.A.T program will be developed with the guidance of an advisor and a faculty member. A possible plan of study could be as follows:

**Note:** Summer sessions may also be included in the study plan.

### First and Second Year

- Courses and credits as designated for freshman and sophomore years

### Third Year

- Apply for Admission to the Accelerated B.S./M.A.T. program

### Fourth Year

**Student accepted in M.A.T. in Science Education program complete the following credits:**

- SCE 5325 Methods of Middle Grades Science Education
- SCE 5337 Methods of Secondary Science Education
- SCE 6456 Teaching Secondary School Physical and Earth Science
- SCE 6938 Topics in Science Education: Field Practicum

### Fifth Year

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## Advising Information

BioAdvise: SCA 203; (813) 974-3250  
<http://biology.usf.edu/bioadvise/>  
Email: [bioadvise@usf.edu](mailto:bioadvise@usf.edu)

## INTEGRATIVE ANIMAL BIOLOGY FACULTY

*Chairperson:* V. Harwood; *Professors:* S. Bell, T. Crisman, V. Harwood, E. McCoy, P. Motta, H. Mushinsky, P. Stiling; *Associate Professors:* S. Deban, G. Fox, J. Rohr, K. Scott; *Assistant Professors:* L. Johnson, M. Lajeunesse, D. Lewis, L. Martin, L. Prevost, C. Richards; *Instructors:* C. Begin, C. Osovitz, B. Predmore.

## • B.A. - INTERDISCIPLINARY CLASSICAL CIVILIZATIONS (ICC) (CIP = 16.1200)

**TOTAL DEGREE HOURS: 120**

<http://languages.usf.edu/undergraduate/classics/icc/>

Interdisciplinary Classical Civilizations is a broad-based area study encompassing the literature, history, linguistics, art and archaeology, philosophy, and religion of Greece, Rome and the Near East from pre-history to late antiquity. For centuries, the study of these vibrant societies has been recognized as essential to a proper understanding of our own culture and, recently, there has been a renewed recognition of the skills such study develops.

All students wishing to enroll in the ICC major must schedule an appointment with the Coordinator or the Academic Advisor of Interdisciplinary Classical Civilizations in order to develop a program of study. Students will be urged to fulfill their General Education and University Exit Requirements, whenever possible, from courses taught within the Classical Civilizations Program. Courses that are applied toward the Gen. Ed. or "Core" Requirements cannot be utilized more than once.

The ICC Major can be fulfilled in one of two ways:

1. The ICC Major (33 hours minimum) is intended for students who wish to become familiar with aspects of the Classical Heritage of Western Civilization.
2. The ICC Major with Honors (39 hours minimum) is intended for students who wish to continue their studies beyond the undergraduate level and includes a thesis (3 hours). The student must also maintain a 3.50 GPA within the major and a 3.30 overall GPA.

## STATE MANDATED COMMON COURSE PREREQUISITES

There are no state mandated common course prerequisites for this major.

## REQUIREMENTS FOR THE MAJOR IN INTERDISCIPLINARY CLASSICAL CIVILIZATIONS TOTAL MAJOR HOURS: 33-34

### Major requirements for the B.A. Degree:

#### Major Core (33-34 hours)

12 hours from the ICC "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
- HIS 3930 Archaeology of Greece or HIS 3930 Roman Archaeology or REL 3280 Biblical Archaeology
- CLT 3370 Gods, Heroes, and Monsters in the Ancient World

18 hours (minimum) from the ICC "Fields":

Two (2) courses from an approved list of 2000- to 3000-level courses in Anthropology, Classics, History, Philosophy or Religious Studies.

Four (4) courses from an approved list of 3000- to 4000-level courses in Anthropology, Classics, History, Philosophy or Religious Studies.

3-4 hours from an approved list of 4000-level Exit Requirement courses in Anthropology, Classics, History, Philosophy or Religious Studies.

### Foreign Language Requirement

Language Requirement: To complete a major in Interdisciplinary Classical Civilizations, students should demonstrate proficiency at the intermediate level within the target ancient language. This may be accomplished by completing 6-12 hours of coursework or by demonstrated competency at the intermediate level through examination.

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If this coursework (or associated competency) is not completed at the community college, it must be completed before the degree is granted. A grade of "C" is the minimum acceptable grade. If the target language is Latin or Greek, this would mean the completion of either LAT 2220 or GRE 2220 at USF, or the demonstration of a similar level of proficiency by examination.

## 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 for Undergraduate Research will assist students in understanding the various course options.

## OPTIONAL HONORS PROGRAM

### Requirements of the ICC Major with Honors (39 hours minimum):

1. 12 hours from the ICC "Core":
2. 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  
HIS 3930 Archaeology of Greece or HIS 3930 Roman Archaeology or REL 3280 Biblical Archaeology  
CLT 3370 Gods, Heroes, and Monsters in the Ancient World
3. 12 hours beyond the B.A. FLEX Language Requirement in either Greek or Latin:
4. Competence in one or two ancient languages. Courses must be taken with the approval of the Coordinator.
5. 12-16 hours (4 courses) from the Major Field Requirements:
6. Major Fields are currently defined in Ancient History, Philosophy and Religious Studies. The student will select four courses in the Major Field area with the approval of the Coordinator. The student must take at least one exit-level course in the Major Field he/she chooses.
7. 3 hours of Faculty Mentored Research:
8. The student will complete a research project under the direction of a faculty committee composed of a faculty mentor and at least two additional faculty members. The project is intended to produce a substantial research paper that can serve as a writing sample when the student applies for advanced graduate study.
9. Maintenance of a 3.50 GPA within the major and a 3.30 overall GPA.

## Advising Information

ICC Coordinator: William Murray, Ph.D. | [murray@usf.edu](mailto:murray@usf.edu)

Undergraduate Academic Advisor: Andrew Bird | [ICCadvice@usf.edu](mailto:ICCadvice@usf.edu)

## REQUIREMENTS FOR THE MINOR IN INTERDISCIPLINARY CLASSICAL CIVILIZATIONS (ICC) TOTAL MINOR HOURS: 15-18

<http://languages.usf.edu/undergraduate/classics/icc/>

### Minor Core (15-18 hours)

The ICC Minor (15 hours minimum) can be fulfilled in one of two ways:

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
  - 3-4 credit hours from 2000- or 3000-level courses in Anthropology, History, Philosophy and Religious Studies, selected with the guidance and approval of the Coordinator.
  - 6-8 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

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Imagination

CLT 3370 Gods, Heroes, and Monsters in the Ancient World

9-12 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

Courses are chosen with the guidance and approval of the Coordinator from the list certified for the major.

## Advising Information

- ICC Coordinator: William Murray, Ph.D. | [murray@usf.edu](mailto:murray@usf.edu)
- Undergraduate Academic Advisor: Andrew Bird | [ICCadvice@usf.edu](mailto:ICCadvice@usf.edu)

## • B.S. - INTERDISCIPLINARY NATURAL SCIENCES (INS) (CIP = 30.0101 - TRACK 16 OF 16) TOTAL DEGREE HOURS: 120

<http://chemistry.usf.edu/undergraduate/degree/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, and 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 wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet FKL Liberal Arts Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

Students are encouraged to complete as many of the following courses as possible, during the program of study at the community college, and when feasible in FKL Liberal Arts/Gordon Rule courses. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

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

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

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

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

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

## REQUIREMENTS FOR THE MAJOR IN INTERDISCIPLINARY NATURAL SCIENCES 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, and Geology. Choose from the following courses:

#### Calculus I and II:

MAC 2241 Life Sciences Calculus I

MAC 2242 Life Sciences Calculus II or STA 2023 Introductory Statistics

\*MAC 2311 and MAC 2312 are also acceptable for the major.

\*MAC 2281 and MAC 2282 are also acceptable for the major.

#### Biology I and II:

BSC 2010 Cellular Processes

BSC 2010L Cellular Processes Laboratory

BSC 2011 Biodiversity



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BSC 2011L Biodiversity Laboratory

## General Chemistry I and II:

CHM 2045 General Chemistry I

CHM 2045L General Chemistry I Laboratory

CHM 2046 General Chemistry II

CHM 2046L General Chemistry II Laboratory

## Geology I and II:

GLY 2010 Dynamic Earth: Introduction to Physical Geology

GLY 2000L Essentials of Geology Laboratory

GLY 2100 History of Life

GLY 2100L Earth History Laboratory

## Physics I and II:

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

## 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. 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.

*Free 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
- Biology (including the marine science concentration)
- Microbiology
- Chemistry (BA, BS)
- Interdisciplinary Natural Sciences (INS)
- Medical Technology and
- Pre-medical sciences students (PMS) who have not yet declared a major

All students entering USF for the first time, in Fall 2009 or later, who subsequently earn three (3) D and/or F grades in applicable USF science and math coursework for their major (i.e. Math, Biology, Chemistry and Physics) will be required to change their major to a major more appropriate to their goals and academic performance, and to a major that is not conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

All continuing USF students who entered USF prior to Fall 2009 and who have not earned any D or F grades in USF science and math coursework for their major (i.e. Math, Biology, Chemistry and Physics) before Fall 2009, will also be redirected after earning three (3) D and/or F grades in subsequent terms. Upon earning the 3rd D and/or F grade, students will be required to choose another major more appropriate to their goals and academic performance, and to one that is not conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

All continuing USF students who entered USF prior to Fall 2009 and who have earned one (1) or more D or F grades in USF science and math coursework for the major (i.e. Math, Biology, Chemistry and Physics) prior to Fall 2009, will be allowed to count all previous D/F grades as one (1) D/F grade. After Fall 2009, students who earn two (2) additional D and/or F grades (resulting in three (3) total D/F grades) in subsequent terms will be required to choose another major more appropriate to their goals and academic performance, and to one that is not conferred by the

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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 in violation of 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 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

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

Twelve 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

This program intends for students to complete a B.S. in Interdisciplinary Natural Sciences (College of Arts and Sciences) and a M.A.T. in Secondary Science (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 credits toward the M.A.T. in Science Education during their senior year of their B.S. in Interdisciplinary Natural Sciences. This accelerated program shares 12 credits between already existing degrees/concentrations:

- B.S. in Interdisciplinary Natural Sciences
- M.A.T. in Science Education

### Target students and expected outcomes

The accelerated Bachelor's to M.A.T. in Science Education program is a collaborative effort between the College of Arts and Sciences and the College of Education. This program is an attractive and viable career path for students in the Department of Chemistry's degree program that results in secondary science teacher certification. Students who complete this program receive the necessary science content and pedagogy coursework to be highly qualified science teachers at the secondary level.

### Description and Requirements

For admission to the program a student must:

1. Have completed 15 hours in the B.S. in Interdisciplinary Natural Sciences major upon applying and thirty (30) semester hours in science (includes twenty-one (21) semester hours in a science concentration (e.g. chemistry, biology, physics) plus 9 hours in minor science content area) with associated laboratory experiences to be fully admitted as a graduate student in the M.A.T. Science Education Program. Evidence of successfully completing all sections of the General Knowledge Test (GKT) is also required for full admission to the graduate program
2. Have a minimum 3.0 GPA overall; and
3. Have a minimum undergraduate 3.25 GPA in the major.

### **Undergraduate Degree Requirements for the B.S. in Interdisciplinary Natural Sciences**

All Interdisciplinary Natural Sciences (INS) students will complete FLENT and Summer Enrollment requirements as well as graduation requirements listed in the catalog: <http://www.uqs.usf.edu/pdf/cat1213/08ACADEMICPOL.pdf>.

Specifically, according to the BOG Articulation Regulation 6A-10.030; earn a minimum of 48 semester hours of upper-level work (courses numbered 3000 and above), therefore, INS students will take 21 credits of additional 3000+ level coursework in addition to their required major and exit courses listed below. Of this 21 credits, 12 credits will be shared with the M.A.T. Science Education program. The entire undergraduate program will total no more than 120 credits.

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## Foundations of Knowledge and Learning Coursework – 36 credit hours:

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

## Capstone Experience – 6 credit hours

- Capstone (CPST)
- Writing Intensive (WRIN)

## TIER 1 – 30-40 credit hours:

Two introductory courses in each of 5 natural sciences areas (Mathematics, Physics, Chemistry, Biology, and Geology):

### Biology:

- BSC 2010 Cellular Processes
- BSC 2010L Cellular Processes Laboratory
- BSC 2011 Biodiversity
- BSC 2011L Biodiversity Laboratory

### Chemistry:

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab
- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab
- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Lab
- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II Lab

### Mathematics:

- MAC 2241 Life Sciences Calculus I or MAC 2311 or MAC 2281
- MAC 2242 Life Sciences Calculus II or MAC 2312 or Mac 2282 or STA 2023 Introductory Statistics

### Physics:

- PHY 2053 General Physics I or PHY 2048
- PHY 2053L General Physics I Lab or PHY 2048L
- PHY 2054 General Physics II or PHY 2049
- PHY 2054L General Physics II Lab or PHY 2049L

### Geology:

- GLY 2010 Dynamic Earth: Introduction to Physical Geology
- GLY 2000L Essentials Geology Lab
- GLY 2100 History of Life
- GLY 2100L Earth History Lab

## TIER 2 – 24 credit hours:

Students are required to complete a minimum of 24 credit hours with Tier 2 coursework. A minimum of 6 credit hours of 3000- to 5000-level courses in three of the five natural sciences areas is required. All Tier 2 courses in the sciences will be selected by the individual student, but must be chosen from the list of courses approved for department major credit.

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

## Shared B.S./M.A.T. Requirements

According to the BOG Articulation Regulation 6A-10.030; earn a minimum of 48 semester hours of upper-level work (courses numbered 3000 and above), therefore, the B.S. in Interdisciplinary Natural Sciences students will take 18 credits of additional 3000+ level coursework in addition to their required major and exit courses listed below. Of this 18 credits, 12 credits will be shared with the MAT Science Education program. The shared courses are listed below:

- SCE 6938 Topics in Science Education: Field Practicum
- SCE 5325 Methods for Middle Grades Science Education
- SCE 5337 Methods for Secondary Science Education
- SCE 6456 Teaching the Physical Sciences

## Graduate Degree Requirements for Accelerated M.A.T in Science Education

### PROGRAM REQUIREMENTS

Note: that all M.A.T. programs include as an admission requirement the passing of all sections of the General Knowledge Test (GKT). Applicants who can document they lived outside the state or country and did not have access

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to take the GKT before the application deadline may submit passing Praxis scores or GRE scores to be considered for admission. Whether admitted with passing Praxis scores or acceptable GRE scores, the applicant must submit passing scores on the GKT before the last day of classes of the semester of first enrollment, or admission to the College of Education will be revoked,

## **Total Minimum Program Hours: 39 hours**

The courses required for the M.A.T. in Science Education are listed below. Please check with the program for other program requirements.

### **Core Requirements**

#### **Process Core (33 hours minimum)**

EDF 6432	Foundations of Measurement
ESE 5342	Teaching the Adolescent Learner
ESE 5344	Classroom Management for a Diverse School and Society
TSL 5325	ESOL Education in Content Areas
SCE 5564	Reading and Communication Science Education
SCE 5325	Methods for Middle Grades Science Education
SCE 5337	Methods for Secondary Science Education
SCE 6416	Teaching Secondary School Biology
SCE 6456	Teaching Secondary School Physical and Earth Science
SCE 6634	Current Trends in Secondary Science Education
SCE 6938	Topics in Science Education: Field Practicum
SCE 6947	Internship (PR: CI and passing scores of FTCE exam)

Student's participation in the internship experience in classes that correspond to the specific area in which he or she will be certified.

Passing score on the appropriate subject area exam.

Student's content degree or equivalent (an admission's requirement).

\*Shared courses between B.S. Interdisciplinary Natural Sciences and M.A.T. Science Education

### **Comprehensive Examination**

A written narrative exam tailored to the individual student. The written exam must be completed two weeks prior to final exam week of the student's graduating semester. Exams will only be accepted during fall or spring semesters, unless a previous contract is established with the student's graduate advisor.

### **Timeline and benchmarks:**

1. To be considered for acceptance into the Accelerated B.S./M.A.T. Science Education students must have completed a minimum of 15 credit hours in the Interdisciplinary Natural Sciences undergraduate major.
2. Students must have a minimum undergraduate GPA of 3.0 overall, and a minimum GPA of 3.25 in the major and passing scores on all sections of the General Knowledge Test (GKT) to be eligible for the accelerated degree program. You can find information on the General Knowledge Test on the Florida Teacher Certification section of the following webpage: <http://www.fl.nesinc.com/>
3. Following completion of a minimum of 15 hours in the undergraduate major, students may be considered for acceptance into the accelerated program through faculty nomination or student self-nomination, via submission of an *Accelerated Program Application Form*. Both B.S. and M.A.T. programs will review the applications and approve the nominations. All applications require the approval of USF's Graduate School, the College of Education's Graduate Program, and the Department of Chemistry's Undergraduate Program.
4. To be promoted to graduate status, students must meet all admission requirements of the M.A.T. in Science Education in the College of Education. Specifically, the following materials must be submitted:
  - Undergraduate transcripts; and evidence of possessing a degree in a science discipline (biology, chemistry, physics, geology, etc.) that is taught in a middle or high school, or comparable coursework in a science teaching field acceptable to the program faculty.
  - A minimum of 21 hours in a major science content area of concentration (e.g., chemistry, biology, physics) plus 9 hours in minor science content area are required to teach secondary school.
    - Note, to teach secondary science in a specialty area (e.g. chemistry, biology, physics) the State of Florida requires: A bachelor's or higher degree with thirty (30) semester hours in science to include twenty-one (21) semester hours in that specialty area with associated laboratory experiences.
  - Documentation of GKT scores.
5. Students must earn a minimum of a "B" (3.00) in all graduate courses. Failure to earn at least a "B" in a graduate course will result in academic review by the graduate program. Failure to maintain a minimum 3.0 GPA will result in academic probation, according to the procedures of the USF Office of Graduate Studies.

A comprehensive plan of study to complete the integrated B.S./M.A.T program will be developed with the guidance of an advisor and a faculty member. A possible plan of study could be as follows. Summer sessions may also be included in the study plan.

### **First and Second Years**

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Courses and credits as designated for freshman and sophomore years

## Third Year

Apply for Admission to the Integrated B.S./M.A.T. program.

## Fourth Year

Student accepted in M.A.T. in Science Education program complete the following shared credits:

SCE 6938	Topics in Science Education: Field Practicum
SCE 5325	Methods for Middle Grades Science Education
SCE 5337	Methods for Secondary Science Education
SCE 6456	Teaching the Physical Sciences

## Fifth Year

EDF 6432	Foundations of Measurement
ESE 5342	Teaching the Adolescent Learner
ESE 5344	Classroom Management for a Diverse School and Society
TSL 5325	ESOL Education in Content Areas
SCE 5564	Reading and Communication Science Education
SCE 6416	Teaching Secondary School Biology
SCE 6634	Current Trends in Secondary Science Education
SCE 6947	Internship (PR: CI and passing scores of FTCE exam) Comprehensive Examination

## Advising Information

Department of Chemistry Advising: [chemadvise@usf.edu](mailto:chemadvise@usf.edu) or <http://chemistry.usf.edu/advising/>.

## INTERDISCIPLINARY NATURAL SCIENCES FACULTY

*Chairperson and Professor:* R. Larsen; *Associate Chairperson and Professor:* J.E. Lewis; *Distinguished University Professor Emeritus:* D.F. Martin; *Emeritus Professors:* J.C. Davis, Jr., J.E. Fernandez, L. Mandell, R.M. O'Malley, G. Solomons; *Professors:* B.J. Baker, M. Eddaoudi, W.C. Guida, J.P. Harmon, M.D. Johnston, J. Leahy, M.L. McLaughlin, G.G. Meisels, D.J. Merkler, L. Ming, R. Potter, B. Space, E. Turos, P. Zhang; *Associate Professors:* J. Antilla, K.S. Bisht, A. Malik, A. van der Vaart; *Assistant Professors:* J. Cai, I. Gelis, S. Lewis, S. Ma, J. Raker, D. Rogers, L. Woodcock; *Research Professor:* M. Acevedo-Duncan; *Research Assistant Professors:* X. Cui, M. Kumar, E. Rivera, L. Wojtas; *Instructors:* L. Anderson, D. Cruz-Ramírez de Arellano, K. Fields, U. Kulatunga, C. Vetromile, S.T. Weldegirma.

## • B.A. - INTERDISCIPLINARY SOCIAL SCIENCES (ISS) (CIP = 45.0101) TOTAL DEGREE HOURS: 120

[http://iss.usf.edu/major\\_requirements/](http://iss.usf.edu/major_requirements/)

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.

## STATE MANDATED COMMON COURSE PREREQUISITES

Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

XXX XXXX (6 credit hours) Two introductory courses in a Social Sciences discipline.

## REQUIREMENTS FOR THE MAJOR IN INTERDISCIPLINARY SOCIAL SCIENCES TOTAL MAJOR HOURS: 30-33

### Major requirements for the B.A. Degree:

#### Major Core (18 hours)

ISS students choose two concentration areas and complete twelve hours in each. Note: The Public Health concentration requires 15 hours of coursework.

Concentration areas must be selected from the areas of study listed below:

Africana Studies, American Studies, Anthropology, Communication, Criminology, Economics, Environmental Science and Policy, Geography, Gerontology, History, Humanities, International Studies, Interpreter Training,

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Language, Speech and Hearing, Latin American, Caribbean and Latino Studies, Library and Information Sciences, Mass Communications, Multidisciplinary Behavioral Healthcare, Political Science, Psychology, Public Administration, Public Health, Religious Studies, Sociology, Women's Studies.

The completion of 42 approved hours of coursework from the College of Arts and Sciences (CAS) is required, with a minimum of 30 hours at the 3000-or above level.

Required core courses for the major are:

ISS 3010 Introduction to Social Sciences

ISS 4935 Seminar in the Social Sciences

STA 2122 Social Sciences Statistics

One course in each of the following areas:

○ African American Studies

○ International Studies

○ Women's Studies

Two of these courses, ISS 3010 Introduction to the Social Sciences and ISS 4935 Seminar in the Social Sciences, introduce and employ the interdisciplinary social science perspective. These courses involve students in the study of human life and experience; the various concepts, theories and methods used in the social sciences; and apply them to contemporary issues and questions. STA 2122 Social Science Statistics is the third core course required for majors in Interdisciplinary Social Sciences.

## 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.

## Other Requirements

ISS majors must satisfy two semesters of a foreign language in order to 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 for Undergraduate Research](#) will assist students in understanding the various course options.

## 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 CONCENTRATIONS**

### **REQUIREMENTS FOR THE CONCENTRATION IN AFRICANA STUDIES (AFA)**

**TOTAL CONCENTRATION HOURS: 12**

#### **Concentration Core (12 hours)**

Student should choose either Option 1 or Option 2.

Option 1:

AFA 2000 Introduction to Black Experience

3 Upper level major electives 3000-4000

Option 2:

4 Upper level major electives 3000-4000

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## REQUIREMENTS FOR THE CONCENTRATION IN AMERICAN STUDIES (AMS)

**TOTAL CONCENTRATION HOURS: 12**

### Concentration Core (12 hours)

AMS 2030 Introduction to American Studies  
AMS 2212 Nineteenth Century Culture  
AMS 2270 Twentieth Century Culture  
Three hour upper-level major elective

## REQUIREMENTS FOR THE CONCENTRATION IN ANTHROPOLOGY (ANT)

**TOTAL CONCENTRATION HOURS: 12**

### Concentration Core (12 hours)

ANT 2000 Introduction to Anthropology  
3 Upper level major electives 3000-4000

## REQUIREMENTS FOR THE CONCENTRATION IN COMMUNICATION (SPE)

**TOTAL CONCENTRATION HOURS: 12**

### Concentration Core (12 hours)

COM 2000 Introduction to Communication  
SPC 3544 Persuasion and Media or SPC 3301 Interpersonal Communication  
Any two upper-division COM or SPC classes

## REQUIREMENTS FOR THE CONCENTRATION IN CRIMINOLOGY (CCJ)

**TOTAL CONCENTRATION HOURS: 12**

### Concentration Core (12 hours)

CCJ 3024 Survey of Criminal Justice  
3 Upper-level major electives

## REQUIREMENTS FOR THE CONCENTRATION IN ECONOMICS (ECO)

**TOTAL CONCENTRATION HOURS: 12**

### Concentration Core (12 hours)

ECO 2013 Economic Principles (Macroeconomics)  
ECO 2023 Economic Principles (Microeconomics)  
2 Upper level major electives 3000-4000

## REQUIREMENTS FOR THE CONCENTRATION IN ENVIRONMENTAL SCIENCE AND POLICY (ESP)

**TOTAL CONCENTRATION HOURS: 12**

### Concentration Core (12 hours)

EVR 2001 and EVR 2001L Intro to Environmental Science  
EVR 2861 Intro to Environmental Policy  
PHI 3640 Environmental Ethics  
POS 3697 Environmental Law

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## REQUIREMENTS FOR THE CONCENTRATION IN GEOGRAPHY (GPY)

**TOTAL CONCENTRATION HOURS: 12**

### Concentration Core (10 hours)

GEO 2200 Intro to Physical Geography  
GEO 2200L Intro Physical Geography Lab  
GEO 2400 Human Geography  
GIS 3006 Computer Cartography

### Concentration Electives (2 hours)

Two credit hours of upper-level major coursework

## REQUIREMENTS FOR THE CONCENTRATION IN GERONTOLOGY (GEY)

**TOTAL CONCENTRATION HOURS: 12**

### Concentration Core (12 hours)

GEY 2000 Intro to Gerontology  
3 Upper level major electives 3000-4000

## REQUIREMENTS FOR THE CONCENTRATION IN HISTORY (HTY)

**TOTAL CONCENTRATION HOURS: 12**

### Concentration Core (12 hours)

12 hours Upper level major elective 3000-4000

## REQUIREMENTS FOR THE CONCENTRATION IN HUMANITIES (HUM)

**TOTAL CONCENTRATION HOURS: 12**

### Concentration Core (12 hours)

HUM 2211 Studies in Culture - Medieval OR HUM 2243 Studies in Culture-Renaissance through 20th Cty  
HUM 3331 Themes in Humanities  
6 credit hours of upper-level major coursework

## REQUIREMENTS FOR THE CONCENTRATION IN INTERNATIONAL STUDIES (INT)

**TOTAL CONCENTRATION HOURS: 12**

### Concentration Core (12 hours)

12 hours Upper level major electives 3000-4000

## REQUIREMENTS FOR THE CONCENTRATION IN INTERPRETER TRAINING (TIS)

**TOTAL CONCENTRATION HOURS: 12**

### Concentration Core (12 hours)

INT 4250 Simultaneous Interpreting Monologues  
INT 4251 Simultaneous Interpreting Dialogues  
INT 3004 Fundamentals of Interpreting  
INT 4190 Senior Seminar Interpreting

## REQUIREMENTS FOR THE CONCENTRATION IN LANGUAGE, SPEECH, AND HEARING (SAH)

**TOTAL CONCENTRATION HOURS: 12**



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## **Concentration Core (12 hours)**

Students should choose 4 of the following:

- SPA 3112 Applied Phonetics in Communication Disorders
- SPA 3002 Introduction to Speech & Language Disorders
- SPA 3030 Introduction to Hearing Science
- SPA 3004 Introduction to Language Development & Disorders
- SPA 3310 Introduction to Hearing Disorders
- SPA 3101 Anatomy & Physiology of the Speech & Hearing
- SPA 3011 Introduction to Speech Science
- SPA 4930 Neuroanatomy

## **REQUIREMENTS FOR THE CONCENTRATION IN LATIN AMERICAN, CARIBBEAN, AND LATINO STUDIES (LAS) TOTAL CONCENTRATION HOURS: 12**

### **Concentration Core (12 hours)**

12 hours Upper level major electives 3000-4000

## **REQUIREMENTS FOR THE CONCENTRATION IN LIBRARY AND INFORMATION SCIENCES (LIS) TOTAL CONCENTRATION HOURS: 12**

### **Concentration Core (12 hours)**

- LIS 2937 Selected Topics
- LIS 3361 WWW Page Design & Management
- LIS 4930 Selected Topics or LIS 5000-level course
- LIS 4000- or 5000-level course

## **REQUIREMENTS FOR THE CONCENTRATION IN MASS COMMUNICATIONS (COM) TOTAL CONCENTRATION HOURS: 12**

### **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 4220 TV Production and Direction
- VIC 3001 Introduction to Visual Communications

## **REQUIREMENTS FOR THE CONCENTRATION IN MULTIDISCIPLINARY BEHAVIORAL SCIENCES (MDS) TOTAL CONCENTRATION HOURS: 12**

### **Concentration Core (12 hours)**

- MHS 3411 Multidisciplinary Behavior Healthcare
- MHS 4931 Top: Behavioral Healthcare
- MHS 4002 Behavioral Health Systems
- MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment

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## REQUIREMENTS FOR THE CONCENTRATION IN POLITICAL SCIENCE (POL)

**TOTAL CONCENTRATION HOURS: 12**

### Concentration Core (12 hours)

POS 2041 American National Government  
3 Upper level major electives 3000-4000

## REQUIREMENTS FOR THE CONCENTRATION IN PSYCHOLOGY (PSY)

**TOTAL CONCENTRATION HOURS: 12**

### Concentration Core (12 hours)

PSY 3213 Research Methods in Psychology  
3 Upper level major electives 3000-4000

## REQUIREMENTS FOR THE CONCENTRATION IN PUBLIC ADMINISTRATION (PAD)

**TOTAL CONCENTRATION HOURS: 12**

### Concentration Core (12 hours)

12 hours Upper level major elective 3000-4000

## REQUIREMENTS FOR THE CONCENTRATION IN PUBLIC HEALTH (PUB)

**TOTAL CONCENTRATION HOURS: 15**

### Concentration Core (12 hours)

PHC 4100 Introduction to Public Health  
HSC 4551 Survey of Human Diseases  
HSC 4537 Medical Terminology  
PHC 4030 Introduction to Epidemiology

### 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 3541 Human Structure and Function  
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 3721 Research Methods in Environmental and Occupational Health  
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 4406 Pop Culture, Vices and Epidemiology

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PHC 4542 Stress, Health and College Life  
PHC 4931 Health Care Ethics

## REQUIREMENTS FOR THE CONCENTRATION IN RELIGIOUS STUDIES (REL)

**TOTAL CONCENTRATION HOURS: 12**

### Concentration Core (12 hours)

REL 2300 Introduction to World Religions  
REL 3040 Introduction to Religious Studies  
2 Upper level major electives 3000-4000

## REQUIREMENTS FOR THE CONCENTRATION IN SOCIOLOGY (SOC)

**TOTAL CONCENTRATION HOURS: 12**

### Concentration Core (12 hours)

SYG 2000 Intro to Sociology  
SYA 3110 Classical Theory  
SYA 3300 Research Methods or SYA 3310 Qualitative Inquiry  
Upper level major elective 3000-4000

May take SYA 4935 in place of ISS 4935

\*\*CANNOT COUNT GEY 4641 or GEY 3625 FOR THIS COGNATE\*\*

## REQUIREMENTS FOR THE CONCENTRATION IN WOMEN'S STUDIES (WST)

**TOTAL CONCENTRATION HOURS: 12**

### Concentration Core (12 hours)

Students must select one from:

WST 3311 Issues in Feminism  
WST 4310 History of Feminism in the U.S.  
WST 3210 European Feminist History Pre-18th Century  
WST 3220 European Feminist History Enlightenment to Present

And then complete:

3 Upper Level Women's Studies Courses

## INTERDISCIPLINARY SOCIAL SCIENCES FACULTY

Director: Sara Green.

### • B.A. - INTERNATIONAL STUDIES (INT) (CIP = 45.0901)

**TOTAL DEGREE HOURS: 120**

<http://gia.usf.edu/is/>

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 wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

While the International Studies program does not have mandatory prerequisites, a student may apply up to ten credit hours of lower-level courses from the following list of courses:

AFS 2250 Culture and Society in Africa

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ANT	2410	Cultural Anthropology
GEA	2000	World Regional Geography
CPO	2002	Introduction Comparative Politics
INR	2002	Introduction to International Relations
REL	2300	Introduction to World Religions
GEB	2350	Doing Business Around the World.

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## 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 semester hours. At least 27 of these 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 Developing Areas
INR	3202	International Human Rights or INR 4502 International Organizations

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

#### Major Electives (18 hours)

The additional 18 hours must include at least three elective courses (9 hours) from within the Department of Government and International Affairs; the remaining 9 hours can be selected from courses offered from other departments which are approved by the major advisor as having adequate international or cross-cultural content.

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 Government & International Affairs Department, 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 for Undergraduate Research](#) will assist students in understanding the various course options.

### Internship Opportunities

The Government & International Affairs department 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 Government & International Affairs department allows up to 6 credits of 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 unpaid 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://gia.usf.edu/el/isi/>.

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## 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://gia.usf.edu/advisor/>.

## REQUIREMENTS FOR THE MINOR IN INTERNATIONAL STUDIES (INT) TOTAL MINOR HOURS: 18

<http://gia.usf.edu/is/>

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 Developing Areas
- INR 3202 International Human Rights or INR 4502 International Organizations

### Minor Electives (6 hours)

Two (2) upper-level courses (6 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://gia.usf.edu/advisor/>.

## INTERNATIONAL STUDIES FACULTY

*Professors:* J.E. Benton, E. Conteh-Morgan, A. Hechiche, S. MacManus, J. Merrick, M.M. Milani, D. Slider, H.E. Vanden; *Associate Professors:* M.M. Amen, K. Caruson, M.T. Gibbons, C.A. Hall, D. Peng, B. Reiter, S. Roach, M.S. Solomon, S. Tauber; *Assistant Professors:* E. Choi, P. Funke, S. Pemberton, J. Woo; *Professor Emeritus:* H. Nelson, F.U. Ohaegbulam.

## • B.A. - ITALIAN (ITA) (CIP = 16.0902) TOTAL DEGREE HOURS: 120

<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.

## STATE MANDATED COMMON COURSE PREREQUISITES

Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

To complete a major in Italian, students should demonstrate proficiency at the intermediate level within the target language. This may be accomplished by completing 6-12 hours within the language or by demonstrated competency at the intermediate level. If this coursework (or associated competency) is not completed at a Florida College System institution, it must be completed before the degree is granted. A grade of "C" is the minimum acceptable grade.

## REQUIREMENTS FOR THE MAJOR IN ITALIAN TOTAL MAJOR HOURS: 30

Major requirements for the B.A. Degree:

### Major Core (18 hours)

- ITA 2200 Italian III

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ITA	2201	Italian IV
ITA	2240	Italian Conversation
ITA	3234	Reading and Writing in Italian
ITT	3504	Italian Culture through Film
ITT	4531	Italian Food in Film

## Major Electives (12 hours)

Students choose 12 credit hours of coursework (taught in either Italian or English) from the following list of courses, planned with an advisor:

ITA	2240	Italian Conversation
ITA	3470	Overseas Study
ITA	4930	Selected Topics
ITW	4905	Directed Study

## 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 for Undergraduate Research will assist students in understanding the various course options.

## Advising Information

Ms. Yury Riascos  
[languagesadvise@usf.edu](mailto:languagesadvise@usf.edu)

## REQUIREMENTS FOR THE MINOR IN ITALIAN (ITA)

**TOTAL MINOR HOURS: 15**

<http://languages.usf.edu/undergraduate/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

Ms. Yury Riascos  
[languagesadvise@usf.edu](mailto:languagesadvise@usf.edu)

## CERTIFICATE IN ITALIAN STUDIES

**TOTAL CERTIFICATE HOURS: 23-28**

[http://italianstudies.cas.usf.edu/Italian\\_Studies\\_Program.pdf](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 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.

## REQUIREMENTS FOR THE CERTIFICATE IN ITALIAN STUDIES

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Students are required to take between 23 and 28 semester hours from a list of courses approved for the certificate. A Faculty Advisory Committee will coordinate the Certificate of Italian Studies. Students may receive credit for courses, not included in the below list, or (if circumstances require it) may substitute a required course with another, by petitioning and if approved by the Advisory Committee.

### **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 3123 Roman Civilization
- CLT 3102 Roman Literature in Translation
- ITA 1120 Beginning Italian I
- ITA 1121 Beginning Italian II
- ITA 2200 Intermediate Italian I
- ITA 2240 Italian Conversation I
- ITA 2241 Italian Conversation II
- ITA 3420 Composition
- ITA 3470 Overseas Study
- ITW 4100 Survey of Italian Literature I
- ITW 4101 Survey of Italian Literature II
- ITW 4905 Directed Study
- LAT 1120 Beginning Latin I

#### Theatre:

- THE 4480 The Theatre of Luigi Pirandello

\*Please see an academic advisor for appropriate Special/Selected Topics courses.

**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 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

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## 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](mailto:itastudies@cas.usf.edu).

## ITALIAN FACULTY

*Chairperson:* S.K. Schindler; *Professors:* G.A. Brulotte, M. Camara, V.E. Peppard, C.M. Probes; *Associate Professors:* P. Brescia, C.J. Cano, M. Grieb, I. Kantzios, P. La Trecchia, K. Simeon-Jones, C. Vasquez, W. Zhu; *Assistant Professors:* D. Arbesu, M.H. Chiang, A. Huensch, A. Latowsky, E. Manolaraki, C. Polt, X. Qin, H. Scharm, E. Shepherd, A. Thompson, N. Tracy-Ventura; *Instructors:* S. Amer, M. Chinea-Thornberry, C. Davies, A. De La.

## • 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 should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of C- is the minimum acceptable grade.

BSC X010/X010L Biology I with Lab **or** BSC X010C **or** BSC X040/X040L

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

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 **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

TOTAL MAJOR HOURS: 72-76

**Major requirements for the B.S. Degree:**

**Major Core (26-27 hours)**

**Required Courses (26-27 credit 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

BSC 3312 Marine Biology

BSC 4937 Seminar in Marine Biology

**Choose one of:**

BOT 3373C Vascular Plants

MCB 3020 and MCB 3020L General Microbiology and Laboratory

ZOO 2303 Vertebrate Zoology and BSC 4933 Selected Topics in Biology\*

ZOO 3205C Advanced Invertebrate Zoology

ZOO 3713C Comparative Vertebrate Anatomy

\*Selected topics as approved for the major by the Department of Integrative Biology

**Major Electives (46-49 hours)**

**Elective Courses (14-15 credit hours):**

BCH 3023 Introductory Biochemistry

BCH 3023L Basic Biochemistry Laboratory



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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	5049	GIS for Non-Majors
GLY	4734	Beaches and Coastal Environments
OCB	6050	Biological Oceanography
OCC	6050	Chemical Oceanography
OCE	4930	Selected Topics in Marine Science
OCE	6934	Selected Topics in Oceanography
OCG	6051	Geological Oceanography
OCP	6050	Physical Oceanography
PCB	3712	General Physiology and PCB 3713L General Physiology Laboratory
PCB	4674	Organic Evolution
PCB	4723	Animal Physiology and PCB 4723L Animal Physiology Laboratory
MCB	3020	General Microbiology
MCB	3020L	General Microbiology Laboratory
MCB	4404	Microbial Physiology and Genetics and MCB 4404L Microbial Physiology & Genetics Laboratory
MCB	5655	Applied and Environmental Microbiology
ZOO	2303	Vertebrate Zoology
ZOO	3205C	Advanced Invertebrate Zoology
ZOO	4454	Fish Biology
ZOO	4513	Animal Behavior
ZOO	5555C	Marine Animal Ecology

## **Supporting Courses in the Natural Sciences and Mathematics: 32-34 credit hours**

Students must receive a C- or better to meet requirements for degree (for progression in Math and CHM, a C is required)

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 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

All students majoring in one of the programs offered through the departments of Integrative or Cell Biology, Microbiology and Molecular Biology and entering USF for the first time, in Fall 2009 or later, who subsequently earn three (3) D and/or F grades in USF coursework for their major and/or supporting coursework will be required to change to majors more appropriate to their goals and academic performances. Those majors may not include any conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology and Molecular Biology.

All *continuing* USF students who entered USF prior to Fall 2009 and who have not earned any D or F grades in USF major coursework or supporting coursework by the beginning of Fall 2009, will also be allowed three (3) D and/or F grades in subsequent terms before being required to choose another major more appropriate to their goals and academic performances, and not including any conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology and Molecular Biology.

Any *continuing* USF students who enter USF prior to Fall 2009 and who have earned greater than or equal to one (1) D or F grade in USF coursework for their major coursework or supporting coursework by the beginning of Fall 2009, will be allowed only two (2) more D and/or F grades in subsequent semesters before being required to choose other majors more appropriate to their goals and academic performances, and not including any majors conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology and Molecular Biology.

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

A minimum of 6 credit hours at the 4000-level should be taken.

A maximum of 6 credit hours may be taken outside of the department with prior approval.

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## 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 free 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

This program intends for students to complete a Bachelor of Science in Marine Biology (College of Arts and Sciences) and an M.A.T. in Secondary Science (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 credits toward the M.A.T. in Science Education during the senior year of their undergraduate Marine Biology major.

## Target students and expected outcomes

The accelerated B.S. in Marine Biology to M.A.T. in Science Education program is a collaborative effort between the College of Arts and Sciences and the College of Education. This program is an attractive and viable career path for students in the Department of Integrative Biology degree programs that results in secondary science teacher certification. Students who complete this program receive the necessary science content and pedagogy coursework to be highly qualified biology teachers at the secondary level.

## Description and Requirements

For admission to the program a student must:

1. Have completed 15 hours in the B.S. Marine Biology major upon applying and thirty (30) semester hours in science (includes twenty-five (25) semester hours in biology plus 5 hours of upper-level work in math or supporting science content area) with associated laboratory experiences to be fully admitted as a graduate student in the M.A.T. Science Education program. Evidence of successfully completing all sections of the General Knowledge Test (GKT) is also required for full admission to the graduate program.
2. Have a minimum 3.0 GPA overall; and
3. Have a minimum undergraduate 3.25 GPA in the major.

## Undergraduate Degree Requirements for the Bachelor of Science in Marine Biology

### B.S. Marine Biology Major Degree Requirements

All Marine Biology major students will complete graduation requirements listed in the undergraduate catalog.

### University and College Requirements:

- 120 hours
- 36 hours of general education coursework
- 6 hours upper-level core curriculum (Writing Intensive Capstone and Capstone Experience)
- 48 hour upper-level rule
- Summer rule
- **USF Residency** - Students must complete 30 hours of the last 60 hours in USF coursework.
- **FLENT** (Foreign Language Entrance Requirement)
- **Gordon Rule** Communication and Computation

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## **Specialization Requirements for Certification in Separate Areas of Science (Grades 6-12):**

In order to be eligible for certification in a separate area of science, students must complete a minimum of thirty (30) semester hours in science to include twenty-one (21) semester hours in the area of desired specialization (chemistry, biology, physics, earth-space science).

### **Marine Biology Major Requirements: 72-74 hours total**

- Must receive a C- or better to meet major requirements.
- Cascading prerequisites are strictly enforced. CR = co-requisite, courses that can be taken concurrently.
- Must have fewer than 3 D and/or F grades in the Biology major and supporting science requirement lectures
- Must complete a minimum of 50 percent (20 credit hours) of Marine Biology major requirements at USF Tampa

### **Biology Core Curriculum: 16 credit hours**

BSC 2010 & 2010L Cellular Processes/Laboratory  
BSC 2011 & 2011L Biodiversity/Laboratory  
PCB 3043 & 3043L Principles of Ecology and Laboratory  
PCB 3063 & 3063L General Genetics and Laboratory

### **Marine Curriculum: 24 credit hours – minimum of 8 credit hours must be 4000+level**

BSC 3312 Marine Biology  
BSC 4937 Seminar in Marine Biology

Choose **one** “structure” course from the following:

BOT 3373C Vascular Plants  
BSC 4933 Selected Topics: Vertebrate Natural History and Lab  
MCB 3020C General Microbiology  
ZOO 3205C Advanced Invertebrate Zoology  
ZOO 3713C Comparative Vertebrate Anatomy

Choose 15 credit hours Marine Biology electives from the following courses

**(A minimum of 8 credit hours must be 4000-level or higher courses)**

BSC 4313C Advanced Marine Biology  
BSC 4910 Undergrad Research  
BSC 4933 Selected Topics (approved for Marine Biology major)\*  
GIS 5049\*\* GIS for Non-majors  
GLY 4734\*\* Beaches & Coastal Environments  
OCE 4930 Advanced Undergraduate Oceanography I  
OCE 4930 Advanced Undergraduate Oceanography II  
PCB 3712/PCB 3713L General Physiology  
PCB 4674 Organic Evolution  
MCB 4404/L Microbial Physiology & Genetics  
ZOO 4513 Animal Behavior  
ZOO 3407/L Biology of Sharks and Rays

Students may also select one or more of the “structure” courses which is NOT being used to meet the “structure” requirement (BOT 3373C, MCB 3020C, ZOO 2303/BSC 4933, ZOO 3205C, and/or ZOO 3713C).

A maximum of six credit hours may be taken from courses offered outside of the Biology departments with prior approval.

Students who complete ZOO 3713C in Spring 2012 and forward only need 14 hours of Marine Bio electives.

\*Check the BioAdvise permits [page](#) for a list of approved BSC 4933 Selected Topics courses for Marine Biology majors.

### **Supporting Sciences and Mathematics: 32-34 credit hours**

Students must receive a C- or better to meet requirements for degree (for progression in Math and CHM C is required)

CHM 2045 & CHM 2045L General Chemistry I and Lab  
CHM 2046 & CHM 2046L General Chemistry II and Lab  
CHM 2210 & CHM 2210L Organic Chemistry I and Lab  
CHM 2211 & CHM 2211L Organic Chemistry II and Lab  
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 General Physics sequences:  
PHY 2053/L & 2054/L General Physics I and II/Labs  
PHY 2048/L & 2049/L General Physics Calculus Based I and II/Labs

## **Graduate Degree Requirements for Accelerated M.A.T in Science Education PROGRAM REQUIREMENTS**

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All M.A.T. programs include as an admission requirement the passing of all sections of the General Knowledge Test (GKT). Applicants who can document they lived outside the state or country and did not have access to take the GKT before the application deadline may submit passing Praxis scores or GRE scores to be considered for admission. Whether admitted with passing Praxis scores or acceptable GRE scores, the applicant must submit passing scores on the GKT before the last day of classes of the semester of first enrollment, or admission to the College of Education will be revoked.

### Total Minimum Program Hours 39 credit hours minimum

The courses required for the M.A.T. in Science Education are listed below. Please check with the program for other program requirements.

#### Core Requirements

- SCE 5325 Methods of Middle Grades Science Education
  - SCE 5337 Methods of Secondary Science Education
  - SCE 6456 Teaching Secondary School Physical and Earth Science
  - SCE 6938 Topics in Science Education: Field Practicum
  - EDF 6432 Foundations of Measurement
  - ESE 5342 Teaching the Adolescent Learner
  - ESE 5344 Classroom Management for a Diverse School and Society
  - SCE 5564 Reading and Communication in Science Education
  - SCE 6416 Teaching Secondary School Biology
  - SCE 6634 Current Trends in Secondary Science Education
  - SCE 6947 Internship in Secondary Education for Social Science (PR: CI and passing scores of FTCE exam)
  - TSL 5325 ESOL Strategies for Content Area Teachers
- Comprehensive Examination
- o Student's participation in the internship experience in classes that correspond to the specific area in which he or she will be certified.
  - o Passing score on the appropriate subject area exam.
  - o Student's content degree or equivalent (an admission's requirement).

#### Comprehensive Examination

A written narrative exam tailored to the individual student. Exam needs to be completed by two weeks before final exam week of the student's graduating semester. Exams will only be accepted during fall or spring semester, unless previous contract is established with the student's advisor.

**COURSES** (<http://ugs.usf.edu/course-inventory/>)

#### Timeline and benchmarks:

1. To be considered for acceptance into the Accelerated B.S. Marine Biology/M.A.T. Science Education program students must have completed a minimum of 15 credit hours in the Marine Biology undergraduate major.
2. Students must have a minimum undergraduate GPA of 3.0 overall, and a minimum GPA of 3.25 in the major and passing scores on all sections of the General Knowledge Test (GKT) to be eligible for the accelerated degree program. Information on the General Knowledge Test on the Florida Teacher Certification section may be found on the webpage: <http://www.fl.nesinc.com/>
3. Following completion of a minimum of 15 hours in the undergraduate major, students may be considered for acceptance into the accelerated program through faculty nomination or student self-nomination, via submission of an *Accelerated Program Application Form*. Both B.S. and M.A.T. programs will review the applications and approve the nominations. All applications require the approval of the College of Education Graduate Program, the College of Arts and Sciences, and the USF Graduate School.
4. To be promoted to graduate status, students must meet all admission requirements of the M.A.T. in Science Education in the College of Education. Specifically, the following materials must be submitted:
  - a. Undergraduate transcripts;
  - b. Evidence of possessing a degree in a science discipline (Biology, Chemistry, Physics, Geology, etc.) that is taught in a middle or high school, or comparable coursework in a science teaching field acceptable to the program faculty;
  - c. A bachelor's or higher degree in biology or a bachelor's or higher degree with thirty (30) semester hours in science to include twenty-one (21) semester hours in biology with associated laboratory experiences.
  - d. Documentation of GKT scores.
5. Students must earn a minimum of a "B" (3.00) in all graduate courses. Failure to earn at least a "B" in a graduate course will result in academic review by the graduate program. Failure to maintain a minimum 3.0 GPA will result in academic probation, according to the procedures of the USF Office of Graduate Studies.

A comprehensive plan of study to complete the accelerated B.S./M.A.T program will be developed with the guidance of an advisor and a faculty member. A possible plan of study could be as follows:

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**Note:** Summer sessions may also be included in the study plan.

## First and Second Year

Courses and credits as designated for freshman and sophomore years.

## Third Year

Apply for Admission to the Accelerated B.S./M.A.T. program

## Fourth Year

**Student accepted in M.A.T. in Science Education program complete the following credits:**

SCE 5325	Methods of Middle Grades Science Education
SCE 5337	Methods of Secondary Science Education
SCE 6456	Teaching Secondary School Physical and Earth Science
SCE 6938	Topics in Science Education: Field Practicum

## Fifth Year

EDF 6432	Foundations of Measurement
ESE 5342	Teaching the Adolescent Learner
ESE 5344	Classroom Management for a Diverse School and Society
SCE 5564	Reading and Communication in Science Education
SCE 6416	Teaching Secondary School Biology
SCE 6634	Current Trends in Secondary Science Education
SCE 6947	Internship in Secondary Education for Social Science (PR: CI and passing scores of FTCE exam)
TSL 5325	ESOL Education in Content Areas Comprehensive Examination

## Advising Information

BioAdvise: SCA 203; (813) 974-3250

<http://biology.usf.edu/bioadvise/>

Email: [bioadvise@usf.edu](mailto:bioadvise@usf.edu)

## MARINE BIOLOGY FACULTY

*Chairperson:* V. Harwood; *Professors:* S. Bell, T. Crisman, V. Harwood, E. McCoy, P. Motta, H. Mushinsky, P. Stiling; *Associate Professors:* S. Deban, G. Fox, J. Rohr, K. Scott; *Assistant Professors:* L. Johnson, M. Lajeunesse, D. Lewis, L. Martin, L. Prevost, C. Richards; *Instructors:* C. Begin, C. Osovitz, B. Predmore.

## • B.A. - MASS COMMUNICATIONS (COM) (CIP = 09.0102)

**TOTAL DEGREE HOURS: 124**

<http://masscom.usf.edu/ug/ba/>

**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- in each
3. Minimum of 30 hours (including at least 15 semester hours for which grades and a grade point average have been awarded)
4. Minimum score of 60 percent (120 out of a possible 200 points) on the Mass Communications English Diagnostic Test OR 70 percent (140 out of a possible 200 points) for students who transfer MMC 2100 or its equivalent

All majors must complete MMC 2100 Writing for the Media, and MMC 3602 Mass Communications and Society, with a minimum grade of C not C- before any other Mass Communications course may be taken. Students failing to achieve a minimum grade of C not C- in both MMC 2100 and MMC 3602 will be disallowed as majors in the School.

## 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.

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Students must complete 18 semester hours (may not include ENC or LIT prefix courses) outside the Mass Communications curriculum and beyond the 36 hours of general education requirements prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. A grade of C (not C-) is the minimum acceptable grade.

Students are **encouraged** to complete the following prerequisites, or major, support, or elective courses if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses.

- English Composition (minimum grade of C not C-)
- MMC 3602 Mass Communications and Society

Prior to being admitted to the School of Mass Communications, a student must:

1. Complete a minimum of 30 semester hours including all General Education requirements and six hours of English composition (with a minimum grade of C not C-),
2. Earn a 2.75 overall GPA,
3. Pass a School-administered English Diagnostic Test.

A maximum of nine (9) semester hours in Mass Communications courses will be accepted from a community college or other lower-level program toward a degree in Mass Communications. It is suggested that the nine hours include the equivalent of the School core curriculum and one sequence introductory course. Approval by an appropriate advisor is required.

## REQUIREMENTS FOR THE MAJOR IN MASS COMMUNICATIONS TOTAL MAJOR HOURS: 37-40

### 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 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 for 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

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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 CONCENTRATIONS**

### **REQUIREMENTS FOR THE CONCENTRATION IN ADVERTISING (ADV)**

**TOTAL CONCENTRATION HOURS: 34**

#### **Concentration Core (31 hours)**

##### **Required Courses:**

- ADV 3008 Introduction to Advertising
- ADV 3101 Advertising Creativity
- ADV 3300 Advertising Media Strategy
- ADV 3500 Advertising Research
- ADV 4600 Advertising Management
- ADV 4800 Advertising Campaigns
- ADV 4940 Advertising Practicum
- MMC 4200 Communications Law or MMC 4203 Media Ethics

##### **Specialization Courses:**

Creative Specialization (students are required to take two courses in this specialization area)

- ADV 4204 Advanced Advertising Creativity (required)
- ADV 4710 Portfolio Building

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:**

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 Communications course in which prerequisites are met

\*Please see the academic advisor for appropriate selected topics courses.

### **REQUIREMENTS FOR THE CONCENTRATION IN BROADCAST NEWS (NWS)**

**TOTAL CONCENTRATION HOURS: 31**

#### **Concentration Core (21 hours)**

- JOU 4181 Public Affairs Reporting
- MMC 4200 Communications Law
- MMC 4420 Research Methods
- RTV 3001 Introduction to Telecommunications
- RTV 3301 Broadcast News
- RTV 4304 TV News
- RTV 4320 Electronic Field Production

##### **Other Requirements:**

The following courses are required outside the School to complete sequence requirements:

- PHI 1103 Critical Thinking

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- POS 2041 American National Government  
SPC 2608 Public Speaking  
POS 2112 State and Local Government and Politics or POS 3142 Intro to Urban Politics and Government

## Concentration Electives (10 hours)

Ten (10) credit hours of elective courses, selected with advisor's approval.

## REQUIREMENTS FOR THE CONCENTRATION IN BROADCAST-PROGRAM AND PRODUCTION (PGM)

**TOTAL CONCENTRATION HOURS: 31**

### Concentration Core (21 hours)

#### Required Courses:

- MMC 4200 Communications Law  
RTV 2100 Writing for Radio and TV  
RTV 3001 Introduction to Telecommunications  
RTV 3301 Broadcast News  
RTV 4220 TV Production and Direction  
RTV 4320 Electronic Field Production  
RTV 4500 Telecommunications Programming and Management

#### Other Requirements:

The following courses are required outside the School to complete sequence requirements:

- PHI 1103 Critical Thinking  
CRW 2100 Narration and Description or ENC 3310 Expository Writing or ENC 3250 Professional Writing

### Concentration Electives (10 hours)

Ten (10) credit hours, selected with advisor's approval

## REQUIREMENTS FOR THE CONCENTRATION IN JOURNALISM-MAGAZINE (MAG)

**TOTAL CONCENTRATION HOURS: 31**

### Concentration Core (24 hours)

#### Required Courses:

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

#### Other Requirements:

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

## REQUIREMENTS FOR THE CONCENTRATION IN JOURNALISM-NEWS-EDITORIAL (JOU)

**TOTAL CONCENTRATION HOURS: 31**

### Concentration Core (21 hours)



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## Required Courses:

- JOU 2100 Beginning Reporting
- JOU 3101 Advanced Reporting
- JOU 4181 Public Affairs Reporting
- JOU 4201 News Editing I
- MMC 4200 Communications Law
- MMC 4203 Communication Ethics
- JOU 4206 Newspaper and News Publication Design or PGY 3610C Photojournalism I

## Other Requirements:

The following courses are required outside the School to complete sequence requirements:

- ECO 1000 Basic Economics
- PHI 1103 Critical Thinking
- POS 2041 American National Government
- SYG 2010 Contemporary Social Problems
- POS 2112 State and Local Government and Politics or POS 3142 Intro to Urban Politics & Government

## Concentration Electives (10 hours)

Ten (10) credit hours, selected with advisor's approval

## REQUIREMENTS FOR THE CONCENTRATION IN PUBLIC RELATIONS (PUR) TOTAL CONCENTRATION HOURS: 31

### Concentration Core (27 hours)

#### Required Courses:

- ADV 3008 Introduction to Advertising
- JOU 2100 Beginning Reporting
- MMC 4200 Communications Law or MMC 4203 Communication Ethics
- PUR 3000 Principles of Public Relations
- PUR 3500 Public Relations Research
- PUR 4100 Writing for Public Relations
- PUR 4101 Public Relations Design and Production
- PUR 4401 Public Relations: Issues, Practices, Problems
- PUR 4801 Advanced Public Relations

#### Other Requirements:

The following courses are required outside the School to complete sequence requirements:

- ECO 1000 Basic Economics
- LIS 2005 Library and Internet Research Skills
- MAN 3025 Principles of Management
- MAR 3023 Basic Marketing
- POS 2041 American National Government
- POS 2112 State and Local Government and Politics or POS 3142 Intro to Urban Politics and Government

## Concentration Electives (4 hours)

Four (4) credit hours, selected with advisor's approval

## REQUIREMENTS FOR THE 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.

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.

- FIL 3011 The Film as Mass Com II: Rhetor & Stylist

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PGY 3601C Photojournalism I  
PGY 3620 Photojournalism II  
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.

## MASS COMMUNICATIONS FACULTY

*Interim Director:* S. Bradley; *Associate Director:* K. Burns; *Professor:* F.W. Pearce; *Associate Professors:* K. Burns, S. Liu, R. Watson, K. Page Werder; *Assistant Professors:* J. Brown, M. Cho, J. Hayes, M. Mitrook; *Instructors:* T. Bell, W. Garcia, K. Hawley, C. O'Brien, K. Arnold Ruyle, D. Smith, H.J. Vincent, W. Whitt, R. Wilber; *Visiting Instructor:* C. Gugerty; *Zimmerman Program Administrator:* H.J. Vincent; *Clendinen Professor:* G. Thelen; *Courtesy Professor:* J. Gathegi; *Emerita:* D.S. Bagley III, E.J. Friedlander, L.Z. Leslie, R. Miller, B.K. Petersen.

## • B.A. - MATHEMATICS (MTH) (CIP = 27.0101 - TRACK 1 OF 4) TOTAL DEGREE HOURS: 120

<http://math.usf.edu/ug/math/>

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 from a Florida College System institution should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university.

A student who transfers without an A.A. degree and has fewer than 60 semester hours of acceptable credit must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

COP XXXX A Scientific Programming Course designed for Computer Science Majors  
MAC X311 Calculus I  
MAC X312 Calculus II - Calculus with Analytic Geometry II  
MAC X313 Calculus III - Calculus with Analytic Geometry III  
MAP X302 Differential Equations  
BSC XXXX / XXXXL  
CHM XXXX / XXXXL  
PHY XXXX / XXXXL  
GLY XXXX / XXXXL

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## REQUIREMENTS FOR THE MAJOR IN MATHEMATICS TOTAL MAJOR HOURS: 45

### 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
- MGF 3301 Bridge to Abstract Mathematics
- MAS 3105 Linear Algebra

**Algebra Requirement:** Majors must complete the following course (3 credit hours):

- MAS 4301 Elementary Abstract Algebra

**Symbolic Computations Requirement.** Majors must complete the following course (3 credit hours):

- COP 4313 Symbolic Computations in Mathematics

#### 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.

#### Minimum Grade Requirements

In general, grades of C- or better are required for courses in the mathematics major and minor and in the statistics major. However, C- is not an acceptable grade for any course that is being used as a prerequisite for a follow-on course. For these courses a grade of C (2.0 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 for 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. The requirements for a B.A. degree in mathematics with Honors are as follows:

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1. completion of the requirements of the major in Mathematics;
2. completion of MAA 4211 Intermediate Analysis I;
3. completion of MAT 4970 Mathematics Senior Thesis;
4. completion of eight Mathematics courses at or above the 4000-level;
5. at least a 3.0 average for all college courses; and
6. at least a 3.5 average for all Mathematics courses.

## **ACCELERATED B.A./M.A. PROGRAM**

This program is designed for superior students having a solid background in high school mathematics and the ability to handle a fast paced, challenging program leading to a B.A. and M.A. degree in Mathematics in four to five years.

The program meets all the requirements for the BA degree but requires the student to take the graduate-level courses required for the M.A. degree during the last two years in the program. Up to 20 hours of graduate courses may be counted towards the M.A. degree as well as the B.A. degree but not towards the undergraduate major (that is, as free electives).

For admission to the program, a student must:

1. have completed at least 30 hours of college credit including 8 hours of 3000-level or above Mathematics courses;
2. have at least a 3.0 GPA for all college courses; and
3. have at least a 3.5 GPA for all Mathematics courses taken at the 3000-level or above.

To apply for admission, send a letter to the Chair of the Department of Mathematics stating your qualifications and desire to enter the program. An important benefit of this program is that a student is eligible to apply for a graduate teaching assistantship once he or she has completed the undergraduate Mathematics major courses.

## **Advising Information**

Please visit the following website: <http://math.usf.edu/resources/advising/> for additional information and all your advising needs.

## **MATHEMATICS CONCENTRATIONS**

### **REQUIREMENTS FOR THE CONCENTRATION IN APPLIED/COMPUTATIONAL MATHEMATICS (ACM)**

#### **TOTAL CONCENTRATION HOURS: 15**

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.

#### **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 Partial Differential Equations

#### **Discrete Mathematics Requirement - Choose one course.**

- MAD 4203 Combinatorics
- MAD 4301 Graph Theory
- MAD 4504 Theory of Computation
- MAD 4471 Introduction to Cryptography and Coding Theory

#### **Statistics/Probability Requirement - Choose one course.**

- STA 4321 Essentials of Statistics
- STA 4442 Introduction to Probability I

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## 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 Combinatorics
- MAD 4301 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 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 which are 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

This program is designed for superior students having a solid background in high school mathematics and the ability to handle a fast paced, challenging program leading to a B.A. and M.A. degree in Mathematics in four to five years.

The program meets all the requirements for the BA degree but requires the student to take the graduate-level courses required for the M.A. degree during the last two years in the program. Up to 20 hours of graduate courses may be counted towards the M.A. degree as well as the B.A. degree but not towards the undergraduate major (that is, as free electives).

For admission to the program, a student must:

1. have completed at least 30 hours of college credit including 8 hours of 3000-level or above Mathematics courses;
2. have at least a 3.0 GPA for all college courses; and
3. have at least a 3.5 GPA for all Mathematics courses taken at the 3000-level or above.

To apply for admission, send a letter to the Chair of the Department of Mathematics stating your qualifications and desire to enter the program. An important benefit of this program is that a student is eligible to apply for a graduate teaching assistantship once he or she has completed the undergraduate Mathematics major courses.

## REQUIREMENTS FOR THE CONCENTRATION IN GENERAL MATHEMATICS (GMM) TOTAL CONCENTRATION HOURS: 15

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.

### 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 Partial Differential Equations
- STA 4321 Essentials of Statistics
- STA 4442 Introduction to Probability I

**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 Combinatorics
- MAD 4301 Graph Theory
- MAS 4302 Elementary Abstract Algebra II

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MTG 4214	Modern Geometry
MTG 4254	Differential Geometry
MTG 4302	Introduction to Topology

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## 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	Combinatorics
MAD 4301	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	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 which are 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

This program is designed for superior students having a solid background in high school mathematics and the ability to handle a fast paced, challenging program leading to a B.A. and M.A. degree in Mathematics in four to five years.

The program meets all the requirements for the BA degree but requires the student to take the graduate-level courses required for the M.A. degree during the last two years in the program. Up to 20 hours of graduate courses may be counted towards the M.A. degree as well as the B.A. degree but not towards the undergraduate major (that is, as free electives).

For admission to the program, a student must:

1. have completed at least 30 hours of college credit including 8 hours of 3000-level or above Mathematics courses;
2. have at least a 3.0 GPA for all college courses; and
3. have at least a 3.5 GPA for all Mathematics courses taken at the 3000-level or above.

To apply for admission, send a letter to the Chair of the Department of Mathematics stating your qualifications and desire to enter the program. An important benefit of this program is that a student is eligible to apply for a graduate teaching assistantship once he or she has completed the undergraduate Mathematics major courses.

## REQUIREMENTS FOR THE CONCENTRATION IN PURE MATHEMATICS (PMM) TOTAL CONCENTRATION HOURS: 15

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.

### 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
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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	Combinatorics
MAD 4301	Graph Theory

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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 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 Combinatorics  
MAD 4301 Graph Theory  
MAD 4504 Theory of Computation  
MAD 4471 Introduction to Cryptography and Coding Theory  
MAP 4341 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 which are 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**

This program is designed for superior students having a solid background in high school mathematics and the ability to handle a fast paced, challenging program leading to a B.A. and M.A. degree in Mathematics in four to five years.

The program meets all the requirements for the BA degree but requires the student to take the graduate-level courses required for the M.A. degree during the last two years in the program. Up to 20 hours of graduate courses may be counted towards the M.A. degree as well as the B.A. degree but not towards the undergraduate major (that is, as free electives).

For admission to the program, a student must:

1. have completed at least 30 hours of college credit including 8 hours of 3000-level or above Mathematics courses;
2. have at least a 3.0 GPA for all college courses; and
3. have at least a 3.5 GPA for all Mathematics courses taken at the 3000-level or above.

To apply for admission, send a letter to the Chair of the Department of Mathematics stating your qualifications and desire to enter the program. An important benefit of this program is that a student is eligible to apply for a graduate teaching assistantship once he or she has completed the undergraduate Mathematics major courses.

## MATHEMATICS FACULTY

*Chairperson:* L. Skrzypek; *Associate Chairperson:* S. Suen; *Distinguished University Professors:* D. Khavinson, C.P. Tsokos; *Professors:* X. Hou, N. Jonoska, A.G. Kartsatos, G. Ladde, M.N. Manougian, E. Rakhmanov, K.M. Ramachandran, J.S. Ratti, M. Saito, B. Shekhtman, W.R. Stark, V. Totik, Y. You; *Associate Professors:* T. Bieske, C. Beneteau, B. Curtin, M. Elhamedadi, S. Kouchekian, W. Ma, G.L. McColm, M.M. McWaters, B.T. Nagle, L. Skrzypek, S. Suen, R. Teodorescu; *Assistant Professors:* A. Danielyan, M. Krajevski, S.Y. Lee, D. Shen, R. Wooten; *Instructors:* A. Bieske, F. Burgos, I. Chitikov, F. Hopf, S.E. Rimbey, I. Rothstein; *Scholar/Scientist/Engineer:* A. Grinshpan; *Professors Emeriti:* W.E. Clark, S. Isaak, J.J. Liang, A. Mukherjea, K.L. Pothoven, F.J. Zerla, C. A. William.

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## 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 Combinatorics
- MAD 4301 Graph Theory
- MAD 4401 Numerical Analysis I
- MAD 4402 Numerical Analysis II
- MAD 4504 Theory of Computation
- MAD 4xxx Cryptography and Coding Theory
- MAP 4202 Optimization
- MAP 4341 Partial Differential Equations
- MAS 4301 Elementary Abstract Algebra
- MAS 4302 Elementary Abstract Algebra II
- MHF 4406 History of Modern Mathematics
- MTG 4214 Modern Geometry
- MTG 4254 Differential Geometry
- MTG 4302 Introduction to Topology
- STA 4442 Intro 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://math.usf.edu/resources/advising/> for additional information and all your advising needs.

## • B.S. - MEDICAL TECHNOLOGY (MET) (CIP = 51.1005)

TOTAL DEGREE HOURS: 120

<http://chemistry.usf.edu/undergraduate/degree/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



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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 the A.A. degree at a Florida College System institution. Some courses required for the major may also meet FKL Liberal Arts Requirements thereby transferring maximum hours to the university.

A student who transfers with fewer than 60 semester hours of acceptable credit must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade. They may be completed at a Florida College System institution or other institution or at USF.

### General Biology I with Laboratory

(e.g. BSC 1010C, BSC 1011C, BSC 1010/BSC 1010L, BSC 1011/BSC 1011L, BSC 2010/BSC 2010L, PCB 2011C, PCB 2131/PCB 2131L, BSC 2011/BSC 2011L, ZOO 2010, ZOO 1010).

USF's course recommendation: BSC 2010/BSC 2010L.

### Human Anatomy and Physiology I with Laboratory

(e.g. BSC 1085/BSC 1085L, BSC 1085C, BSC 1093, BSC 2093C, BSC 2085/BSC 2085L, BSC 1011C, BSC 2011, PCB 4703, PCB 3703, PCB 3702, PCB 3702, student's choice of one of these three labs, PCB 3703C, BSC 2085C, BSC 2023C). USF's course recommendation: BSC 2093C or BSC 2085/BSC 2085L.

### Human Anatomy and Physiology II with Laboratory

(e.g. BSC 1086/BSC 1086L, BSC 1086C, BSC 2094C, ZOO 3733C, ZOO 3731, PCB 3134C, PCB 2131, BSC 1094, BSC 2096, BSC 2011, PCB 2510/PCB 2510L, BSC 2086C).

USF's course recommendation: BSC 2094C or BSC 2086/BSC 2086L.

### General Microbiology with Laboratory

(e.g. MCB 3020/MCB 3020L, MCB 2013/MCB 2013L, MCB 2013C/MCB 2013L, MCB 3023/MCB 3023L, MCB 3020C, MCB 2010/MCB 2010L).

USF's course recommendation: MCB 3020C.

### General Chemistry I with Laboratory

(e.g. CHM 1045/CHM 1045L, CHM 1045C, CHM 2045/CHM 2045L).

USF's course recommendation: CHM 2045/CHM 2045L.

### General Chemistry II with Laboratory

(e.g. CHM 1046/CHM 1046L, CHM 1046C, CHM 1040/CHM 1040L, CHM 1041/CHM 1041L, CHM 1046/CHM 1046L, CHM 2046/CHM 2046L).

USF's course recommendation: CHM 2046/CHM 2046L.

### Organic Chemistry I with Laboratory

(e.g. CHM 2210/CHM 2210L, CHM 2210C, CHM 2210/CHM 2211L, CHM 3210C, CHM 3210/CHM 3210L, CHM 3210/CHM 3211L).

USF's course recommendation: CHM 2210/CHM 2210L.

### Organic Chemistry II with Laboratory

(e.g. CHM 2211/CHM 2211L, CHM 2211C, CHM 2210C, CHM 2210/CHM 2210L, CHM 3211/CHM 3211L, CHM 32100/CHM 3210L, CHM 3210/CHM 3211L, CHM 3210C).

USF's course recommendation: CHM 2211/CHM 2211L.

### Statistics

(e.g. STA 2023, STA 2014, STA 2022, STA 2024, STA 2321, STA 3023).

USF's course recommendation: STA 2023.

## 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

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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 Health Professionals and BSC 2085L Anatomy and Physiology Laboratory I for Health Professionals  
BSC 2094C Human Anatomy and Physiology II or BSC 2086 Anatomy and Physiology II for Health Professionals and BSC 2086L Anatomy and Physiology Laboratory II for Health Professionals  
MCB 3020 General Microbiology and MCB 3020L General Microbiology Lab  
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  
STA 2023 Introductory Statistics  
MAC 1105 College Algebra (or MAC 1147 Precalculus Algebra and Trigonometry)  
PCB 3023 Cell Biology  
PCB 3023L Cell Biology Laboratory  
PCB 4234 Principles of Immunology (or equivalent)  
MCB 4115 Determinative Bacteriology and MCB 4115L Determinative Bacteriology Lab  
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 4861 Clinical Immunology  
MLS 4863 Clinical Microbiology  
MLS 4865 Clinical Immunohematology  
MLS 4860 Clinical Urinalysis and Body Fluid  
MLS 4862 Clinical Hematology  
MLS 4864 Clinical Chemistry  
MLS 4866 Clinical Laboratory Management and Education

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. Communication and computation requirements for Gordon Rule (Florida Board of Governor's Regulation 6.017).
4. All sciences and mathematics requirements listed below, including common prerequisites and those specific to USF, with a "C" or higher in each course.
- 5.

*Free 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
- Biology (including the marine science concentration)
- Microbiology
- Chemistry (BA, BS)

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- Interdisciplinary Natural Sciences (INS)
- Medical Technology and
- Pre-medical sciences students (PMS) who have not yet declared a major

All students entering USF for the first time, in Fall 2009 or later, who subsequently earn three (3) D and/or F grades in applicable USF science and math coursework for their major (i.e. Math, Biology, Chemistry and Physics) will be required to change their major to a major more appropriate to their goals and academic performance, and to a major that is not conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

All continuing USF students who entered USF prior to Fall 2009 and who have not earned any D or F grades in USF science and math coursework for their major (i.e. Math, Biology, Chemistry and Physics) before Fall 2009, will also be redirected after earning three (3) D and/or F grades in subsequent terms. Upon earning the 3rd D and/or F grade, students will be required to choose another major more appropriate to their goals and academic performance, and to one that is not conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

All continuing USF students who entered USF prior to Fall 2009 and who have earned one (1) or more D or F grades in USF science and math coursework for the major (i.e. Math, Biology, Chemistry and Physics) prior to Fall 2009, will be allowed to count all previous D/F grades as one (1) D/F grade. After Fall 2009, students who earn two (2) additional D and/or F grades (resulting in three (3) total D/F grades) in subsequent terms will be required to choose another major more appropriate to their goals and academic performance, and to one that is not conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

Lab only courses are not counted towards the total number of D/F grades earned for the policy. Grade Forgiveness will NOT apply to the mandated requirement of changing majors.

If a student is in violation of 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 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](mailto:chemadvise@usf.edu) or <http://chemistry.usf.edu/advising/>.

## MEDICAL TECHNOLOGY FACULTY

*Chairperson and Professor:* R. Larsen; *Associate Chairperson and Professor:* J.E. Lewis; *Distinguished University Professor Emeritus:* D.F. Martin; *Emeritus Professors:* J.C. Davis, Jr., J.E. Fernandez, L. Mandell, R.M. O'Malley, G. Solomons; *Professors:* B.J. Baker, M. Eddaoudi, W.C. Guida, J.P. Harmon, M.D. Johnston, J. Leahy, M.L. McLaughlin, G.G. Meisels, D.J. Merkler, L. Ming, R. Potter, B. Space, E. Turos, P. Zhang; *Associate Professors:* J. Antilla, K.S. Bisht, A. Malik, A. van der Vaart; *Assistant Professors:* J. Cai, I. Gelis, S. Lewis, S. Ma, J. Raker, D. Rogers, L. Woodcock; *Research Professor:* M. Acevedo-Duncan; *Research Assistant Professors:* X. Cui, M. Kumar, E. Rivera, L. Wojtas; *Instructors:* L. Anderson, D. Cruz-Ramírez de Arellano, K. Fields, U. Kulatunga, C. Vetromile, S.T. Weldegirma.

## • B.S. - MICROBIOLOGY (MIC) (CIP = 26.0503)

**TOTAL DEGREE HOURS: 120**

<http://biology.usf.edu/bioadvise/degrees/bio-cmc.aspx>

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

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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 should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted.

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

BSC X010/X010L Biology I with Lab or BSC X010C or BSC X040/X040L or PCB X011C

BSC X011/X011L Biology II with Lab or BSC 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 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 MICROBIOLOGY

**TOTAL MAJOR HOURS: 74-76**

### Major requirements for the B.S. Degree:

#### Major Core (62-64 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

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

#### Natural Sciences and Mathematics Core (minimum 32-34 credits 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

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 II **and** PHY 2049/2049L General Physics II

**or**

PHY 2053/2053L General Physics II **and** PHY 2054/2054L General Physics II

#### Major Electives (12 hours)

BCH 3053 General Biochemistry

BOT 4434 C Mycology

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BSC 4905	Independent Study (1 credit maximum)
BSC 5931	Selected Topics in Biology
MCB 4313	Industrial Microbiology and Biotechnology
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
MCB 5655	Applied and Environmental Biology
MCB 5815	Medical Mycology
PCB 4234	Principles of Immunology
PCB 4671	Molecular Evolution
ZOO 4753	Human Histology and Molecular Pathology of Disease

All students majoring in one of the programs offered through the department of Cell Biology, Microbiology and Molecular Biology and entering USF for the first time, in Fall 2009 or later, who subsequently earn three (3) D and/or F grades in USF coursework for their major and/or supporting coursework will be required to change to majors more appropriate to their goals and academic performances. Those majors may not include any conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology and Molecular Biology.

All *continuing* USF students who entered USF prior to Fall 2009 and who have not earned any D or F grades in USF major coursework or supporting coursework by the beginning of Fall 2009, will also be allowed three (3) D and/or F grades in subsequent terms before being required to choose another major more appropriate to their goals and academic performances, and not including any conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology and Molecular Biology.

Any *continuing* USF students who enter USF prior to Fall 2009 and who have earned greater than or equal to one (1) D or F grade in USF coursework for their major coursework or supporting coursework by the beginning of Fall 2009, will be allowed only two (2) more D and/or F grades in subsequent semesters before being required to choose other majors more appropriate to their goals and academic performances, and not including any majors conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology and Molecular Biology.

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

### 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 free elective courses. This specification applies to both USF and transfer courses.

Please note that some supporting science courses may require a grade of C or better in order to meet the prerequisite requirements for course sequences.

### 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

This program allows B.S. majors in Microbiology to take graduate courses for the elective part of the Microbiology degree and apply them to a non-thesis M.S. degree in Microbiology. Successful students will be able to earn the M.S. degree in two additional semesters beyond the completion of the B.S. degree.

This accelerated program shares 12 credits between already existing degrees/concentrations:

- B.S. in Microbiology
- M.S. in Microbiology (NT)

### Target students and expected outcomes

This program will appeal to the more competitive Microbiology majors who would benefit professionally from having the M.S. when they enter the job market but do not want to commit to the longer time a thesis M.S. or a Ph.D. program

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takes to complete. Professions that do not require bench laboratory experience but desire the broadened knowledge base are targeted. Graduates from this program would be ideally suited for health professions, technology based industry, education and government. We also expect that some students will be interested in doctoral education in the biological or biomedical areas.

## Description and Requirements

Biology majors who have completed the following courses may apply to this program:

- PCB 3023 Cell Biology
- PCB 3063 Genetics
- MCB 3410 Cell Metabolism
- MCB 3020 General Microbiology
- MCB 4115 Determinative Bacteriology

## Graduate Degree Requirements

Students admitted into the M.S. portion of the program must complete all the requirements for the M.S. degree (non-thesis) within three semesters of admission. The requirement is 30 hours of graduate work with at least 16 of these hours completed at the 6000 level; 26 hours must be formally structured courses; and at least 15 hours must be in Cell, Molecular and Microbiology courses. Students will be required to take 3 core courses from the list below as part of these 26 hours. Of the required 26 hours, 9 hours will be derived from the core- Cell, Molecular and Microbiology graduate courses listed below (see associated curriculum). These requirements can be partially met by up to 12 hours of graduate courses taken as undergraduates. Any graduate class taken outside of Cell, Molecular and Microbiology must be approved by the Cell, Molecular and Microbiology Graduate Director. Students should be aware that a B grade or better is required for every graduate class applied to the MS portion of their degree. In addition, students will be required to pass an oral qualifying exam based on a review paper submitted in their final semester. Students must form a committee as part of their action plan to complete their graduate work. This committee will be comprised of at least 3 Cell, Molecular and Microbiology faculty, and will serve as the examination committee for the review paper required as part of the MS portion of their degree. Upon approval of that paper, students must successfully complete a comprehensive oral exam by their committee.

## Timeline and benchmarks:

1. Completion of prerequisite upper division courses and application to the accelerated program. Typically students will be in their junior year.
2. Acceptance into the program and an action plan within a semester of application.
3. Students will take up to 12 credits of graduate credit in Cell, Molecular and Microbiology courses following acceptance into the program. Typically these courses will be taken in the latter half of the junior year and in the senior year. BioAdvise will monitor the progress of the students and ensure they follow their action plan. Students who do not complete at least 9 hours of graduate work by graduation will be dropped from the accelerated M.S. program.
4. GRE exams will be taken in a timely manner so scores will be available for admission to the M.S. portion of the program. Students who do not complete the GRE in time will not be admitted to the accelerated M.S. program.
5. Students admitted to the accelerated program must form a committee prior to the beginning of their first semester in the M.S. portion of the program and must continue to follow the action plan which will be monitored by BioAdvise.
6. Students admitted to the accelerated M.S. program must complete the requirements within three semesters or will be dismissed from the program.

### Year 1

- BSC 2010 Cellular Processes
- BSC 2010L Cellular Processes Laboratory
- BSC 2011 Biodiversity
- BSC 2011L Biodiversity Laboratory

### Year 2

- MCB 3410 Cell Metabolism
- PCB 3063 General Genetics
- PCB 3063L General Genetics Laboratory
- PCB 3023 Cell Biology
- PCB 3023L Cell Biology Laboratory
- MCB 3020 General Microbiology
- MCB 3020L General Microbiology Laboratory

### Year.3

- MCB 4115 Determinative Bacteriology

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MCB 4115L Determinative Bacteriology Laboratory  
Three (3) credit hours of 5000-level elective structured course

#### Year 4

MCB 4320 Molecular Microbiology  
Nine (9) credit hours of 5000- or 6000-level elective courses

#### Year 5

Eighteen (18) hours of graduate coursework - 9 hours of which must be derived from the list below:

BSC 6932 Selected Topics in Biology  
PCB 6236 Advanced Immunology  
PCB 6525 Molecular Genetics  
MCB 5206 Public Health and Pathogenic Microbiology  
MCB 5655 Applied and Environmental Microbiology  
MCB 5815 Medical Mycology

Four (4) credit hours of non-structured courses (seminar, independent study, laboratory research)  
Oral exam and review paper done at the end of Year 5

#### Comprehensive Oral Qualifying Examination

A final comprehensive oral examination is required for all master's students. This examination is open to all departmental faculty. Students must take their comprehensive exam within two years of matriculation and the exam is normally taken after the completion of all formal course work. Thesis students must take the examination at least one semester before the thesis is presented. Any graduate work counted toward the requirement for the M.S. degree must be completed within five (5) years after matriculation.

#### Advising Information

BioAdvise: SCA 203, (813) 974-3250  
<http://biology.usf.edu/bioadvise/>  
Email: [bioadvise@usf.edu](mailto:bioadvise@usf.edu).

### MICROBIOLOGY FACULTY

*Chairperson:* J. Garey; *Professors:* J. Garey, D. Lim, R. Pollenz, D. Te Strake, *Emeritus Professors:* J. Romeo, R. Wunderlin; *Associate Professors:* M. Dao, G. Daughdrill, M. Nanjundan, K Schmidt, L. Shaw, S. Stevens. *Assistant Professors:* B. Burkhardt, P. Eswaramoorthy, Y. Kee, C. Nunes, J. Riordan, S. Stevens, S. Varma, S. Westerheide, B. Xue. *Research Assistant Professors:* A. Limayem; *Instructors:* W. Brazelle, J. El-Rady, E. Jones-Mason, E. Sikorski, A. Upadhyaya.

## REQUIREMENTS FOR THE 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.

#### Minor Core (26 hours)

BSC 2010 Biology I Cellular Processes  
BSC 2010L Biology I Cellular Processes Laboratory  
PCB 3023 Cell Biology  
PCB 3023L Cell Biology Laboratory  
PCB 3063 General Genetics  
MCB 3410 Cell Metabolism or BCH 3053 General Biochemistry  
MCB 3020 General Microbiology  
MCB 3020L General Microbiology Lab  
MCB 4115 Determinative Bacteriology  
MCB 4115L Determinative Bacteriology Lab  
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 micro minor lectures.

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## Residency Requirement

Students must complete a minimum of 8 hours in Microbiology minor coursework at USF-Tampa.

## Other Information

Students who are declared Microbiology and Cell and Molecular major students are ineligible for this minor. All other Biology majors and concentrations must meet with an advisor to determine eligibility.

## Advising Information

<http://biology.usf.edu/bioadvise/>

(813) 974-3250, Email: [bioadvise@usf.edu](mailto:bioadvise@usf.edu)

## • 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 wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students are **encouraged** to complete the following courses if available during the program of study at the community college and when feasible in General Education/Gordon Rule courses. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

Mathematics (any courses)

Foreign Languages (Beginning and Intermediate German, French, or Latin) (1120-1121 level and 2200-2201 level)

Classics (CLT, CLA for example)

## REQUIREMENTS FOR THE MAJOR IN PHILOSOPHY

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.

#### 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



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## II. Logic – 3 credit hours:

Choose one of the following courses:

- PHI 3130 Formal Logic (Strongly encouraged)
- PHI 2101 Introduction to Formal Logic

## II. 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 for Undergraduate Research](#) will assist students in understanding the various course options.

## OPTIONAL HONORS PROGRAM

### 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 taking Philosophy as a second major need to complete only 30 hours in Philosophy. To do so they must make a written request to the Undergraduate Director at the time they declare their Philosophy major.

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## Advising Information

Academic Advisor: Andrew Bird, (813) 974-6957, [ajbird@usf.edu](mailto:ajbird@usf.edu)

Undergraduate Program Director: Alex Levine, (813) 974-5508, [levineat@usf.edu](mailto:levineat@usf.edu)

## PHILOSOPHY FACULTY

*Chairperson*; R. Ariew; *Professors*: R. Ariew, D. Jesseph, A. Levine, M.R. Schönfeld, T. Williams, E. Winsberg, W. Zhang; *Distinguished Research Professor*: S.P. Turner; *Associate Professors*: L. Braver, W.M. Goodwin, C. Heydt, R. Manning, B. Sadler, J.B. Waugh; *Assistant Professors*: M. Morris, J. Rayman, M. Segev; *Visiting Instructors*: D. Morris; *Courtesy Professor*: S. Axinn; *Emeritus Faculty*: J.A. Bell, C. Guignon, O. Schutte, B. Silver, R.N. Taylor, R.C. Weatherford, K. Wiredu.

## REQUIREMENTS FOR THE MINOR IN PHILOSOPHY (PHI)

**TOTAL MINOR HOURS: 18**

<http://philosophy.usf.edu>

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

Andrew Bird, (813) 974-6957, [ajbird@usf.edu](mailto:ajbird@usf.edu)

## • B.S. - PHYSICS (PHS) (CIP = 40.0801 - TRACK 1 OF 2)

**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 the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

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Students should complete the following **prerequisite courses** listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

CHM X045/X045L General Chemistry I (with lab) or CHM X040 & CHM X041 or CHM X045C

CHM X046/X046L General Chemistry II (with lab) or CHM X046C

MAC X311 Calculus I or MAC X281

MAC X312 Calculus II or MAC X282

MAC X313 Calculus III or MAC X283

PHY X048/X048L General Physics I or PHY X048C

PHY X049/X049L General Physics II or PHY X049C

## REQUIREMENTS FOR THE MAJOR IN PHYSICS

**TOTAL MAJOR HOURS: 76**

**Major requirements for the B.S. Degree:**

**Major Core (71 hours)**

**Physics Courses (47 hours):**

PHY 2048 General Physics I

PHY 2048L General Physics I Lab

PHY 2049 General Physics II

PHY 2049L General Physics II Lab

PHY 3101 Modern Physics

PHZ 3113 Mathematical Methods in Physics

PHY 3822L Intermediate Lab

PHY 3220 Mechanics

PHY 3323 Electricity and Magnetism I

PHY 4823L Advanced Laboratory

PHY 4910 Undergraduate Research (2 hours recommended)

PHY 4604 Introduction to Quantum Mechanics

PHY 4930 Undergraduate Seminar

PHY 4324 Electricity and Magnetism II

PHY 4523 Statistical Physics

PHY 4605 Quantum Mechanics II

**Required Courses in Natural Sciences and Mathematics (24 credit hours):**

CHM 2045 General Chemistry I

CHM 2045L General Chemistry I Lab

CHM 2046 General Chemistry II

CHM 2046L General Chemistry II Lab

MAC 2311 Calculus I or 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

**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 for Undergraduate Research](#) will assist students in understanding the various course options.

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## • B.A. - PHYSICS (PHY) (CIP = 40.0801 - TRACK 1 OF 2) 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 the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

Students should complete the following **prerequisite courses** listed at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

CHM X045/X045L General Chemistry I (with lab) or CHM X040 & CHM X041 or CHM X045C

CHM X046/X046L General Chemistry II (with lab) or CHM X046C

MAC X311 Calculus I or MAC X281

MAC X312 Calculus II or MAC X282

MAC X313 Calculus III or MAC X283

PHY X048/X048L General Physics I or PHY X048C

PHY X049/X049L General Physics II or PHY X049C

### REQUIREMENTS FOR THE MAJOR IN PHYSICS

TOTAL MAJOR HOURS: 59

**Major requirements for the B.A. Degree:**

**Major Core (57 hours)**

**Physics Courses (33 hours):**

PHY 2048 General Physics I

PHY 2048L General Physics I Lab

PHY 2049 General Physics II

PHY 2049L General Physics II Lab

PHY 3101 Modern Physics

PHZ 3113 Mathematical Methods in Physics

PHY 3822L Intermediate Lab

PHY 3220 Classical Mechanics

PHY 3323 Electricity and Magnetism I

PHY 4823L Advanced Laboratory

PHY 4930 Undergraduate Seminar

PHY 4604 Introduction to Quantum Mechanics

**Required Courses in Natural Sciences and Mathematics (24 credit hours):**

CHM 2045 General Chemistry I

CHM 2045L General Chemistry I Lab

CHM 2046 General Chemistry II

CHM 2046L General Chemistry II Lab

MAC 2311 Calculus I or 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

**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.

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## 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 for Undergraduate Research](#) will assist students in understanding the various course options.

## ACCELERATED B.A./M.A.T. PROGRAM

This program intends for students to complete a B.A. in Physics (College of Arts and Sciences) and a M.A.T. in Secondary Science (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 credits toward the M.A.T. in Science Education during the senior year of their B.A. in Physics.

This accelerated program shares 12 credits between already existing degrees/concentrations:

- B.A. in Physics
- M.A.T. in Science Education

## Target students and expected outcomes

The accelerated Bachelor's to M.A.T. in Science Education program is a collaborative effort between the College of Arts and Sciences and the College of Education. This program is an attractive and viable career path for students in the Department of Physics degree programs that results in secondary science teacher certification. Students who complete this program receive the necessary science content and pedagogy coursework to be highly qualified physics teachers at the secondary level.

## Description and Requirements

For admission to the program a student must:

1. Have completed 15 hours in the B.A. in Physics major upon applying and thirty (30) semester hours in science (includes twenty-five (25) semester hours in physics plus 5 hours of upper level work in math or minor science content area) with associated laboratory experiences to be fully admitted as a graduate student in the M.A.T. Science Education Program. Evidence of successfully completing all sections of the General Knowledge Test (GKT) is also required for full admission to the graduate program
2. Have a minimum 3.0 GPA overall; and
3. Have a minimum undergraduate 3.25 GPA in the major.

## Undergraduate Degree Requirements for the B.A. in Physics

### B.A. in Physics Degree Requirements

All Physics, BA students will complete graduation requirements listed in the undergraduate catalog.

Specifically, according to the BOG Articulation Regulation 6A-10.030; earn a minimum of 48 semester hours of upper-level work (courses numbered 3000 and above), therefore, the Physics, BA students will take 18 credits of additional 3000+ level coursework in addition to their required major and exit courses listed below.

### Required Physics Courses – 33 credit hours

PHY 2048 General Physics I  
PHY 2048L General Physics I Lab  
PHY 2049 General Physics II  
PHY 2049L General Physics II Lab  
PHY 3101 Modern Physics  
PHZ 3113 Mathematical Methods in Physics  
PHY 3822L Intermediate Lab  
PHY 3220 Classical Mechanics  
PHY 3323 Electricity and Magnetism I  
PHY 4823L Advanced Laboratory  
PHY 4930 Undergraduate Seminar  
PHY 4604 Introduction to Quantum Mechanics

Physics electives subject to approval of undergraduate advisor.

### Required Supporting Courses in Natural Sciences and Mathematics – 20 credit hours

CHM 2045 General Chemistry I

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- CHM 2045L General Chemistry I Lab
- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab
- MAC 2311 Calculus I or 2281 Engineering Calculus I
- MAC 2312 Calculus II or 2282 Engineering Calculus II
- MAC 2313 Calculus III or 2283 Engineering Calculus III

#### *Residency Requirement*

A minimum of 20 credit hours of physics courses in residency.

#### *Minimum Grade Requirement*

A minimum grade of "C" is required for all physics classes in the curriculum.

#### **Shared B.A./M.A.T. Requirements**

According to the BOG Articulation Regulation 6A-10.030; earn a minimum of 48 semester hours of upper-level work (courses numbered 3000 and above), therefore, the Physics B.A. students will take 18 credits of additional 3000+ level coursework in addition to their required major and exit courses listed above. Of these 18 credits, 12 credits will be shared with the M.A.T. Science Education program. The shared courses are listed below:

- SCE 6938 Topics in Science Education: Field Practicum
- SCE 5325 Methods for Middle Grades Science Education
- SCE 5337 Methods for Secondary Science Education
- SCE 6456 Teaching the Physical Sciences

#### **Graduate Degree Requirements for Accelerated M.A.T in Science Education**

##### **PROGRAM REQUIREMENTS**

Note: that all M.A.T. programs include as an admission requirement the passing of all sections of the General Knowledge Test (GKT). Applicants who can document they lived outside the state or country and did not have access to take the GKT before the application deadline may submit passing Praxis scores or GRE scores to be considered for admission. Whether admitted with passing Praxis scores or acceptable GRE scores, the applicant must submit passing scores on the GKT before the last day of classes of the semester of first enrollment, or admission to the College of Education will be revoked.

##### **Total Minimum Program Hours 39 hours minimum**

The courses required for the M.A.T. in Science Education are listed below. Please check with the program for other program requirements.

##### **Core Requirements**

##### **Process Core: 33 hours minimum**

- EDF 6432 Foundations of Measurement
- ESE 5342 Teaching the Adolescent Learner
- ESE 5344 Classroom Management for a Diverse School and Society
- TSL 5325 ESOL Education in Content Areas
- SCE 5564 Reading and Communication Science Education
- SCE 5325\* Methods for Middle Grades Science Education
- SCE 5337\* Methods for Secondary Science Education
- SCE 6416 Teaching Secondary School Biology
- SCE 6456\* Teaching Secondary School Physical and Earth Science
- SCE 6634 Current Trends in Secondary Science Education
- SCE 6938\* Topics in Science Education: Field Practicum
- SCE 6947 Internship (PR: CI and passing scores of FTCE exam)
  - o Student's participation in the internship experience in classes that correspond to the specific area in which he or she will be certified.
  - o Passing score on the appropriate subject area exam.
  - o Student's content degree or equivalent (an admission's requirement).

\*Shared courses between B.A. Physics and M.A.T. Science Education

##### **Comprehensive Examination**

A written narrative exam tailored to the individual student. Exam needs to be completed by two weeks before final exam week of the student's graduating semester. Exams will only be accepted during fall or spring semester, unless previous contract is established with the student's advisor.

**TOTAL: 39 hours**

##### **Timeline and benchmarks:**

1. To be considered for acceptance into the Accelerated B.A./M.A.T. Physics/Science Education students must have completed a minimum of 15 credit hours in the Physics undergraduate major.
2. Students must have a minimum undergraduate GPA of 3.0 overall, and a minimum GPA of 3.25 in the major

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and passing scores on all sections of the General Knowledge Test (GKT) to be eligible for the accelerated degree program. You can find information on the General Knowledge Test on the Florida Teacher Certification section of the following webpage: <http://www.fl.nesinc.com/>

3. Following completion of a minimum of 15 hours in the undergraduate major, students may be considered for acceptance into the accelerated program through faculty nomination or student self-nomination, via submission of an *Accelerated Program Application Form*. Both B.A. and M.A.T. programs will review the applications and approve the nominations. All applications require the approval of the College of Education Graduate Program, the College of Arts and Sciences, and the USF Graduate School.
4. To be promoted to graduate status, students must meet all admission requirements of the M.A.T. in Science Education in the College of Education. Specifically, the following materials must be submitted:
  - a. Undergraduate transcripts; and evidence of possessing a degree in a science discipline (biology, chemistry, physics, geology, etc.) that is taught in a middle or high school, or comparable coursework in a science teaching field acceptable to the program faculty. Note, to teach secondary physics the state of Florida requires: A bachelor's or higher degree in physics or a bachelor's or higher degree with thirty (30) semester hours in science to include twenty-one (21) semester hours in physics with associated laboratory experiences.
  - b. Documentation of GKT scores.
5. Students must earn a minimum of a "B" (3.00) in all graduate courses. Failure to earn at least a "B" in a graduate course will result in academic review by the graduate program. Failure to maintain a minimum 3.0 GPA will result in academic probation, according to the procedures of the USF Office of Graduate Studies.

A comprehensive plan of study to complete the integrated B.A./M.A.T program will be developed with the guidance of an advisor and a faculty member. A possible plan of study could be as follows. Summer sessions may also be included in the study plan.

## First and Second Year

Courses and credits as designated for freshman and sophomore years.

## Third Year

Apply for Admission to the Integrated B.A./M.A.T. program

## Fourth Year

**Student accepted in M.A.T. in Science Education program complete the following shared credits:**

- SCE 6938 Topics in Science Education: Field Practicum
- SCE 5325 Methods for Middle Grades Science Education
- SCE 5337 Methods for Secondary Science Education
- SCE 6456 Teaching the Physical Sciences

## Fifth Year

- EDF 6432 Foundations of Measurement
- ESE 5342 Teaching the Adolescent Learner
- ESE 5344 Classroom Management for a Diverse School and Society
- TSL 5325 ESOL Education in Content Areas
- SCE 5564 Reading and Communication Science Education
- SCE 6416 Teaching Secondary School Biology
- SCE 6634 Current Trends in Secondary Science Education
- SCE 6947 Internship (PR: CI and passing scores of FTCE exam)  
Comprehensive Examination

## Teacher Education Programs

For information concerning the degree programs for secondary school teachers, see College of Education, Department of Secondary Education.

## REQUIREMENTS FOR THE MINOR IN ASTRONOMY (AST)

### TOTAL MINOR HOURS: 14

The Astronomy Minor provides an in-depth overview of Astronomy from a mainly conceptual perspective. Any student wanting to learn more about the universe can earn the Minor in Astronomy regardless of their degree, including physics students.

A minor in Astronomy consists of 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

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## 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 students may earn a minor in Astronomy along with their Physics B.A. or B.S. degree.

## REQUIREMENTS FOR THE MINOR IN BIOMEDICAL PHYSICS (BPH)

**TOTAL MINOR HOURS: 16**

<http://physics.usf.edu/ug/degree/>

This minor combines fundamental knowledge of physics acquired through the General Physics lectures and laboratories to applications that cover a wide spectrum of topics of interest to students pursuing a future clinical or research career in the areas of biology, medicine, biophysics, and other related areas.

A minor in Biomedical Physics consists of 16 credit hours.

### 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

## 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.

## REQUIREMENTS FOR THE MINOR IN PHYSICS (PHY)

**TOTAL MINOR HOURS: 17**

<http://physics.usf.edu/ug/degree/>

### Minor Core (11 hours)

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

### Minor Electives (6 hours)

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

## 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.

## PHYSICS FACULTY

*Chairperson:* P. Mukherjee; *Professors:* W. Chen, M.K. Kim, P. Mukherjee, G. Nolas, I. Oleynik, H. Srikanth, S. Witanachchi; *Associate Professors:* M. Batzill, D. Haynie, X. Jiang, G. Matthews, M. Muschol, I. Ponomareva, D. Rabson, L. Woods; *Assistant Professor:* R. Hoy, D. Karaiskaj, A. Muller, J. Pan, S. Pandit, Z. Shi, G. Ullah, J. Zhou; *Instructors:* R. Criss, K. Mackay, G. Woods; *Eminent Scholar:* I. Giaever.

## • B.A. - POLITICAL SCIENCE (POL) (CIP = 45.1001)

**TOTAL DEGREE HOURS: 120**

<http://gia.usf.edu/ps/ughome/>



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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

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

Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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).

Students should complete any two introductory courses with a

POS, INR or CPO prefix lower-level course 6 credit hours  
(ideally POS 1041 or POS 2041, and POS 1112 or POS 2112)

A grade of C- is the minimum acceptable grade.

## 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).

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 4936 Selected Topics in Political Theory

##### Field II: Comparative Government and Politics

CPO 4034 Politics of the Development Areas

CPO 4930 Comparative Government and Politics of Select Areas

ASN 3012 Japan Today

ASN 3014 China Today

ASN 3030 The Middle East

EUS 3000 Europe

EUS 3022 Russia

LAS 3002 Latin America

##### Field III: International Relations

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INR	3102	International Human Rights
INR	4403	International Law
INR	4035	International Political Economy
INR	4502	International Organizations
INR	3336	Intelligence and U.S. Foreign Policy
INR	4254	Africa in World Affairs
INR	3011	Globalization
INR	3018	World Ideologies
INR	3033	International Political Cultures
INR	3038	International Wealth and Power
INR	3084	International Terrorism
INR	3141	Global Security Policy
INR	3202	International Human Rights
INR	4083	Conflict in the World

## Field IV: American National and State Governments

POS	2080	The American Political Tradition
POS	3182	Florida Politics and Government
POS	4413	The American Presidency
POS	2112	State and Local Government and Politics
POS	3453	Political Parties and Interest Groups
POS	4424	The American Congress
POS	3173	Southern Politics
POS	4204	Political Behavior, Public Opinion and Elections

## Field V: Urban Government and Politics

POS	3142	Introduction to Urban Politics and Government
URP	4050	City Planning and Community Development

## Field VI: Public Policy

INR	3102	American Foreign Policy
PUP	4203	Environmental Politics and Policy
PUP	4002	Public Policy
URP	4050	City Planning and Community Development

## Field VII: Law and Politics

INR	4403	International Law
POS	3691	Introduction to Law and Politics
POS	4614	Constitutional Law I
POS	4624	Constitutional Law II
POS	3283	Judicial Process and Politics

The following courses are not included within any of the seven fields, but may still be used as elective hours:

PAD	3003	Introduction to Public Administration
POS	4936	Senior Seminar
PAD	4204	Political Behavior, Public Opinion and Elections
POS	4941	Field Work
POS	4905	Independent Study
POS	4970	Honor Thesis
POS	4910	Individual Research
POS	3931	Selected Topics
POT	4109	Politics and Literature
POT	4936	Selected Topics in Political Theory

## 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.

## 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

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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

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/>.

## OPTIONAL HONORS PROGRAM

### Honors in Political Science

The Honors Program in Political Science is designed for the outstanding undergraduate who seeks an intensive learning experience plus academic recognition during the senior year.

### Eligibility:

Political Science majors with a 3.5 GPA in Political Science courses and an overall 3.0 average will be invited to participate in the honors program.

### Requirements:

Students who participate must complete the Honors seminar with a grade of "B" or better and must write an Honors Thesis, POS 4970. The Honors Thesis must meet the following criteria:

- a thesis proposal must be approved by the student's major professor before s/he begins writing;
- students need two thesis advisors who must approve the final version of the thesis;
- students will publicly present their thesis and provide a copy of it to the department after the final draft has been approved;
- the thesis must be at least 50 pages long, contain an abstract, table of contents, bibliography and footnotes/endnotes;
- the thesis is due during the last week of classes for the semester in which the student is currently enrolled.

### 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://gia.usf.edu/prelaw/>.

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 and schedule an appointment, please go to: <http://gia.usf.edu/advisor/>.

## POLITICAL SCIENCE FACULTY

*Professors:* J.E. Benton, E. Conteh-Morgan, A. Hechiche, S. MacManus, J. Merrick, M.M. Milani, D. Slider, H.E. Vanden; *Associate Professors:* M.M. Amen, K. Caruson, M.T. Gibbons, C.A. Hall, D. Peng, B. Reiter, S. Roach, M.S. Solomon, S. Tauber; *Assistant Professors:* E. Choi, P. Funke, S. Pemberton, J. Woo; *Professor Emeritus:* H. Nelson, F.U. Ohaegbulam.

## REQUIREMENTS FOR THE MINOR IN POLITICAL SCIENCE (POL)

### TOTAL MINOR HOURS: 18

<http://gia.usf.edu/ps/ughome/>

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 or INR 2002 Introduction to International Relations
- POS 2041 American National Government

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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://gia.usf.edu/advisor/>.

## • 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

Psychology is not a limited access program, but transfer students are encouraged to complete the following state - approved prerequisite courses at the lower level prior to entering the university. If these courses are not taken prior to transferring to USF, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

BSC X0XX General Biology course (or BSC X20X or ZOO X010)

PSY X012 Introduction to Psychological Science

PSY XXXX Any other lower-level Psychology course within the Psychology inventory (i.e., CLP, DEP, EAB, EXP, INP, PCO, PPE, and PSB prefixes).

STA XXXX Any level Statistics course

## REQUIREMENTS FOR THE MAJOR IN PSYCHOLOGY

TOTAL MAJOR HOURS: 34-37

### Major requirements for the B.A. Degree:

#### Major Core (25 hours)

Majors must complete at least 34 credit hours of specified Psychology major coursework.

#### 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.

#### One Methods Course: (3 credit hours):

CLP 4433 Tests and Measurements

PSY 4205 Experimental Design and Analysis

#### Two Courses in Cognitive and Neural Sciences (6 credit hours):

EXP 4204C Perception

EXP 4404 Psychology of Learning

PSB 4004C Physiological Psychology

EXP 4304 Motivation

EXP 4680C Cognitive Psychology

#### 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 (9-12 hours)

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## Psychology Elective Courses (9-12 credit hours):

If a student takes PSY 3204 to meet the statistics requirement, the student must take three Psychology elective courses (9 credit hours). However, if a student took a different statistics course, the student must take four Psychology elective courses (12 credit hours).

The Psychology elective courses may be chosen from the courses listed in the above categories beyond the required number for each group and/or any of the following:

PSB 3444	Drugs and Behavior**
GEY 4612	Psychology of Aging**
CBH 4004	Comparative Psychology
CLP 4414	Behavior Modification
SOP 4514	Holocaust, Social Prejudice and Mortality
SOP 4330	HIV/AIDS
SOP 4702	Psychology of Gender**
CLP 4314	Health Psychology
PSY 4215	Discovering Research in Psychology
PSY 4913	Directed Study (Instructor's permission is required to take this course)
PSY 4931	Select Topics (Generally this course require the instructor's permission.)

\*\*No prerequisite required.

Once declared a Psychology major, continuation in the major requires successful completion of (with at least a grade of C (not C-) or better):

PSY 2012	Introduction to Psychological Science
PSY 3204	Psychological Statistics (or another approved Statistics course)
PSY 3213	Research Methods in Psychology

PSY 3213 is the prerequisite to all of the upper-level Psychology coursework, with the exception of 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 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](mailto:psychad@usf.edu); in the Subject line indicate D/F Appeal and in the body include name, student's U# and a complete explanation of the reason for the appeal. Appeals will be adjudicated by the Psychology Coordinator of Advising and students notified of results by email.

Coordinator of Advising decisions may be appealed in writing to the Psychology department's Undergraduate Program Committee.

## GPA Requirements

A major GPA of 2.0 minimum is required for graduation.

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## 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.

## 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 for Undergraduate Research](#) will 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.

Successful completion of the program requires:

- A GPA of 3.50 in all major coursework,
- An overall GPA of 3.25 at USF, and,
- Completion of 43 hours in Psychology including PSY 4932 Honors Seminar and PSY 4970 Honors Thesis.

Please see the Department of Psychology's website (<http://psychology.usf.edu>) for details and the application form.

## REQUIREMENTS FOR THE 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.

A minor in Psychology consists of a minimum of 18 credit hours.

### Minor Core (6 hours)

PSY 2012 Introduction to Psychological Science  
PSY 3213 Research Methods or any Statistics course

### Minor Electives (12 hours)

12 credit hours of four upper-level psychology courses, except PSY 4913 and DEP 3103.

### 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 or PSY 3213.

### Residency Requirement

Students must complete at least eight credit hours toward the minor in residency at USF.

## PSYCHOLOGY FACULTY

*Chairperson:* T. Shimizu; *Associate Chair:* S. Stark; *Distinguished Research Professor:* M. S. Goldman; *Distinguished University Professor:* E. Donchin, P.E. Spector; *Professors:* T. Allen, W.C. Borman, M.T. Brannick, J.B. Bryant, M.D. Coovert, D. Diamond, M.A. Finkelstein, J. Goldenberg, C.L. Kirstein, V. Phares, D. Rohrer, T. Sanocki, S. Schneider, T. Shimizu, J. Thompson; *Associate Professors:* J. Bosson, C.R. Cimino, M. Karver, K. Malmberg, T. Ojanen, G. Potts, J. Rottenberg, K. Salomon, S. Stark, J. Vandello, E. Verona; *Assistant Professors:* W. Bedwell, M. Bornovalova, C. Dube, D. Rancourt, R. Schlauch; *Psychological Services Center Director:* J. Darkes; *Instructor:* J. Noll; *Courtesy,*

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*Adjunct, & Joint Appointments:* I/O J. Brannick, S. Kessler, A. Nixon, W. Nord, M. Wang, M. Poteet; CNS H. Bahrck, P. Bickford, D. DeMarie, C. McEvoy, C. Park, C. Ruva, E. Silliman; CL K. Brandon, T. Brandon, D. Bernstein, Z. Vasconcellos-Bernstein, D. Drobos, D. Evans, W. Haley, P. Jacobsen, A. Lewin, J. McHale, R. Otto, E. Renner, R. Richardson, A. Rosenblatt, L. Schonfeld, B. Small, M. Stern, E. Storch, S. Sutton, M. Unrod.

## • B.A. - RELIGIOUS STUDIES (REL) (CIP = 38.0201)

**TOTAL DEGREE HOURS: 120**

<http://religious-studies.usf.edu/ugrad/requirements/>

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.

## STATE MANDATED COMMON COURSE PREREQUISITES

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements

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

## 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 (12 credit hours):**

One of the following courses (only one will count toward Religious Studies requirements):

- REL 2300 Introduction to World Religions
- REL 2306 Contemporary World Religions
- REL 3308 World Religions
- REL 3040 Introduction to Religious Studies
- REL 3043 Introduction to Major Religious Texts
- REL 4931 Seminar in Religion

**Completion 24 additional credit hours that satisfy the following requirements:**

Take at least 18 credit hours at 3000- and/or 4000-level course, of which a minimum of 12 must be at the 4000-level. Take at least one course from each of the areas:

*Western Tradition (primarily Judaism, Christianity, and Islam):*

- REL 2210 Hebrew Bible/Old Testament
- REL 2240 Introduction to the New Testament
- REL 3120 Religion in America
- REL 3131 New Religions in America
- REL 3132 Witchcraft and Paganism in America
- REL 3280 Biblical Archaeology
- REL 3303 Comparative Religion: Judaism and Islam
- REL 3363 Introduction to Islam
- REL 3367 Islam in the Modern World
- REL 3500 History of Christianity
- REL 3561 Roman Catholicism
- REL 3602 Classics of Judaism
- REL 3607 Introduction to Judaism
- REL 3611 History of Judaism
- REL 3613 Modern Judaism

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- REL 4133 Mormonism in America
- REL 4171 Contemporary Christian Ethics
- REL 4215 Ancient Israel and the Development of the Hebrew Bible
- REL 4216 Who Wrote the Bible
- REL 4245 New Testament I: Gospels, Acts
- REL 4250 Jesus' Life and Teachings
- REL 4252 New Testament II: Pauline Letters

*Non-Western Tradition (religious traditions other than those Western tradition referenced above):*

- 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 3380 Native American Religions
- REL 4333 Hindu Texts and Contexts

*Issues and Approaches*

- REL 2166 Introduction to Religion and Ecology
- 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 3140 Religion, Culture and Society
- REL 3146 Women and Religion
- REL 3170 Religion, Ethics and Society through Film
- REL 3191 Life after Death
- REL 3375 Issues in Caribbean Religions
- REL 3420 Contemporary Religious Thoughts
- REL 3444 Womanist Vision in Religion
- REL 3465 Religion and the Meaning of Life
- REL 3801 History of Writing
- REL 4113 The Hero and Religion
- REL 4177 Comparative Religious Ethics
- REL 4193 Comparative Mysticism
- REL 4291 Women and the Bible
- REL 4939 The Development of Religious Studies

**Variable Credit Individualized Courses (Students are limited to six (credit) hours of the following courses):**

- REL 3900 Directed Readings
- REL 4910 Undergraduate Research

### 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 for Undergraduate Research](#) will assist students in understanding the various course options.

### OPTIONAL HONORS PROGRAM

The purpose of the Honors Program in Religious Studies is to provide outstanding undergraduates with advanced and individualized learning opportunities in Religious Studies and their areas of special interest in this field. In addition it will serve to facilitate more direct contact between students in the program and their faculty mentors. In this program, students who have demonstrated significant academic achievement will inquire into issues and questions in the study of religion at an advanced level under the guidance of faculty members with demonstrated expertise in their fields of study and a strong commitment to teaching. Upon completion of the program, the student's transcript will state that the student graduated with Honors in Religious Studies. Application to the program should be submitted during a student's



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junior year. The Honors Committee will review all applicants before selecting no more than 10 individuals for the Honors Programs. Inductees will be notified of their admission to the Honors Program in the Spring term. Honors Program students are exempt from Sr. Seminar (REL 4931) contingent on their completion of the Honors Program. If students do not complete the Honors Program, they are required to complete Sr. Seminar in order to satisfy degree requirements.

### Admissions Criteria:

1. Religious Studies majors who have completed at least 70 (and preferably less than 90) hours of course work with an overall GPA of at least 3.25.
2. Completion of REL 3040 Introduction to Religious Studies and at least 12 additional hours of course work in the department of Religious Studies with a GPA of at least 3.5 in the major.
3. A letter of recommendation from a Religious Studies faculty member who is familiar with the applicant's work.
4. A statement from a Religious Studies faculty member expressing her/his willingness to serve as chair of the applicant's thesis committee.
5. A short essay (2-3) pages by the applicant that includes the following:
  - a statement of the applicant's qualifications for the program,
  - the applicant's area(s) of special interest,
  - an explanation of how the program will benefit from the applicant's inclusion in the program, and
  - the applicant's post-graduate plans.

### Requirements for Completion of the Departmental Honors:

1. Completion of the requirements for a Religious Studies major with a GPA of 3.5 or higher in the major.
2. Completion of a USF degree with an overall GPA of 3.25 or higher.
3. Completion of five (5) credit hours of "Honors Seminar." Honors students will take the seminar for three credit hours in the fall and two credit hours in the spring.
4. Completion of five (5) credit hours of Thesis/Directed Research for two credit hours in the fall and three credit hours in the spring. Honors students must also complete and present their Honors Thesis in the second semester of their senior year. Students who do not complete this requirement may, upon the recommendation of their major instructor and the Department Honors Program Coordinator, be allowed to continue in special circumstances.
  - 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

This program allows B.A. majors in Religious Studies to take graduate courses in the M.A. degree in Religious Studies 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.A. degree.

This accelerated program shares 12 credits between already existing degrees:

- B.A. in Religious Studies
- M.A. in Religious Studies

### Target students and expected outcomes

This program builds on the department's B.A. and M.A. degrees. It will give talented Religious Studies majors the opportunity to take graduate courses and apply them to a non-thesis M.A. in Religious Studies. If successful, students will be able to complete an M.A. two semesters after the B.A. requirements have been met. This will allow them to more expeditiously pursue career opportunities requiring a graduate degree in Religious Studies or pursue Ph.D. studies.

### Description and Requirements

For admission to the program, a student must:

1. have completed at least 15 hours in the Religious Studies undergraduate major;
2. have a minimum undergraduate 3.33 GPA overall; and
3. have a minimum undergraduate 3.5 GPA in the major.

Application to the program may be made by any student who has satisfied the minimum requirements. Applications should be addressed to the Religious Studies Graduate Director and should include a statement by the student affirming satisfaction of minimum requirements (with supporting documentation) and a letter of recommendation from a Religious Studies faculty member familiar with the student's academic performance.

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## Requirements for the B.A. in Religious Studies

Within the 120-semester hour program listed in the College of Arts and Sciences General Requirement section (including the state mandated common prerequisites), students must choose a total of 36 credit hours from Religious Studies courses. Transfer students may not apply more than 12 hours taken elsewhere toward the major at the University of South Florida. Only letter grades of at least C- will be counted toward the minimum of 24 credit hours taken at the University of South Florida for transfer students or 36 (for non-transfer students) credit hours necessary to complete the 36 credit hours required for the major. Students taking Religious Studies as a second major need to complete only 30 credit hours. To do so they must make a written request to the Undergraduate Director at the time they declare their major.

### Required Courses:

- REL 2300 Introduction to World Religions or REL 2306 Contemporary World Religions or REL 3308 World Religions
- REL 3040 Introduction to Religious Studies
- REL 3043 Introduction to Major Religious Texts
- REL 4931 Seminar in Religion

24 additional credit hours that satisfy the following requirements:

Take at least one course from each of the areas (Western Religions, Non-Western Religions, and Issues and Approaches)

Take at least 18 credit hours of 3000- and/or 4000-level coursework, of which a minimum of 9 must be at the 4000 level

### Shared B.A./M.A. Requirements

Twelve (12) hours of graduate credit may be shared as follows:

REL 4931 (Senior Seminar) is satisfied by RLG 6035 (Theory and Methods in Religious Studies)

9 elective hours at the 4000 level are satisfied by 9 elective hours at the 6000 level

### Graduate Degree Requirements for Accelerated M.A. in Religious Studies

**Total Minimum Hours: 36**

**Core Requirements: 15 hours**

RLG 6035 Theory and Methods in Religious Studies

Six hours in Western Religions (Christianity, Judaism, Islam)

Six hours in Eastern Religions (Hinduism, Buddhism, Daoism, Confucianism)

**Electives: 21 hours**

No more than six hours may come from independent study/directed reading.

No more than six hours may come from departments other than Religious Studies.

No grade lower than a B will be accepted in a graduate course in the B.A./M.A. program. Students earning less than a B in a graduate course must retake the course and earn a B or higher to apply it to their graduate degree.

### Timeline and benchmarks:

1. To be considered for acceptance into the Accelerated B.A./M.A. in Religious Studies, students must have completed a minimum of 15 credits in the Religious Studies undergraduate major.
2. Students must have a minimum undergraduate GPA of 3.33 overall, and a minimum GPA of 3.50 in the major to be eligible for the accelerated degree program.
3. Following completion of a minimum of 15 hours in the undergraduate major, students may be considered for acceptance into the accelerated program.
4. Applications should be addressed to the Religious Studies Graduate Director and should include:
  - o a statement by the student affirming satisfaction of minimum requirements (with supporting documentation)
  - o a letter of recommendation from a Religious Studies faculty member familiar with the student's academic performance.
5. Students must earn a minimum of a "B" (3.00) in all graduate courses. Failure to earn at least a "B" in a graduate course will result in academic review by the graduate program. Failure to maintain a minimum 3.0 GPA will result in academic probation, according to the procedures of the USF Office of Graduate Studies.

A comprehensive plan of study to complete the integrated B.A./M.A. program will be developed with the guidance of an advisor and a faculty member. A possible plan of study could be as follows. Summer sessions may also be included in the study plan.

### First and Second Year

REL 2300 Introduction to World Religions, REL 2306 Contemporary World Religions, or REL 3308 World Religions

REL 3040 Introduction to Religious Studies

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9 credit hours of undergraduate electives

## Third Year (Apply for Admission to the Integrated B.A./M.A. program)

REL 3043 Introduction to Major Religious Texts

6 credit hours of undergraduate electives

## Fourth Year (Student accepted in M.A. in Religious Studies program)

RLG 6035 Theory and Methods in Religious Studies

9 credit hours of 6000-level electives

6 credit hours of 6000-level electives

## Fifth Year

18 credit hours of 6000-level electives

## REQUIREMENTS FOR THE MINOR IN RELIGIOUS STUDIES (REL)

**TOTAL MINOR HOURS: 18**

<http://religious-studies.usf.edu/ugrad/requirements/>

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. Students are expected to study at least two different religious traditions.

### 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.

## RELIGIOUS STUDIES FACULTY

*Chairperson:* T. Williams; *Associate Chair:* D. deChant; *Distinguished University Professor:* J.F. Strange; *Professors:* D. Jorgensen, M.G. Mitchell, T. Williams; *Associate Professor:* W. Zhang; *Emeritus Professors:* D.J. Fasching, S. Garcia, S. Mandell; *Assistant Professors:* M. DeJonge, C. Fisher; *Instructors:* D. deChant, P. Schneider; W. Schanbacher; *Other Faculty:* J. Cavendish, M. Decker.

## • B.A. - RUSSIAN STUDIES (RSS) (CIP = 16.0402)

**TOTAL DEGREE HOURS: 120**

<http://languages.usf.edu/undergraduate/russian/>

This degree 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.

## STATE MANDATED COMMON COURSE PREREQUISITES

Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

To complete a major in Russian, students should demonstrate proficiency at the intermediate level within the target language. This may be accomplished by completing 6-12 hours within the language or by demonstrated competency

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at the intermediate level. If this coursework (or associated competency) is not completed at a Florida College System institution, it must be completed before the degree is granted. A grade of "C" is the minimum acceptable grade.

## REQUIREMENTS FOR THE MAJOR IN RUSSIAN STUDIES

**TOTAL MAJOR HOURS: 32**

### Major requirements for the B.A. Degree:

#### Major Core (14 hours)

- RUS 2220 Intermediate Russian I
- RUS 2221 Intermediate Russian II
- RUT 3110 Nineteenth-Century Russian Literature in English
- RUT 3111 Twentieth-Century Russian Literature in English

#### Major Electives (18 hours)

Select 18 hours in 3000- or 4000-level courses:

- RUS 3470 Overseas Study
- RUS 4241 Russian Language & Culture through Film II
- RUS 4900 Selected Topics
- RUS 4905 Directed Study

Up to 10 hours dealing with Russia, such as EUH and INR courses, may count.

Please contact a World Languages advisor to plan the appropriate coursework.

### Other Requirements

Prerequisites: RUS 1200 Beginning Russian I (4 hours) and RUS 1201 Beginning Russian II (4 hours). Students may be able to place out of prerequisites if they pass a proficiency test. Heritage students will be placed in language courses according to their proficiency.

### 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 for Undergraduate Research](#) will assist students in understanding the various course options.

### Advising Information

Yury Riascos, [languagesadvise@usf.edu](mailto:languagesadvise@usf.edu)

## REQUIREMENTS FOR THE MINOR IN RUSSIAN STUDIES (RSS)

**TOTAL MINOR HOURS: 15**

<http://languages.usf.edu/undergraduate/russian/>

#### 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 1200 Beginning Russian I (4 hours) and RUS 1201 Beginning Russian II (4 hours). Students may be able to place out of prerequisites if they pass as proficiency test. Heritage students will be placed in languages courses according to their proficiency.

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## Advising Information

Yury Riascos, [languagesadvise@usf.edu](mailto:languagesadvise@usf.edu)

## REQUIREMENTS FOR THE CERTIFICATE IN RUSSIAN STUDIES TOTAL CERTIFICATE HOURS: 23-26

<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, Government and International Affairs, and History. Courses from other departments may count if their subject matter has significant Russian or Eurasian content.

Students must complete 23-26 semester hours in related coursework.

### Certificate Core (10-11 hours)

Two of the following courses:

EUH 3575 Imperial Russia  
EUH 3576 Soviet Union  
EUS 3022 Russia

One of the following courses:

RUS 3500 Russian Civilization  
RUT 3110 Russian Classics in English  
RUT 3111 20th Century Russian Literature in English

### Certificate Electives (13-15 hours)

HIS 3930 Selected Topics\*  
HIS 4900 Directed Reading\*  
INR 3018 World Ideologies  
INR 4900 Directed Readings\*  
INR 4910 Directed Research\*  
INR 3955 Overseas Study\*  
RUS 2221 Russian IV  
RUS 3240 Conversation I  
RUS 4241 Conversation II  
RUS 2270 Overseas Study  
RUS 3470 Overseas Study  
RUS 4471 Advanced Overseas Study

\*When topic is defined as Russia, Eastern Europe or Eurasia

Students must declare their intention to be awarded the certificate by notifying the coordinator at least one full semester prior to graduation. Please contact Dr. Kees Boterbloem in the Department of History by e-mail: [cboterbl@usf.edu](mailto:cboterbl@usf.edu).

### Language

All students are encouraged to develop their language skills to the highest possible level. All students are encouraged to develop their language skills to the highest possible level, whether they are working in a Slavic, Turkic, or other language of the region. Russian language students who are non-native speakers should complete at least RUS 2200 (Russian III), and native speakers should complete one semester of RUS 4900 Analytical Reading. It is very important that students begin developing their language skills as early as possible. Although students only have to declare their intention one semester before graduation, it takes significantly longer to learn a language such as Russian. It is recommended that students take as many years of language study as possible.

### GPA Requirements

Maintain a GPA of 3.0.

## RUSSIAN STUDIES FACULTY

*Chairperson:* S.K. Schindler; *Professors:* G.A. Brulotte, M. Camara, V.E. Peppard, C.M. Probes; *Associate Professors:* P. Brescia, C.J. Cano, M. Grieb, I. Kantzios, P. La Trecchia, K. Simeon-Jones, C. Vasquez, W. Zhu; *Assistant Professors:* D. Arbesu, M.H. Chiang, A. Huensch, A. Latowsky, E. Manolaraki, C. Polt, X. Qin, H. Scharm, E. Shepherd, A. Thompson, N. Tracy-Ventura; *Instructors:* S. Amer, M. Chinea-Thornberry, C. Davies, A. De La.

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## • 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 the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

SYA XXXX or SYD XXX or SYG XXX, SYO XXX or SYP XXX (6 credit hours)

A grade of "C-" is the minimum acceptable grade.

### REQUIREMENTS FOR THE MAJOR IN SOCIOLOGY

TOTAL MAJOR HOURS: 12

**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.

#### 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.

The minimum of 36 credit hours in Sociology must include the following four core courses (12 hours):

SYG 2000 Introduction to Sociology

(May be replaced with an upper level sociology elective if a total of 12 or more hours of sociology coursework is completed before declaring a Sociology major)

SYA 3110 Classical Theory

SYA 3300 Research Methods (Prerequisite: STA 2122 Social Science Statistics or its equivalent)

SYA 4935 Senior Seminar

#### 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.

#### 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.

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## 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](mailto: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.

## 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 apply to the Honors Program in the Spring Semester during their junior year for admission for the following Fall. Admission to the program is competitive. Meeting minimum requirements does not guarantee admission. If you are interested in the Undergraduate Honors Program, please contact the Undergraduate Program Director, Maralee Mayberry at [mayberry@usf.edu](mailto: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.
5. Successful completion of the Honors Thesis (SYA 4910 and the thesis itself).
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](mailto: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 CPR 364, 974-9249 or Brandon Kroll, CPR 235, 974-6893.

## SOCIOLOGY CONCENTRATIONS

The Department of Sociology offers an optional areas of concentration in Identity and Community and Inequality and Social Justice.

## REQUIREMENTS FOR THE CONCENTRATION IN IDENTITY AND COMMUNITY (IDC) TOTAL CONCENTRATION HOURS: 12

<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.

### Concentration Core (3 hours)

SYP 4111 Identity and Community

### Concentration Electives (9 hours)

Students must choose 9 credit hours from the following:

SYP 4763 Childhood and Youth

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SYA	3310	Qualitative Inquiry
SYO	3120	Sociology of Families
SYD	4238	Immigrants to America
SYO	3200	Sociology of Religion
SYO	4573	Social Networks
SYO	4204	Religion & Immigration
SYP	4650	Sport in Society
SYP	3562	Family Violence
SYD	3700	Racial and Ethnic Relations
SYP	4012	Emotions in Society
SYA	4121	Queer Theory
SYA	4930	Selected Topics
SYD	4238	Immigrants to America
SYO	3200	Sociology of Religion
SYO	4204	Religion & Immigration
SYP	4650	Sport in Society
SYP	4675	Animals & Society
SYP	4510	Sociology of Deviance
SYD	4410	Urban Sociology
SYD	4411	Urban Life
SYP	4420	Consumer Culture
SYO	3460	Sociology of the Media
SYO	4573	Social Networks
SYG	3235	Latina/o Lives
SYA	4930	Transitions to Adulthood
SYA	4930	Self and Society
SYA	4930	Sociology of Culture
SYA	4930	Children of Immigration
SYA	4930	Contemporary Bodies
SYA	4304	Sociological Research Experience--with approval
SYA	4910	Independent Research--with approval
SYA	4949	Sociological Internship--with approval

## REQUIREMENTS FOR THE CONCENTRATION IN INEQUALITY AND SOCIAL JUSTICE (ISJ) TOTAL CONCENTRATION HOURS: 12

<http://sociology.usf.edu/ug/concentration/>

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.

### Concentration Core (3 hours)

SYO 4536 Inequalities and Social Justice

### Concentration Electives (9 hours)

SYD 3700 Racial and Ethnic Relations  
SYD 4512 Sustainable Consumption  
SYD 4800 Gender and Society  
SYA 4930 Topics in Sociology  
SYO 3530 Social Inequality in a Global Society  
SYP 3060 Sociology of Sexualities  
SYO 4204 Religion & Immigration  
SYO 4400 Medical Sociology  
SYO 4430 Disability and Society  
SYO 4572 Hidden Structures of Social Life  
SYP 3562 Family Violence  
SYP 4510 Sociology of Deviance  
SYP 4513 Elite Deviance  
SYP 4420 Consumer Culture



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SYD 4238	Immigrants to America
SYG 3235	Latina/Latino Lives
SYP 3004	Constructing Social Problems
SYO 3120	Sociology of Families
SYA 4121	Queer Theory
SYG 3011	Social Problems through Film
SYP 4651	Gender, Sport and the Body
SYO 4250	Sociology of Education
SYA 4930	LGBT Youth in Education
SYA 4930	Children of Immigration
SYA 4930	Environment and Society
SYA 4930	Political Sociology
SYA 4930	Women, Sex, and Knowledge
SYA 4930	Gender and Social Movements
SYA 4930	Stratification and Mobility
SYA 4930	Sociology of Globalization
SYA 4930	Sociology of the Media
SYA 4304	Sociological Research Experience--with approval
SYA 4910	Independent Research--with approval
SYA 4949	Sociological Internship--with approval

## 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.

## REQUIREMENTS FOR THE 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.

### 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:

- SYO 4536 Inequalities and Social Justice
- SYP 4763 Childhood and Youth
- SYA 3310 Qualitative Inquiry
- SYO 3120 Sociology of Families
- SYD 4238 Immigrants to America
- SYO 3200 Sociology of Religion
- SYO 4573 Social Networks
- SYO 4204 Religion & Immigration
- SYP 4650 Sport in Society
- SYP 3562 Family Violence
- SYD 3700 Racial and Ethnic Relations
- SYP 4012 Emotions in Society
- SYA 4121 Queer Theory
- SYA 4930 Selected Topics
- SYD 4238 Immigrants to America
- SYO 3200 Sociology of Religion
- SYO 4204 Religion & Immigration
- SYP 4650 Sport in Society
- SYP 4675 Animals & Society
- SYP 4510 Sociology of Deviance
- SYD 4410 Urban Sociology
- SYD 4411 Urban Life

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SYP 4111	Identify and Community
SYP 4420	Consumer Culture
SYO 3460	Sociology of the Media
SYO 4573	Social Networks
SYG 3235	Latina/Latino Lives

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## 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.

While students do not declare a Sociology minor until application for graduation, they are encouraged to make an appointment with the Sociology department undergraduate advisor if they wish to discuss which Sociology electives offered each semester would best meet their educational and career goals.

## 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, CPR 369, 974-9249 or Brandon Kroll, CPR 235, 974-6983.

## SOCIOLOGY FACULTY

*Chairperson:* L. Aranda; *Associate Chairperson:* L. Graham; *Professors:* R. Benford, D. Jacobson, D. Loseke, M. Mayberry, J. Skvoretz; *Associate Professors:* E. Aranda, J. Cavendish, S. Crawley, J. Friedman, L. Graham, C. Greek, S. Green, M. Kleiman, M. Kusenbach, C. Ponticelli, W. Tyson, E. Vaquera; *Assistant Professors:* S. Bingham, E. Hordge-Freeman; *Post-Doctoral Visiting Professor:* J. Meszaros; *Instructors:* C. Partin, E. Toothman; *Emeriti:* E. Nesman, D. Stamps, R. Wheeler.

## • B.A. - SPANISH (SPA) (CIP = 16.0905) TOTAL DEGREE HOURS: 120

<http://languages.usf.edu/undergraduate/spanish/degree/>

The Spanish major is the study of the Spanish language and Hispanic culture, emphasizing how cultural values develop and are communicated through the arts and within the many cultures comprising the Hispanic world (Spain and Latin America). It explores the complex interconnections between visual arts, music, literature, material culture, social structures, and ideas expressed in Spanish. The objective of the program is to provide students with knowledge of the Spanish language as well as its global cultural heritage, and to prepare students for a myriad of career options in education, communication, tourism, the medical fields, the government, and the business world. Often students who seek a degree in Spanish combine it with another degree program, such as international business or education. However, a Spanish degree does not have to be combined with another degree to lead to a good career, given the fact that Spanish is the second most spoken language in the World and that Hispanics are the second largest minorities in the U.S. A Spanish major is especially useful/necessary in Florida. The Spanish program at WLE is geared towards effectively preparing our majors for the local and national/international job market that welcomes bilingual candidates.

## STATE MANDATED COMMON COURSE PREREQUISITES

Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

To complete a major in Spanish, students should demonstrate proficiency at the intermediate level within the target language. This may be accomplished by completing 6-12 hours within the language or by demonstrated competency at the intermediate level. If this coursework (or associated competency) is not completed at a Florida College System institution, it must be completed before the degree is granted. A grade of "C" is the minimum acceptable grade.

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## REQUIREMENTS FOR THE MAJOR IN SPANISH

TOTAL MAJOR HOURS: 63

### Major requirements for the B.A. Degree:

#### Major Core (21 hours)

##### Language (6 hours)

- SPN 3300 Advanced Grammar and Composition
- SPN 4301 Expository Writing

##### Literature (9 hours)

- SPW 3030 Introduction to Hispanic Literary Studies
- SPW 4100 Survey of Spanish Literature I or SPW 4101 Survey of Spanish Literature II
- SPW 4130 Survey of Spanish-American Literature I or SPW 4131 Survey of Spanish-American Literature II

##### Civilization (6 hours)

- SPN 3500 Spanish Civilization
- SPN 3520 Spanish-American Civilization

#### Major Electives (12 hours)

Select 12 hours in 3000-, 4000- or 5000-level SPN or SPW courses and may include one course (three-credit hours) of Spanish/Spanish American literature or culture in translation. Two courses of the 12 hours of electives must be at the 4000-level. All electives must be approved by a department advisor prior to enrollment.

### 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 for Undergraduate Research](#) will assist students in understanding the various course options.

### Advising Information

Yury Riascos Email: [languagesadvise@usf.edu](mailto:languagesadvise@usf.edu)

## REQUIREMENTS FOR THE CONCENTRATION IN INTERNATIONAL STUDIES AND BUSINESS (ISB)

TOTAL MAJOR AND CONCENTRATION HOURS: 63

#### Concentration Core (45 hours)

\*SPN 3300 Advanced Spanish Grammar and Composition is the prerequisite for SPN 4301 Expository Writing. SPN 3300 may be substituted for native speakers with SPN 2340 Advanced Spanish for Native Speakers I or SPN 2341 Advanced Spanish for Native Speakers II.

##### *Required courses in Spanish for the major (18 credit hours)*

- SPN 3300 Advanced Spanish Grammar and Composition
- SPN 3440 Spanish for Business and International Trade I
- SPN 3441 Spanish for Business and International Trade II
- \*SPN 4301 Expository Writing
- SPN 4410 Advanced Conversation
- SPN 3500 Spanish Civilization
- SPN 3520 Spanish-American Civilization

##### *Required courses in International Studies (9 credit hours):*

- CPO 2002 Introduction to Comparative Politics
- CPO 4930 Comparative Government & Politics of Select Areas
- INR 1015 World Perspective

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

- ACG 3074 Managerial Accounting for Non-Business Majors
- ECO 1000 Basic Economics
- FIN 3403 Principles of Finance
- MAN 3025 Principles of Management
- MAR 3023 Basic Marketing
- XXX XXXX A Capstone Course

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## Concentration Electives (18 hours)

*Supporting courses in Spanish required for the major (6 credit hours):*

- SPN 2340 Advanced Spanish for Native Speakers I
- SPN 2341 Advanced Spanish for Native Speakers II
- SPN 4700 Spanish Linguistics
- SPW 3030 Introduction to Hispanic Literary Studies
- SPW 4100 Survey of Spanish Literature I
- SPW 4101 Survey of Spanish Literature II
- SPW 4130 Survey of Spanish-American Literature I
- SPW 4131 Survey of Spanish-American Literature II
- SPW XXXX Any SPW Course

*Supporting courses in Business (6 credit hours):*

Choose any two (2) upper-level International Business courses.

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

Select six (6) overseas study credit hours or three (3) credit hours overseas study plus three (3) credit hours area studies courses planned with an advisor.

## Optional Area of Specialization

### International Studies (Latin America) with a Language (Spanish) & Business Concentration

*Required International Studies courses (15 credit hours):*

- CPO 2002 Introduction to Comparative Politics
- CPO 4930 Comparative Government & Politics of Select Areas
- INR 1015 World Perspective
- INR 2002 Introduction to International Relations
- INR 3038 International Wealth and Power

*International Studies electives (3 credit hours)*

- INR 3018 World Ideologies
- INR 3202 International Human Rights
- POT 4109 Politics and Literature

*Required courses in Spanish (12 credit hours):*

- SPN 3440 Spanish for Business and International Trade I
- SPN 3500 Spanish Civilization
- SPN 3520 Spanish-American Civilization
- SPN 4301 Expository Writing

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

- ACG 3074 Managerial Accounting for Non-Business Majors
- ECO 1000 Basic Economics
- FIN 3403 Principles of Finance
- MAN 3025 Principles of Management
- MAR 3023 Basic Marketing
- XXX XXXX A Capstone Course

*Supporting courses in Business (6 credit hours):*

Choose any two (2) upper-level International Business courses.

*Required overseas study courses and/or area studies courses (9 credit hours):*

Select three (3) overseas study credit hours or three (3) credit hours overseas study plus six (6) credit hours area studies courses planned with an advisor (2 courses from International Studies or other departments).

## REQUIREMENTS FOR THE MINOR IN SPANISH (SPA)

**TOTAL MINOR HOURS: 18**

<http://languages.usf.edu/undergraduate/spanish/degree/>

### Minor Core (6 hours)

- SPN 3300 Advanced 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.

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## Advising Information

Yury Riascos Email: [languagesadvise@usf.edu](mailto:languagesadvise@usf.edu)

## SPANISH FACULTY

*World Languages Chairperson:* S.K. Schindler; *Professors:* P. Brescia (Spanish), G.A. Brulotte (French), M. Camara (Spanish), V.E. Peppard (Russian), C.M. Probes (French), S.K. Schindler (German); *Associate Professors:* C.J. Cano (Spanish), M. Grieb (German), I. Kantzios (Classics), A. Latowsky (French), P. La Trecchia (Italian), E. Manolaraki (Classics), H. Scharm (Spanish), E. Shepherd (Chinese), K. Simeon-Jones (French), A. Thompson (Linguistics), C. Vasquez (Linguistics), W. Zhu (Linguistics); *Assistant Professors:* D. Arbesu (Spanish), M.H. Chiang (Chinese), A. Huensch (Linguistics), X. Qin (Chinese), N. Tracy-Ventura (Linguistics); *Instructors:* S. Amer (Arabic), M. Chinea-Thornberry (Spanish), F. Colleoni (Italian), C. Davies (Portuguese), A. De La Pava (Spanish), S. Huber (German), M. Manzur-Leiva (Spanish), M. Nozu (Japanese), A. Oh (Classics), O. Oleynik (Russian), S. Wohlmuth (Spanish), Q. Wu (Chinese).

## • 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.

## STATE MANDATED COMMON COURSE PREREQUISITES

Students wishing to transfer to USF from a Florida College System institution should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university.

A student who transfers without an A.A. degree and has fewer than 60 semester hours of acceptable credit must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following **prerequisite courses** listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

COP XXXX A Scientific Programming Course designed for Computer Science Majors  
MAC X311 Calculus I  
MAC X312 Calculus II - Calculus with Analytic Geometry II  
MAC X313 Calculus III  
STA 2XXX Statistics  
BSC XXXX / XXXXL 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)

Majors must complete the following five courses plus completion of one of the four lab-based Science courses (Minimum 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 (Minimum 12 credit hours):

STA 2023 Introductory Statistics I  
STA 3024 Introductory Statistics II  
STA 4321 Essentials of Statistics  
STA 4442 Introduction to Probability I

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## Major Electives (15 hours)

Majors must complete four courses from the following electives (Minimum 15 credit hours):

- STA 4222 Sample Survey Design
- STA 4502 Nonparametric Statistical Methods
- STA 4504 Categorical Data Analysis
- STA 4702 Multivariate Statistical Methods
- STA 4852 Applied Time Series
- MAP 2302 Differential Equations
- MAS 3105 Linear Algebra

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.

## Minimum Grade Requirements

In general, grades of C- or better are required for courses in the mathematics major and minor and in the statistics major. However, C- is not an acceptable grade for any course that is being used as a prerequisite for a follow-on course. For these courses a grade of C (2.0 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 for Undergraduate Research](#) will assist students in understanding the various course options.

## Advising Information

Please make sure to visit the following website <http://math.usf.edu/resources/advising/> for additional information and all your advising needs.

## STATISTICS FACULTY

*Chairperson:* L. Skrzypek; *Associate Chairperson:* S. Suen; *Distinguished University Professors:* D. Khavinson, C.P. Tsokos; *Professors:* X. Hou, N. Jonoska, A.G. Kartsatos, G. Ladde, M.N. Manougian, E. Rakhmanov, K.M. Ramachandran, J.S. Ratti, M. Saito, B. Shekhtman, W.R. Stark, V. Totik, Y. You; *Associate Professors:* T. Bieske, C. Beneteau, B. Curtin, M. Elhamedadi, S. Kouchekian, W. Ma, G.L. McColm, M.M. McWaters, B.T. Nagle, L. Skrzypek, S. Suen, R. Teodorescu; *Assistant Professors:* A. Danielyan, M. Krajcevski, S.Y. Lee, D. Shen, R. Wooten; *Instructors:* A. Bieske, F. Burgos, I. Chitikov, F. Hopf, S.E. Rimbey, I. Rothstein; *Scholar/Scientist/Engineer:* A. Grinshpan; *Professors Emeriti:* W.E. Clark, S. Isaak, J.J. Liang, A. Mukherjea, K.L. Pothoven, F.J. Zerla, C.A. William.

## • B.A. - WOMEN'S AND GENDER STUDIES (WGS) (CIP = 05.0207)

**TOTAL DEGREE HOURS: 120**

<http://wgs.usf.edu/undergrad/requirements/>

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 wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

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No State Mandated Common Prerequisites are required for this degree program.

## 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 for 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, Briana Byers, is located on the second floor of SCA in room 239. She can be reached at [WGSadvise@usf.edu](mailto:WGSadvise@usf.edu).

## REQUIREMENTS FOR THE MINOR IN WOMEN'S AND GENDER STUDIES (WGS) 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 and requires a minimum of 18 hours of departmental coursework.

#### Minor Core (6 hours)

- WST 3015 Introduction to Women's Studies
- One other WST core course

#### Minor Electives (12 hours)

12 credit hours selected from among departmental offerings and must include a minimum of six (6) hours at the 4000-level or higher.

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## Grading Requirement

A grade of "C-" is required for a departmental course to count toward a Women's and Gender Studies minor. Courses may not be taken S/U, where a grade option exists.

## Other Information

Students may petition the undergraduate advisor to focus their minor on a specific area within Women's and Gender Studies, such as sexualities, women's health or social justice.

## WOMEN'S AND GENDER STUDIES FACULTY

*Chairperson:* D. Price-Herndl; *Professor:* D. Price-Herndl; *Associate Professors:* K. Golombisky, M. Hughes Miller; *Assistant Professor:* D. Rubin; *Professor Emeriti:* C. DiPalma, L.L. McAlister, M. Myerson, J. Snook; *Instructors:* J. Turner, M. Wendland.

## REQUIREMENTS FOR THE MINOR IN CHINESE LANGUAGE (CHN) TOTAL MINOR HOURS: 18

[http://languages.usf.edu/undergraduate/Chinese\\_Minor\\_3.2015.pdf](http://languages.usf.edu/undergraduate/Chinese_Minor_3.2015.pdf)

The Minor in Chinese Language is designed for majors in any field who wish to demonstrate in-depth knowledge of Chinese language, culture and society. The minor in Chinese is designed to equip students with a foundation in Chinese language and culture necessary to successfully interact with Chinese people.

A total of 18 semester hours is required for the minor in Chinese Language. Of those 18 hours, 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.

## Advising Information

Dr. Eric Shepherd, Director of the Chinese Language Program ([erics@usf.edu](mailto:erics@usf.edu))  
Word Languages Advisor: [languagesadvise@usf.edu](mailto:languagesadvise@usf.edu)

## REQUIREMENTS FOR THE 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.

### Minor Core (3 hours)

LIN 3010 Introduction to Linguistics

### Minor Electives (12 hours)

ANT 3610 Anthropological Linguistics  
CLT 3040 Scientific and Medical Terminology  
FRE 4700 French Linguistics  
LIN 2002 Language, Culture & Film  
LIN 4671 Traditional English Grammar  
LIN 4701 Psycholinguistics



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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	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, [Yury Riascos](mailto:Yury_Riascos@usf.edu) ([LanguagesAdvise@usf.edu](mailto:LanguagesAdvise@usf.edu)), or the Linguistics Minor Coordinator, [Amanda Huensch](mailto:Amanda.Huensch@usf.edu).

## REQUIREMENTS FOR THE 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 and consists of 15 credit hours.

### Minor Core (9 hours)

PAD	3003	Introduction to Public Administration
PAD	4204	Public Financial Administration
PAD	4415	Personnel and Supervision for Today's

### Organizations Minor Electives (6 hours)

Select 3 credit hours from:

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	Intro to Urban Studies
URP	4052	Urban & Regional Planning

## REQUIREMENTS FOR THE CERTIFICATE IN ASIAN STUDIES TOTAL CERTIFICATE HOURS: 18

<http://gia.usf.edu/astudies/>

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.

### 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	2200	Modern Chinese III
CHI	4905	Directed Study
CHI	4930	Selected Topics
JPN	1120	Modern Japanese I

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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	3335	Gods and Goddesses of India
REL	3340	Buddhism Truths and Paths
REL	3330	Religions of South Asia
REL	4333	Hindu Texts and Contexts

## Group B (at least two courses)

*Geography:*

GEA	3703	Geography of
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*Asia History:*

ASH	2270	Southeast Asian History
HIS	2931*	Special Topics
ASH	3404	Modern China

*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 Raheleh Dayerizadeh; she may be contacted at [rdayeriz@usf.edu](mailto:rdayeriz@usf.edu).

## REQUIREMENTS FOR THE 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.

### Certificate Core (3 hours)

GEA	3194	Regional Geography – India
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### Certificate Electives (12 hours)

Four electives (12 hours) must be taken--two each from Group A and two each from Group B.

#### Group A: History, Geography, Society, Politics (6 credit hours):

Courses that may be applied as electives to the India Studies Certificate are as follows:

GEO	4930	Selected Topics
INR	4931	Selected Topics

#### Group B: Language, Culture, Philosophy, and Religion (6 credit hours):

Courses that may be applied as electives to the India Studies Certificate are as follows:

REL	2300	Introduction to World Religions
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REL	3014	Introduction to Major Religious Texts
REL	3308	World Religions
REL	3330	Religions of South Asia
REL	3335	Gods and Goddesses of India
REL	4333	Hindu Texts and Contexts
HUM	3930	Special Topics

## Group C: Study Abroad (6 credit hours) (Optional):

Students with Study Abroad experience in India may substitute one course each from Group A and Group B for 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](mailto:grewal@usf.edu) or Dr. Pratyusha Basu at [pbsau@usf.edu](mailto: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.

## Advising Information

Dr. Gil Ben-Herut, Asst. Professor of South Asian Religions, Department of Religious Studies, (813) 974-2221

## CERTIFICATE IN LATIN AMERICAN AND CARIBBEAN STUDIES TOTAL CERTIFICATE HOURS: 15

<http://islac.usf.edu/>

The College of Arts and Sciences offers a Certificate in Latin American and Caribbean Studies for students who wish to gain an intensive multi-disciplinary understanding of this important area, and have that knowledge formally recognized in their academic record. This program is open to all USF majors of all colleges.

The certificate requires a minimum of 15 semester hours of courses about Latin America and the Caribbean.

### 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:

#### 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

#### Geography/Government & International Affairs

CPO	4034	Politics of Developing Areas
CPO	4930	Comparative Government and Politics of Select Areas (when selected area is Latin America)*
GEA	3405	Geography of Latin America

#### 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 in Latin American Studies
LAS	4940	Internship in Latin American Studies

#### Art/Humanities/Literature

AML	3630	U.S. Latino/Latina Literature in English
HUM	2466	Modern Latin America
HUM	3464	Latin American Civilization I: Pre-Columbian and Colonial
HUM	4462	Pre-Columbian and Colonial Latin American Culture

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HUM	4464	Modern Latin American Culture
SPN	3520	Spanish American Civilization
SPT	3100	Masterpieces of Hispanic Literature
SPW	3030	Introduction to Hispanic Literary Studies
SPW	4130	Survey of Spanish American Literature I
SPW	4131	Survey of Spanish American Literature II
Others		
AFA	4500	Slavery in the Americas
REL	3375	Issues in Caribbean Religions
SOW	4522	Multicultural America in a Global Society
SSE	4380	Global and Multicultural Perspectives in Education
SYD	4238	Immigrants to America
SYG	3235	Latino/Latina Lives
SYO	4202	Religion and Immigration
WST	4262	Literature by Women 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](mailto:plezama@usf.edu).

## REQUIREMENTS FOR THE CERTIFICATE IN MODERN WESTERN EUROPEAN STUDIES TOTAL CERTIFICATE HOURS: 21-24

[http://mwestudies.cas.usf.edu/certificate\\_requirements.html](http://mwestudies.cas.usf.edu/certificate_requirements.html)

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.

### Certificate Core (15-16 hours)

#### Core Courses (9-10 credit hours)

Students will take a total of three courses from the following; one of them must be either EUS 3000 or GEA 3500.

EUS	3000	Europe
GEA	3500	Geography of Europe
EUH	3205	History of Nineteenth Century Europe or EUH 3206 History of Twentieth Century Europe
HUM	3251	Studies in Culture: The Twentieth Century
LIT	3144	Modern European Novel
PHM	4331	Modern Political Philosophy

#### Language Requirement (6 credit hours)

Students will take two additional semesters of the foreign language they have taken in fulfillment of the College of Arts and Sciences language requirement.

#### Certificate Electives (6-8 hours)

#### Overseas Experience

Students should make Western European study and travel an important component of their academic work. They are required to enroll for at least 3 elective credit hours in courses that involve Western European study and travel. These may be taken in one of three ways:

1. as IDS 4955 (Off-Campus Term International Program),
2. as one or two of the courses listed below as Elective Courses, or
3. as part of overseas study courses offered by other USF colleges and other universities.

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\*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.

### English

- ENL 3230 British Literature 1616-1780
- ENL 3251 British Literature 1780-1900
- ENL 3273 British Literature 1900-1945
- ENL 3331 Early Shakespeare
- ENL 3332 Late Shakespeare
- LIT 3102 Literature of the Western World II since the Renaissance

### History

- EUH 3142 Renaissance and Reformation
- EUH 3202 History of 17th and 18th Century Europe
- EUH 3205 History of 19th Century Europe
- EUH 3206 History of 20th Century Europe
- EUH 3461 German History to 1870
- EUH 3462 German History 1870 to Present
- EUH 3501 British History to 1688
- EUH 3502 British History 1688 to Present
- HIS 3930 Special Topics
- HIS 4900 Directed Reading

### Humanities and Cultural Studies

- HUM 4437 Italian Renaissance Culture
- HUM 4438 Northern Renaissance Culture
- HUM 4440 Arts and Letters in the 17th and 18th Centuries
- HUM 4442 Arts and Letters of the Romantic Period
- HUM 4444 19th Century European Arts and Letters
- HUM 4445 20th Century European Arts and Letters
- HUM 4905 Directed Study
- HUM 4941 Study on Location

### Government and International Affairs

- CPO 4930 Comparative Government and Politics
- INR 3955 Overseas Study
- INR 4900 Directed Readings
- INR 4910 Directed Research
- INR 4931 Selected Topics
- POS 3931 Selected Topics
- POS 4905 Independent Study
- POT 4054 Modern Political Theory

### World Languages

(Note: the student should take courses from the list below after completing the two additional semesters of the foreign language requirement (see I) or, if already advanced in a language, with the instructor's approval. These courses are generally taught in the target language.)

#### FRENCH

- FRE 3234 Reading in French Literature and Culture
- FRE 3440 French for Business
- FRE 3500 French Civilization
- FRW 4100 Introduction to French Novel
- FRW 4101 Introduction to French Drama and Poetry
- FRE 4905 Directed Study
- FRE 4930 Selected Topics

#### GERMAN

- GER 3500 German Civilization
- GET 3100 German Literature in English
- GET 3290 Fantastic Films of Early German Cinema
- GEW 4100 Survey of German Literature I

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GEW 4101	Survey of German Literature II
GEW 4900	Directed Study
GEW 4930	Selected Topics

## ITALIAN

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

## SPANISH

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

## **Philosophy**

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

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](mailto:LanguagesAdvise@usf.edu)

## **REQUIREMENTS FOR THE CERTIFICATE IN URBAN STUDIES** **TOTAL CERTIFICATE HOURS: 24-26**

<http://spa.usf.edu/undergraduate/urban/>

The Urban Studies Certificate offers students the opportunity to supplement their education and training with a focus on the problems and potentials of the urban world around us. Eighty percent of Americans live in one of the country's nearly 400 major metropolitan areas. Understanding the economic, social, cultural, political and spatial phenomena of urban areas, and how they came to be, is essential if one is to thrive in today's world. The Urban Studies curriculum begins with an interdisciplinary Introduction to Urban Studies and then weaves the multidisciplinary urban offerings into a coherent understanding of urban life. The Urban Studies Coordinator helps each student fashion a curriculum that meets his/her unique intellectual and career needs. The curriculum, through its courses and internship possibilities, focuses on the "real world," thus providing students with a valuable foundation for their career planning and advancement. With the help of the Urban Studies Coordinator, students can design concentrations in urban planning, urban management, community development, community organizing, etc.

### **Certificate Core (12-14 hours)**

#### **Core Courses (9-10 credit hours):**

URS 3002 Introduction to Urban Studies

And two of the following:

ANT 4442	Urban Life and Culture
ARC 4784	The City
ECP 3613	Economics of the Urban Environment
GEO 3602	Urban Geography
GEO 4604	Topics in Urban Geography

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POS 3142	Introduction to Urban Politics and Government
SYA 4930	Selected Topics*
SYD 4410	Urban Sociology
SYD 4411	Urban Life

Courses may have prerequisites within the discipline.

## Methods Courses (select one of the following (3-4 credits hours):

AFA 4350	African American Community Research
ANT 4285	Oral History
ANT 4495	Methods in Cultural Research
CCJ 3701	Research Methods in Criminal Justice I
POS 3713	Empirical Political Analysis
STA 2122	Social Science Statistics
SYA 3300	Research Methods
SYA 3310	Qualitative Inquiry
GEO 3164C	Quantitative Methods
GIS 3006	Computer Cartography

Courses may have prerequisites within the discipline.

## Certificate Electives (12 hours)

Select four from the following list or from the core courses not counted above:

### Africana Studies

AFA 4331	Social Institutions and the African-American Community
AMH 3572	African American History since 1865
AMS 3700	Racism in American Society
AFA 4335	Black Women in America
AFA 4931	Social and Cultural Issues in Black Urban Life

### Anthropology

ANT 4316	Ethnic Diversity in the U.S.
ANT 4701	Applied Anthropology
ANT 4930	Special Topics in Anthropology

### Communication

SPC 3710	Communication and Cultural Diversity
SPC 4714	Communication, Culture and Community

### Criminology

CCJ 3003	Crime and Justice in America
CCJ 3024	Survey of the Criminal Justice System
CCJ 3610	Theories of Criminal Behavior
CCJ 3621	Patterns of Criminal Behavior
CCJ 4450	Criminal Justice Administration

### Economics

ECO 4323	Radical Political Economy
ECO 4504	Public Finance
ECP 3201	Economics of Women and Work
ECP 3203	Labor Economics
ECP 3302	Environmental Economics
ECP 3530	Economics of Health

### Geography

EVR 2861	Introduction to Environmental Policy
GEO 4471	Political Geography
GEO 4502	Economic Geography
GEO 4700	Transportation Geography
URP 4052	Urban and Regional Planning

### History

AMH 3423	Modern Florida
AMH 3500	American Labor History
AMH 3530	Immigration History
AMH 3572	African American History since 1865

### Political Science

POS 2112	State & Local Government and Politics
POS 3182	Florida Politics and Government
POS 5155	Issues of Urban Government and Politics

### Public Administration

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PAD	3003	Introduction to Public Administration
PAD	4144	Nonprofit Organizations and Public Policy
PAD	4204	Public Financial Administration
PAD	5333	Concepts & Issues in Public Planning
PAD	5807	Administration of Urban Affairs
Social Work		
SOW	3210	The American Social Welfare System
Sociology		
SYO	3120	Sociology of Families
SYO	3530	Social Inequalities in a Global Society
SYD	3700	Racial and Ethnic Relations
SYP	4111	Identity and Community
SYP	4420	Consumer Culture
SYP	4510	Sociological Aspects of Deviance
SYP	4530	Sociology of Juvenile Delinquency
Internships (one of the following can be substituted as an ELECTIVE)		
CCJ	4940	Internship for Criminal Justice Majors
IDS	4942	Community Internship
IDS	4956	International Community Internship
POS	4941	Field Work
SYA	4949	Sociological Internship



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The College of Behavioral & Community Sciences (CBCS) prepares students, scholars, human service providers, policy makers, and other professionals to improve the quality of life, health, and safety of diverse populations. Through multidisciplinary teaching, research, and engagement with community partners, the College focuses on the development and implementation of innovative solutions to the complex challenges that affect the behavior and well-being of individuals, families, populations, and the communities in which we live.

**Following are the undergraduate academic programs offered by the College of Behavioral & Community Sciences:**

## **Bachelor of Arts (B.A.)**

Communication Sciences and Disorders (CSD)  
Deaf Studies (DST)  
Interpreter Training (ITT)  
Language-Speech-Hearing (LSH)

Criminology (CCJ)  
Gerontology (GEY)

## **Bachelor of Science (B.S.)**

Behavioral Healthcare (BHC)  
Addictions and Behavioral Health Care (BAH)  
Adult Community Services (ACS)  
Aging and Behavioral Health (AGBH)

Applied Behavior Analysis (ABA)  
Behavioral Health Research (BHR)  
Children's Mental Health (CML)  
Long Term Care Administration (LTC)

## **Bachelor of Social Work (B.S.W.)**

Social Work (SOK)

## **Honors Programs**

Communication Sciences and Disorders

Social Work

## **Minors**

American Sign Language (ASL)  
Applied Behavior Analysis (ABA)  
Behavioral Healthcare (BHC)

Criminology (CCJ)  
Gerontology (GEY)

## **Certificates**

Undergraduate Research in Behavioral & Community Sciences

## **Undergraduate Admission - 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.*

## **Undergraduate Advising Information**

The College of Behavioral and Community Sciences Dean's Office is located in MHC 1110 and the Office of Student Services (which handles student-related academic matters) is located in MHC 1143/1149. Academic Advising is housed within the major departments. Advisor contact information is available at: <http://www.cbcs.usf.edu/CurrentStudents/ContactAdvising.cfm>.

The College of Behavioral and Community Sciences offers three undergraduate degree options: Bachelor of Arts, Bachelor of Science, and Bachelor of Social Work.

### **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

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the Foreign Language Exit Requirement.

4. Satisfy Board of Governor's Resolution 6.017 (Gordon Rule) concerning computation and communication. Transfer students who enter USF with 60 or more semester hours from a regionally accredited institution are considered to have met the communication portion of this Regulation.
5. Complete 36 hours of General Education Core courses and Foundations of Knowledge and Learning Core Curriculum (for more information, see section titled "Foundations of Knowledge and Learning" (FKL) in Academic Policies and Procedures section).

**Prior to graduation, each student must also complete 6 hours of Exit Requirements:**

- Three (3) hours credit in Capstone Learning Experience category (must be on current approved capstone exit course list)
  - Three (3) hours credit in Writing Intensive Capstone category (must be on current approved writing intensive exit course list)
6. Complete at least 9 semester hours at a Florida public university in the Florida State University System during summer terms if entering USF with fewer than 60 semester hours.
  7. Complete all major course requirements.
  8. Thirty (30) of the last 60 semester hours must be completed at USF Tampa to fulfill the residency requirement.
  9. When double majoring, a maximum of 2 courses or 8 hours may be used to satisfy requirements between majors. Students should check with the advisors in both departments when pursuing more than one degree.
  10. S/U contracts must be negotiated in writing within the first three (3) weeks of the term. No credits may be taken S/U in the student's major unless S/U is the only grading option. Coursework fulfilling the Gordon Rule requirement may not be taken S/U.
  11. The Audit option is available only during the first 5 (five) days of classes.
  12. Complete a minimum of 48 hours of upper-level courses (numbered 3000 or above).
  13. Students must apply for graduation by the end of the fourth week of their final semester (See Registrar's calendar for exact dates.) For late application information, please refer to the Application for Graduation section of the Academic Policy and Procedures division of the catalog.

## Departmental Minor

In order to help students develop concentrations in elective work taken in conjunction with their chosen major, the College of Behavioral and Community Sciences offers minors in the following areas: American Sign Language, Applied Behavior Analysis, Behavioral Healthcare, Criminology, and Gerontology.

Students may not use courses in the major for the minor, unless approved by the department offering the minor. Specific requirements for the different minors appear with the departmental summaries listed in "Departments and Programs" Section of this catalog.

## • B.S. - BEHAVIORAL HEALTHCARE (BHC) (CIP = 44.0000) TOTAL DEGREE HOURS: 120

[http://mhlp.fmhi.usf.edu/academics/Behavioral\\_Healthcare\\_Major\\_Class\\_Info.cfm](http://mhlp.fmhi.usf.edu/academics/Behavioral_Healthcare_Major_Class_Info.cfm)

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

It is strongly recommended that those students seeking the Bachelor's degree in Behavioral Healthcare complete prerequisites at the lower level prior to entering the university. (These courses may also be used to fulfill FKL requirements for entering freshmen.) The state mandated common course prerequisites must be completed with a minimum grade of C (not C-) or better.

- PSY X012 Introduction to Psychological Science
- STA XXXX Any level Statistics course or PSY X204 Psychological Statistics
- SYG X000 Introduction to Sociology or SYG X010 Contemporary Social Problems

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## REQUIREMENTS FOR THE MAJOR IN BEHAVIORAL HEALTHCARE TOTAL MAJOR HOURS: 37

### Major requirements for the B.S. Degree:

#### Major Core (22 hours)

MHS 3411	Multidisciplinary Behavioral Healthcare*
PSY 3213	Research Methods in Psychology (or equivalent with Department approval)
MHS 4022	Adult Psychopathology in the Community or MHS 4490 Behavioral Healthcare Issues for Children
MHS 4408	Exemplary Practices in Behavioral Healthcare Treatment
MHS 4002	Behavioral Health Systems Delivery
MHS 4452	Co-Occurring Disorders
MHS 4703	Legal, Ethical & Professional Issues in BHC

\*MHS 3411 should be taken during 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 failing below the 2.50 GPA will allowed no more than one semester to improve their GPA to threshold.

### Course Grade Requirement

MHS 3411 requires a minimum grade of "B-".

### Grading Requirement

A grade of lower than "C-" in Behavioral Health major courses will not be counted toward fulfilling the requirements for the major.

## BEHAVIORAL HEALTHCARE CONCENTRATIONS

There are six concentrations offered in the Behavioral Healthcare major and students must choose one concentration.

## REQUIREMENTS FOR THE CONCENTRATION IN ADDICTIONS AND BEHAVIORAL HEALTHCARE (BAH) TOTAL CONCENTRATION HOURS: 15

[http://mhlp.fmhi.usf.edu/academics/Behavioral\\_Healthcare\\_Major\\_Class\\_Info.cfm](http://mhlp.fmhi.usf.edu/academics/Behavioral_Healthcare_Major_Class_Info.cfm)

### Concentration Core (12 hours)

MHS 4425	Field Experience in Behavioral Healthcare
MHS 4453	Applied Psychopharmacology in Drug Abuse and Dependence
MHS 4454	Alcohol Drugs and Crime
MHS 4455	Drug Abuse Prevention and Treatment

Note: Students pursuing this concentration can take MHS 4022 Adult Psychopathology in the Community or MHS 4490 Behavioral Healthcare Issues for Children or GEY 4360 Gerontological Counseling to satisfy the core course requirement in individual psychopathology and treatment.

### Concentration Electives (3 hours)

Department Approved Elective in Addictions (consult with advisor for options)	
MHS 4023	Recovery-Oriented Mental Health Services
RCS 4033	Overview of Rehabilitation & Mental Health Counseling Professions
MHS 4734	Behavioral Health and the Family
MHS 4931	Selected Topics, Offered by the Department

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

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<b>Semester 1</b>	<b>Credit Hours</b>	<b>Semester 2</b>	<b>Credit Hours</b>
! <u>ENC 1101</u> Composition I	3	! <u>ENC 1102</u> Composition II	3
<u>SGEH</u> General Education Core Humanities	3	! <u>PSY 3204</u> or <u>STA 2023</u> or <u>STA 2122</u>	3
<u>PSY 2012</u> Introduction to Psychological Science	3	<u>SGEN</u> General Education Core Natural Sciences	3
<u>SLS 2901</u> Academic Foundations Seminar	3	<u>CAHU</u> FKL/Gen Ed Humanities	3
! <u>SGEM</u> General Education Core Mathematics	3	General Elective	3
Semester Hours:	15	Semester Hours:	15

<b>Summer</b>	<b>Credit Hours</b>
General Elective	3
General Elective	3
Semester Hours:	6

<b>Semester 3</b>	<b>Credit Hours</b>	<b>Semester 4</b>	<b>Credit Hours</b>
<u>SYG 2010</u> or <u>SYG 2000</u>	3	! <u>MHS 3411</u> Multidisciplinary Behavioral Healthcare Services	3
<u>CAFA</u> FKL/Gen Ed Fine Arts	3	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
<u>6AC</u> FKL/Gen Ed Gordon Rule Communication	3	<u>CANL</u> or <u>CANP</u> (Take a CANP or CANL course, depending on what course was taken for the Natural Science core.)	3
General Elective	3	General Elective	3
General Elective	3	General Elective	3
Semester Hours:	15	Semester Hours:	15

<b>Summer</b>	<b>Credit Hours</b>
General Elective	3
Semester Hours:	3

<b>Semester 5</b>	<b>Credit Hours</b>	<b>Semester 6</b>	<b>Credit Hours</b>
! <u>PSY 3213</u> Research Methods in Psychology	4	! <u>MHS 4002</u> Behavioral Health Systems Delivery	3
! <u>WRIN</u> FKL/Gen Ed Writing Intensive Capstone	3	! <u>MHS 4408</u> Exemplary Practices in Behavioral Healthcare Treatment	3
<u>MHS 4703</u> Legal, Ethical and Professional Issues in BHC	3	General Elective	2
General Elective	3	Upper Level Elective	3
Semester Hours:	13	<u>MHS 4490</u> or <u>MHS 4022</u>	3
		Semester Hours:	14

**Summer**  
Summer Opportunities

<b>Semester 7</b>	<b>Credit Hours</b>	<b>Semester 8</b>	<b>Credit Hours</b>
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<u>MHS 4454</u> Drug Abuse Prevention and Treatment	3	<u>MHS 4453</u> Applied Psychopharmacology in Drug Abuse and Dependence	3
<u>MHS 4452</u> Co-Occurring Disorders	3	<u>MHS 4425</u> Field Experience in Behavioral Healthcare	3
<u>MHS 4455</u> Drugs, Alcohol and Crime	3	Upper Level Elective	3
Department Approved Elective in Addictions	3	Upper Level Elective	3
Semester Hours:	12	Apply for Graduation	
		Semester Hours:	12

## REQUIREMENTS FOR THE CONCENTRATION IN ADULT COMMUNITY SERVICES (ACS) TOTAL CONCENTRATION HOURS: 15

[http://mhlp.fmhi.usf.edu/academics/Behavioral\\_Healthcare\\_Major\\_Class\\_Info.cfm](http://mhlp.fmhi.usf.edu/academics/Behavioral_Healthcare_Major_Class_Info.cfm)

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.

### Concentration Core (12 hours)

RCS 4033	Overview of Rehabilitation and Mental Health Counseling Professions
MHS 3204	Fundamentals of ABA or CLP 4414 Behavior Modification
MHS 4023	Recovery-Oriented Mental Health Services
MHS 4425	Field Experience in Behavioral Healthcare

### 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 4022	Adult Psychopathology in the Community
MHS 4023	Recovery Oriented Mental Health Services
MHS 4434	Behavioral Health and the Family
MHS 4452	Co-Occurring Disorders
MHS 4453	Applied Psychopharmacology in Drug Abuse and Dependency
MHS 4454	Alcohol Drugs and Crime
MHS 4455	Drug Abuse Prevention and Treatment
MHS 4463	Suicide Issues in Behavioral Health
MHS 4490	Behavioral Healthcare Issues for Children
MHS 4703	Legal, Ethical and Professional Issues in BHC
MHS 4731	Writing for Research and Publication in Behavioral and Community Sciences
MHS 4931	Selected Topics

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>ENC 1101</u> Composition I	3	! <u>ENC 1102</u> Composition II	3
<u>SGEH</u> General Education Core Humanities	3	! <u>PSY 3204</u> or <u>STA 2023</u> or <u>STA 2122</u>	3
<u>PSY 2012</u> Introduction to Psychological Science	3	<u>SGEN</u> General Education Core Natural Sciences	3
<u>SLS 2901</u> Academic Foundations Seminar	3	General Elective	3
		<u>CAHU</u> FKL/Gen Ed Humanities	3
		Semester Hours:	15

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<p>! <u>SGEM</u> General Education Core Mathematics 3</p> <p style="padding-left: 40px;">Semester Hours: 15</p> <p style="text-align: center;"><b>Summer</b></p> <p style="padding-left: 40px;">General Elective 3</p> <p style="padding-left: 40px;">General Elective 3</p> <p style="padding-left: 80px;">Semester Hours: 6</p>			
<b>Semester 3</b>	<b>Credit Hours</b>	<b>Semester 4</b>	<b>Credit Hours</b>
<p>! <u>SYG 2010</u> or <u>SYG 2000</u> 3</p> <p><u>CAFA</u> FKL/Gen Ed Fine Arts 3</p> <p><u>6AC</u> FKL/Gen Ed Gordon Rule Communication 3</p> <p>General Elective 3</p> <p>General Elective 3</p> <p style="padding-left: 40px;">Semester Hours: 15</p>		<p>! <u>MHS 3411</u> Multidisciplinary Behavioral Healthcare Services 3</p> <p><u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context 3</p> <p><u>CANL</u> or <u>CANP</u> (Take a CANP or CANL course, depending on what course was taken for the Natural Science core.) 3</p> <p>General Elective 3</p> <p>General Elective 3</p> <p style="padding-left: 40px;">Semester Hours: 15</p>	
<b>Summer</b>		<b>Summer</b>	
<p style="padding-left: 40px;">General Elective 3</p> <p style="padding-left: 80px;">Semester Hours: 3</p>		<p style="padding-left: 40px;">General Elective 3</p> <p style="padding-left: 80px;">Semester Hours: 3</p>	
<b>Semester 5</b>	<b>Credit Hours</b>	<b>Semester 6</b>	<b>Credit Hours</b>
<p>! <u>PSY 3213</u> or <u>SYA 3300</u> 4</p> <p><u>WRIN</u> FKL/Gen Ed Writing Intensive Capstone 3</p> <p><u>MHS 4703</u> Legal, Ethical and Professional Issues in BHC 3</p> <p>General Elective 3</p> <p style="padding-left: 40px;">Semester Hours: 13</p>		<p>! <u>CLP 4414</u> or <u>MHS 3204</u> 3</p> <p><u>MHS 4002</u> Behavioral Health Systems Delivery 3</p> <p><u>MHS 4408</u> Exemplary Practices in Behavioral Healthcare Treatment 3</p> <p>General Elective 2</p> <p>Upper-Level Elective 3</p> <p style="padding-left: 40px;">Semester Hours: 14</p>	
<b>Summer</b>			
<u>Summer Opportunities</u>			
<b>Semester 7</b>	<b>Credit Hours</b>	<b>Semester 8</b>	<b>Credit Hours</b>
<p>! <u>MHS 4452</u> Co-Occurring Disorders 3</p> <p>! <u>MHS 4490</u> or <u>MHS 4022</u> Major Upper-Level Elective 3</p> <p>Upper-Level Elective 3</p> <p style="padding-left: 40px;">Semester Hours: 12</p>		<p>! <u>MHS 4425</u> Field Experience in Behavioral Healthcare 3</p> <p>! <u>MHS 4023</u> Recovery Oriented Mental Health Services 3</p> <p><u>RCS 4033</u> Overview of Rehab &amp; MH Counseling Professions 3</p> <p>Upper-Level Elective 3</p> <p>Apply for Graduation</p> <p style="padding-left: 40px;">Semester Hours: 12</p>	

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## REQUIREMENTS FOR THE CONCENTRATION IN AGING AND BEHAVIORAL HEALTH (AGBH)

TOTAL CONCENTRATION HOURS: 15

[http://mhlp.fmhi.usf.edu/academics/Behavioral\\_Healthcare\\_Major\\_Class\\_Info.cfm](http://mhlp.fmhi.usf.edu/academics/Behavioral_Healthcare_Major_Class_Info.cfm)

### Concentration Core (12 hours)

- GEY 4612 Psychology of Aging
- MHS 3062 Behavioral Healthcare Services for Older Adults
- GEY 4322 Gerontological Case Management or GEY 4608 Alzheimer's Disease Management
- MHS 4425 Field Experience in Behavioral Healthcare

### Concentration Electives (3 hours)

Students must choose one course from the following list or consult an advisor for other options:

- GEY 4101 Aging in Special Populations
- GEY 4231 Elder Abuse and Neglect
- GEY 4322 Gerontological Case Management (if not taken above)
- GEY 4608 Alzheimer's Disease Management (if not taken above)
- GEY 4628 Race, Ethnicity and Aging
- GEY 4629 Women and Aging
- GEY 4641 Death and Dying

### Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>ENC 1101</u> Composition I	3	! <u>ENC 1102</u> Composition II	3
<u>SGEH</u> General Education Core Humanities	3	! <u>PSY 3204</u> or <u>STA 2023</u> or <u>STA 2122</u>	3
<u>PSY 2012</u> Introduction to Psychological Science	3	General Elective	3
<u>SLS 2901</u> Academic Foundations Seminar	3	<u>CAHU</u> FKL/Gen Ed Humanities	3
! <u>SGEM</u> General Education Core Mathematics	3	<u>SGEN</u> General Education Core Natural Sciences	3
Semester Hours:	15	Semester Hours:	15
<b>Summer</b>		<b>Credit Hours</b>	
General Elective		3	
General Elective		3	
		Semester Hours:	6
Semester 3	Credit Hours	Semester 4	Credit Hours
<u>SYG 2010</u> or <u>SYG 2000</u>	3	! <u>MHS 3411</u> Multidisciplinary Behavioral Healthcare Services	3
<u>CAFA</u> FKL/Gen Ed Fine Arts	3	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
<u>6AC</u> FKL/Gen Ed Gordon Rule Communication	3	<u>CANL</u> or <u>CANP</u> (Take a CANP or CANL course, depending on what course was taken for the Natural Science core.)	3
General Elective	3	General Elective	3
General Elective	3		
Semester Hours:	15		

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		General Elective	3
		Semester Hours:	15
<b>Summer</b>			
General Elective		<b>Credit Hours</b>	3
	Semester Hours:		3
<b>Semester 5</b>	<b>Credit Hours</b>	<b>Semester 6</b>	<b>Credit Hours</b>
! <u>GEY 4401</u> Research Methods in Gerontology	3	<u>MHS 3062</u> Behavioral Healthcare Services for Older Adults	3
! <u>WRIN FKL/Gen Ed Writing Intensive Capstone</u>	3	<u>MHS 4002</u> Behavioral Health Systems Delivery	3
<u>MHS 4703</u> Legal, Ethical and Professional Issues in BHC	3	<u>MHS 4408</u> Exemplary Practices in Behavioral Healthcare Treatment	3
General Elective	3	General Elective	3
Semester Hours:	12	Upper Level Elective	3
		Semester Hours:	15

## Summer

### Summer Opportunities

<b>Semester 7</b>	<b>Credit Hours</b>	<b>Semester 8</b>	<b>Credit Hours</b>
<u>GEY 4360</u> Gerontological Counseling	3	<u>GEY 4608</u> or <u>GEY 4322</u>	3
<u>GEY 4612</u> Psychology of Aging	3	<u>MHS 4425</u> Field Experience in Behavioral Healthcare	3
<u>MHS 4452</u> Co-Occurring Disorders	3	Upper Level Elective	3
Department Approved Elective	3	Upper Level Elective	3
Semester Hours:	12	Apply for Graduation	
		Semester Hours:	12

## REQUIREMENTS FOR THE CONCENTRATION IN APPLIED BEHAVIOR ANALYSIS (ABA) TOTAL CONCENTRATION HOURS: 15

[http://mhlp.fmhi.usf.edu/academics/Behavioral\\_Healthcare\\_Major\\_Class\\_Info.cfm](http://mhlp.fmhi.usf.edu/academics/Behavioral_Healthcare_Major_Class_Info.cfm)

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.

### Concentration Core (15 hours)

MHS 3204	Fundamentals of Applied Behavior Analysis or CLP 4414 Behavior Modification
MHS 4202	Behavior Assessment & Intervention Planning
MHS 4943	Practicum Seminar in Applied Behavior Analysis
MHS 4206	Applied Behavior Analysis in Autism and Developmental Disabilities
MHS 4412	Research Methods and Ethical Issues in Behavior Analysis

### Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.



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Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>ENC 1101</u> Composition I	3	! <u>ENC 1102</u> Composition II	3
<u>SGEH</u> General Education Core Humanities	3	! <u>PSY 3204</u> or <u>STA 2023</u> or <u>STA 2122</u>	3
<u>PSY 2012</u> Introduction to Psychological Science	3	General Elective	3
<u>SLS 2901</u> Academic Foundations Seminar	3	<u>CAHU</u> FKL/Gen Ed Humanities	3
! <u>SGEM</u> General Education Core Mathematics	3	<u>SGEN</u> General Education Core Natural Sciences	3
Semester Hours:	15	Semester Hours:	15

Summer	Credit Hours
General Elective	3
General Elective	3
Semester Hours:	6

Semester 3	Credit Hours	Semester 4	Credit Hours
! <u>SYG 2010</u> or <u>SYG 2000</u>	3	! <u>MHS 3411</u> Multidisciplinary Behavioral Healthcare Services	3
<u>CAFA</u> FKL/Gen Ed Fine Arts	3	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
<u>6AC</u> FKL/Gen Ed Gordon Rule Communication	3	<u>CANL</u> or <u>CANP</u> (Take a CANP or CANL course, depending on what course was taken for the Natural Science core.)	3
General Elective	3	General Elective	2
General Elective	3	General Elective	3
Semester Hours:	15	Semester Hours:	14

Summer	Credit Hours
General Elective	3
Semester Hours:	3

Semester 5	Credit Hours	Semester 6	Credit Hours
<u>PSY 3213</u> or <u>SYA 3300</u>	4	! <u>MHS 3204</u> Fundamentals of Applied Behavior Analysis	3
<u>WRIN</u> FKL/Gen Ed Writing Intensive Capstone	3	<u>MHS 4002</u> Behavioral Health Systems Delivery	3
General Elective	3	<u>MHS 4408</u> Exemplary Practices in Behavioral Healthcare Treatment	3
Major Elective	3	<u>CPST</u> FKL/Gen Ed Capstone Experience	3
Semester Hours:	13	General Elective	3
		Semester Hours:	15

**Summer**  
Summer Opportunities

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Semester 7	Credit Hours	Semester 8	Credit Hours
! <u>MHS 4202</u> Behavioral Assessment and Intervention Planning	3	! <u>MHS 4206</u> Applied Behavioral Analysis in Autism and Development Disabilities	3
! <u>MHS 4452</u> Co-Occurring Disorders	3	! <u>MHS 4412</u> Research Methods and Ethical Issues in Behavior Analysis	3
! <u>MHS 4022</u> or <u>MHS 4490</u>	3	<u>MHS 4703</u> Legal, Ethical and Professional Issues in BHC	3
! <u>MHS 4943</u> Practicum Seminar in Applied Behavior	3	General Elective	3
Semester Hours:	12	Apply for Graduation	3
		Semester Hours:	12

## REQUIREMENTS FOR THE CONCENTRATION IN BEHAVIORAL HEALTH RESEARCH (BHR) TOTAL CONCENTRATION HOURS: 15

[http://mhlp.fmhi.usf.edu/academics/Behavioral\\_Healthcare\\_Major\\_Class\\_Info.cfm](http://mhlp.fmhi.usf.edu/academics/Behavioral_Healthcare_Major_Class_Info.cfm)

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.

### Concentration Core (12 hours)

- IDS 1505 Introduction to Research
- MHS 4741 Advanced Research Methods: Behavioral and Community Sciences
- MHS 4912 Independent Research in Behavioral Health
- MHS 4731 Writing for Research and Publication in BCS
- Department Approved Elective (consult with advisor for options) (3 credits)

### 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 4022 Adult Psychopathology in the Community
  - MHS 4023 Recovery Oriented Mental Health Services
  - MHS 4434 Behavioral Health and the Family
  - MHS 4452 Co-Occurring Disorders
  - MHS 4453 Applied Psychopharmacology in Drug Abuse and Dependency
  - MHS 4454 Alcohol Drugs and Crime
  - MHS 4455 Drug Abuse Prevention and Treatment
  - MHS 4463 Suicide Issues in Behavioral Health
  - MHS 4490 Behavioral Healthcare Issues for Children
  - MHS 4703 Legal, Ethical and Professional Issues in BHC
  - MHS 4731 Writing for Research and Publication in Behavioral and Community Sciences
  - MHS 4931 Selected Topics

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>ENC 1101</u> Composition I	3	! <u>ENC 1102</u> Composition II	3
<u>SGEH</u> General Education Core Humanities	3	! <u>PSY 3204</u> or <u>STA 2023</u> or <u>STA 2122</u>	3
<u>PSY 2012</u> Introduction to Psychological Science	3	General Elective	3
		<u>CAHU</u> FKL/Gen Ed Humanities	3

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<u>SLS 2901</u> Academic Foundations Seminar	3	<u>SGEN</u> General Education Core Natural Sciences	3
! <u>IDS 1505</u> Introduction to Research in Beh. & Com. Sciences	1	Semester Hours:	15
! <u>SGEM</u> General Education Core Mathematics	3		
Semester Hours:	16		

**Summer**

**Credit Hours**

General Elective			3
General Elective			3
Semester Hours:			6

**Semester 3**

**Credit Hours**

**Semester 4**

**Credit Hours**

! <u>SYG 2000</u> or <u>SYG 2010</u>	3	! <u>MHS 3411</u> Multidisciplinary Behavioral Healthcare Services	3
<u>CAFA</u> FKL/Gen Ed Fine Arts	3	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
<u>6AC</u> FKL/Gen Ed Gordon Rule Communication	3	<u>CANL</u> or <u>CANP</u> (Take a CANP or CANL course, depending on what course was taken for the Natural Science core.)	3
General Elective	3	General Elective	2
General Elective	3	General Elective	3
Semester Hours:	15	Semester Hours:	14

**Summer**

**Credit Hours**

General Elective			3
Semester Hours:			3

**Semester 5**

**Credit Hours**

**Semester 6**

**Credit Hours**

Elective	4	! <u>MHS 4741</u> Applied Research Methods	3
! <u>GEY 4401</u> or <u>PSY 3213</u> or <u>SYA 3300</u> or <u>CCJ 3701</u>	4	<u>MHS 4002</u> Behavioral Health Systems Delivery	3
<u>MHS 4731</u> Writing for Research and Publication in Behavioral and Community Sciences	3	<u>MHS 4408</u> Exemplary Practices in Behavioral Healthcare Treatment	3
General Elective	3	General Elective	3
Semester Hours:	14	Semester Hours:	12

**Summer**

Summer Opportunities

**Semester 7**

**Credit Hours**

**Semester 8**

**Credit Hours**

! <u>MHS 4452</u> Co-Occurring Disorders	3	! <u>MHS 4912</u> Independent Research in Behavioral Health	4
! <u>MHS 4022</u> or <u>MHS 4490</u>	3	<u>MHS 4703</u> Legal, Ethical and Professional Issues in BHC	3
<u>CPST</u> FKL/Gen Ed Capstone Experience	3	Upper-Level Elective	3
General Elective	3		

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Semester Hours:	12	Major Upper-Level Elective Apply for Graduation	3
		Semester Hours:	13

## REQUIREMENTS FOR THE CONCENTRATION IN CHILDREN'S MENTAL HEALTH (CML) TOTAL CONCENTRATION HOURS: 15

[http://mhlp.fmhi.usf.edu/academics/Behavioral\\_Healthcare\\_Major\\_Class\\_Info.cfm](http://mhlp.fmhi.usf.edu/academics/Behavioral_Healthcare_Major_Class_Info.cfm)

### Concentration Core (15 hours)

RCS 4033	4033	Overview of Rehabilitation and Mental Health Counseling Professions
MHS 3204		Fundamentals of Applied Behavior Analysis or CLP 4414 Behavior Modification
MHS 4434		Behavioral Health and the Family
MHS 4203		Practical Skills: Children's Behavioral Healthcare
MHS 4425		Field Experience in Behavioral Healthcare

### Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>ENC 1101</u> Composition I	3	! <u>ENC 1102</u> Composition II	3
<u>SGEH</u> General Education Core Humanities	3	! <u>PSY 3204</u> or <u>STA 2023</u> or <u>STA 2122</u>	3
<u>PSY 2012</u> Introduction to Psychological Science	3	General Elective	3
<u>SLS 2901</u> Academic Foundations Seminar	3	<u>CAHU</u> FKL/Gen Ed Humanities	3
! <u>SGEM</u> General Education Core Mathematics	3	<u>SGEN</u> General Education Core Natural Sciences	3
Semester Hours:	15	Semester Hours:	15

Summer	Credit Hours
General Elective	3
General Elective	3
Semester Hours:	6

Semester 3	Credit Hours	Semester 4	Credit Hours
! <u>SYG 2010</u> or <u>SYG 2000</u>	3	! <u>MHS 3411</u> Multidisciplinary Behavioral Healthcare Services	3
<u>CAFA</u> FKL/Gen Ed Fine Arts	3	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
<u>6AC</u> FKL/Gen Ed Gordon Rule Communication	3	<u>CANL</u> or <u>CANP</u> (Take a CANP or CANL course, depending on what course was taken for the Natural Science core.)	3
General Elective	3	General Elective	2
General Elective	3	General Elective	3
Semester Hours:	15	Semester Hours:	14

Summer	Credit Hours
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General Elective	3
Semester Hours:	3

Semester 5	Credit Hours	Semester 6	Credit Hours
! <u>PSY 3213</u> or <u>SYA 3300</u>	4	! <u>CLP 4414</u> or <u>MHS 3204</u>	3
<u>WRIN</u> FKL/Gen Ed Writing Intensive Capstone	3	<u>MHS 4002</u> Behavioral Health Systems Delivery	3
<u>MHS 4703</u> Legal, Ethical and Professional Issues in BHC	3	<u>MHS 4408</u> Exemplary Practices in Behavioral Healthcare Treatment	3
General Elective	3	General Elective	3
Semester Hours:	13	Upper-Level Elective	3
		Semester Hours:	15

## Summer

### Summer Opportunities

Semester 7	Credit Hours	Semester 8	Credit Hours
! <u>MHS 4434</u> Behavioral Health and the Family	3	! <u>MHS 4425</u> Field Experience in Behavioral Healthcare	3
! <u>MHS 4452</u> Co-Occurring Disorders	3	! <u>MHS 4203</u> Practical Skills-Children's Behavioral Healthcare	3
! <u>MHS 4490</u> Behavioral Healthcare Issues for Children	3	<u>RCS 4033</u> Overview of Rehab & MH Counseling Professions	3
Upper-Level Elective	3	Upper-Level Elective	3
Semester Hours:	12	Apply for Graduation	
		Semester Hours:	12

## 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 for 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 (who have been out at least 3 years and have 60+ earned hours; application required).

Please refer to the B.S. in Applied Science at <http://www.ugs.usf.edu/academic/bsas.htm> and the Bachelor of General Studies at <http://www.usf.edu/innovative-education/programs/bachelor-of-general-studies/requirements.aspx> for additional information.

A concentration in Multidisciplinary Behavioral Sciences is also available through the Interdisciplinary Social Sciences (ISS) major, which is housed within the College of Arts & Sciences ([http://iss.usf.edu/major\\_requirements/](http://iss.usf.edu/major_requirements/)). (MHC 4425 Field Placement is not required to complete the concentration for the ISS major.)

## REQUIREMENTS FOR THE MINOR IN BEHAVIORAL HEALTHCARE (BHC) TOTAL MINOR HOURS: 15

[http://mhlp.fmhi.usf.edu/academics/Behavioral\\_Healthcare\\_Minor.cfm](http://mhlp.fmhi.usf.edu/academics/Behavioral_Healthcare_Minor.cfm)

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

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such as psychology, social work, sociology, anthropology, gerontology, long term care administration, pre-med, criminology, and nursing.

## Minor Core (12 hours)

- MHS 3411 Multidisciplinary Behavioral Healthcare Services
- MHS 4002 Behavioral Health Systems Delivery (P.R. MHS 3411)
- MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment (P.R. MHS 3411)
- MHS 4425 Field Experience in Behavioral Healthcare\* (P.R. MHS 3411/4002/4408)

## Minor Electives (3 hours)

- MHS 4XXX Behavioral Healthcare Elective (consult with an academic advisor)

Possible elective options include:

- MHS 4022 Adult Psychopathology in the Community
- MHS 4023 Recovery Oriented Mental Health Services
- MHS 4434 Behavioral Health and the Family
- MHS 4452 Co-Occurring Disorders
- MHS 4463 Suicide Issues in Behavioral Health
- MHS 4490 Behavioral Healthcare Issues for Children
- MHS 4703 Legal, Ethical and Professional Issues in BHC
- MHS 4731 Writing for Research and Publication in Behavioral and Community Sciences
- MHS 4931 Selected Topics

\*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. Enrollment in MHS 4425 requires prior approval at least a semester in advance by the Behavioral Healthcare department: [http://mhlp.fmhi.usf.edu/academics/Behavioral\\_Healthcare\\_Major\\_Field\\_Experience.cfm](http://mhlp.fmhi.usf.edu/academics/Behavioral_Healthcare_Major_Field_Experience.cfm).

## 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](mailto:bhc_advise@usf.edu).

## REQUIREMENTS FOR THE MINOR IN APPLIED BEHAVIOR ANALYSIS (ABA) TOTAL MINOR HOURS: 15

<http://aba.cbcs.usf.edu/undergrad/index.cfm>

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.

## Minor Core (12 hours)

- MHS 4202 Behavioral 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 4943 Practicum Seminar in Applied Behavior

## Minor Electives (3 hours)

Choose one of the following courses:

- CLP 4414 Behavior Modification
- MHS 3204 Fundamentals of Applied Behavior Analysis

## 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

Students may contact department for general questions at 813-974-3096 or [aneal@usf.edu](mailto:aneal@usf.edu).

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## BEHAVIORAL HEALTHCARE FACULTY

*Chairperson:* H. Hills; *Associate Chair:* R. Otto; *Academic Program Director:* L. Thompson; *Professors:* R. Boothroyd, M. Dow, R. Peters, L. Schonfeld; *Associate Professors:* T. Boaz, A. Christy, J. Epps, A. Gum, H. Hills, K. Jenkins-Hall, R. Otto, P. Stiles, G. Teague; *Assistant Professors:* K. Conner, K. Rigg, C. Stover; *Research Associate Professors:* K. Moore, C. Lescano, J. Robst; *Research Assistant Professors:* C. Clark, K. Kuehnle, B. Lee, S. Young; *Research Associates:* M. Engelhardt, J. Winarski; *Emeritus Professors:* M. Dertke, N. Poythress, J. Ward, Jr. *Distinguished Professor:* M. Knox.

### • B.A. - COMMUNICATION SCIENCES AND DISORDERS (CSD) (CIP = 51.0204)

**TOTAL DEGREE HOURS: 120**

<http://www.usf.edu/cbcs/csd/undergrad/index.aspx>

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 which 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 deaf and hard of hearing individuals utilizing various communication methods, both manual and oral.
- 4.

### REQUIREMENTS FOR THE MAJOR IN COMMUNICATION SCIENCES AND DISORDERS

**TOTAL MAJOR HOURS: 41-49**

**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 an additional "D+" or lower grade in any major course, the student 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.

#### 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.

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## COMMUNICATION SCIENCES AND DISORDERS CONCENTRATIONS DEAF STUDIES (DST) (CIP = 51.0204 - TRACK 3 OF 3)

<http://www.usf.edu/cbcs/csd/undergrad/dst.aspx>

The DST concentration seeks to educate students to communicate and interact with people who are D/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 people in the United States as well as issues that impact the provision of services to this population.

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.

### 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 this degree program.

## REQUIREMENTS FOR THE CONCENTRATION IN DEAF STUDIES TOTAL CONCENTRATION HOURS: 41

### Concentration Core (23 hours)

12 credits in foundational coursework and 11 credits in American Sign Language proficiency coursework.

- SPA 4321 Introduction to Audiologic Rehabilitation
- ASL 2140C Basic American Sign Language
- ASL 3514 American Deaf Culture
- ASL 2150C Intermediate Sign Language
- SPA 3470 Culture and Diversity in CSD
- ASL 4161C Advanced American Sign Language
- INT 3004 Fundamentals of Interpreting

### Concentration Electives (18 hours)

A minimum of 18 hours are required [consult with advisor for options], with at least 9 credits from the same area:

#### Area 1: Social Services Perspective

CCJ 3024, GEY 3625, MHS 3411, RCS 4033, SOW 3210

#### Area 2: Oral/Aural Communication

SPA 3004, SPA 3261, SPA 3002, SPA 3030, SPA 3310, SPA 3112/L

#### Area 3: Manual/Visual Communication

INT 4490, ASL 4201C, ASL 4301C, INT 3270, ASL 3324

### Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>ENC 1101</u> Composition I	3	Elective	4
! <u>CAMA</u> FKL/Gen Ed Mathematics	3	! <u>ENC 1102</u> Composition II	3
<u>SGEH</u> General Education Core Humanities	3	! <u>CAQR</u> FKL/Gen Ed Quantitative Reasoning	3
<u>SGES</u> General Education Core Social Sciences	3	<u>CANL</u> FKL/Gen Ed Natural Sciences (Life Science)	3



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<u>SLS 2901</u> Academic Foundations Seminar	3	<u>CAHU</u> FKL/Gen Ed Humanities	3
Semester Hours:	15	Semester Hours:	16

## Summer

### Summer Opportunities

Semester 3	Credit Hours	Semester 4	Credit Hours
! <u>ASL 2140C</u> Basic American Sign Language	4	! <u>ASL 2150C</u> Intermediate American Sign Language	4
! <u>CAFA</u> FKL/Gen Ed Fine Arts	3	! <u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
! <u>6AC</u> FKL/Gen Ed Gordon Rule Communication	3	! <u>CANP</u> FKL/Gen Ed Natural Sciences (Physical Science)	3
<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3	General Elective	3
Semester Hours:	13	Semester Hours:	13

### Summer

General Elective	3	<b>Credit Hours</b>
General Elective	3	
General Elective	3	
Semester Hours:	9	

Semester 5	Credit Hours	Semester 6	Credit Hours
! <u>ASL 4161C</u> Advanced American Sign Language	3	Upper-Level Elective	3
<u>WRIN</u> FKL/Gen Ed Writing Intensive Capstone	3	<u>ASL 3514</u> American Deaf Culture	3
Deaf Studies Elective	3	General Elective	3
General Elective	3	Deaf Studies Elective	3
General Elective	3	Upper-Level Elective	3
Semester Hours:	15	Semester Hours:	15

## Summer

### Summer Opportunities

Semester 7	Credit Hours	Semester 8	Credit Hours
! <u>SPA 3470</u> Culture and Diversity in CSD	3	<u>CPST</u> FKL/Gen Ed Capstone Experience	3
! <u>INT 3004</u> Fundamentals of Interpreting	3	Deaf Studies Upper-Level Elective	3
! <u>SPA 4321</u> Introduction to Audiologic Rehabilitation	3	Deaf Studies Upper-Level Elective	3
Deaf Studies Elective	3	Deaf Studies Upper-Level Elective	3
Semester Hours:	12	Semester Hours:	12

### 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

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courses). **Note:** DST does not have any mandated pre-requisites, so those students will be converted to CSD majors upon entry.

## INTERPRETER TRAINING (ITT) (CIP = 51.0204 - TRACK 2 OF 3)

<http://www.usf.edu/cbcs/csd/undergrad/itt.aspx>

The ITT concentration seeks to educate students to become sign language interpreters. The ITT program includes instruction in both the theory and practice of sign language interpretation. A program of 49 credit hours (43 Core Credits and 6 Elective Credits) is planned for the student majoring in the Interpreter Training concentration.

Students entering the ITT concentration must demonstrate proficiency in ASL at the intermediate level prior to beginning the first semester of core courses in the major. Proficiency is demonstrated through successful completion of the ASL prerequisites courses listed below (or equivalent transfer courses) with a minimum grade of B- or higher in each course.

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.

## 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 Interpreter Training. The following courses must be completed with a B- or better prior to the first semester in which courses are taken in the major. If the courses are not transferred in, the courses may be taken at USF.

ASL	X140	Basic American Sign Language
ASL	X150	Intermediate American Sign Language
ASL	X160	American Sign Language III or ASL X161 Advanced American Sign Language
ASL	X200	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 (43 hours)

ITT Prerequisites (Min. grade B- in each course):

ASL	2140C	Basic American Sign Language
ASL	2150C	Intermediate American Sign Language (P.R. ASL 2140C)
ASL	4161C	Advanced American Sign Language (P.R. ASL 2150C)
ASL	4201C	American Sign Language IV (P.R. ASL 4161C)
ASL	4301C	Structure of Sign Language (P.R. ASL 4161C)

Core Courses (43 credit hours) (Min. grade C- and overall 2.0 GPA in Core):

INT	3270	Interpreting Process and Skill Development
INT	3112	Translation from English and from ASL
INT	3004	Fundamentals of Interpreting
INT	3481	Specialized Terminology
ASL	3324	Advanced ASL Discourse
INT	3945	Interpreting Practicum I
INT	3205	Interpreting I
ASL	3514	American Deaf Culture
INT	4206	Interpreting II
INT	4211	Transliterating
INT	4208	Interpreting III
INT	4947	Interpreting Practicum II
INT	4190	Senior Seminar in Interpreter Training

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INT 4235 Advanced Receptive Voicing  
SPA 4962 Undergraduate Comprehensive Exam

## Concentration Electives (6 hours)

Choose 2 of the following [or consult with advisor]:

SPA 3261 Language Science for CSD  
SPA 3004 Introduction to Language Development and Disorders  
INT 4490 Introduction to Cued Speech and its Applications  
SPA 3470 Culture and Diversity in CSD

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.

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.

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>ASL 2140C</u> Basic American Sign Language	4	! <u>ASL 2150C</u> Intermediate American Sign Language	4
! <u>ENC 1101</u> Composition I	3	! <u>ENC 1102</u> Composition II	3
<u>SGES</u> General Education Core Social Sciences	3	<u>CANP</u> FKL/Gen Ed Natural Sciences (Physical Science)	3
General Elective	2	! <u>CAMA</u> FKL/Gen Ed Mathematics Take a CAMA or CAQR course, based on the General Education Core Mathematics course taken in Semester 1	3
! <u>SGEM</u> General Education Core Mathematics	3		
Semester Hours:	15	Semester Hours:	13

## Summer

### Summer Opportunities

Semester 3	Credit Hours	Semester 4	Credit Hours
! <u>ASL 4161C</u> Advanced American Sign Language	3	! <u>ASL 4201C</u> American Sign Language 4	3
<u>CAFA</u> FKL/Gen Ed Fine Arts	3	! <u>ASL 4301C</u> Structure of Sign Language	3
<u>SGEH</u> General Education Core Humanities	3	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
<u>CANL</u> FKL/Gen Ed Natural Sciences (Life Science)	3	<u>6AC</u> FKL/Gen Ed Gordon Rule Communication	3
<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3	<u>CAHU</u> FKL/Gen Ed Humanities	3
Semester Hours:	15	Semester Hours:	15

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## Summer

### Summer Opportunities

Semester 5	Credit Hours	Semester 6	Credit Hours
! <u>ASL 3324</u> Advanced ASL Discourse	3	! <u>ASL 3514</u> American Deaf Culture	3
! <u>INT 3112</u> Translation from English and from ASL	3	! <u>INT 3205</u> Interpreting I	3
<u>WRIN</u> FKL/Gen Ed Writing Intensive Capstone	3	<u>INT 3945</u> Interpreting Practicum	3
<u>INT 3004</u> Fundamentals of Interpreting	3	1	
<u>INT 3270</u> Interpreting Process and Skill Development	3	<u>INT 3481</u> Specialized Terminology	3
		Semester Hours:	12
Semester Hours:	15		

### Summer

	Credit Hours
<u>INT 4206</u> Interpreting II	3
<u>SPA 4930</u> Selected Topics	3
<u>SPA 4930</u> Selected Topics	3
Semester Hours:	9

Semester 7	Credit Hours	Semester 8	Credit Hours
! <u>INT 4235</u> Advanced Receptive Voicing	3	Major Upper-Level Elective	3
! <u>INT 4190</u> Senior Seminar in Interpreter Training	3	<u>CPST</u> FKL/Gen Ed Capstone Experience	3
<u>INT 4947</u> Interpreting Practicum II	3	<u>INT 4208</u> Interpreting III	3
Major Upper-Level Elective	3	<u>INT 4211</u> Transliterating	3
General Elective	1	<u>SPA 4962</u> Undergraduate Comprehensive Examination	1
Semester Hours:	13	Apply for Graduation	
		Semester Hours:	13

## LANGUAGE-SPEECH-HEARING (LSH) (CIP = 51.0204 - TRACK 1 OF 3)

<http://www.usf.edu/cbcs/csd/undergrad/lsh.aspx>

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.

### 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 B- or better prior to the first semester in which courses are taken in the major. (Note that national certification in Speech-Language Pathology or Audiology through the Council of Academic Accreditation of the American-Speech-Language-Hearing Association requires that sufficient competency be demonstrated in coursework in the Social/Behavioral, Biological and Physical Sciences, and Mathematics.) If the courses are not transferred in, the course(s) may be taken at USF but may delay taking major coursework in prescribed sequence.

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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: 46

### Concentration Core (46 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.

- SPA 3002 Introduction to Disorders of Speech and Language
- SPA 303 Introduction to Hearing Science
- SPA 3101 Anatomy and Physiology of the Speech and Hearing Mechanism
- SPA 3112 Applied Phonetics in Communication Disorders (CR: SPA 3112L)
- SPA 3112L Applied Phonetics Laboratory (CR: SPA 3112)
- SPA 3004 Introduction to Language Development and Disorders
- SPA 3011 Introduction to Speech Science (PR: SPA 3030, SPA 3112/L)
- SPA 3310 Introduction to Disorders of Hearing (PR: SPA 3030)
- SPA 3261 Language Science for Communication Sciences & Disorders
- SPA 4104 Neuroanatomy for Speech, Language and Hearing (PR: SPA 3101)
- SPA 3/4XXX SPA elective (consult with advisor for approval)
- SPA 4321 Introduction to Audiologic Rehabilitation (PR: SPA 3310)
- SPA 4050 Introduction to the Clinical Process [also meets Capstone exit requirement] (PR: SPA 3004, SPA 3310)
- SPA 4250 Introduction to Speech Disorders (PR: SPA 3101)
- SPA 4257 Adult Communication Disorders (PR: SPA 4104)
- SPA 4510 Introduction to Clinical Methods and Counseling in CSD (PR: SPA 3004, SPA 3310)

### 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.

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.

### 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 for Undergraduate Research will assist students in understanding the various course options.

### Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

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<b>Semester 1</b>	<b>Credit Hours</b>	<b>Semester 2</b>	<b>Credit Hours</b>
! <u>ENC 1101</u> Composition I	3	! <u>ENC 1102</u> Composition II	3
! <u>CAMA</u> FKL/Gen Ed Mathematics	3	! <u>STA 2023</u> or <u>STA 2122</u>	3
<u>SGEH</u> General Education Core Humanities	3	<u>BSC 2085</u> Anatomy and Physiology I for Health Professionals	3
<u>PSY 2012</u> Introduction to Psychological Science	3	Elective Outside the Major	2
<u>SLS 2901</u> Academic Foundations Seminar	3	<u>CAHU</u> FKL/Gen Ed Humanities	3
		<u>BSC 2085L</u> Anatomy and Physiology Lab I for Nursing and other Healthcare Professionals	1
Semester Hours:	15	Semester Hours:	15

<b>Summer</b>	<b>Credit Hours</b>
Elective Outside the Major	3
Elective Outside the Major	3
Elective Outside the Major	3
Semester Hours:	9

<b>Semester 3</b>	<b>Credit Hours</b>	<b>Semester 4</b>	<b>Credit Hours</b>
<u>ASL 2140C</u> Basic American Sign Language	4	<u>ASL 2150C</u> Intermediate American Sign Language	4
<u>CAFA</u> FKL/Gen Ed Fine Arts	3	<u>PHY 2020</u> Conceptual Physics	3
<u>6AC</u> FKL/Gen Ed Gordon Rule Communication	3	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
Elective Outside the Major	3	Elective Outside the Major	3
<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3	Elective Outside the Major	3
Semester Hours:	16	Semester Hours:	16

**Summer**  
Summer Opportunities

<b>Semester 5</b>	<b>Credit Hours</b>	<b>Semester 6</b>	<b>Credit Hours</b>
! <u>SPA 3112</u> Applied Phonetics in Communication Disorders	3	! <u>SPA 3310</u> Introduction to Disorders of Hearing	3
! <u>SPA 3101</u> Anatomy and Physiology of the Speech and Hearing Mechanism	3	! <u>SPA 3004</u> Introduction to Language Development and Disorders	3
! <u>SPA 3030</u> Introduction to Hearing Science	3	<u>SPA 3011</u> Introduction to Speech Science	3
<u>SPA 3002</u> Introduction to Disorders of Speech and Language	3	<u>SPA 3261</u> Language Science for Comm. Sciences & Disorders	3
<u>SPA 3112L</u> Applied Phonetics Laboratory	1	Semester Hours:	12
Semester Hours:	13		

**Summer**  
Summer Opportunities

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Semester 7		Credit Hours	Semester 8		Credit Hours
!	<u>SPA 4104</u> Neuroanatomy for Speech, Language and Hearing	3	<u>SPA 4257</u> Adult Communication Disorders		3
	<u>WRIN FKL/Gen Ed Writing Intensive Capstone</u>	3	<u>SPA 4250</u> Introduction to Speech Disorders		3
	<u>SPA 4510</u> Intro. to Clinical Methods and Counseling in CSD	3	<u>SPA 4050</u> Introduction to the Clinical Process		3
	<u>SPA 4321</u> Introduction to Audiologic Rehabilitation	3	<u>INT 4490</u> or <u>SPA 3470</u>		3
	Semester Hours:	12	Apply for Graduation		
			Semester Hours:		12

## REQUIREMENTS FOR THE MINOR IN AMERICAN SIGN LANGUAGE (ASL) TOTAL MINOR HOURS: 17

<http://www.usf.edu/cbcs/csd/undergrad/asl-minor.aspx>

The 17-credit hour minor is open to all students who are currently not majoring in Communication Sciences and Disorders.

### Minor Core (17 hours)

- ASL 2140C Basic American Sign Language
- ASL 2150C Intermediate American Sign Language
- ASL 4161C Advanced American Sign Language
- ASL 3514 American Deaf Culture
- ASL 4201C American Sign Language IV

### 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 American Sign Language.

### Grading Requirement

A minimum grade of C- is required for each course.

### Residency Requirement

Students seeking a minor in ASL must complete a minimum of three (3) courses within the minor with the Department of Communication Sciences and Disorders at USF.

### 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](mailto:csdadvising@bcs.usf.edu).

## COMMUNICATION SCIENCES AND DISORDERS FACULTY

*Chairperson:* J. Lister; *Professors:* R. Huntley Bahr, M. Bourgeois, T. Chisolm, D. Eddins, H. Goldstein, J. Lister, J. Walton; *Associate Professors:* G. Donaldson, A. Eddins, S. Frisch, J. Krause, N. Maxfield, C. Rogers; *Assistant Professors:* M. Barker, M. Brea-Spahn, E. Plowman; *Instructors:* M. Arnold, K. Betancourt, K. Buckley, P. Carr, W. Clements, A. Davis, S. Diehl, C. Ford, D. Freeman-LeVay, M. Hite, F. Matias, N. Muscato, C. Paul, K. Sills, A. Smith, S. Surrency, T. Teegardin; *Emeritus Professors:* J. Crittenden, J. Hinckley, R. Hurley, E. R. Silliman.

# COLLEGE OF BEHAVIORAL AND COMMUNITY SCIENCES

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## • B.A. - CRIMINOLOGY (CCJ) (CIP = 45.0401) TOTAL DEGREE HOURS: 120

<http://criminology.cbcs.usf.edu/undergraduateCriminology/>

The major in Criminology provides students with in-depth exposure to all facets of the criminal justice system including law enforcement, detention, the judiciary, corrections, juvenile justice and probation and parole. The program concentrates on achieving balance in the above aspects of the system from the perspective of the criminal justice professional, the offender, and society. The program provides a solid background in the theory, issues and methodology comprising Criminology.

The objective of the undergraduate program in Criminology is to develop a sound educational basis either for graduate work or for professional training in one or more of the specialized areas comprising the modern urban criminal justice system.

### STATE MANDATED COMMON COURSE PREREQUISITES

Students desiring to transfer to USF should complete the A.A. degree at a Florida College System institution. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Transfer students 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 degree program.

Transfer students should be aware that by university regulation they are obligated to establish academic residency by completing the equivalent of one academic year (30 semester hours) in "on-campus" courses. In addition, all undergraduate transfer students electing Criminology as their major will be required to take a minimum of 30 credit hours in major coursework at the University of South Florida. This residency requirement is designed to ensure that transfer students who subsequently receive their baccalaureate degree from the University of South Florida with a major in Criminology will have been exposed to the same body of knowledge in their major as those students who complete all or a major portion of their coursework at the University of South Florida.

## 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 (P.R. CCJ 3024)

**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 (P.R. CCJ 3117)

**Note:** A grade of C (not C-) or higher is required in CCJ 3701 to enroll in CCJ 4934.

CCJ 4934 Seminar in Criminology (P.R. CCJ 3701)

Students must complete CCJ 3117 with a grade of C or better (not C-) prior to enrollment in CCJ 3701. Students must complete CCJ 3701 with a grade of C or better (not C-) prior to enrollment in CCJ 4934.

NOTE: No more than six (6) hours of CCJ 4900, CCJ 4910 or any combination of the two will be accepted toward the minimum number of hours in the major. A student may take an unlimited number of CCJ 4933 or 4934 courses as long as the courses vary in title.

#### Major Electives (24 hours)

24 semester hours of electives within Criminology.

### 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.



# COLLEGE OF BEHAVIORAL AND COMMUNITY SCIENCES

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## 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.

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>ENC 1101</u> Composition I	3	! <u>ENC 1102</u> Composition II	3
<u>CCJ 3014</u> Crime and Justice in America	3	! <u>CAMA</u> or <u>CAQR</u> (Take a <u>CAMA</u> or <u>CAQR</u> course, depending on what course was taken for the Mathematics core.)	3
<u>SGEH</u> General Education Core Humanities	3	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
<u>SLS 2901</u> Academic Foundations Seminar	3	<u>SGES</u> General Education Core Social Sciences	3
! <u>SGEM</u> General Education Core Mathematics	3	Elective Outside the Major	3
Semester Hours:	15	Semester Hours:	15

## Summer

### Summer Opportunities

Semester 3	Credit Hours	Semester 4	Credit Hours
Foreign Language I	4	Foreign Language II	4
<u>CAHU</u> FKL/Gen Ed Humanities	3	<u>CANL</u> or <u>CANP</u> (Take a <u>CANP</u> or <u>CANL</u> course, depending on what course was taken for the Natural Science core.)	3
<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3	<u>CAFA</u> FKL/Gen Ed Fine Arts	3
<u>SGEN</u> General Education Core Natural Sciences	3	Elective Outside the Major	3
Semester Hours:	13	Semester Hours:	13

## Summer

	Credit Hours
General Elective	3
General Elective	3
<u>HHCP</u> FKL/Gen Ed Human Historical Context and Process	3
Semester Hours:	9

Semester 5	Credit Hours	Semester 6	Credit Hours
! <u>CCJ 3024</u> Survey of the Criminal Justice System	3	! <u>CCJ 3701</u> Research Methods in Criminal Justice I	3
! <u>CCJ 3117</u> Theories of Criminal Behavior	3	Major Upper-Level Elective	3
<u>WRIN</u> FKL/Gen Ed Writing Intensive Capstone	3	Major Upper-Level Elective	3
Major Upper-Level Elective	3	Upper-Level Elective	3
Upper-Level Elective	3	Upper-Level Elective	3
		Semester Hours:	15

# COLLEGE OF BEHAVIORAL AND COMMUNITY SCIENCES

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Semester Hours: 15

## Summer

### Summer Opportunities

Semester 7	Credit Hours	Semester 8	Credit Hours
Major Upper-Level Elective	3	General Elective	3
Major Upper-Level Elective	3	Major Upper-Level Elective	3
Major Upper-Level Elective	3	Major Upper-Level Elective	3
General Elective	4	<u>CCJ 4934 Seminar in Criminology</u>	3
Semester Hours:	13	Semester Hours:	12

### 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 for 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. We have internships with more than 100 agencies to afford students the opportunity to network and gain practical experience in conjunction with their degree. Internships can be taken for up to 9 credit hours of Criminology electives.

## REQUIREMENTS FOR THE MINOR IN CRIMINOLOGY (CCJ) TOTAL MINOR HOURS: 18

<http://criminology.cbcs.usf.edu/undergraduateCriminology/>

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.

### 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.

### Grading Requirement

Students minoring in Criminology are also subject to the Department's "D" Rule.

### Residency Requirement

A minimum of 9 semester hours of minor coursework must be completed at USF.

### 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.

### Other Information

Note: With the exception of CCJ 3024 and CCJ 3014, students should seek academic advisor approval to register for Criminology courses each semester by emailing the USF student ID number and course reference number(s) to the advising office via e-mail at [ccjadvice@usf.edu](mailto:ccjadvice@usf.edu).

# COLLEGE OF BEHAVIORAL AND COMMUNITY SCIENCES

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## Advising Information

All minors must seek advisor approval to register for courses each semester. This can be accomplished e-mailing your name, USF ID #, Course reference number(s), telephone number and your registration date and time via email to one of the Criminology academic advisors at [ccjadvice@usf.edu](mailto:ccjadvice@usf.edu).

## CRIMINOLOGY FACULTY

*Chairperson:* M. Leiber; *Professors:* J. K. Cochran, R. Dembo, K. M. Heide, M. Leiber, M. Lynch, M. D. Smith; *Associate Professors:* L. Fridell, W. Jennings, S. Jones, O. Mitchell; *Assistant Professors:* L. Boggess, J. Cochran, R. Powers; *Instructors:* S. Boeringer, E. Cass, A. Franz; *Professor Emeritus:* W. R. Blount, M. Bromley, T. Mieczkowski, L. Territo; *Courtesy Appointment:* W. Borum.

## • B.A. - GERONTOLOGY (GEY) (CIP = 30.1101) TOTAL DEGREE HOURS: 120

<http://www.usf.edu/cbcs/aging-studies/academics/bs/ba.aspx>

The Bachelor of Arts Degree in Gerontology entails 36 credit hours of required coursework. In this program the course of study is intended to provide students with a liberal education in gerontology and some exposure to the various career opportunities in the field of aging. This degree is especially appropriate for students who plan to pursue graduate or professional work in gerontology, allied health or a related field, or who plan to work with older adults in careers such as case management, social services, or activity therapy.

## STATE MANDATED COMMON COURSE PREREQUISITES

The State of Florida has identified common course prerequisites for the Bachelor's degree in Gerontology. Those students seeking the major, complete STA X122 (Social Science Statistics) at the lower level prior to entering the university. If this course is not taken at the community college, it must be completed before the degree is granted. The following course must be completed with a grade of C or better (not C-):

STA X122 (Social Science Statistics) (Acceptable substitutes for STA X122 are: QMB X150 or QMB X100, STA X022, X014, X040, X023, or X024.)

## REQUIREMENTS FOR THE MAJOR IN GERONTOLOGY TOTAL MAJOR HOURS: 36

### Major requirements for the B.A. Degree:

#### Major Core (18 hours)

- GEY 2000 Introduction to Gerontology
- GEY 3601 Physical Changes and Aging
- GEY 3625 Sociological Aspects of Aging
- GEY 4401 Research Methods in Gerontology
- GEY 4612 Psychology of Aging
- Required Capstone Experience Course\* - Students will choose one:
  - GEY 4945 Field Placement or
  - GEY 4690 Senior Seminar in Gerontology or
  - GEY 4917 Directed Research

\*These courses are School capstone experience courses and do not qualify to meet the FKL Capstone Exit requirement.

#### Major Electives (18 hours)

B.A. students complete 18 additional elective hours, which may include additional field placement. Students should meet frequently with the departmental advisor to plan courses and field work that will prepare the student for their career goals.

### Grading Requirement

A grade of lower than "C-" in Gerontology courses will not be counted toward fulfilling the requirements for the major.

# COLLEGE OF BEHAVIORAL AND COMMUNITY SCIENCES

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## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

<b>Semester 1</b>	<b>Credit Hours</b>	<b>Semester 2</b>	<b>Credit Hours</b>
! <u>ENC 1101</u> Composition I	3	! <u>ENC 1102</u> Composition II	3
! <u>CAMA</u> FKL/Gen Ed Mathematics	3	! <u>STA 2122</u> or <u>STA 2023</u>	3
! <u>GEY 2000</u> Introduction to Gerontology	3	<u>CAFA</u> FKL/Gen Ed Fine Arts	3
<u>CANL</u> FKL/Gen Ed Natural Sciences (Life Science)	3	<u>SGEH</u> General Education Core Humanities	3
<u>SLS 2901</u> Academic Foundations Seminar	3	<u>CANP</u> FKL/Gen Ed Natural Sciences (Physical Science)	3
Semester Hours:	15	Semester Hours:	15

<b>Summer</b>	<b>Credit Hours</b>
Elective Outside the Major	3
<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3
Semester Hours:	6

<b>Semester 3</b>	<b>Credit Hours</b>	<b>Semester 4</b>	<b>Credit Hours</b>
Foreign Language I	4	Foreign Language II	4
! <u>GEY 3601</u> Physical Changes and Aging	3	! <u>GEY 3625</u> Sociological Aspects of Aging	3
<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3	<u>6AC</u> FKL/Gen Ed Gordon Rule Communication	3
<u>CAHU</u> FKL/Gen Ed Humanities	3	Elective Outside the Major	3
Semester Hours:	13	Semester Hours:	13

<b>Summer</b>	<b>Credit Hours</b>
Upper-Level Elective	3
Semester Hours:	3

<b>Semester 5</b>	<b>Credit Hours</b>	<b>Semester 6</b>	<b>Credit Hours</b>
! <u>GEY 4612</u> Psychology of Aging	3	<u>CPST</u> FKL/Gen Ed Capstone Experience	3
<u>WRIN</u> FKL/Gen Ed Writing Intensive Capstone	3	Major Upper-Level Elective	3
Upper-Level Elective	3	Major Upper-Level Elective	3
Major Upper-Level Elective	3	Upper-Level Elective	3
General Elective	2	Upper-Level Elective	3
Semester Hours:	14	Semester Hours:	15

### Summer

#### Summer Opportunities

<b>Semester 7</b>	<b>Credit Hours</b>	<b>Semester 8</b>	<b>Credit Hours</b>
! <u>GEY 4401</u> Research Methods in Gerontology	3	<u>GEY 4945</u> or <u>GEY 4690</u> or <u>GEY 4917</u>	3

# COLLEGE OF BEHAVIORAL AND COMMUNITY SCIENCES

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Elective Outside the Major	3	Elective Outside the Major	3
Major Upper-Level Elective	3	Elective Outside the Major	3
Major Upper-Level Elective	3	Major Upper-Level Elective	3
General Elective	2	Apply for Graduation	
Semester Hours:	14	Semester Hours:	12

## 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 for Undergraduate Research](#) will assist students in understanding the various course options.

## Internship Opportunities

Students who have completed a major portion of the gerontology program of study may opt to apply for field placement to fulfill a capstone requirement leading to graduation. Field placements 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 a field placement. Field Placements are typically worth 3 credit hours.

## Advising Information

Contact the undergraduate advisor (: Gail Smith at [smithg@usf.edu](mailto:smithg@usf.edu)) 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.

## REQUIREMENTS FOR THE MINOR IN GERONTOLOGY (GEY)

### 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 gerontology careers in conjunction with any undergraduate major, but it should be particularly beneficial to persons majoring in such disciplines as anthropology, business, communication sciences and disorders, government and international affairs, nursing, psychology, health care, social work, and sociology.

### Minor Core (9 hours)

GEY 2000 Introduction to Gerontology

#### Choose 2 of the following 3 courses:

GEY 3601 Physical Changes and Aging

GEY 3625 Sociological Aspects of Aging

GEY 4612 Psychology of Aging

### Minor Electives (6 hours)

Six (6) additional credit hours of GEY coursework.

Courses may not be taken on an S/U basis.

## GPA Requirements

A minimum overall 2.0 GPA in minor coursework.

## Advising Information

Application for the minor is required. Contact the undergraduate advisor, Gail Smith [smithg@usf.edu](mailto:smithg@usf.edu).

## GERONTOLOGY FACULTY

*Director:* C.L. McEvoy; *Professors:* W. E. Haley, K. Hyer, C. L. McEvoy, V. Molinari; B.J. Small; *Associate Professors:* R. Andel, D.J. Dobbs, J.D. Edwards, H. Meng; *Assistant Professors:* A. Gamaldo, S. Scott; *Instructor:* B. Stanback; *Courtesy and Adjunct Professors:* H. Caywood, Jr., M. J. Etten, G. Holder, H. Osman, J. Smith, P. Stiles, L. Volicer; *Professors Emeriti:* J. Garcia, W.P. Mangum, L. Polivka, S. L. Reynolds, S. V. Saxon.

# COLLEGE OF BEHAVIORAL AND COMMUNITY SCIENCES

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## • 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

Those students seeking the Bachelor's degree in Long Term Care Administration should complete the prerequisite courses listed below. Unless stated otherwise, a grade of "C" (not C-) is the minimum acceptable grade.

ACG X021 Principles of Financial Accounting or ACG X024 or ACG X001 and ACG X011

ACG X071 Principles of Managerial Accounting or ACG X301

ECO 2023 Economic Principles (Microeconomics)

CSG X100 Computers in Business or CGS X061 or ISM X000

STA 2023 Introductory Statistics

### 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.

ISM 3011 Information Systems in Organizations (P.R. CGS 2100)

MAN 3301 Human Resource Management

GEY 3601 Physical Changes and Aging

GEY 4608 Alzheimer's Disease Management (P.R. GEY 2000)

GEY 4475 Program Evaluation in an Aging Society

GEY 4641 Death and Dying

GEY 4507 Understanding Policies and Practices of Long Term Care (P.R. GEY 2000)

GEY 4508 Health Care Operations (P.R. GEY 4507 and ACG 2021)

GEY 4509 Regulatory and Clinical Operations (P.R. GEY 4508 and ACG 2021)

GEY 4520 Legal Aspects of Health Care Administration

GEY 4945 Field Placement

##### Major Electives

The following electives are not required for the major but are strongly recommended:

GEY 3625 Sociological Aspects

GEY 4360 Gerontological Counseling

GEY 4628 Race, Ethnicity and Aging

MAR 3023 Basic Marketing

BUL 3320 Law and Business

MAN 3240 Organizational Behavior Analysis

##### Other Requirements

##### Strongly Recommended Courses:

GEY 2000 Introduction to Gerontology

MAN 3025 Principles of Management

Students in the B.S. program will only be allowed to register for the full-time internship (GEY 4945) after successful completion of all (or all but one) of the required courses in the B.S. major. Because the B.S. internship requires full-time effort, students will be allowed to take no more than four (4) credits concurrent with the B.S. internship. NOTE: a Level 2 background check is required for most Field Placements, possibly at the student's expense.

# COLLEGE OF BEHAVIORAL AND COMMUNITY SCIENCES

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Students interested in either the Gerontology or Long Term Care Administration majors should contact the School of Aging Studies <http://agingstudies.cbcs.usf.edu/advising/> as early as possible in their careers at the University of South Florida.

## Grading Requirement

A grade of lower than "C-" in Gerontology courses will not be counted toward fulfilling the requirements for the major.

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>ENC 1101</u> Composition I	3	! <u>ENC 1102</u> Composition II	3
! <u>STA 2023</u> Introductory Statistics I	3	! <u>CGS 2100</u> Computers In Business	3
<u>CAFA</u> FKL/Gen Ed Fine Arts	3	! <u>CAMA</u> FKL/Gen Ed Mathematics	3
<u>CANL</u> FKL/Gen Ed Natural Sciences (Life Science)	3	<u>SGEH</u> General Education Core Humanities	3
<u>SLS 2901</u> Academic Foundations Seminar	3	<u>CANP</u> FKL/Gen Ed Natural Sciences (Physical Science)	3
Semester Hours:	15	Semester Hours:	15

Summer	Credit Hours
<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3
Semester Hours:	3

Semester 3	Credit Hours	Semester 4	Credit Hours
General Elective	3	! <u>ECO 2023</u> Economic Principles (Microeconomics)	3
! <u>GEY 2000</u> Introduction to Gerontology	3	! <u>ACG 2071</u> Principles of Managerial Accounting	3
! <u>ACG 2021</u> Principles of Financial Accounting	3	! <u>GEY 4507</u> Understanding Policies and Practices of Long Term Care	3
<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3	General Elective	3
<u>CAHU</u> FKL/Gen Ed Humanities	3	Major Upper-Level Elective	3
Semester Hours:	15	Semester Hours:	15

Summer	Credit Hours
<u>6AC</u> FKL/Gen Ed Gordon Rule Communication	3
! <u>GEY 4475</u> Program Evaluation in an Aging Society	3
Semester Hours:	6

Semester 5	Credit Hours	Semester 6	Credit Hours
! <u>GEY 4641</u> Death and Dying	3	! <u>GEY 4608</u> Alzheimer's Disease Management	3
! <u>GEY 4508</u> Health Care Operations	3	! <u>GEY 3601</u> Physical Changes and Aging	3
! <u>MAN 3025</u> Principles of Management	3	! <u>GEY 4509</u> Regulatory and Clinical Operations	3
! <u>GEY 4520</u> Legal Aspects of Health Care Administration	3	Major Upper-Level Elective	3
Elective Outside the Major	3		

# COLLEGE OF BEHAVIORAL AND COMMUNITY SCIENCES

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Semester Hours: 15

Semester Hours: 12

## Summer

### Summer Opportunities

Semester 7		Credit Hours	Semester 8		Credit Hours
!	<u>MAN 3301</u> Human Resource Management	3	!	<u>GEY 4945</u> Field Placement	9
	<u>WRIN</u> FKL/Gen Ed Writing Intensive Capstone	3		Elective Outside the Major	3
!	<u>ISM 3011</u> Information Systems in Organizations	3		Apply for Graduation	
	Elective Outside the Major	3		Semester Hours:	12
	Semester Hours:	12			

### 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 for 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 but one of the required courses, is intended to prepare students for entry level positions in nursing home administration.

### Advising Information

Students should plan to meet frequently with the departmental advisor (Gail Smith [gsmith@usf.edu](mailto:gsmith@usf.edu)) to plan courses and field work that will prepare the student for career goals.

## LONG TERM CARE ADMINISTRATION FACULTY

*Director:* C.L. McEvoy *Professors:* W. E. Haley, K. Hyer, C. L. McEvoy, V. Molinari, B.J. Small; *Associate Professors:* R. Andel, D.J. Dobbs, J.D. Edwards, H. Meng; *Assistant Professors:* A. Gamaldo, S. Scott; *Instructor:* B. Stanback; *Courtesy and Adjunct Professors:* H. Caywood, Jr., M. J. Etten, G. Holder, H. Osman, J. Smith, P. Stiles, L. Volicer; *Professors Emeriti:* J. Garcia, W.P. Mangum, L. Polivka, S.L. Reynolds, S. V. Saxon.

### • B.S.W. - SOCIAL WORK (SOK) (CIP = 44.0701)

**TOTAL DEGREE HOURS: 120**

<http://socialwork.cbcs.usf.edu/bachelors/>

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;



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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.

## 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 and slots are limited.

## STATE MANDATED COMMON COURSE PREREQUISITES

Students intending to transfer to USF may complete the A.A. degree at a Florida College System institution. Some prerequisite courses may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The transfer student should also be aware of the immunization, foreign language, exit requirements, extra credit hour surcharge and continuous enrollment policies of the university.

A transfer student must successfully complete the following courses, by earning a "C" or better. A grade of "C-" is not acceptable as a passing grade.

One course in each of the following cognate areas:

- POS X041 or POS X042 or PUP X099 American Government
- BSC X005 or BSC X085 or BSC X010 or PCB X099 Human Biology
- ECO X000 or ECO X023 Economics
- PSY X012 or PSY X020 Psychology
- SYG X000 or SYG X010 Sociology

(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 TOTAL MAJOR HOURS: 45

**Major requirements for the B.S.W. Degree:**

**Major Core (45 hours)**

A major in Social Work requires 45 credits in a lock-step (pre-set) schedule.

Students must take the following courses during their first semester admitted in the program (18 credit hours):

- SOW 3203 Introduction to Social Work
- SOW 3101 Human Behavior and the Social Environment I
- SOW 4341 Social Work Micro Practice
- SOW 3401 Research & Statistics for Social Work
- SOW 4522 Multi-Cultural America in a Global Society
- SOW 3210 The American Social Welfare System

Once the above courses have been successfully completed, students must take the following courses during their 2nd semester in the program (15 credit hours):

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- SOW 3102 Human Behavior and the Social Environment II
- SOW 4343 Social Work Macro Practice
- 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 Settings
- 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 2023 Microeconomics or ECO 2013 Macroeconomics
- 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. Consideration in the admissions process includes GPAs, reference from SOW 3203 professor, essay and volunteer/paid experience related to human services.

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 program prerequisites with minimum "C" grade in each course.

Students must successfully complete their 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 earn a grade of "B" or better. If the student does not meet this minimum GPA, 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

Two years of high school, same foreign language is required.

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>ENC 1101</u> Composition I	3	! <u>ENC 1102</u> Composition II	3
<u>BSC 1005</u> or <u>BSC 1020</u> or <u>BSC 2085</u>	3	! <u>CAMA</u> or <u>CAQR</u> (Take a CAMA or CAQR course, depending on what course was taken for the Mathematics core.)	3
<u>SGEM</u> General Education Core Mathematics	3		

# COLLEGE OF BEHAVIORAL AND COMMUNITY SCIENCES

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<u>PSY 2012</u> Introduction to Psychological Science	3	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
<u>SLS 2901</u> Academic Foundations Seminar	3	<u>SGEH</u> General Education Core Humanities	3
Semester Hours:	15	General Elective	3
		Semester Hours:	15

<b>Summer</b>	<b>Credit Hours</b>
Elective Outside the Major	3
Semester Hours:	3

Semester 3	Credit Hours	Semester 4	Credit Hours
<u>POS 2041</u> American National Government	3	<u>SOW 3203</u> Introduction to Social Work	3
<u>CAFA</u> FKL/Gen Ed Fine Arts	3	<u>ECO 1000</u> or <u>ECO 2013</u> or <u>ECO 2023</u>	3
<u>CANP</u> FKL/Gen Ed Natural Sciences (Physical Science)	3	Elective Outside the Major	2
<u>SYG 2000</u> or <u>SYG 2010</u>	3	Elective Outside the Major	3
Elective Outside the Major	2	<u>CAHU</u> FKL/Gen Ed Humanities	3
Semester Hours:	14	Semester Hours:	14

<b>Summer</b>	<b>Credit Hours</b>
<u>6AC</u> FKL/Gen Ed Gordon Rule Communication	3
Elective Outside the Major	3
Semester Hours:	6

Semester 5	Credit Hours	Semester 6	Credit Hours
<u>WRIN</u> FKL/Gen Ed Writing Intensive Capstone	3	! <u>SOW 3101</u> Human Behavior and the Social Environment I	3
Elective Outside the Major	3	! <u>SOW 4522</u> Multicultural America in a Global Society	3
Upper-Level Elective	3	! <u>SOW 4341</u> Multi-Methods of Social Work Practice I: Micro-System Intervention	3
<u>CPST</u> FKL/Gen Ed Capstone Experience	3	! <u>SOW 3210</u> The American Social Welfare System	3
Semester Hours:	12	! <u>SOW 3401</u> Research and Statistics For Social Work	3
		Semester Hours:	15

**Summer**

Summer Opportunities

Semester 7	Credit Hours	Semester 8	Credit Hours
! <u>SOW 3102</u> Human Behavior And The Social Environment II	3	! <u>SOW 4510</u> Integrative Seminar	9
! <u>SOW 4343</u> Multi-Methods of Social Work Practice II: Macro-System Intervention	3	! <u>SOW 4602</u> Social Work Practice in Mental Health and Health Care	3
		Apply for Graduation	
		Semester Hours:	12

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! <u>SOW 4233</u> Social Welfare: Policy & Program	3
! <u>SOW 4315</u> Social Work Case Management with Special Populations	3
! <u>SOW 4414</u> Social Work Data Management	2
Semester Hours:	14

## 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.

## OPTIONAL HONORS PROGRAM

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.

## Accreditation Information

The School of Social Work programs are accredited by the Council on Social Work Education (CSWE).

## Advising Information

Advising is available in office, by phone and email by contacting: Amy Weisz, MSW, LCSW; (813) 974-7292; [aweisz@usf.edu](mailto:aweisz@usf.edu); MHC 1405. We welcome students to contact our advisor to learn more about the social work profession and the BSW degree.

## SOCIAL WORK FACULTY

*Interim Director:* T. Wright; *Director of Field Program:* T. Simpson; *Professor:* M. Becker; *Associate Professors:* I. Carrion, A. Salloum; *Assistant Professors:* M. Joshi, N.S. Park, G. Rahill, B. Morris-Mitchell; *Instructors:* L. Rogovin, C. Simmons, A. Mendoza, P. Williams; *Visiting Faculty:* L. Conforti-Brown, R. Powers.

## REQUIREMENTS FOR THE CERTIFICATE IN UNDERGRADUATE RESEARCH IN BEHAVIORAL & COMMUNITY SCIENCES

**TOTAL CERTIFICATE HOURS: 16**

<http://www.usf.edu/cbcs/students/academic-programs/undergraduate-research-certificate.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.

# COLLEGE OF BEHAVIORAL AND COMMUNITY SCIENCES

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## **Certificate Core (16 hours)**

IDS 1505 Introduction to Research in Behavioral and Community Sciences  
IDS 2600 Application 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 Advanced Research Methods: Behavioral & Community Sciences  
MHS 4731 Writing for Research and Publication (also fulfills the FKL WRIN EXIT requirement)  
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](mailto:llandis@usf.edu)) for additional information.

## **Advising Information**

Email Lisa Landis ([llandis@usf.edu](mailto:llandis@usf.edu)) with questions.

# MUMA COLLEGE OF BUSINESS

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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 undergraduate curriculum that leads to a Bachelor's degree in Business Administration is composed of several segments: (1) broad general education in the arts, humanities and sciences; (2) the common body of knowledge for management responsibilities; and (3) specialized majors in Accounting, Advertising, Finance, General Business, International Business, Management, Management Information Systems, and Marketing. Through flexibility in its requirements, the College is able to satisfy the different interests and career objectives of students with diverse backgrounds. Graduate programs in the College are described in the USF Graduate Catalog.

The 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/>.

## Following are the undergraduate academic programs offered by the Muma College of Business:

### B.A./B.S. option

Advertising (BAV)

### Bachelor of Arts (B.A.)

International Business (ITB)

Economics (GEC)

Finance (GFI)

Management (GMN)

Management Information Systems (GIS)

Marketing (GMK)

### Bachelor of Science (B.S.)

Accounting (ACC)

Finance (FIN)

General Business Administration (GBA)

Accounting & Economics (GAA/GEC)

Accounting & Finance (GAA/GFI)

Accounting & Management (GAA/GMN)

Accounting & Mgmt Information Sys (GAA/GIS)

Accounting & Marketing (GAA/GMK)

Economics & Finance (GEC/GFI)

Economics & Management (GEC/GMN)

Economics & Mgmt Information Sys (GEC/GIS)

Economics & Marketing (GEC/GMK)

Finance & Management (GFI/GMN)

Finance & Mgmt Information Systems (GFI/GIS)

Finance & Marketing (GFI/GMK)

Management & Mgmt Information Sys (GMN/GIS)

Management & Marketing (GMN/GMK)

Mgmt Information Sys & Marketing (GMK/GIS)

Management (MAN)

Management Information Systems (ISM)

Marketing (MKT)

Supply Chain Management (SCMG)

### Honors Program

All programs

### Accelerated Degree Program

Advertising/Mass Communications

Information Systems Management

### Minors

Accounting (for Business majors only) (ACC)

Economics (ECN)

Entrepreneurship (ETN)

Entrepreneurship (ETB)

Finance (FIN)

Management (MAN)

Management Information Systems (ISM)

Marketing (for Business Majors only) (MKT)

### Certificates

National and Competitive Intelligence

Undergraduate Business

### Undergraduate Admission

#### 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 to USF as a degree seeking student
- Test scores: SAT minimum 1140, Math 550 or ACT 25, Math 25
- Weighted high school GPA: 3.5

Please visit the Bulls Business Network's website <http://www.usf.edu/business/undergraduate/bbc/bbn.aspx> for further information.

First time in college students who do not meet the criteria above will be classified as pre-business and admitted after meeting the admission requirements below.

# MUMA COLLEGE OF BUSINESS

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

## 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.

- 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>.
- 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 & 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.

## Transfer Students

Transfer credits will be accepted from accredited institutions; however, all hours earned may not be applied toward USF business degree requirements. Individual courses will be evaluated by an academic advisor and appropriately credited toward requirements in the student's program at USF.

## 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 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.

## Associate of Science Transfers

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 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 Business Administration may earn a major in General Business Administration only. Florida College System students pursuing an Associate of Science (AS) program in any other discipline should contact the Director of the BSAS program in the Office of Undergraduate Studies, SVC 2043, (813) 974-2645, for information regarding course transferability and degree articulation.

# MUMA COLLEGE OF BUSINESS

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## 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 most students are fully admitted to the business college after two years of general course requirements). BBN members are eligible to live in the Bulls Business Community, a residential program described in the following section. BBN students have the opportunity to avoid mass lecture classes as smaller sections of core business classes are reserved exclusively for BBN members (availability is limited and determined by academic performance each semester). Students in the BBN may apply for special business scholarships as well as join business student organizations normally restricted only to juniors and seniors. For admission criteria visit <http://www.usf.edu/business/undergraduate/bbc/bbn.aspx>.

## Living-Learning Community - The Bulls Business Community

Most freshmen are required to live on campus for the first year. As part of the Bulls Business Network, students are eligible to apply to the business-themed living learning community, the Bulls Business Community (BBC). Here, students are offered very different programming opportunities. An exclusive academic advisor and graduate assistant aid students as they navigate the university and the college. Dinners with the dean, meetings with CEO's of various Tampa Bay businesses, improv sessions, study abroad opportunities, company tours and etiquette dinners are just a few of the beyond the books experiences provided to the 105 business students living on one floor in Juniper-Poplar Hall. In addition, all BBC students have the opportunity to apply to the Honors Program in Business. For further information about the BBC, please visit <http://www.usf.edu/business/undergraduate/bbc/>.

## The Honors Program in Business

Exclusively for our best and most motivated students, this highly-selective program is designed to assist, accelerate and ensure the growth and development of our future leaders in academia and business. Business honors students will learn from USF's best business research faculty, blending smaller classes, rigorous coursework and research efforts with unique applied learning opportunities. To graduate from the Honors Program in Business, students must fulfill all program requirements listed below:

- Sign and abide by the program's Honor Pledge
- Live in the Bulls Business Community for two years
- Facilitate a service-learning project within a Business Honor's cohort
- Participate in a study abroad experience with a Business Honor's cohort
- Participate in at least one meaningful internship
- Complete all requirements for an honor's thesis
- Maintain a 3.40 overall GPA

Upon completion of the requirements above, students will be identified at graduation and the statement "Business Honors Program" will be placed on the diploma and transcript.

Students should apply as seniors in high school. Alternatively, students may also apply after completion of their freshmen year in college from USF or outside USF. Students who complete an associate's degree are also eligible for consideration into this program.

For further information, please contact the program director, Dr. Joni Jones at [jonijones@usf.edu](mailto:jonijones@usf.edu) or visit the Business Honors Program website: <http://www.usf.edu/business/undergraduate/honors/>.

## Undergraduate 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: BSN 2102, (813) 974-4290 or schedule an advising appointment on-line: <http://www.usf.edu/business/undergraduate/advising/appointments.aspx> Office Hours: 8am-6pm Monday-Thursday and 8am-4pm on Friday. Please refer to website for most current office hours information.

## General Requirements for B.A./B.S. Degrees in Administration Business

Students must satisfactorily complete a minimum of 120 semester hours. Of the minimum 120, at least 60 hours must be business courses, and a minimum of 54 hours must be non-business courses (i.e., all courses not normally offered in the 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



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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>.

As a part of the 120-hour requirements for the B.A. or B.S. degree, the following criteria also apply:

- **GPA:** A minimum grade-point average of 2.0 must be achieved in the following areas
  - The major and minor fields
  - College foundation courses
  - All USF coursework
  - Overall GPA (USF and all transfer work)
- **Gordon Rule:** Students must have satisfactorily completed the writing and computation course requirements of the Board of Governor's Regulation 6.107 ("Gordon Rule").
- **Foreign Language:** For a Bachelor of Arts degree, students must demonstrate competency in a foreign language (refer to the Academic Policies and Procedures section of this catalog). The 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.

### **Degree Requirements (120 credit hours)**

#### NON-BUSINESS (54 hrs. minimum)

Core General Education and Foundations of Knowledge and Learning Requirements:

English Composition (6 credit hours)

General Education Core Mathematics and FKL Mathematics and Quantitative Reasoning (Calculus is required) (6 credit hours)

General Education Core and FKL Natural Sciences (6 credit hours)

General Education Core Social Sciences and FKL Social and Behavioral Sciences (6 credit hours)

FKL Human Cultural Diversity Global Context (3 credit hours)

FKL Fine Arts (3 credit hours)

General Education Core and FKL Humanities (6 credit hours)

Exit Course Requirements

The Capstone Learning Experience Course (3 credit hours)

The Writing Intensive Capstone Course (3 credit hours)

Speech/Writing Requirements for Business Majors

SPC 2608 Public Speaking or COM 3110 Communication for Business and the Professions

ENC 3250 Professional Writing or ENC 3310 Expository Writing or equivalent

Additional elective credits

Students may or may not need to take additional hours to meet the minimum of 54 non-business credits (See "Electives" heading below for a suggested course)

#### BUSINESS (60-66 hrs. minimum):

Foundation Courses in Business - Required - a minimum grade of C- in each foundation course with an overall 2.0

GPA:

ACG	2021	Principles of Financial Accounting*
ACG	2071	Principles of Managerial Accounting*
ECO	2013	Economic Principles: Macroeconomics
ECO	2023	Economic Principles: Microeconomics
QMB	2100	Business & Economic Statistics I
BUL	3320	Law and Business I
FIN	3403	Principles of Finance
ISM	3011	Information Systems in Organizations**
QMB	3200	Business & Economic Statistics II
MAN	3025	Principles of Management
MAR	3023	Basic Marketing***

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GEB 4890 Strategic Management/Decision Making

Major Requirements (18-27 credit hours)

Business Electives:

CGS 2100

\* Accounting majors must earn C not C- in ACG 2021 & 2071

\*\* Information Systems (ISM) majors must earn C not C- in ISM 3011

\*\*\* Advertising and Marketing majors must earn C not C- in MKT 3023

## ELECTIVES IN BUSINESS OR NON-BUSINESS

Sufficient elective courses to reach a minimum of 120 hours (ranges from 0-6 credit hours if above requirements are met) Minimum total hours 120\*

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.

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.

## **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.

## **• B.S. - ACCOUNTING (ACC) (CIP = 52.0301) TOTAL DEGREE HOURS: 120**

<http://www.usf.edu/business/undergraduate/major-accounting.aspx>

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 two additional requirements are:

1. Score at least a 75 percent on the "competency exam" that covers material from ACG 2021 Principles of Financial Accounting and ACG 2071 Principles of Managerial Accounting prior to taking any ACG or TAX course at the 3000-level or higher; and

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2. Successful completion of ACG 3103 Intermediate Financial Accounting I and ACG 3341 Cost Accounting and Control I, with a minimum grade of C, not C- and no more than two attempts cumulatively between ACG 3103 and ACG 3341. "W" grades count as an attempt.

A student will be able to take the competency exam a maximum of two times. If a student does not make the minimum 75 percent passing grade within the second attempt, the student will not be allowed to take any 3000-level or higher ACG or TAX course unless he/she retakes ACG 2021 and then passes the competency exam at the minimum specified level of 75 percent. The prerequisites for ACG 3103 and ACG 3341 require students to earn a grade of C, not C- in both ACG 2021 and ACG 2071. ACG 3103 and ACG 3341 are co-requisites, meaning that students admitted to the Accounting major must take these two courses concurrently. Students who fail to obtain a minimum grade of C (not C-) in ACG 3103 and ACG 3341 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 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 General Business Administration only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the TRansitional Advising Center, SVC 2043, (813) 974-2645, 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 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 STAX122 (although STA X023 and QMB X100 are preferred).

\*Accounting majors must earn a C not C- in ACG 2021 & ACG 2071

## 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

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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

\*These courses must be taken during the same semester.

### Major Electives (6 hours)

Select from:

ACG 4123 Intermediate Financial Accounting III

ACG 4351 Cost Accounting and Control II

ACG 4642 Auditing II

ACG 4931 Selected Topics

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 for 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.

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## REQUIREMENTS FOR THE MINOR IN ACCOUNTING (ACC (FOR BUSINESS MAJORS ONLY)

**TOTAL MINOR HOURS: 12**

<http://www.usf.edu/business/undergraduate/minor-accounting.aspx>

The Accounting minor is available to all Undergraduate Muma College of Business students, except those majoring in Accounting.

Please see "Additional Minor Information" below for the required competency exam information.

### 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

\* These courses must be taken in 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. The two additional requirements are:

1. Score at least a 75 percent on the "competency exam" that covers material from ACG 2021 Principles of Financial Accounting and ACG 2071 Principles of Managerial Accounting prior to taking any ACG or TAX course at the 3000-level or higher; and
2. Successful completion of ACG 3103 Intermediate Financial Accounting I and ACG 3341 Cost Accounting and Control I, with a minimum grade of C, not C- and no more than two attempts cumulatively between ACG 3101 and ACG 3341. "W" grades count as an attempt

A student will be able to take the competency exam a maximum of two times. If a student does not make the minimum 75 percent passing grade within the second attempt, the student will not be allowed to take any 3000-level or higher ACG or TAX course unless he/she retakes ACG 2021 and then passes the competency exam at the minimum specified level of 75 percent. The prerequisites for ACG 3103 and ACG 3341 require students to earn a grade of C, not C- in both ACG 2021 and ACG 2071. ACG 3103 and ACG 3341 are co-requisites, meaning that students admitted to the Accounting minor must take these two courses concurrently. Students who fail to obtain a minimum grade of C (not C-) in ACG 3103 and ACG 3341 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.

## ACCOUNTING FACULTY

*Director:* U.S. Murthy; *Professor:* J.L. Reck; *Advisory Council Professor:* T.J. Engle; *Quinn Eminent Scholar:* U.S. Murthy; *Professors Emeritus:* D.M. Dennis, G.L. Holstrum, L.C. Jurgensen, R.M. Keith, J.R. Martin, K.W. Merriam, W.H. Parrott, J.L. Smith, W.L. Stephens, R.J. West; *Associate Professors:* L.M. Gaynor, G.A.H. Laursen, D. Robinson, R.F. Welker, P.R. Wheeler; *Assistant Professors:* M. Mellon, T. Smith, J. Whitworth; *Instructors:* C. Andrews, J.M. Cainas, K. Davis, K. Del Vecchio, B. Dong, H. Lively, K. Myers.

## • B.A. OR B.S. - ADVERTISING (BAV) (CIP = 52.1499)

**TOTAL DEGREE HOURS: 120**

<http://www.usf.edu/business/undergraduate/major-advertising.aspx>

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

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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 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.

1. 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 General Business Administration only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Transitional Advising Center, SVC 2043, (813) 974-2645, 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 acceptable Substitute, i.e., CGS X100C, CGS X530, CGS X570, CGS X060, CGS X531, CGS X000, 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 (although STA X023 and QMB X100 are preferred).

\*Accounting majors must earn a C not C- in ACG 2021 & ACG 2071

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## REQUIREMENTS FOR THE MAJOR IN ADVERTISING TOTAL MAJOR HOURS: 53

### Major requirements for the B.A. or B.S. Degree:

#### Major Core (33 hours)

Within the 120-semester hour program listed in the Business General Requirement section (including the state mandated common prerequisites), students must pass the EDT (English Diagnostic Test), complete all courses listed below with a minimum grade of C, not C-, participate in a study abroad experience, and live in the Zimmerman Advertising Program (ZAP) Living Learning Community during their freshmen and sophomore years.

#### 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 Practicum
MAR 3613	Marketing Research
MMC 4936	Selected Topics in Mass Communications Studies
MAR 4503	Buyer Behavior

#### Required Mass Communication Core Courses:

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

#### Major Electives (20 hours)

##### Required Business Electives:

CGS 2100	Computers in Business
MAR 3823	Marketing Management
MAR 4933	Selected Topics in Marketing: Social Media Applications
MAR XXXX	Upper-Level Marketing Elective

##### Required Non-Business Electives:

GEB 2935	Selected Topics in Business: Speaker Series
MAR 4905	Independent Study
MMC 4910	Individual Research in Mass Communications
SLS 2901	Academic Foundations Seminar

### 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 for 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

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.

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This accelerated program shares 12 credits between already existing degrees/concentrations:

- B.S. in Advertising
- M.A. in Mass Communication with a concentration Strategic Communication Management

## Target students and expected outcomes

This highly competitive program is the result of collaboration between the Department of Marketing in the Muma College of Business and the Zimmerman School of Advertising and Mass Communications in the College of Arts and Sciences. The integrated B.S./M.A. curriculum is designed to provide eligible students the undergraduate coursework necessary to complete a specialized program of study in advertising management at the graduate level. Graduates of this distinctive program will be prepared to take on leading communication management positions in an evolving business and media environment.

## Description and Requirements

For admission to the program, a student must:

1. have completed at least 15 hours in the Advertising undergraduate major;
2. have a minimum undergraduate 3.33 GPA overall; and
3. have a minimum undergraduate 3.5 GPA in the major.

To apply for admission, send a letter to the Director of the Advertising Program, within the Zimmerman School of Advertising and Mass Communications stating your qualifications and desire to enter the program. Students may also be nominated by faculty in the Department of Marketing or Zimmerman School of Advertising and Mass Communications.

## Undergraduate Degree Requirements for the Advertising Business Major

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.

## Requirements for the B.S. Degree

Within the 120-semester hour program listed in the Business General Requirement section (including the state mandated common prerequisites), students must pass the EDT (English Diagnostic Test), complete all courses listed below with a minimum grade of C, not C-, participate in a study abroad experience, and live in the Advertising Living Learning Community during their freshmen year.

## Required Courses for Business Core (36 credit hours):

ACG 2021 Principles of Financial Accounting  
ACG 2071 Principles of Managerial Accounting  
ECO 2013 Economic Principles: Macroeconomics  
ECO 2023 Economic Principles: Microeconomics  
QMB 2100 Business & Economic Statistics I  
QMB 3200 Business & Economic Statistics II  
BUL 3320 Law and Business I  
FIN 3403 Principles of Finance  
ISM 3011 Information Systems in Organizations  
MAN 3025 Principles of Management  
MAR 3023 Basic Marketing  
GEB 4890 Strategic Management/Decision Making

## Required Courses for Advertising major (27 credit hours):

ADV 3008 Introduction to Advertising  
ADV 3101 Advertising Creativity  
ADV 3300 Advertising Media Strategy  
ADV 4600 Advertising Management  
ADV 4800 Advertising Campaigns  
ADV 4940 Advertising Practicum  
MAR 3613 Marketing Research  
MMC 4936 Selected Topics in Mass Communications Studies  
MAR 4503 Buyer Behavior



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**Required Mass Communication Core Courses (6 credit hours):**

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

**Required Business Electives (12 credit hours):**

CGS 2100 Computers in Business  
MAR 3823 Marketing Management  
MAR 4933 Selected Topics in Marketing  
MAR XXX Upper-Level Marketing Elective

**Required Non-Business Electives (8 credit hours):**

GEB 2935 Selected Topics in Business: Speaker Series  
MAR 4905 Independent Study  
MMC 4910 Individual Research in Mass Communications  
SLS 1101 University Experience

**Shared B.S./ M.A. Requirements**

Twelve (12) hours of graduate credit can be taken in place of 6 hours required for the Advertising Major and 6 hours of Required Business Electives, as follows:

ADV 4600 (Advertising Management), satisfied by PUR 6607 (Strategic Communication Management)  
ADV 4800 (Advertising Campaigns), satisfied by PUR 6603 (Strategic Communication Campaigns)  
ADV 4940 (Advertising Practicum), satisfied by MMC 6945 (Mass Communications Professional Practicum)  
MAR 4933 (Selected Topics in Marketing: Social Media Applications), satisfied by MAR 6936 (Selected Topics in Marketing: Social Media Applications).

**Graduate Degree Requirements for Accelerated M.A. in Mass Communications****Total Minimum Hours: 39****Core Requirements: 12 hours**

MMC 6920 Introduction to Mass Communication Research  
MMC 6401 Mass Communication Theory  
MMC 6421 Research Methods

**Concentration Requirements: 24 hours****Concentration in Strategic Communication Management**

The Strategic Communication Management concentration accentuates the integration of organizational communication functions such as public relations and advertising into a single communication management function. This program requires 39 hours of course work (12 hours of which are shared with the B.S. degree), including three (3) hours of an applied research project, twelve (12) hours of the mass communications core, and fifteen (15) hours of the strategic communication management concentration.

PUR 5505 Introduction to Strategic Communication Theory and Research  
PUR 6607 Strategic Communication Management  
PUR 6603 Strategic Communication Campaigns  
MMC 6418 Strategic Message Design  
MMC 6415 Strategic Communication Media

Satisfied by: ADV 5505 Advertising Planning

**Applied Research Project Requirement: 3 hours**

The applied research project will serve as an integrative experience for students to bring together all they have learned during their five years at USF. Students will be paired with clients in Tampa and within the state of Florida to solve real-world research problems. With the guidance of a faculty advisor, students will plan, conduct, and present research to their client and the graduate faculty within the Zimmerman School of Advertising and Mass Communications.

MMC 6950 – Applied Research Project

**Timeline and benchmarks:**

1. To be considered for acceptance into the Accelerated B.S./M.A. in Advertising in the Zimmerman School of Advertising and Mass Communications, students must have completed a minimum of 15 credits in the Advertising undergraduate major.
2. Students must have a minimum undergraduate GPA of 3.33 overall, and a minimum GPA of 3.50 in the major to be eligible for the accelerated degree program.
3. Following completion of a minimum of 15 hours in the undergraduate major, students may be considered for acceptance into the accelerated program through faculty nomination or student self-nomination, via submission of an *Accelerated Program Application Form*. Both B.S. and M.A. programs will review the applications and approve the nominations. All applications require the approval of the Zimmerman School of Advertising and Mass Communications Graduate Program, the College of Arts and Sciences, and the USF

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Graduate School.

4. To be promoted to graduate status, students must meet all admission requirements of the M.A. in Strategic Communication Management in the Zimmerman School of Advertising and Mass Communications. Specifically, the following materials must be submitted with the *Accelerated Program Application Form*:
  - o Statement of intent (a personal statement about why the student wishes to apply for the program);
  - o Undergraduate transcripts;
  - o Three letters of recommendation;
  - o GRE scores (GRE should be taken before or during the third year of study).
5. Students must earn a minimum of a "B" (3.00) in all graduate courses. Failure to earn at least a "B" in a graduate course will result in academic review by the graduate program. Failure to maintain a minimum 3.0 GPA will result in academic probation, according to the procedures of the USF Office of Graduate Studies.

A comprehensive plan of study to complete the integrated B.S./M.A. program will be developed with the guidance of an advisor and a faculty member. A possible plan of study could be as follows. Summer sessions may also be included in the study plan.

## **First and Second Year**

Courses and credits as designated for freshman and sophomore years

## **Third Year (Apply for Admission to the Integrated B.S./M.A. program)**

MAR 4903 Independent Study  
MAR 3613 Marketing Research  
QMB 3200 Business and Economic Statistics II  
ADV 3101 Advertising Creativity  
MAR 3823 Marketing Management  
MAR 4903 Independent Study  
FIN 3403 Principles of Finance  
ADV 3300 Advertising Media Strategy  
ADV 4600 Advertising Management  
ADV 4940 Advertising Practicum  
MMC 4936 Selected Topics in Mass Communications Studies: Brandtailing

## **Fourth Year (Student accepted in M.A. in Mass Communications program; shared credits highlighted)**

MMC 4910 Individual Research in Mass Communication  
MAR 4503 Buyer Behavior  
MAN 3025 Principles of Management  
BUL 3320 Law and Business I  
ISM 3011 Information Systems in Organizations  
MMC 6945 Selected Topics in Marketing (Return on Marketing Investment)\*  
GEB 4890 Strategic Management and Decision Making  
PUR 6607 Strategic Communication Management\*  
PUR 6603 Strategic Communication Campaigns\*  
MAR 6936 Selected Topics in Marketing (Social Media Applications)\*  
MAR 3400 Professional Selling

## **Fifth Year**

MMC 6920 Introduction to Mass Communication Research  
MMC 6400 Mass Communication Theory  
MMC 6421 Research Methods  
ADV 5005 Advertising Planning  
PUR 5505 Introduction to Strategic Communications Theory and Research  
ADV 6602 Advanced Advertising Management  
PUR 6418 Strategic Message Design  
MMC 6950 Applied Research Project

## **ADVERTISING FACULTY**

*Chairperson:* A. Kumar; *Professors:* T.B. Heath, D.J. Ortinau, R. Plank, P.J. Solomon, J.R. Stock; *Associate Professors:* A. Artis, D. Biswas, D.F. Davis, A. Kumar, B. Lafferty, S. Varki; *Assistant Professors:* R. Hooker, J. Mena; *Instructors:* C. Osborne, V.B. Panzer, J.M. Solomon, K. Walsh.

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## • B.S. - FINANCE (FIN) (CIP = 52.0801) TOTAL DEGREE HOURS: 120

<http://www.usf.edu/business/undergraduate/major-finance.aspx>

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.

### 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 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

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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 General Business Administration only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Transitional Advising Center, SVC 2043, (813) 974-2645, 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 MAJOR IN FINANCE

**TOTAL MAJOR HOURS: 18**

### Major requirements for the B.S. Degree:

#### Major Core (12 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 18 hours of upper-level finance courses beyond FIN 3403.

FIN 4303 Financial Institutions and Markets

FIN 4414 Advanced Corporation Finance

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 (6 hours)

Two 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 one elective must have an FIN prefix. Independent Study (FIN 4905) and Independent Research (FIN 4915) will not be accepted as credit toward the minimum degree requirements for a major in Finance.

FIN 3233 Money and Banking

FIN 3604 International Finance

FIN 4453 Finance Information Technology

FIN 4461 Financial Statement Analysis

FIN 4514 Advanced Investment Analysis and Management

FIN 4533 Financial Options and Futures

FIN 4560 Applied Securities Analysis

FIN 4940 Finance Internship

REE 3043 Real Estate Decision Making

The courses listed below are suggested electives that are relevant for students who might want to pursue careers in the following areas:

#### Corporate Financial Management

FIN 3604 International Finance

FIN 4412 Working Capital Management

FIN 4443 Financial Policies and Strategies

FIN 4461 Financial Statement Analysis

#### Management of Financial Institutions

FIN 3233 Money and Banking

FIN 3604 International Finance

FIN 4324 Bank Management

FIN 4412 Working Capital Management

FIN 4443 Financial Policies and Strategies

FIN 4461 Financial Statement Analysis

#### Investments

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- FIN 3604 International Finance
- FIN 4461 Financial Statement Analysis
- FIN 4514 Advanced Investment Analysis & Management
- FIN 4934 Selected Topics in Finance\*

## Financial Services

- FIN 3604 International Finance
- FIN 4514 Advanced Investment Analysis & Management
- FIN 4934 Selected Topics in Finance\*
- REE 3043 Real Estate Decision Making
- RMI 3011 Principles of Insurance

\*Please see your academic advisor for the necessary selected topics course.

## 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 12 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 for 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.

## REQUIREMENTS FOR A MINOR IN FINANCE (FIN)

### TOTAL MINOR HOURS: 12

<http://www.usf.edu/business/undergraduate/minor-finance.aspx>

The Finance minor is available to all Undergraduate Muma College of Business students, except those majoring in Finance.

### Minor Core (12 hours)

- 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).

## 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.

## 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.

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## FINANCE FACULTY

*Chairperson:* S. Besley; *Professors Emeritus:* S. Bolten, S. Bulmash, S. Kapplin, R L. Meyer, F. Power; *Professors:* C. Pantzalis, J. Qi, R. Rutherford, N. Sutton; *Associate Professors:* S. Besley, D. Bradley, D. Hunter, L. Wedge; *Instructors:* M. Antia, G. Smersh, A. Tandon; *Visiting Faculty:* J. Mohr.

### • B.S. - GENERAL BUSINESS ADMINISTRATION (GBA) (CIP = 52.0101 - TRACK 1 OF 2) TOTAL DEGREE HOURS: 120

<http://www.usf.edu/business/undergraduate/major-general-business.aspx>

The General Business major provides students with substantial preparation in two functional areas of business and prepares them for positions in a business world that is increasingly interdisciplinary and values cross-functional abilities.

### 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 General Business Administration only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Transitional Advising Center, SVC 2043, (813) 974-2645, 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)

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- 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 MAJOR IN GENERAL BUSINESS ADMINISTRATION TOTAL MAJOR HOURS: 24

### Major requirements for the B.S. Degree:

#### Major Core

Within the 120-semester-hours program, students must complete two concentrations from the following business disciplines: accounting, economics, finance, management, management information systems, or marketing. A minimum of 24 hours of upper-level course work must be earned with a GPA of at least 2.0 in each minor. The requirements for each minor are listed with the description of the major.

\* Minors applied to the General Business major will be referred to as concentrations.

For undergraduate overseas degree programs, the College may offer a set of four international business courses, defined as a concentration in international business, as approved by the curriculum committee.

**\*One exception:** A minor/concentration in Economics must consist of four upper level economics courses, excluding QMB 3200.

Courses used to satisfy a major in accounting, economics, finance, information systems management or marketing may not be used to satisfy either minor or economics concentration requirement for the GBA major. Courses used in the minors or concentrations for the GBA major cannot be used for a major.

### 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 for Undergraduate Research](#) will assist students in understanding the various course options.

### GENERAL BUSINESS ADMINISTRATION CONCENTRATIONS:

The Muma College of Business offers several General Business concentrations and details specific to each concentration follow.

## REQUIREMENTS FOR THE CONCENTRATION IN ACCOUNTING AND ECONOMICS (GAA/GEC) TOTAL CONCENTRATION HOURS: 24

### Concentration Core (12 hours)

#### 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 hours upper level ECO electives with ECO, ECS, ECP prefix; excluding QMB 3200

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## **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.

## **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 Economics coursework must be taken in residence at USF-Tampa.

## **REQUIREMENTS FOR THE CONCENTRATION IN ACCOUNTING AND FINANCE (GAA/GFI) TOTAL CONCENTRATION HOURS: 24**

### **Concentration Core (24 hours)**

#### **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.

## **REQUIREMENTS FOR THE CONCENTRATION IN ACCOUNTING AND MANAGEMENT (GAA/GMN) TOTAL CONCENTRATION HOURS: 24**

### **Concentration Core (24 hours)**

#### **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



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## **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.

## **REQUIREMENTS FOR THE CONCENTRATION IN ACCOUNTING AND MANAGEMENT INFORMATION SYSTEMS (GAA/GIS)**

**TOTAL CONCENTRATION HOURS: 24**

### **Concentration Core (18 hours)**

#### **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 Information Systems Required Courses:**

ISM 3113 Systems Analysis and Design

ISM 4212 Database Administration

### **Concentration Electives (6 hours)**

#### **Management Information Systems Electives:**

6 hours of approved MIS electives

## **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 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 Management Information Systems coursework must be taken in residence at USF-Tampa.

## **REQUIREMENTS FOR THE CONCENTRATION IN ACCOUNTING AND MARKETING (GAA/GMK)**

**TOTAL CONCENTRATION HOURS: 24**

### **Concentration Core (15 hours)**

#### **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

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## Concentration Electives (9 hours)

### Marketing Elective Courses:

Any three (3) upper level Marketing courses with a MAR prefix (excluding MAR 4824)

## 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 Marketing coursework must be taken in residence at USF-Tampa.

## REQUIREMENTS FOR THE CONCENTRATION IN ECONOMICS AND FINANCE (GEC/GFI) TOTAL CONCENTRATION HOURS: 24

### Concentration Core (12 hours)

#### 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 Econ courses:

12 hours upper level ECO electives with ECO, ECS, ECP prefix; excluding QMB 3200

## GPA Requirements

A GPA of 2.0 or higher must be achieved in all Economics and Finance 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.

## 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 Finance coursework must be taken in residence at USF-Tampa.

## REQUIREMENTS FOR THE CONCENTRATION IN ECONOMICS AND MANAGEMENT (GEC/GMN) TOTAL CONCENTRATION HOURS: 24

### Concentration Core (12 hours)

#### 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 Econ courses:

12 hours upper level ECO electives with ECO, ECS, ECP prefix; excluding QMB 3200

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## **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.

## **REQUIREMENTS FOR THE CONCENTRATION IN ECONOMICS AND MANAGEMENT INFORMATION SYSTEMS (GEC/GIS) TOTAL CONCENTRATION HOURS: 24**

### **Concentration Core (6 hours)**

#### **Management Information Systems Required Courses:**

ISM 3113 Systems Analysis and Design  
ISM 4212 Database Administration

### **Concentration Electives (18 hours)**

#### **Management Information Systems Electives:**

6 hours of approved MIS electives

#### **Economics Elective Courses - Grade of "C-" or higher is required for all Econ courses:**

12 hours upper level ECO electives with ECO, ECS, ECP prefix; excluding QMB 3200

## **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 Management 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 Management Information Systems coursework must be taken in residence at USF-Tampa.

## **REQUIREMENTS FOR THE CONCENTRATION IN ECONOMICS AND MARKETING (GEC/GMK) TOTAL CONCENTRATION HOURS: 24**

### **Concentration Core (3 hours)**

#### **Marketing Required Courses:**

MAR 3823 Marketing Management

### **Concentration Electives (21 hours)**

#### **Economics Elective Courses - Grade of "C-" or higher is required for all Econ courses:**

12 hours upper level ECO electives with ECO, ECS, ECP prefix; excluding QMB 3200

#### **Marketing Elective Courses:**

Any three (3) upper level Marketing courses with a MAR prefix (excluding MAR 4824)

## **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 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 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.

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## REQUIREMENTS FOR THE CONCENTRATION IN FINANCE AND MANAGEMENT (GFI/GMN) TOTAL CONCENTRATION HOURS: 24

### Concentration Core (24 hours)

#### 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.

## REQUIREMENTS FOR THE CONCENTRATION IN FINANCE AND MANAGEMENT INFORMATION SYSTEMS (GFI/GIS) TOTAL CONCENTRATION HOURS: 24

### Concentration Core (18 hours)

#### 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 Information Systems Required Courses:

- ISM 3113 Systems Analysis and Design
- ISM 4212 Database Administration

### Concentration Electives (6 hours)

#### Management Information Systems Electives:

6 hours of approved MIS electives

### 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 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.

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Nine hours of the required 12 credit hours of Management Information Systems coursework must be taken in residence at USF-Tampa.

## REQUIREMENTS FOR THE CONCENTRATION IN FINANCE AND MARKETING (GFI/GMK) TOTAL CONCENTRATION HOURS: 24

### Concentration Core (15 hours)

#### 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)

### 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.

## REQUIREMENTS FOR THE CONCENTRATION IN MANAGEMENT AND MANAGEMENT INFORMATION SYSTEMS (GMN/GIS) TOTAL CONCENTRATION HOURS: 24

### Concentration Core (18 hours)

#### Management Required Courses:

- MAN 3240 Organizational Behavior Analysis
- MAN 3301 Human Resource Management
- MAN 4282 Organizational Assessment
- MAN 4737 Integrated Management Applications

#### Management Information Systems Required Courses:

- ISM 3113 Systems Analysis and Design
- ISM 4212 Database Administration

### Concentration Electives (6 hours)

### Management Information Systems Electives:

6 hours of approved MIS electives

### 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 Management 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 Management Information Systems coursework must be taken in residence at USF-Tampa.

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## REQUIREMENTS FOR THE CONCENTRATION IN MANAGEMENT AND MARKETING (GMN/GMK) TOTAL CONCENTRATION HOURS: 24

### Concentration Core (15 hours)

#### 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)

### 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.

## REQUIREMENTS FOR THE CONCENTRATION IN MARKETING AND MANAGEMENT INFORMATION SYSTEMS (GMK/GIS) TOTAL CONCENTRATION HOURS: 24

### Concentration Core (9 hours)

#### Management Information Systems Required Courses:

ISM 3113 Systems Analysis and Design  
ISM 4212 Database Administration

#### Marketing Required Courses:

MAR 3823 Marketing Management

### Concentration Electives (15 hours)

#### Management Information Systems Electives:

6 hours of approved MIS electives

#### Marketing Electives:

Any three (3) upper level Marketing courses with a MAR prefix (excluding MAR 4824)

### GPA Requirements

A GPA of 2.0 or higher must be achieved in all Management 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 Management 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.

# MUMA COLLEGE OF BUSINESS

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

## • B.A. - INTERNATIONAL BUSINESS (IB) (CIP = 52.1101) TOTAL DEGREE HOURS: 120

<http://www.usf.edu/business/undergraduate/major-international.aspx>

The Bachelor of Arts in International Business (IB) provides students with the knowledge, skills and experience necessary for successful careers in the global business environment.

Graduates will have not only the International Business major, but also a minor in one of the functional areas of business (finance, management, marketing, economics and information systems). With this preparation, graduates will find employment in many manufacturing, service or knowledge-based industries with international markets, international suppliers, international sources of finance or an internationally diverse workforce.

The International Business program is unique in that it combines preparation in business administration with language training, area studies, and a meaningful overseas work or study experience. The curriculum includes, in addition to the general education and liberal arts requirements, a strong grounding in business core courses, an 18-hour major in international business and area studies subjects, a concentration in a functional area of business, training in a foreign language and overseas academic or business experience. International students, who have completed at least the equivalent of a high school education in their native country, are advised to pursue another business major. At a minimum, international students, who have completed at least the equivalent of a high school education in their native country, may not study the area of their origin as part of the International Business major.

### 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 General Business Administration only.

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Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the TRansitional Advising Center, SVC 2043, (813) 974-2645, 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/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 although STA X023 and QMB X100 are preferred).

\*Accounting majors must earn a C not C- in ACG 2021 & ACG 2071

## REQUIREMENTS FOR THE MAJOR IN INTERNATIONAL BUSINESS

### TOTAL MAJOR HOURS: 42

#### Major requirements for the B.A. Degree:

##### Major Core (30 hours)

A minimum of 120 hours is required to complete a B.A. in International Business.

##### International Business Major (18 credit hours):

**Business Courses (9 credit hours) - Required Business courses cannot be used to satisfy the Business concentrations:**

- FIN 3604 International Finance or ECO 3703 International Economics
- ISM 4382 Global Information or MAR 4156 International Marketing or MAN 4600 International Management
- MAN 4631 Global Perspectives and Management Choices

A 2.0 GPA is required for the Business courses

##### Area Studies Courses (9 credit hours):

Students should see an advisor for an approved list of upper level area studies courses.

A 2.0 GPA is required for the Area Studies courses.

##### Foreign Language Above First Year (9 credit hours):

Foreign Language(s) selected should support the study abroad area and the Area Studies courses.

##### Overseas Business Internship (3 credit hours) or Semester Abroad:

The International Business Major is designed to be completed within 120 credit hours. Certain courses satisfy requirements in more than one area. To maximize academic options, students should seek guidance from an advisor once a decision has been made to pursue this major.

**Please note:** Courses used to satisfy a major in accounting, economics, finance, information systems management or marketing may not be used to satisfy the concentration requirement for the ITB major. Courses used for the concentration for the ITB major cannot be used for a major.

#### Residency Requirement

At least 12 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 for Undergraduate Research will assist students in understanding the various course options.

#### INTERNATIONAL BUSINESS CONCENTRATIONS:

The Muma College of Business offers several International Business concentrations and details specific to each concentration follow.



# MUMA COLLEGE OF BUSINESS

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

## REQUIREMENTS FOR THE CONCENTRATION IN ECONOMICS (GEC)

**TOTAL CONCENTRATION HOURS: 12**

### 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.

## REQUIREMENTS FOR THE CONCENTRATION IN FINANCE (GFI)

**TOTAL CONCENTRATION HOURS: 12**

### 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.

## REQUIREMENTS FOR THE CONCENTRATION IN MANAGEMENT (GMN)

**TOTAL CONCENTRATION HOURS: 12**

### 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.

## REQUIREMENTS FOR THE CONCENTRATION IN MANAGEMENT INFORMATION SYSTEMS (GIS)

**TOTAL CONCENTRATION HOURS: 12**

### Concentration Core (9 hours)

ISM 3113 Systems Analysis and Design

ISM 4212 Database Design and Administration

ISM 4382 Global Info Systems

### Concentration Electives (3 hours)

Three (3) hours of upper-level ISM Coursework

### GPA Requirements

A 2.0 GPA is required for concentration courses.

## REQUIREMENTS FOR THE CONCENTRATION IN MARKETING (GMK)

**TOTAL CONCENTRATION HOURS: 12**

### Concentration Core (6 hours)

MAR 3823 Marketing Management

MAR 4156 International Marketing

### Concentration Electives (6 hours)

6 hours of upper-level Marketing Coursework

### GPA Requirements

A 2.0 GPA is required for concentration courses.

# MUMA COLLEGE OF BUSINESS

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

## • B.S. - MANAGEMENT (MAN) (CIP = 52.0201) TOTAL DEGREE HOURS: 120

<http://www.usf.edu/business/undergraduate/major-management.aspx>

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 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 General Business Administration only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Transitional Advising Center, SVC 2043, (813) 974-2645, 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 X0000, MAN X812)

# MUMA COLLEGE OF BUSINESS

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ECO X013 Principles of Macroeconomics

ECO X023 Principles of Microeconomics

MAC X233 Elementary Calculus or MAC 2230

STA X023 Introductory Statistics or QMB X100 or STAX122 although STA X023 and QMB X100 are preferred).

\*Accounting majors must earn a C not C- in ACG 2021 & 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 course work 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)

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

ENT 4024 Small Business Management - Entrepreneurship

MAN 4930 Selected Topics in Management

MAN 4940 Management Internship

GEY 4635 Business Management in an Aging Society

### 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.

### 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 for 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.

## REQUIREMENTS FOR A MINOR IN MANAGEMENT (MAN) (FOR BUSINESS MAJORS ONLY) TOTAL MINOR HOURS: 12

<http://www.usf.edu/business/undergraduate/minor-management.aspx>

The Management minor is available to all Undergraduate Muma College of Business students, except those majoring in Management.

#### Minor Core (12 hours)

MAN 3240 Organizational Behavior Analysis

MAN 3301 Human Resource Management

# MUMA COLLEGE OF BUSINESS

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

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

## MANAGEMENT FACULTY

*Chairperson:* Balaji Padmanabhan; *Professor Emeritus:* C.F. Cohen, R.E. Dutton, K. VanVoorhis; *Professors:* J.M. Jermier, M. Karlins, J. Koehler, W.R. Nord; *Associate Professors:* A. Balfour, E. Danneels, S. Fuller, K.D. MacAulay, C.E. Michaels, Jr.; *Instructors:* M.G. Bowen, W.J. Cames, R. Chavarry, S. Hanna-West, E. Hargis, R. Kelso.

## • B.S. - MANAGEMENT INFORMATION SYSTEMS (ISM) (CIP = 52.1201) TOTAL DEGREE HOURS: 120

<http://www.usf.edu/business/undergraduate/major-mis.aspx>

The Management Information Systems major provides the skills and knowledge necessary for information systems development and support positions in both business and non-business organizations.

## 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

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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 General Business Administration only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Transitional Advising Center, SVC 2043, (813) 974-2645, 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 X0000, MAN X812)

ECO X013 Principles of Macroeconomics

ECO X023 Principles of Microeconomics

MAC X233 Elementary Calculus or MAC 2230

STA X023 Introductory Statistics or QMB X100 or STAX122 although STA X023 and QMB X100 are preferred).

\*Accounting majors must earn a C not C- in ACG 2021 & ACG 2071

## REQUIREMENTS FOR THE MAJOR IN MANAGEMENT INFORMATION SYSTEMS

**TOTAL MAJOR HOURS: 27**

### Major requirements for the B.S. Degree:

#### Major Core (18 hours)

Within the 120-semester-hour program, students must complete a set of 6 required MIS courses and 3 approved MIS electives.

Students must have a 2.0 or higher GPA in the major; they can use grade forgiveness for only one upper-level MIS 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. MIS majors must earn a "C" or higher (not C-) in ISM 3011 and the six required MIS courses. At least 21 hours must be taken in residence at USF Tampa.

ISM 3232 Business Application Development\*

ISM 3113 Systems Analysis and Design\*

ISM 3431 Operations and Supply Chain Processes

ISM 4212 Database Administration

ISM 4220 Business Data Communications

ISM 4300 Managing Information Resources

\*ISM 3232 (Business Application Development) is recommended to be taken before, or concurrently with, ISM 3113 (Systems Analysis and Design).

#### Major Electives (9 hours)

ISM 4141 Web Application Development/Java

ISM 4153 Information Systems in Organizations

ISM 4233 Information System Interface Design

ISM 4234 Object-Oriented Design and Development

ISM 4323 Information Security and IT Risk Management

ISM 4382 Global Information Systems

ISM 4480 Electronic Commerce Systems

ISM 4930 Selected Topics in MIS

ISM 4940 ISM Internship

\*\*No more than three hours of ISM 4950 can be counted as MIS electives. (ISM 4905 will not count as an MIS elective.)

### GPA Requirements

Students must have a 2.0 or higher GPA in the major; they can use grade forgiveness for only one upper-level MIS 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.

### Grading Requirement

MIS majors must earn a "C" or higher (not C-) in ISM 3011 and the six required MIS courses.

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## Residency Requirement

At least 21 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 for Undergraduate Research](#) will assist students in understanding the various course options.

## Internship Opportunities

It is strongly recommended that Management Information System students take an internship course (ISM 4940) as part of their plan of study.

## ACCELERATED B.S./M.S. PROGRAM

The goal of the USF Muma College of Business integrated undergraduate-graduate program in MIS is to provide outstanding undergraduate students an option to complete the B.S. undergraduate degree in MIS and the M.S. graduate degree in MIS in **five years** (141 total hours).

The integrated B.S./M.S. program is a 141-hour undergraduate-graduate option that allows eligible students to work towards the M.S. in MIS degree requirements while completing their undergraduate B.S. degree. Students interested in this option will work closely with an advisor and a faculty member to develop an integrated plan of study.

### General Guidelines

- **Time of admission to the program:** Students will be eligible for admission to the integrated degree program at the beginning of their senior year in MIS. Students must apply for admission consideration during their junior year. Students will start taking courses in the graduate program in their senior year.
- **Joint admission:** Students must apply to and meet admission requirements of the M.S. in MIS graduate program.
- **Plan of study:** In consultation with an advisor and a faculty member, students will be required to prepare a Graduate Degree Action Plan.
- **Degree Action Plan.** The plan will cover the entire time period of the program and it will be periodically reviewed with an advisor.
- **Advising:** Students will present their portfolio (see below for details) and a plan of study in person to the integrated program committee prior to being admitted to the program.
- **Tuition charges:** Students will be required to pay graduate tuition rates when taking graduate courses.

### Admission Requirements

1. Students with at least a junior standing in their undergraduate degree program may apply for admission consideration into the integrated B.S./M.S. undergraduate/graduate program. Students will submit an **Accelerated Program Interest Form** that must be signed by the Graduate Program.
2. Students must have a minimum 3.25 GPA.
3. Interested students will be required to present a "Portfolio" of the following credentials:
  - Three letters of recommendation, at least two from faculty
  - Statement of intent—a personal statement about why the student wishes to apply for the integrated program.
  - Undergraduate transcripts.
  - Other supporting documents (e.g., projects and papers, software, work experience, internships, etc.) should be included where possible.
4. The GMAT or GRE should be taken sometime before or during the Fall semester of the junior year of study.
5. All applicants will need to meet **any other admission requirements established** for the M.S. in MIS program.
6. The application to the integrated program will be considered as a complete package and therefore obtaining a high undergraduate GPA is not a guarantee of admission. Grades in the undergraduate MIS core courses will be taken in consideration and will have a significant impact on the M.S./MIS acceptance decision.

### Degree Requirements

#### 5-Year Plan of Study for Integrated B.S./M.S. Undergraduate-Graduate Program

With appropriate planning, a total of 12 hours of graduate credit may be taken that can be applied to both the B.S. and M.S. degrees. This will reduce the minimum total credits required for both programs from 153 (120 for B.S., 33 for M.S.) to 141 credits. Specifically:

- None (9) hours of graduate credit can be taken in place of the 9 hours of elective undergraduate credits. The student must earn a minimum grade of B in each graduate course that is to be counted for both degrees.

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- The graduate level Operations and Supply Chain Processes course ISM 6436 can be taken in place of the comparable undergraduate course ISM 3431.

A comprehensive plan of study to complete the integrated B.S./M.S. program will be developed with the guidance of an advisor and a faculty member. A possible plan of study could be as follows. Summer sessions may also be included in the study plan.

## First Year and Second Year

Courses and credits as designated for freshman and sophomore years.

## Third Year (Apply for Admission to Integrated B.S./M.S. Program)

ISM 3232 Business Application Development

ISM 3113 Systems Analysis and Design

Additional undergraduate courses

ISM 4212 Database Design and Administration

ISM 4220 Business Data Communications

Additional undergraduate courses

## Fourth Year (Student accepted in M.S./MIS Program)

ISM 6436 Operations and Supply Chain Processes

Twelve (12) credit hours of undergraduate coursework

ISM 4300 Managing Information Resources (B.S. Capstone)

ISM 6124 Advanced Systems Analysis and Design

Six (6) credit hours of undergraduate or graduate electives

## Fifth Year

ISM 6225 Distributed Information Systems

ISM 6218 Advanced Database Management

Eighteen (18) credit hours of graduate electives

ISM 6155 Enterprise Information Systems Management (M.S. Capstone)

The following courses are suggested specialization elective courses and are cross-listed between the graduate and undergraduate catalogs:

ISM 6145 Seminar in Software Testing

ISM 6156 Enterprise Resource Planning and Business Process Management/ ISM 4153 Information Systems in Organizations

ISM 6328 Information Security and Risk Management/ ISM 4323 Information Security and IT Risk Management

ISM 6316 Project Management

For further course information, visit: <http://ugs.usf.edu/course-inventory/>.

## REQUIREMENTS FOR THE MINOR IN MANAGEMENT INFORMATION SYSTEMS (ISM) (FOR BUSINESS MAJORS ONLY) TOTAL MINOR HOURS: 12

<http://www.usf.edu/business/undergraduate/minor-mis.aspx>

The Management Information System minor is available to all Undergraduate Muma College of Business students, except those majoring in ISM.

### Minor Core (6 hours)

ISM 3113 Systems Analysis and Design

ISM 4212 Database 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.

## MANAGEMENT INFORMATION SYSTEMS FACULTY

*Chairperson:* B. Padmanabhan; *Professors:* A. Bhattacharjee, J.E. Blanton, K. Chari, T.G. Gill, A.R. Hevner (Citigroup/Hidden River Endowed Chair), W. Jank (Anderson Professor of Global Management); *Associate Professors:* M. Agrawal, D.J. Berndt, R.W. Collins, J. Jones, B. Padmanabhan (Anderson Professor of Global Management), T.L.

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Sincich, R.P. Will; Assistant Professor. H. Zhang; Instructors: M. Dummeldinger, R. Satterfield, B. Warner, W.W. Whitlock.

## • B.S. - MARKETING (MKT) (CIP = 52.1401) TOTAL DEGREE HOURS: 120

<http://www.usf.edu/business/undergraduate/major-marketing.aspx>

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 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



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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 General Business Administration only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Transitional Advising Center, SVC 2043, (813) 974-2645, 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 X0000, MAN X812)

ECO X013 Principles of Macroeconomics

ECO X023 Principles of Microeconomics

MAC X233 Elementary Calculus or MAC 2230

STA X023 Introductory Statistics or QMB X100 or STAX122 although STA X023 and QMB X100 are preferred).

\*Accounting majors must earn a C not C- in ACG 2021 & ACG 2071

## REQUIREMENTS FOR THE MAJOR IN MARKETING TOTAL MAJOR HOURS: 21

### Major requirements for the B.S. Degree:

#### Major Core (15 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 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 all Marketing classes including Basic Marketing (MAR 3023). At least 15 hours of upper level marketing core courses must be taken in residence at USF-Tampa.

**If a student chooses the concentration in Supply Chain Management, please see Concentration-specific courses.**

MAR 3823 Marketing Management

MAR 3613 Marketing Research

MAR 3400 Professional Selling

MAR 4333 Electronic/Promotion Management

MAR 4824 Marketing Management Problems

#### Major Electives (6 hours)

Additional upper-level marketing courses

### 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 all Marketing classes including Basic Marketing (MAR 3023).

### 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 for Undergraduate Research will assist students in understanding the various course options.

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## 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.

## SUPPLY CHAIN MANAGEMENT (SCMG) CONCENTRATION

<http://www.usf.edu/business/departments/marketing/supply-chain-management/undergraduate.aspx>

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.

### TOTAL MAJOR AND CONCENTRATION HOURS: 21

A student may choose to major in Marketing only or may choose to major in Marketing with a concentration in Supply Chain Management.

### Major requirements for the B.S. Degree:

#### Major Core (21 hours)

#### Required Marketing Courses (9 credit hours):

- MAR 3823 Marketing Management
- MAR 3613 Marketing Research
- MAR 4824 Marketing Management Problems

#### Required Supply Chain Management Concentration Courses (12 credit hours):

- ISM 3431 Operations & Supply Chain Processes
- MAR 3202 Supply Chain Management
- MAR 4213 Logistics & Physical Distribution
- MAR 4156 International 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" or higher (not C-) is required in all Marketing classes including Basic Marketing (MAR 3023).

### Residency Requirement

At least 15 hours of upper level marketing core courses must be taken in residence at USF-Tampa.

## REQUIREMENTS FOR THE MINOR IN MARKETING (MKT) (FOR BUSINESS MAJORS ONLY)

### TOTAL MINOR HOURS: 12

<http://www.usf.edu/business/undergraduate/minor-marketing.aspx>

The Marketing minor is available to all Undergraduate Muma College of Business students, except those majoring in Marketing.

#### Minor Core (12 hours)

- MAR 3823 Marketing Management
- Any three (3) upper level Marketing courses with a MAR prefix (excluding MAR 4824)

### 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 and 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.

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## MARKETING FACULTY

*Chairperson:* A. Kumar; *Professors:* T.B. Heath, D.J. Ortinau, R. Plank, P.J. Solomon, J.R. Stock; *Associate Professors:* A. Artis, D. Biswas, D.F. Davis, A. Kumar, B. Lafferty, S. Varki; *Assistant Professors:* R. Hooker, J. Mena; *Instructors:* C. Osborne, V.B. Panzer, J.M. Solomon, K. Walsh.

## REQUIREMENTS FOR THE MINOR IN ECONOMICS (ECN)

**TOTAL MINOR HOURS: 18**

<http://www.usf.edu/business/undergraduate/minor-economics.aspx>

### 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 all minor coursework at USF and in all minor courses completed at other institutions. All attempts will be included in the GPA unless grade forgiveness has been used.

### Residency Requirement

At least nine (9) hours must be taken in residence at USF Tampa.

## REQUIREMENTS FOR THE MINOR IN ENTREPRENEURSHIP (ETN) (FOR BUSINESS AND INDUSTRIAL ENGINEERING MAJORS ONLY) TOTAL MINOR HOURS: 12

<http://www.usf.edu/entrepreneurship/programs/undergraduate.aspx>

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.

The minor requires a total of 12 credit hours.

### Minor Core (12 hours)

ENT 4014 New Venture Formation

ENT 3613 Creativity & Innovation in Entrepreneurial Firms or EIN 4933 Selected Topics: Creativity in Technology

And two courses from the following:

EIN 4933 Selected Topics: Product Development

ENT 4424 Fundamentals of Venture Capital

ENT 4024 Small Business Management - Entrepreneurship

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.

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## REQUIREMENTS FOR THE MINOR IN ENTREPRENEURSHIP (ETB) (FOR NON-BUSINESS AND NON-INDUSTRIAL ENGINEERING MAJORS ONLY)

**TOTAL MINOR HOURS: 15**

<http://www.usf.edu/entrepreneurship/programs/undergraduate.aspx>

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.

The minor requires a total of 15 credit hours.

### Minor Core (15 hours)

ENT 3003 Principles of Entrepreneurship

ENT 4014 New Venture Formation

ENT 3613 Creativity & Innovation in Entrepreneurial Firms or EIN 4933 Selected Topics: Creativity in Technology

And two courses from the following:

EIN 4933 Selected Topics: Product Development

ENT 4424 Fundamentals of Venture Capital

ENT 4024 Small Business Management - Entrepreneurship

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.

## REQUIREMENTS FOR THE CERTIFICATE IN NATIONAL AND COMPETITIVE INTELLIGENCE

**TOTAL CERTIFICATE HOURS: 24**

<http://www.usf.edu/business/national-intelligence/undergraduate.aspx>

The Certificate Program in National and Competitive Intelligence is designed to promote students' analytical capabilities, not only improving their competitiveness in the employment process, but also giving them solid intellectual foundations for demanding professional careers. The program specifically helps prepare students for careers in government, especially intelligence positions, as well as analytical executive positions in the banking, insurance, and the pharmaceutical industries. The flexible program includes workshops and seminars which each student can fit with his or her major course of study. Those who complete the certificate program should be able to effectively gather, analyze, and evaluate information and present conclusions both orally and in writing.

### Certificate Core (14 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 Foundations of Professional Writing in Public Health

#### 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 Selected Countries/Areas

#### Analytical Skills and Critical Thinking Courses: (6 credit hour minimum):

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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.

AMH 3342 Globalization and U.S. Culture  
AMH 3512 U.S. Foreign Relations  
AMS 4804 Major Ideas: Vietnam War  
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  
CLP 4314 Health Psychology  
CWR 4812 Capstone Water Resources/Environmental Design  
ECH 4615 Product and Process Design  
EEL 4914 Senior Project Design  
EIN 4891 Capstone Design  
EML 4551 Capstone Design  
EUH 3206 Twentieth Century Europe  
EUH 3576 History of the Soviet Union to 1991  
FIN 3604 International Finance  
FIN 4414 Advanced Corporate Finance  
FIN 4443 Financial Policies and Strategies  
FIN 4504 Principles of Investments  
GEB 4890 Strategic Management and Decision Making  
GEY 4647 Ethical/Legal Issues in Aging  
HIS 3930 The Middle East  
HIS 3930 World War I  
HIS 3930 History of Terrorism  
HIS 3938 Global History of Communism and Post-Communism  
HIS 4104 Theory and Methods of History  
HIS 4936 Special Topics in History  
HIS 4936 Pro-Seminar in History  
HSC 4631 Critical Issues in Public Health  
INR 3011 Globalization  
INR 3018 World Ideologies  
INR 3038 International Wealth/Power  
INR 3102 American Foreign Policy  
INR 3202 International Human Rights  
INR 4083 Conflict in the World  
INR 4900 Directed Readings  
INR 4931 Selected Topics: East Asian Politics  
LAH 3200 Modern Latin America  
LAH 3430 History of Mexico  
LAH 3470 History of the Caribbean  
LAH 3480 History of Cub  
MHS 4731 Writing for Research and Publication in Behavioral and Community Sciences  
MAN 4631 Global Perspectives and Management Choices  
POS 3713 Empirical Political Analysis  
POT 4064 Contemporary Political Thought  
POT 4936 Environmental/Political Thought  
SYP 3000 Social Psychology  
SYP 4510 Sociological Aspects of Deviance  
SYP 4250 Drugs and Society  
SYP 4420 Consumer Culture  
SYA 4930 Environment and Society  
SYA 4935 Senior Seminar  
SYD 4410 Urban Sociology  
SYD 4250 Sociology of Education

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## **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 or better, C- is not sufficient.

## **Residency Requirement**

18 hours must be completed on the Tampa campus.

## **REQUIREMENTS FOR THE CERTIFICATE IN UNDERGRADUATE BUSINESS TOTAL CERTIFICATE HOURS: 15**

<http://www.usf.edu/business/undergraduate/certificate-general-business.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.

### **Certificate Core (15 hours)**

ACG 3074 Accounting for Non-Business Majors  
MAR 3023 Basic Marketing  
MAN 3025 Principles of Management  
CGS 2100 Computers in Business  
FIN 3005 Fundamentals of Business Finance

## **GPA Requirements**

A grade point average of 2.00 or better 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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The College of Education envisions itself as a leader in regional, national, and international education. Leadership in education encompasses:

- Collaboration that serves communities, institutions, and individuals
- Academic excellence
- Research, scholarship, and inquiry that renews the educational process
- Ethical practice

The mission of the College of Education is to offer challenging learning opportunities in a supportive and diverse environment, create and support research, scholarship, and inquiry in education, prepare the next generation of educators, scholars, and leaders for pK-12 and the professoriate through exemplary undergraduate and graduate degree programs, serve the community to offer programs that prepare professionals who work competently, collaboratively, and ethically to improve educational outcomes for all.

### Following are the undergraduate academic programs offered by the College of Education:

#### **B.A./B.S. option**

Exceptional Child Education with ESOL & Reading Endorsement (BEX)  
Mathematics Education (BMA)  
Middle School Mathematics (BMM)  
Physical Education (PET)  
Exercise Science (BPW)

Science Education (SCE)  
Biology Education (BSB)  
Chemistry Education (BSC)  
Middle School Science Education (BDS)  
Physics Education (BSY)

#### **Bachelor of Arts (B.A.)**

Foreign Language Edu with ESOL Endorsement (FLE)  
French (BFF)  
German (BFG)

Italian (BFI)  
Russian (BFR)  
Spanish (BFS)

#### **Bachelor of Science (B.S.)**

Early Childhood Edu Pre-Kindergarten/Primary (BEC)  
Elementary Education (BEE)

English Education with ESOL Endorsement (BEN)  
Social Science Education (BSS)

#### **Minors**

Educational Foundations and Research (EFR)  
Foreign Language Education (FLE)

Science of Physical Activity (SPED)

#### **Educator Preparation Program Admission**

Students who wish to teach in a particular subject area or field should begin preliminary coursework during their first year in college. Students are eligible for admission to the College of Education when they have satisfied all admission requirements and have applied for admission through Student Academic Services (EDU 106). Admission requirements include the University's Foundations of Knowledge and Learning Core Curriculum, state-mandated common prerequisites, the appropriate GPA, and passing PRAXIS I, CLAST (depending on the date taken and passed) or General Knowledge Test scores.

Admission to an educator preparation program is contingent upon meeting the following college requirements:

1. Completion of a College of Education application form
2. Completion of 36 credit hours of General Education Core and Foundations of Knowledge and Learning Core Curriculum requirements. (See the "Academic Policies and Procedures - Foundations of Knowledge and Learning Core Curriculum Requirements" section of the catalog.) FKL courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog.
3. Completion of PRAXIS I, CLAST (depending on the date taken and passed) or General Knowledge Test with passing scores (No exemptions or waivers are acceptable). Successful completion of all sections of the General Knowledge Test (GKT) during the first semester of admission is required. Failure to complete successfully all sections of the GKT during the first semester of admission may result in revocation of admission into the College of Education.
4. Although no longer required for admission to the College of Education, students are still encouraged to take the ACT or SAT. Many existing scholarships still require these scores.
5. Completion of State Mandated Common Prerequisites. Note: The following prerequisites are required for all students in teacher education majors.
  - EDF X005 Introduction to the Teaching Profession
  - EDF X085 Teaching Diversity for Educators

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- EME X040 Introduction to Technology for Educators

**NOTE: EDF X005 is a prerequisite for EDF X085**

In addition to EDF X085, a minimum of six (6) semester hours with an international or diversity focus is required. Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. In addition to the courses listed below under USF International/Diversity Courses, FKLs that satisfy the area of Human and Cultural Diversity in a Global Context are applicable. Foreign language courses may be used to meet this requirement.

**USF International/Diversity Courses Credits**

AMH	2010	American History I
AMH	2020	American History II
ANT	2000	Introduction to Anthropology
ANT	2410	Cultural Anthropology
ARH	2050	History of Visual Arts I
ARH	2051	History of Visual Arts II
EUH	2011	Ancient History I
EUH	2022	Medieval History II
EUH	2031	Modern European History II
GEO	2371	Introduction to Earth Systems Science
LIT	2010	Introduction to Fiction
LIT	2040	Introduction to Drama
MUH	2051	Folk and Traditional Music of World Cultures
REL	2300	Introduction to World Religions
SYG	2000	Introduction to Sociology

6. Completion of Foundations of Knowledge and Learning Core Curriculum requirements: Foundations of Knowledge and Learning Core Curriculum courses will be determined by the Florida College System institution or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Counseling Manual.

## Exercise Science Admission

Exercise Science major is a full-time program that is a limited access program. Therefore, enrollment is limited to top ranking students each fall semester. Selection of students is based on the following criteria:

1. Must apply to the program by the published deadline. See <http://www.coedu.usf.edu/main/sas/AdmissionRequirements.html>
2. A minimum overall GPA of 2.50
3. Completion of all statewide common course prerequisites with a C- or higher by the deadline for applying to the program
4. 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.

**Important: Some programs accept a limited number of students. Additionally, certain programs admit students only in a specified semester. Information regarding admission requirements for programs may be obtained from Student Academic Services (EDU 106).**

## Undergraduate Advising Information

Student Academic Services (SAS) offers developmentally appropriate academic and student services to undergraduates and Master of Arts in Teaching students related to their recruitment, retention, progression, graduation, and application for teacher certification. SAS is committed to serving the mission of the College of Education and identifies student success as its guiding value.

Students interested in education are encouraged to make an appointment with an academic advisor in Student Academic Services to learn more about how their skills, abilities, and interests connect with programs in the College of Education

While students are ultimately responsible for knowing and fulfilling all university, college, and degree program requirements for graduation, the advisors in SAS are able to facilitate a student's understanding of academic policy and procedure. Once admitted to the college, students are encouraged to seek advising each term.

Appointments can be made using our online appointment scheduler at <http://www.usf.edu/education/admissions/index.aspx>. For additional contact information, please call the SAS office at (813) 974-2979 or visit the web site at <http://www.coedu.usf.edu/sas/>.

## Advising Office

Student Academic Services is located on the Tampa campus of USF in EDU 106. The office serves undergraduate and Master of Arts in Teaching students in the College of Education. The office is open from 8:00 AM to 5:00 PM



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weekdays and closed on University holidays. During peak registration times we may offer walk-in advising. Check the website for up to date information on our hours of operation and walk in availability.

Phone: (813) 974-2979

Fax: (813) 974-3391

## Professional Disposition Standards

As educator preparation programs leading to teacher certification require professional dispositions set forth by the professions Code of Ethics for educators. Students are expected to be familiar with and uphold the standards outlined in the Professional Disposition Statement of the college. This statement of expectations can be found at the following site: <http://www.coedu.usf.edu/main/sas/CurrentStudents.htm>.

## Field Experience, Practicums, Final internship:

Students in an educator preparation program will need to complete field experience beginning in EDF X005 and EDF X085. These are prerequisite courses required for admission to the College of Education for all educator preparation programs. Once admitted, the number of field experiences will differ depending upon the program. These field based courses may be called practicums, methods, or internships. All educator preparation programs culminate with a full-time final internship.

Students in Exercise Science will also be required to complete an internship experience which will allow them to apply their skills and knowledge in the field. For more information on the internship in Exercise Science, review the section of the catalog related to the Exercise Science program or speak with the program coordinator.

## Social Security Number

Students will need a social security number before enrolling in the first day of classes for field experience courses. For International students, please speak with International Student Services regarding options for obtaining a social security number. Obtaining a social security number is ultimately the student's responsibility.

## Background Checks and Fingerprinting

Students enrolled in courses requiring field experience may be required to undergo a background check and fingerprinting depending on the school district or agency and the amount of time spent in the field. Depending upon the outcome of a 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 their program or 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.

## Grade Minimums Each Term

Students admitted to all undergraduate programs in the College of Education are required to earn a C- or higher in all upper-level major coursework. In addition, they must maintain an overall GPA of 2.5 to continue to the next term. Students in educator preparation programs must also earn a minimum 2.5 in their Professional Core and Specialization coursework to continue to the next term.

## Grades in Final Internship

Grades in final internship are determined by the university supervisor in collaboration with the collaborating teacher. Grades in final internship are linked to passing all necessary portions of the Florida Teacher Certification Exam. Students who do not submit official passing scores for all necessary portions of the Florida Teacher Certification Exam (including Professional Educator and Subject Area portions of the test) to Student Academic Services by the published deadline will risk earning an incomplete in their final internship. Students with an incomplete or failing grade in final internship will not be permitted to graduate.

## 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.

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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.

## ESOL Endorsed Programs

The College of Education offers a full ESOL Endorsement for all Foreign Language Education major graduates. The special requirements for ESOL endorsement through infusion are as follows:

1. Successful completion of FLE 4317 and FLE 4316 with a minimum grade of 70percent or better on part one and part two of the ESOL Comprehensive Exam administered in the two ESOL courses;
2. Successful completion of a 20-hour early ESOL field experience in FLE 4317;
3. Successful completion of a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over 10 days; and
4. Successful completion of an ESOL binder, containing all ESOL-related assignments taken in the College of Education and an ESOL-performance Standards Checklist that documents the completion of the necessary number of standards. FLE students must also take TSL 4081 ESOL 2, Literacy Development in English Language Learners which is not part of the ESOL requirement for the FLE program, but does meet the reading requirement.

## Accreditation

The College of Education is accredited by the National Council for Accreditation of Teacher Education (NCATE).

All educator preparation programs must meet the requirements of Chapter 6A-5.066 Rules of the State Board of Education of Florida, and have "Approved Program" status. The College of Education is committed to a continuous and systematic examination of the professional program of educator preparation. Each subdivision of the college maintains professional standards by participating in nationally-certified program reviews and also through ongoing departmental appraisals of learning outcomes.

Educator preparation programs are aligned with the Florida Educator Accomplished Practices and each program has an assessment program in place to monitor student progress toward these standards. Programs that do not lead to teacher certification are aligned with their respective professional standards and have assessment programs in place to monitor student progress toward those standards. Students in educator preparation programs leading to teacher certification are required to complete critical tasks/assignments in several of their professional preparation courses. Educator preparation programs require students to submit these critical tasks/assignments in an electronic portfolio. Therefore, a yearly access code to the electronic portfolio must be purchased by the student. In courses that have critical tasks, students must achieve a satisfactory score in order to pass the course.

## Joint Programs with the College of Arts and Sciences

The College of Education offers several programs in Secondary Education that are joint programs. This means we employ a collaborative approach to teacher preparation by The College of Education offering the core professional courses for secondary programs while the College of Arts and Sciences offers the content courses needed for the area of specialization.

The College of Education collaborates with College of The Arts to offer an undergraduate degree in Music Education. See College of The Arts for more information.

## Department of Psychological and Social Foundations of Education

The Department of Psychological and Social Foundations of Education does not offer a specific undergraduate major or degree program, but provides courses for all students majoring in the wide array of undergraduate programs available in the College of Education. These courses contribute to the students' understanding of the general education enterprises and are considered foundational to later professional specialization. Consequently, these courses should be taken early in the professional program, typically in the junior year. In addition, the department offers an undergraduate minor in Educational Foundations and Research.

### Prerequisite Pre-Education courses (9 credit hours):

- EDF 2005 Introduction to the Teaching Profession
- EDF 2085 Introduction to Diversity for Educators
- EME 2040 Introduction to Technology for Educations

### Professional Education Core (34-39 credit hours):

- EDF 3122 Learning and the Developing Child
- EDF 3214 Human Development and Learning
- EDF 3514 History of Education in the United States
- EDF 3604 Schools and Society
- EDF 4111 Child Growth and Learning
- EDF 4131 Learning and the Developing Adolescent

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## In addition the department offers:

EDF 3228	Human Behavior and Environmental Selection
EDF 4905	Independent Study: Educational Foundations
EDF 4909	Directed Study: Educational Foundations
EDF 5607	Trends in Education Politics

The Counselor Education program offers undergraduate courses focusing on human services skill development, decision-making and personal growth. Course content contributes to student success in academic and personal endeavors and may serve to orient students to post-graduate work in human services fields.

MHS 4052	Human Relations Skills in Counseling
MHS 4905	Independent Study: Guidance and Counseling Education
SDS 4040	Introduction to Student Personnel Work in Higher Education

## Department of Educational Measurement and Research

The Department of Educational Measurement and Research offers EDF 4430, Measurement for Teachers, that provides students with the measurement and evaluation skills and dispositions they need to be effective classroom teachers. Students use curriculum-based, learner-based, context-based, and professionally-based standards to develop and use objective, product, and live performance tests; attitude observation and self-report assessments; they analyze and evaluate learner progress, their tests, and their instruction; and they communicate learner progress using portfolios, grades, and standardized test profiles. The course is delivered using web-based distance and web-enhanced laboratory formats.

## • B.S. - EARLY CHILDHOOD EDUCATION: PRE KINDERGARTEN/PRIMARY (BEC) (CIP = 13.1210 - TRACK 1 OF 3) TOTAL DEGREE HOURS: 120

[http://www.coedu.usf.edu/main/departments/ce/early\\_childhood/bachelors.php](http://www.coedu.usf.edu/main/departments/ce/early_childhood/bachelors.php)

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

These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

EDF X005	Introduction to the Teaching Profession
EDF X085*	Introduction to Diversity for Educators
EME X040	Introduction to Technology for Educators

\*In addition to EDF X085, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the Florida College System institution or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

## 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:
  - o Chalk and Wire access codes that are purchased at the bookstore
  - o Transportation to and from school sites required in courses and internships
  - o Criminal background checks and fingerprinting for internships
  - o Assignments in some classes (e.g., printing/binding of group project reports, academic and professional portfolio, digital recording equipment, etc.)

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## 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.
- 5.

## REQUIREMENTS FOR THE MAJOR IN EARLY CHILDHOOD EDUCATION: PRE KINDERGARTEN/PRIMARY TOTAL MAJOR HOURS: 73

**Major requirements for the B.S. Degree:**

**Major Core (73 hours)**

### Professional Education Core:

EDF 4124	Child Growth and Learning
EEC 4941	Field Experience I
EEC 4942	Field Experience II
EEC 4943	Field Experience III
EEC 4940	Final Internship
EEC 4936	Senior Seminar in Early Childhood Education (Capstone)
TSL 4080	Curriculum and Pedagogy of ESOL
TSL 4251	Applying Linguistics to ESOL Teaching and Testing

### Specialization:

EDG 4909	Directed Study: Elementary Education (repeatable course)
EDG 4909	Assessment, Evaluation, Reporting Process
EEC 4203	Programs for Young Children
EEC 4211	Science for Young Children
EEC 4321	Mathematics for Young Children
EEC 4212	Integrated Curriculum: Social Sciences/Humanities & Art
EEC 4303	Creative and Affective Experiences for Young Children
EEC 4307	Cognitive Experiences for Young Children
EEC 4408	Child, Family & Teacher Relations
EEC 4604	Classroom Management and Guidance of Young Children
EEC 4706	Language and Emerging Literacy
HSC 3301	Health, Safety, Nutrition and Motor Skills for the Young Child
RED 4310	Reading & Learning to Read
EEC 4008	Teaching Literature and Writing in Early Childhood

In addition to the courses listed, students must complete "Preliminary Requirements for Students entering Teach Education Programs." All students must have completed and passed all sections of the General Knowledge Test (GKT) prior to being admitted.

### General Education Core and Foundations of Knowledge and Learning (FKL) Requirements:

The General Education and Foundations of Knowledge and Learning Core Curriculum (General Education) courses will be determined by the Florida College System institution or university where the student currently is earning the Associate in Arts or baccalaureate degree and will be published in the institution's existing catalog or in the Florida College System institution Counseling Manual. (See the "Academic Policies and Procedures - Foundations of Knowledge and Learning Core Curriculum Requirements" section of the catalog.)

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## Foundations of Knowledge and Learning (FKL) Exit Requirement

- EEC 4936 Senior Seminar in Early Childhood Education (Capstone)  
 EEC 4008 Teaching Literature and Writing in Early Childhood (Writing Intensive)

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>ENC 1101</u> Composition I	3	! <u>EDF 2005</u> Introduction to the Teaching Profession	3
<u>CAFA</u> FKL/Gen Ed Fine Arts	3	! <u>ENC 1102</u> Composition II	3
<u>SGEH</u> General Education Core Humanities	3	<u>SGEN</u> General Education Core Natural Sciences	3
! <u>SGEM</u> General Education Core Mathematics	3	! <u>CAMA</u> or <u>CAQR</u> (Take a CAMA or CAQR course, depending on what course was taken for the Mathematics core.)	3
Semester Hours:	12	Semester Hours:	12

Summer	Credit Hours
Study Abroad (Optional)	0
Semester Hours:	0

Semester 3	Credit Hours	Semester 4	Credit Hours
! <u>EDF 2085</u> Introduction to Diversity for Educators	3	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
! <u>EME 2040</u> Introduction to Technology for Educators	3	<u>HHCP</u> FKL/Gen Ed Human Historical Context and Process	3
<u>CANL</u> or <u>CANP</u> (Take a CANP or CANL course, depending on what course was taken for the Natural Science core.)	3	<u>CAHU</u> FKL/Gen Ed Humanities	3
<u>SGES</u> General Education Core Social Sciences	3	<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3
Gordon Rule Communication	3	! Complete General Knowledge Test Complete International Diversity Req. Gordon Rule Communication	3
Semester Hours:	12	Semester Hours:	12

Summer	Credit Hours
Apply to College of Education	0
Semester Hours:	0

Semester 5	Credit Hours	Semester 6	Credit Hours
! <u>EDF 4124</u> Child Growth and Learning	3	! <u>EDG 4909</u> Directed Studies	3
! <u>EEC 4307</u> Cognitive Experiences for Young Children	3	! <u>TSL 4080</u> ESOL 1 - Curriculum and Pedagogy of ESOL	3
! <u>EEC 4303</u> Creative and Affective Experiences for Young Children	3	! <u>EEC 4942</u> Field Experience II	3
! <u>EEC 4941</u> Field Experience I	3	! <u>EEC 4203</u> Programs for Young Children	3
! <u>EEC 4706</u> Language and Emerging Literacy	3	! <u>RED 4310</u> Reading and Learning to Read	3
Semester Hours:	15	Semester Hours:	15

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<b>Summer</b>		<b>Credit Hours</b>
! <u>EEC 4408</u> Child, Family & Teacher Relations		3
! <u>HSC 3301</u> Health, Safety, Nutrition and Motor Skills for the Young Child		3
! <u>EEC 4008</u> Teaching Literature and Writing in Early Childhood		3
Apply for Final Internship		
! <u>EEC 4604</u> Classroom Management and Guidance of Young Children		3
	Semester Hours:	12

<b>Semester 7</b>	<b>Credit Hours</b>	<b>Semester 8</b>	<b>Credit Hours</b>
! <u>EEC 4321</u> Mathematics for Young Children	3	! <u>EEC 4936</u> Senior Seminar in Early Childhood Education	3
! <u>EDG 4909</u> Directed Studies	2	! <u>EEC 4940</u> Internship: Early Childhood	10
! <u>TSL 4251</u> ESOL 3 - Applying Linguistics to ESOL Teaching and Testing	3	Apply for Graduation	
! <u>EEC 4943</u> Field Experience III	3	Complete ESOL Binder	
! <u>EEC 4211</u> Science for Young Children	3	Complete FTCE: Subject Area and Prof. Ed.	
! <u>EEC 4212</u> Integrated Curriculum: Social Sciences/Humanities & Art	3	Semester Hours:	13
	Semester Hours:		
	17		

## 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 for Undergraduate Research will assist students in understanding the various course options.

## EARLY CHILDHOOD EDUCATION FACULTY

*Chairperson:* A. Cranston-Gingras; *Professors:* I. Berson, R. Brindley, J. King, J. Richards, D. Yendol-Hoppey; *Associate Professors:* J. Blank, D. Dennis, J. Schneider; *Assistant Professors:* R. Burns, J. Davis, S. Han, J. Jacobs, S. van Ingen; *Instructors:* B. Green, R. Meadows, D. Stewart.

### • B.S. - ELEMENTARY EDUCATION (BEE) (CIP = 13.1202) TOTAL DEGREE HOURS: 120

[http://www.coedu.usf.edu/main/departments/ce/elementary\\_education/bachelors.php](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

These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

- EDF X005 Introduction to the Teaching Profession (3)
- EDF X085\* Introduction to Diversity for Educators (3)
- EME X040 Introduction to Technology for Educators (3)

\*In addition to EDF X085, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the Florida College System institution or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

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## 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:
  - o Chalk and Wire access codes that are purchased at the bookstore
  - o Transportation to and from school sites required in courses and internships
  - o Criminal background checks and fingerprinting for internships
  - o 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.
- 5.

## REQUIREMENTS FOR THE MAJOR IN ELEMENTARY EDUCATION TOTAL MAJOR HOURS: 72

### Major requirements for the B.S. Degree:

#### Major Core (72 hours)

##### Professional Education:

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	Teacher Research for Student Learning

##### Specialization:

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

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## Zero-Credit Hour Undergraduate Research Experience:

- IDS 2912 Undergraduate Research Experience
- IDS 4914 Advanced Undergraduate Research Experience

In addition to the courses listed, students must complete "Preliminary Requirements for Students entering Teacher Education Programs." All students must have completed and passed all sections of the General Knowledge Test (GKT) prior to being admitted.

## General Education Core and Foundations of Knowledge and Learning (FKL) Requirements

General Education Core and Foundations of Knowledge and Learning Core Curriculum (General Education) courses will be determined by the Florida College System institution or university where the student currently is earning the Associate in Arts or baccalaureate degree and will be published in the institution's existing catalog or in the Florida College System institution Counseling Manual. (See the "Academic Policies and Procedures - Foundations of Knowledge and Learning Core Curriculum Requirements" section of the catalog.)

Students are advised that the Elementary Education specialization will require an enrollment of more than the traditional four semesters of the junior and senior years in order to complete the program specialization courses and the required sequence of internship.

The order in which these courses are to be taken is designated in the program of study.

## Foundations of Knowledge and Learning (FKL) Exit Requirement

- EDE 4940 Internship: Elementary Education (Capstone)
- EDE 4802 Teacher Research for Student Learning (Writing Intensive)

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>ENC 1101</u> Composition I	3	! <u>EDF 2005</u> Introduction to the Teaching Profession	3
<u>SGEH</u> General Education Core Humanities	3	! <u>ENC 1102</u> Composition II	3
<u>SGEM</u> General Education Core Mathematics	3	! <u>CAMA</u> or <u>CAQR</u> (Take a CAMA or CAQR course, depending on what course was taken for the Mathematics core.)	3
<u>SGES</u> General Education Core Social Sciences	3	<u>CAHU</u> FKL/Gen Ed Humanities	3
Semester Hours:	12	Complete International Diversity Req.	
		Semester Hours:	12
<b>Summer</b>		<b>Credit Hours</b>	
Study Abroad (Optional)			
		Semester Hours:	0
Semester 3	Credit Hours	Semester 4	Credit Hours
! <u>EDF 2085</u> Introduction to Diversity for Educators	3	<u>CAFA</u> FKL/Gen Ed Fine Arts	3
! <u>EME 2040</u> Introduction to Technology for Educators	3	<u>CANL</u> or <u>CANP</u> (Take a CANP or CANL course, depending on what course was taken for the Natural Science core.)	3
<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3	<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3
<u>SGEN</u> General Education Core Natural Sciences	3	Complete General Knowledge Test	
Gordon Rule Communication		Complete International Diversity Req.	
Semester Hours:	12	<u>HHCP</u> FKL/Gen Ed Human Historical Context and Process	
		<u>LAE 4424</u> Teaching Children's Literature	3



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Gordon Rule Communication

Semester Hours: 12

## Summer

## Credit Hours

Apply to College of Education

Semester Hours: 0

Semester 5	Credit Hours	Semester 6	Credit Hours
! <u>RED 4312</u> Emergent Literacy Strategies and Assessment	3	! <u>RED 4724</u> Intermediate Literacy Strategies and Assessment I	3
! <u>EDE 4941</u> Childhood Education Internship Level I	3	! <u>EDE 4942</u> Childhood Education Internship Level II	3
! <u>TSL 4080</u> ESOL 1 - Curriculum and Pedagogy of ESOL	3	! <u>TSL 4081</u> ESOL 2 - Literacy Development in English Language Learners	3
! <u>EDP 3273</u> Learning and Development within the School Context	3	! <u>EDE 4301</u> Instructional Planning for Diverse Learners	3
Semester Hours:	12	! <u>MAE 4310</u> Teaching Elementary School (K-6) Mathematics I	3
		! <u>SCE 4310</u> Teaching Elementary School Science	3
		<u>IDS 2912</u> Undergraduate Research Experience	
		Semester Hours:	18

## Summer

## Credit Hours

<u>EDE 4943</u> Alternative Setting Field Experience	3
<u>LAE 4311</u> Teaching Print and Multimodal Texts in Elementary Education	3
<u>TSL 4251</u> ESOL 3 - Applying Linguistics to ESOL Teaching and Testing	3
<u>EDF 4430</u> Measurement For Teachers	3
Apply for Final Internship	
Study Abroad Cambridge Program (Optional)	
Semester Hours:	12

## Semester 7

## Credit Hours

! <u>EDE 4504</u> Creating and Differentiating Learning Environments	3
! <u>EDE 4944</u> Childhood Education Internship Level III	3
! <u>EEX 4070</u> Integrating Exceptional Students in the Regular Classroom	3
! <u>SSE 4313</u> Teaching Elementary (K-6) Social Studies	3
! <u>MAE 4326</u> Teaching Elementary School (K-6) Mathematics II	3
Semester Hours:	15

## Semester 8

## Credit Hours

! <u>EDE 4940</u> Internship: Elementary Education	12
Apply for Graduation	
Complete ESOL Binder	
Complete FTCE: Subject Area & Prof. Ed.	
<u>IDS 4914</u> Advanced Undergraduate Research Experience	
<u>EDE 4802</u> The Teacher as Researcher	3
Semester Hours:	15

## 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.

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## ELEMENTARY EDUCATION FACULTY

Chairperson: A. Cranston-Gingras; Professors: D. Yendol-Hoppey; Associate Professors: D. Dennis, Assistant Professors: R. Burns, J. Davis, J. Jacobs, S. van Ingen; Instructors: K. Tricarico.

### • B.S. - ENGLISH EDUCATION WITH ESOL ENDORSEMENT (BEN) (CIP = 13.1305) TOTAL DEGREE HOURS: 120

<http://www.coedu.usf.edu/main/departments/seced/English/Englishhome.html>

English Education is a field of study that includes the teaching and learning of the English language arts. This includes the preparation of teachers who, in turn, prepare middle and secondary school students to be creative, literate individuals who contribute to the cultural, social, and economic health of their communities. The objective of the program is to provide prospective teachers with the skills required to teach 6-12 students to critically read, write, speak, listen, and view, using literature and language as the vehicle for learning

### STATE MANDATED COMMON COURSE PREREQUISITES

These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

EDF	X005	Introduction to the Teaching Profession (3)
EDF	X085*	Teaching Diversity for Educators (3)
EME	X040	Introduction to Technology for Educators (3)
**SPC	X608/SPC or X017	Public Speaking (3)
*ENG	X101***	(3)
**ENG	X102***	(3)

\*\*Any Literature Course that has a prefix of AML or ENL or LIT (3)

\*In addition to EDF X085, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the Florida College System institution or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

\*\*Course may apply to Foundations of Knowledge and Learning (FKL) Core Curriculum coursework.

\*\*\*ENC X101 and ENC X102 or equivalent composition.

### 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 (WRIN)
EDF	3214	Human Development and Learning
EDF	4430	Measurement for Teachers
EEX	4070	Integrating Exceptional Students in the Regular Classroom
FLE	4317	Teaching LEP Students K-12
FLE	4316	Language Principles and Acquisition
RED	4335	A Literacy Course Teaching Reading in Secondary English Curriculum
ESE	4322	Classroom Management

#### Specialization:

ENC	3310	Expository Writing
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#### One of the following:

LIT	3103	Great Literature of the World (Exit)
WST	4410	Third World Women Writers (Exit)
LAE	4469	Teaching World Literature to Middle and Secondary Students

#### One of the following:

AML	3031	American Literature to 1860
AML	3032	American Literature 1860-1912
AML	3051	American Literature 1912-1945

#### One of the following:

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ENL 3015 British Literature to 1616  
 ENL 3230 British Literature 1616-1780  
 ENL 3251 British Literature 1780-1900  
 ENL 3273 British Literature 1900-1945

**One of the following:**

LIT 3383 The Image of Women in Literature  
 LIT 4386 British and American Literature by Women (Exit)

**One of the following:**

LIN 3010 Introduction to Linguistics  
 ENG 4060 History of the English Language

**One of the following:**

LIN 2670 English Grammar and Usage  
 LIN 4680 Structure of American English

**Additional Specialization:**

LAE 4464 Adolescent Literature for Middle and Secondary Students  
 LAE 4323 Methods of Teaching English: Middle School (Fall Semester Only)  
 LAE 4530 Methods of Teaching English: Practicum (Fall Semester Only)  
 LAE 4335 Methods of Teaching English: High School (Spring Semester Only)  
 LAE 4936 Senior Seminar in English Education  
 LAE 4940 Internship: English Education

**Recommended Courses:**

Literature Course (3 hours) - select from LIT, AML, ENL (LIT 2000 or ENL 3323 recommended)  
 English Electives (9 hours) - to include advanced composition and mediacy (CRW 2100 or CRW X111 and MMC 2100 or ENC X310 and LIT 2046 or LIT X301 recommended)

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.

**General Education Core and Foundations of Knowledge and Learning (FKL) Requirements**

General Education Core and FKL Core Curriculum (General Education) courses will be determined by the Florida College System institution or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Florida College System institution Counseling Manual. (For USF, see "Academic Policies and Procedures – Foundations of Knowledge and Learning Core Curriculum" section of the catalog.)

**Foundations of Knowledge and Learning (FKL) Exit Requirement**

LAE 4936 Senior Seminar in English Education (CPST)  
 EDF 3604 Schools and Society (WRIN)

**Eight Semester Plan**

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>EDF 2005</u> Introduction to the Teaching Profession	3	! <u>EME 2040</u> Introduction to Technology for Educators	3
! <u>SPC 2608</u> Public Speaking	3	! <u>ENC 1102</u> Composition II	3
! <u>ENC 1101</u> Composition I	3	<u>HHCP</u> FKL/Gen Ed Human Historical Context and Process	3
<u>CAFA</u> FKL/Gen Ed Fine Arts	3		

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<u>SGEM</u> General Education Core Mathematics	3	<u>CAMA</u> or <u>CAQR</u> (Take a <u>CAMA</u> or <u>CAQR</u> course, depending on what course was taken for the Mathematics core.)	3
Semester Hours:	15		

<u>SGEH</u> General Education Core Humanities	3
Complete International Diversity Req.	
Semester Hours:	15

**Summer**  
Study Abroad (Optional)

**Credit Hours**  
Semester Hours: 0

Semester 3	Credit Hours
<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
<u>SGEN</u> General Education Core Natural Sciences	3
<u>SGES</u> General Education Core Social Sciences	3
<u>ENL X</u> or <u>AML X</u> or <u>LIT X</u>	3
Semester Hours:	12

Semester 4	Credit Hours
! <u>EDF 2085</u> Introduction to Diversity for Educators	3
<u>AML 3031</u> or <u>AML 3032</u> or <u>AML 3051</u>	3
<u>ENC 3310</u> Expository Writing	3
<u>CANL</u> or <u>CANP</u> (Take a <u>CANP</u> or <u>CANL</u> course, depending on what course was taken for the Natural Science core.)	3
<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3
Complete General Knowledge Test	
Semester Hours:	15

**Summer**  
EDF 3604 Schools and Society  
LIT 3383 The Image of Women in Literature  
Apply to College of Education

**Credit Hours**  
3  
3  
Semester Hours: 6

Semester 5	Credit Hours
! <u>LAE 4323</u> Methods of Teaching English: Middle School	3
! <u>FLE 4317</u> Teaching Students with Limited English Proficiency	3
<u>ENL 3015</u> or <u>ENL 3230</u> or <u>ENL 3251</u> or <u>ENL 3273</u>	3
<u>EDF 3214</u> Human Development and Learning	3
<u>ENG 4060</u> or <u>LIN 3010</u>	3
Semester Hours:	15

Semester 6	Credit Hours
! <u>LAE 4464</u> Adolescent Literature for Middle and Secondary Students	3
! <u>LAE 4335</u> Methods of Teaching English: High School	3
<u>ESE 4322</u> Classroom Management for Diverse School and Society	3
<u>EDF 4430</u> Measurement For Teachers	3
Semester Hours:	12

**Summer**  
LIT 3103 Great Literature of the World

**Credit Hours**  
3  
Semester Hours: 3

**Semester 7**  
**Credit Hours**

**Semester 8**  
**Credit Hours**

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! <u>FLE 4316</u> Language Principles and Acquisition	3	! <u>LAE 4936</u> Senior Seminar in English Education	3
! <u>LAE 4530</u> Methods of Teaching English: Practicum	3	! <u>LAE 4940</u> Internship: English Education	10
! <u>RED 4335</u> Teaching Reading in Secondary English Curriculum	3	Apply for Graduation	
<u>LIN 2670</u> or <u>LIN 4680</u>	3	Complete ESOL Binder	
<u>EEX 4070</u> Integrating Exceptional Students in the Regular Classroom	2	Complete FTCE: Subject Area and Prof. Ed.	
Semester Hours:	14	Semester Hours:	13

## 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 for Undergraduate Research will assist students in understanding the various course options.

## ENGLISH EDUCATION WITH ESOL ENDORSEMENT FACULTY

*Chairperson:* A. Cranston-Gingras; *Professors:* M. Berson, B.C. Cruz, J.A. Duplass, A.P. Feldman, J.H. Johnston, J.F. Kaywell, G. Kersaint, B.S. Spector, D.R. Thompson, S.J. Thornton, D. Zeidler; *Emeritus Professors:* J.H. Applegate, D.J. Puglisi, H.E. Steiner; *Associate Professors:* P.L. Jones, D. Kim, J. Liontas, *Emeritus Associate Professors:* J. Golub, J.A. White; *Assistant Professors:* S. Colomer, C. Ellerbrock, S. Eskelson, B. Herman, V. Pitts-Bannister, R. Sears, E. Vomvoridi-Ivanovic; *Instructors:* P.C. Smith, T. Walseth; *Visiting Assistant Professor:* L. Rodeslier.

## • B.A. OR B.S. - EXCEPTIONAL CHILD EDUCATION WITH ESOL & READING ENDORSEMENT (BEX) (CIP = 13.1001) TOTAL DEGREE HOURS: 120

<http://www.coedu.usf.edu/main/departments/sped/Bachelor/BADegree.html>

The undergraduate program is a state-approved program that leads to certification in Exceptional Student Education (ESE).

### STATE MANDATED COMMON COURSE PREREQUISITES

These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

- EDF X005 Introduction to the Teaching Profession (3)
- EDF X085\* Teaching Diversity for Educators (3)
- EME X040 Introduction to Technology for Educators (3)

\*In addition to EDF X085, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

## REQUIREMENTS FOR THE MAJOR IN EXCEPTIONAL CHILD 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 4941 Practicum in ESE  
Level 1 (1 hour); Level 2 (1 hour);  
Level 3 (1 hour); Level 4 (1 hour)
- EDF 3122 Learning and the Developing Child
- EDF 3604 School and Society (Exit-WRIN)
- EDF 4430 Measurement for Teachers
- FLE 4316 Language Principles and Acquisition

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FLE 4317	Teaching LEP Students K-12
EEX 4944	Internship: Exceptional Student Education

## **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	Exceptional Education Core Competencies: Context and Foundations
EEX 4240	Exceptional Education Core Competencies: Beginning to Teach
EEX 4241	Exceptional Education Core Competencies: Creating Effective Learning Environments
EEX 4242	Exceptional Education Core Competencies: Enhancing Expertise in Teaching and Instructional Decision Making
EEX 4244	Exceptional Education Core Competencies: Becoming a Special Education Teacher
EEX 4742	Narrative Perspectives on Exceptionality: Cultural and Ethical Issues (Exit)
LAE 4314	Teaching Writing
MAE 4310	Teaching Elementary School Mathematics I
RED 4310	Early Literacy Learning
RED 4511	Linking Literature Assessment to Instruction

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 4511, RED 4310, and LAE 4314 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.

## **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.

## **General Education Core and Foundations of Knowledge and Learning (FKL) Requirements**

General Education Core and Foundations of Knowledge and Learning Core Curriculum courses (General Education) will be determined by the Florida College System institution or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Counseling Manual. (For USF, see "Academic Policies and Procedures - Foundations of Knowledge and Learning Core Curriculum Requirements" section of the catalog.)

## **Foundations of Knowledge and Learning (FKL) Exit Requirement**

EDF 3604	School and Society (Writing Intensive)
EEX 4944	Internship: Exceptional Student Education (Capstone)

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## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>ENC 1101</u> Composition I	3	! <u>EDF 2005</u> Introduction to the Teaching Profession	3
<u>SGEH</u> General Education Core Humanities	3	! <u>ENC 1102</u> Composition II	3
! <u>SGEM</u> General Education Core Mathematics	3	! <u>CAMA</u> or <u>CAQR</u> (Take a CAMA or CAQR course, depending on what course was taken for the Mathematics core.)	3
<u>SGES</u> General Education Core Social Sciences	3	<u>CAHU</u> FKL/Gen Ed Humanities	3
Semester Hours:	12	International Diversity Focus Course	3
		Semester Hours:	15

Summer	Credit Hours
Study Abroad (Optional)	
Semester Hours:	0

Semester 3	Credit Hours	Semester 4	Credit Hours
! <u>EDF 2085</u> Introduction to Diversity for Educators	3	<u>CAFA</u> FKL/Gen Ed Fine Arts	3
! <u>EME 2040</u> Introduction to Technology for Educators	3	<u>HHCP</u> FKL/Gen Ed Human Historical Context and Process	3
<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3	<u>CANL</u> or <u>CANP</u> (Take a CANP or CANL course, depending on what course was taken for the Natural Science core.)	3
<u>SGEN</u> General Education Core Natural Sciences	3	<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3
Gordon Rule Communication		International Diversity Focus Course	3
Semester Hours:	12	Complete General Knowledge Test	
		Gordon Rule Communication	
		Semester Hours:	15

Summer	Credit Hours
Apply to College of Education	
Semester Hours:	0

Semester 5	Credit Hours	Semester 6	Credit Hours
! <u>EEX 4202</u> Context and Foundations	6	! <u>EEX 4240</u> Beginning to Teach	6
! <u>RED 4310</u> Reading and Learning to Read	3	! <u>RED 4511</u> Linking Literacy Assessment to Instruction	3
! <u>MAE 4310</u> Teaching Elementary School (K-6) Mathematics I	3	! <u>EDF 4430</u> Measurement For Teachers	3
! <u>EDP 3271</u> Child Development within a School Context	1	! <u>FLE 4317</u> Teaching Students with Limited English Proficiency	3
! <u>EEX 4942</u> Practicum in Exceptional Teacher Candidate Education	1	! <u>EDP 3272</u> Learning within a School Context	1
Semester Hours:	14	! <u>EEX 4942</u> Practicum in Exceptional Teacher Candidate Education	1

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Semester Hours: 17

<b>Summer</b>		<b>Credit Hours</b>
<u>EEX 4241</u> Creating Effective Learning Environments		3
<u>LAE 4314</u> Teaching Writing in the Elementary School, Grades K-6		3
<u>EDP 4275</u> Enhancing Children's Learning and Development within a School Context		1
<u>EEX 4942</u> Practicum in Exceptional Teacher Candidate Education		1
Semester Hours:		8

<b>Semester 7</b>	<b>Credit Hours</b>	<b>Semester 8</b>	<b>Credit Hours</b>
! <u>EEX 4242</u> Enhancing Expertise in Teaching and Instructional Decision Making	6	! <u>EEX 4944</u> Final Internship	6
! <u>FLE 4316</u> Language Principles and Acquisition	3	! <u>EEX 4244</u> Becoming a Special Education Teacher	3
! <u>EEX 4742</u> Narrative Perspectives on Exceptionality: Cultural and Ethical Issues	3	Apply for Graduation	
! <u>EEX 4942</u> Practicum in Exceptional Teacher Candidate Education	3	Complete ESOL Binder	
		Complete FTCE: Subject Area & Prof. Ed.	
		! <u>EDF 3604</u> Schools and Society	3
Semester Hours:	15	Semester Hours:	12

## 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 for Undergraduate Research](#) will assist students in understanding the various course options.

## 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.

## EXCEPTIONAL CHILD EDUCATION WITH ESOL & READING ENDORSEMENT FACULTY

*Chairperson:* A. Cranston-Gingras; *Professors:* D. Allsopp, M. Churton, A. Cranston-Gingras, J. Kleinhammer-Tramill, B. Townsend-Walker; *Associate Professors:* P. Jones, B. Loeding, S.E. Shaunessy, D. Thomas; *Assistant Professor:* D. Hoppey. *Instructors:* C. Colucci, E. Doone.

## • B.A. - FOREIGN LANGUAGE EDUCATION WITH ESOL ENDORSEMENT (FLE) (CIP = 13.1306) TOTAL DEGREE HOURS: 120

[http://www.coedu.usf.edu/main/departments/seced/ForLang/fle\\_ba.html](http://www.coedu.usf.edu/main/departments/seced/ForLang/fle_ba.html)

Foreign Language Education explores educational foundations and methods to prepare educators in K-12 schools. It also explores the theory and practice of teaching foreign languages. The program objective is to prepare reflective and caring educators for a career in teaching world languages at the K-12 level.

## STATE MANDATED COMMON COURSE PREREQUISITES

These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

- EDF X005 Introduction to the Teaching Profession (3)
- EDF X085 \* Teaching Diversity for Educators (3)
- EME X040 Introduction to Technology for Educators (3)
- Other program prerequisites: \*\*



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XXX XXXX (8) – Eight credits in the same foreign language at the intermediate level

XXX XXXX (3) – Three credits in the same language of study with a cultural emphasis

\*In addition to EDF X085, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the Florida College System institution or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

\*\*Courses specified in this category may apply to Foundations of Knowledge and Learning Core Curriculum coursework.

## REQUIREMENTS FOR THE MAJOR IN FOREIGN LANGUAGE EDUCATION WITH ESOL ENDORSEMENT TOTAL MAJOR HOURS: 72

**Major requirements for the B.A. Degree:**

**Major Core (33 hours)**

**Professional Education (33 credit hours):**

EDF	3214	Human Development and Learning
EDF	3604	Schools and Society (WRIN)
EDF	4430	Measurement for Teachers
EEX	4070	Integrating Exceptional Students in the Regular Classroom
ESE	4322	Classroom Management
FLE	4316	Language Principles and Acquisition
FLE	4317	Teaching LEP Students K-12
TSL	4081	ESOL 2 Literacy Development in English Language Learners
FLE	4936	Senior Seminar in Foreign Language Education
FLE	4940	Internship: Foreign Language Education

In addition to the courses listed, students must complete "Preliminary Requirements for Students entering Teacher Education Programs." A minimum of 30 credit hours beyond intermediate course requirements must be earned in the foreign language. Programs are available for Spanish (BFS), French (BFF), Italian (BFI), German (BFG) and Russian (BFR).

The College of Education offers a full ESOL Endorsement for all Foreign Language Education major graduates. The special requirements for ESOL endorsement through infusion are as follows:

1. Successful completion of FLE 4317 and FLE 4316 with a minimum grade of 70 percent or better on part one and part two of the ESOL Comprehensive Exam administered in the two ESOL courses;
2. Successful completion of a 20-hour early ESOL field experience in FLE 4317;
3. Successful completion of a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over 10 days; and
4. Successful completion of an ESOL binder, containing all ESOL-related assignments taken in the College of Education and an ESOL-performance Standards Checklist that documents the completion of the necessary number of standards. FLE students must also take TSL 4081 ESOL 2, Literacy Development in English Language Learners which is not part of the ESOL requirement for the FLE program, but does meet the reading requirement.

### **General Education Core and Foundations of Knowledge and Learning (FKL) Requirements**

General Education Core and Foundations of Knowledge and Learning Core Curriculum courses (General Education) will be determined by the Florida College System institution or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Counseling Manual. (For USF, see "Academic Policies and Procedures – Foundations of Knowledge and Learning Core Curriculum" section of the catalog.)

### **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 for Undergraduate Research](#) will assist students in understanding the various course options.

### **FOREIGN LANGUAGE EDUCATION WITH ESOL ENDORSEMENT CONCENTRATIONS**

The College of Education offers several concentrations in the Foreign Language major and details for each

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concentration follow:

## REQUIREMENTS FOR THE CONCENTRATION IN FRENCH (BFF)

**TOTAL CONCENTRATION HOURS: 39**

### Concentration Core (39 hours)

#### Teaching Specialization in French:

Foreign Language (27 credit hours)  
 Conversation and Composition  
 Literature  
 Culture and Civilization  
 Linguistics

Foreign Language Education (12 credit hours)

12 credit hours in methods of teaching a language at the elementary and secondary levels, including a practicum.

#### Fall Term:

FLE 4314 Methods of Teaching Foreign Languages and ESOL in the Elementary School

#### Spring Term:

FLE 4333 Methods of Teaching Foreign Languages and ESOL in the Secondary School

FLE 4370 Practicum in Foreign Language Teaching in the Secondary School

#### Summer Term:

FLE 4290 Technology in the Foreign and Second Language Classroom

### Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>EDF 2005</u> Introduction to the Teaching Profession	3	! <u>EDF 2085</u> Introduction to Diversity for Educators	3
<u>ENC 1101</u> Composition I	3	<u>ENC 1102</u> Composition II	3
<u>SGEM</u> General Education Core Mathematics	3	<u>CAMA</u> or <u>CAQR</u> (Take a CAMA or CAQR course, depending on what course was taken for the Mathematics core.)	3
<u>SGES</u> General Education Core Social Sciences	3	<u>FRE 2201</u> French IV	3
<u>FRE 2200</u> French III	3	Semester Hours:	12
<u>6AC</u> FKL/Gen Ed Gordon Rule Communication			
Semester Hours:	15		

Summer	Credit Hours
Study Abroad (Optional)	
Semester Hours:	0

Semester 3	Credit Hours	Semester 4	Credit Hours
! <u>EME 2040</u> Introduction to Technology for Educators	3	<u>CAFA</u> FKL/Gen Ed Fine Arts	3
<u>FRE 2241</u> Spoken French in Cultural Context	3	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
<u>SGEH</u> General Education Core Humanities	3	<u>CANL</u> or <u>CANP</u> (Take a CANP or CANL course, depending on what course was taken for the Natural Science core.)	3
<u>SGEN</u> General Education Core Natural Sciences	3	<u>CAHU</u> FKL/Gen Ed Humanities	3
<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3	Complete General Knowledge Test	
		Complete International Diversity Req.	

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Complete Human Historical Context and Process Req. Semester Hours: 12

Semester Hours: 15

## Summer

## Credit Hours

FRT 3001 Great French Love Stories in Translation  
Foreign Language Elective  
Apply to College of Education

3  
2

Semester Hours: 5

## Semester 5

## Credit Hours

! FLE 4317 Teaching Students with Limited English Proficiency 3  
FRE 3420 Written French in Cultural Context 3  
FRE 4700 French Linguistics 3  
FLE 4314 Methods of Teaching Foreign Languages and ESOL in the Elementary School 3  
EDF 3604 Schools and Society 3  
FRE 3502 The Francophone World: A Global Culture 3  
Semester Hours: 18

## Semester 6

## Credit Hours

! FLE 4333 Methods of Teaching Foreign Languages and ESOL in the Secondary School 3  
! FLE 4370 Practicum in Foreign Language Teaching in the Secondary School 3  
TSL 4081 ESOL 2 - Literacy Development in English Language Learners 3  
EDF 3214 Human Development and Learning 3  
Semester Hours: 12

## Summer

## Credit Hours

FRE 3500 French Civilization 3  
FLE 4290 Technology in the Foreign and Second Language Classroom 3

Semester Hours: 6

## Semester 7

## Credit Hours

EDF 4440 Measurement Concepts and Assessment of All Students 4  
ESE 4322 Classroom Management for Diverse School and Society 3  
FRW 4100 The French Novel 3  
EEX 4070 Integrating Exceptional Students in the Regular Classroom 2  
FLE 4316 Language Principles and Acquisition 1  
Semester Hours: 13

## Semester 8

## Credit Hours

FLE 4940 Internship: Foreign Language Education 9  
FLE 4936 Senior Seminar in Foreign Language Education 3  
Complete ESOL Binder  
Complete FTCE: Subject Area & Prof. Ed.  
Semester Hours: 12

## REQUIREMENTS FOR THE CONCENTRATION IN GERMAN (BFG)

**TOTAL CONCENTRATION HOURS: 39**

### Concentration Core (39 hours)

#### Teaching Specialization in German:

Foreign language (27 credit hours)  
Conversation and Composition  
Literature  
Culture and Civilization  
Linguistics

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Foreign Language Education (12 credit hours)

12 credit hours in methods of teaching a language at the elementary and secondary levels, including a practicum.

**Fall Term:**

FLE 4314 Methods of Teaching Foreign Languages and ESOL in the Elementary School

**Spring Term:**

FLE 4333 Methods of Teaching Foreign Languages and ESOL in the Secondary School

FLE 4370 Practicum in Foreign Language Teaching in the Secondary School

**Summer Term:**

FLE 4290 Technology in the Foreign and Second Language Classroom

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>EDF 2005</u> Introduction to the Teaching Profession	3	! <u>EDF 2085</u> Introduction to Diversity for Educators	3
! <u>ENC 1101</u> Composition I	3	! <u>ENC 1102</u> Composition II	3
! <u>SGEM</u> General Education Core Mathematics	3	! <u>CAMA</u> or <u>CAQR</u> (Take a <u>CAMA</u> or <u>CAQR</u> course, depending on what course was taken for the Mathematics core.)	3
<u>SGES</u> General Education Core Social Sciences	3		
<u>GER 2200</u> German III	3	<u>GER 2201</u> German IV	3
<u>6AC</u> FKL/Gen Ed Gordon Rule Communication		Semester Hours:	12
Semester Hours:	15		

Summer	Credit Hours
Study Abroad (Optional)	
Semester Hours:	0

Semester 3	Credit Hours	Semester 4	Credit Hours
! <u>EME 2040</u> Introduction to Technology for Educators	3	<u>CAFA</u> FKL/Gen Ed Fine Arts	3
<u>GER 2240</u> Conversation I	3	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
<u>SGEH</u> General Education Core Humanities	3	<u>CANL</u> or <u>CANP</u> (Take a <u>CANP</u> or <u>CANL</u> course, depending on what course was taken for the Natural Science core.)	3
<u>SGEN</u> General Education Core Natural Sciences	3		
<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3	<u>CAHU</u> FKL/Gen Ed Humanities	3
Complete Human Historical Context and Process Req.		Complete General Knowledge Test	
		Complete International Diversity Req.	
Semester Hours:	15	Semester Hours:	12

Summer	Credit Hours
<u>GET 3103</u> German Literature in English Translation	3
Foreign Language Elective	2
Apply to College of Education	
Semester Hours:	5

Semester 5	Credit Hours	Semester 6	Credit Hours
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! <u>FLE 4317</u> Teaching Students with Limited English Proficiency	3	! <u>FLE 4333</u> Methods of Teaching Foreign Languages and ESOL in the Secondary School	3
! <u>GER 3420</u> Composition I	3	! <u>FLE 4370</u> Practicum in Foreign Language Teaching in the Secondary School	3
! <u>GER 3333</u> German Language & Culture through Film	3	! <u>TSL 4081</u> ESOL 2 - Literacy Development in English Language Learners	3
! <u>GER 5845</u> History of the German Language	3	! <u>EDF 3214</u> Human Development and Learning	3
! <u>FLE 4314</u> Methods of Teaching Foreign Languages and ESOL in the Elementary School	3		
! <u>EDF 3604</u> Schools and Society	3		
	Semester Hours: 18		Semester Hours: 12

## Summer

## Credit Hours

! <u>GER 3500</u> German Civilization	3
! <u>FLE 4290</u> Technology in the Foreign and Second Language Classroom	3
	Semester Hours: 6

## Semester 7

## Credit Hours

## Semester 8

## Credit Hours

! <u>EDF 4440</u> Measurement Concepts and Assessment of All Students	4	! <u>FLE 4940</u> Internship: Foreign Language Education	9
! <u>ESE 4322</u> Classroom Management for Diverse School and Society	3	! <u>FLE 4936</u> Senior Seminar in Foreign Language Education	3
! <u>GEW 4101</u> Survey of German Literature II	3	Complete ESOL Binder	
! <u>EEX 4070</u> Integrating Exceptional Students in the Regular Classroom	2	Complete FTCE: Subject Area & Prof. Ed.	
! <u>FLE 4316</u> Language Principles and Acquisition	1		
	Semester Hours: 13		Semester Hours: 12

## REQUIREMENTS FOR THE CONCENTRATION IN ITALIAN (BFI)

**TOTAL CONCENTRATION HOURS: 39**

### Concentration Core (39 hours)

#### Teaching Specialization in Italian:

Foreign language (27 credit hours)  
 Conversation and Composition  
 Literature  
 Culture and Civilization  
 Linguistics

Foreign Language Education (12 credit hours)

12 credit hours in methods of teaching a language at the elementary and secondary levels, including a practicum.

#### Fall Term:

FLE 4314 Methods of Teaching Foreign Languages and ESOL in the Elementary School

#### Spring Term:

FLE 4333 Methods of Teaching Foreign Languages and ESOL in the Secondary School

FLE 4370 Practicum in Foreign Language Teaching in the Secondary School

#### Summer Term:

FLE 4290 Technology in the Foreign and Second Language Classroom

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## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>EDF 2005</u> Introduction to the Teaching Profession	3	! <u>EDF 2085</u> Introduction to Diversity for Educators	3
! <u>ENC 1101</u> Composition I	3	! <u>ENC 1102</u> Composition II	3
! <u>SGEM</u> General Education Core Mathematics	3	! <u>CAMA</u> or <u>CAQR</u> (Take a CAMA or CAQR course, depending on what course was taken for the Mathematics core.)	3
<u>SGES</u> General Education Core Social Sciences	3		
<u>ITA 2200</u> Italian III	3	<u>ITA 2201</u> Italian IV	3
Gordon Rule Communication		Semester Hours:	12
Semester Hours:	15		

Summer	Credit Hours
Study Abroad (Optional)	
Semester Hours:	0

Semester 3	Credit Hours	Semester 4	Credit Hours
! <u>EME 2040</u> Introduction to Technology for Educators	3	<u>CAFA</u> FKL/Gen Ed Fine Arts	3
<u>SGEH</u> General Education Core Humanities	3	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
<u>SGEN</u> General Education Core Natural Sciences	3	<u>CANL</u> or <u>CANP</u> (Take a CANP or CANL course, depending on what course was taken for the Natural Science core.)	3
<u>ITA 2240</u> Italian Conversation	3	<u>CAHU</u> FKL/Gen Ed Humanities	3
<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3	Complete General Knowledge Test	
Complete Human Historical Context and Process Req.		Complete International Diversity Req.	
Semester Hours:	15	Semester Hours:	12

Summer	Credit Hours
<u>ITW 4100</u> Survey of Italian Literature I	3
Foreign Language Elective	2
Apply to College of Education	
Semester Hours:	5

Semester 5	Credit Hours	Semester 6	Credit Hours
! <u>FLE 4317</u> Teaching Students with Limited English Proficiency	3	! <u>FLE 4333</u> Methods of Teaching Foreign Languages and ESOL in the Secondary School	3
! <u>ITA 3420</u> Composition	3	! <u>FLE 4370</u> Practicum in Foreign Language Teaching in the Secondary School	3
! <u>LIN 3010</u> Introduction to Linguistics	3	! <u>TSL 4081</u> ESOL 2 - Literacy Development in English Language Learners	3
! <u>FLE 4314</u> Methods of Teaching Foreign Languages and ESOL in the Elementary School	3	! <u>EDF 3214</u> Human Development and Learning	3
! <u>ITA 3234</u> Reading and Writing in Italian	3		
! <u>EDF 3604</u> Schools and Society	3		

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Semester Hours: 18

Semester Hours: 12

<b>Summer</b>		<b>Credit Hours</b>
!	<u>ITT 3504</u> Italian Culture Through Film	3
!	<u>FLE 4290</u> Technology in the Foreign and Second Language Classroom	3
Semester Hours:		6

<b>Semester 7</b>	<b>Credit Hours</b>	<b>Semester 8</b>	<b>Credit Hours</b>
!	<u>EDF 4440</u> Measurement Concepts and Assessment of All Students	!	<u>FLE 4940</u> Internship: Foreign Language Education
!	<u>ESE 4322</u> Classroom Management for Diverse School and Society	!	<u>FLE 4936</u> Senior Seminar in Foreign Language Education
!	<u>ITW 4101</u> Survey of Italian Literature II	!	Complete ESOL Binder
!	<u>EEX 4070</u> Integrating Exceptional Students in the Regular Classroom	!	Complete FTCE: Subject Area & Prof. Ed.
!	<u>FLE 4316</u> Language Principles and Acquisition	Semester Hours:	12
Semester Hours:			
13			

## REQUIREMENTS FOR THE CONCENTRATION IN RUSSIAN (BFR) TOTAL CONCENTRATION HOURS: 39

### Concentration Core (39 hours)

#### Teaching Specialization in Russian:

Foreign language (27 credit hours)

Conversation and Composition

Literature

Culture and Civilization

Linguistics

Foreign Language Education (12 credit hours)

12 credit hours in methods of teaching a language at the elementary and secondary levels, including a practicum.

#### Fall Term:

FLE 4314 Methods of Teaching Foreign Languages and ESOL in the Elementary School

#### Spring Term:

FLE 4333 Methods of Teaching Foreign Languages and ESOL in the Secondary School

FLE 4370 Practicum in Foreign Language Teaching in the Secondary School

#### Summer Term:

FLE 4290 Technology in the Foreign and Second Language Classroom

### Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

<b>Semester 1</b>	<b>Credit Hours</b>	<b>Semester 2</b>	<b>Credit Hours</b>	
!	<u>EDF 2005</u> Introduction to the Teaching Profession	3	<u>RUS 2221</u> Intermediate Russian II	
	<u>ENC 1101</u> Composition I	3	!	<u>EDF 2085</u> Introduction to Diversity for Educators
	<u>SGEM</u> General Education Core Mathematics	3		<u>ENC 1102</u> Composition II
	<u>SGES</u> General Education Core Social Sciences	3		<u>CAMA</u> or <u>CAQR</u> (Take a CAMA or CAQR course, depending on what course was taken for the Mathematics core.)
Semester Hours:				
12				

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Semester Hours: 13

**Summer**  
Study Abroad (Optional)

**Credit Hours**

Semester Hours: 0

<b>Semester 3</b>	<b>Credit Hours</b>	<b>Semester 4</b>	<b>Credit Hours</b>
! <u>EME 2040</u> Introduction to Technology for Educators	3	<u>CAFA</u> FKL/Gen Ed Fine Arts	3
<u>RUS 3240</u> Russian Language & Culture through Film	3	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
<u>SGEH</u> General Education Core Humanities	3	<u>CANL</u> or <u>CANP</u> (Take a <u>CANP</u> or <u>CANL</u> course, depending on what course was taken for the Natural Science core.)	3
<u>SGEN</u> General Education Core Natural Sciences	3	<u>CAHU</u> FKL/Gen Ed Humanities	3
<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3	Complete General Knowledge Test	
Complete Human Historical Context and Process Req.		Complete International Diversity Req.	
Gordon Rule Communication		Semester Hours:	12
Semester Hours:	15		

<b>Summer</b>	<b>Credit Hours</b>
<u>RUT 3110</u> Nineteenth Century Russian Literature in English	3
Foreign Language Elective	3
Apply to College of Education	
Semester Hours:	6

<b>Semester 5</b>	<b>Credit Hours</b>	<b>Semester 6</b>	<b>Credit Hours</b>
<u>RUS 4241</u> Russian Language & Culture through Film II	4	! <u>FLE 4333</u> Methods of Teaching Foreign Languages and ESOL in the Secondary School	3
! <u>FLE 4317</u> Teaching Students with Limited English Proficiency	3	! <u>FLE 4370</u> Practicum in Foreign Language Teaching in the Secondary School	3
<u>LIN 3010</u> Introduction to Linguistics	3	<u>TSL 4081</u> ESOL 2 - Literacy Development in English Language Learners	3
<u>FLE 4314</u> Methods of Teaching Foreign Languages and ESOL in the Elementary School	3	<u>EDF 3214</u> Human Development and Learning	3
<u>RUS 3500</u> Russian Civilization	3	<u>EDF 3604</u> Schools and Society	3
Semester Hours:	16	Semester Hours:	15

<b>Summer</b>	<b>Credit Hours</b>
<u>RUS 2270</u> Overseas Study	3
<u>FLE 4290</u> Technology in the Foreign and Second Language Classroom	3
Semester Hours:	6

<b>Semester 7</b>	<b>Credit Hours</b>	<b>Semester 8</b>	<b>Credit Hours</b>
<u>EDF 4440</u> Measurement Concepts and Assessment of All Students	4	<u>FLE 4940</u> Internship: Foreign Language Education	9



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<u>ESE 4322</u> Classroom Management for Diverse School and Society	3	<u>FLE 4936</u> Senior Seminar in Foreign Language Education	3
<u>RUT 3111</u> Twentieth-Century Russian Literature in English	3	Complete ESOL Binder	
<u>EEX 4070</u> Integrating Exceptional Students in the Regular Classroom	2	Complete FTCE: Subject Area & Prof. Ed.	
<u>FLE 4316</u> Language Principles and Acquisition	1		
	Semester Hours:		12
			13

## REQUIREMENTS FOR THE CONCENTRATION IN SPANISH (BFS) TOTAL CONCENTRATION HOURS: 39

### Concentration Core (39 hours)

#### Teaching Specialization in Spanish:

Foreign language (27 credit hours)

Conversation and Composition

Literature

Culture and Civilization

Linguistics

Foreign Language Education (12 credit hours)

12 credit hours in methods of teaching a language at the elementary and secondary levels, including a practicum.

#### Fall Term:

FLE 4314 Methods of Teaching Foreign Languages and ESOL in the Elementary School

#### Spring Term:

FLE 4333 Methods of Teaching Foreign Languages and ESOL in the Secondary School

FLE 4370 Practicum in Foreign Language Teaching in the Secondary School

#### Summer Term:

FLE 4290 Technology in the Foreign and Second Language Classroom

### Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>EDF 2005</u> Introduction to the Teaching Profession	3	! <u>EDF 2085</u> Introduction to Diversity for Educators	3
! <u>ENC 1101</u> Composition I	3	! <u>ENC 1102</u> Composition II	3
! <u>SGEM</u> General Education Core Mathematics	3	! <u>CAMA</u> or <u>CAQR</u> (Take a CAMA or CAQR course, depending on what course was taken for the Mathematics core.)	3
<u>SGES</u> General Education Core Social Sciences	3		
<u>SPN 2200</u> Spanish III	3	<u>SPN 2201</u> Spanish IV	3
Gordon Rule Communication		Semester Hours:	12
Semester Hours:	15		
	<b>Summer</b>		<b>Credit Hours</b>
	Study Abroad (Optional)		
		Semester Hours:	0
Semester 3	Credit Hours	Semester 4	Credit Hours
! <u>EME 2040</u> Introduction to Technology for Educators	3	<u>CAFA</u> FKL/Gen Ed Fine Arts	3

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<u>SPN 2240</u> Conversation I	3	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
<u>SGEH</u> General Education Core Humanities	3	<u>CANL</u> or <u>CANP</u> (Take a <u>CANP</u> or <u>CANL</u> course, depending on what course was taken for the Natural Science core.)	3
<u>SGEN</u> General Education Core Natural Sciences	3	<u>CAHU</u> FKL/Gen Ed Humanities Complete General Knowledge Test Complete International Diversity Req.	3
<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3		
Complete Human Historical Context and Process Req.			
Semester Hours:	15	Semester Hours:	12

## Summer

## Credit Hours

<u>SPW 3030</u> Introduction to Hispanic Literary Studies	3
Foreign Language Elective	2
Apply to College of Education	
Semester Hours:	5

## Semester 5

## Credit Hours

! <u>FLE 4317</u> Teaching Students with Limited English Proficiency	3
! <u>SPN 4301</u> Expository Writing	3
! <u>FLE 4314</u> Methods of Teaching Foreign Languages and ESOL in the Elementary School	3
! <u>EDF 3604</u> Schools and Society	3
! <u>SPN 3500</u> Spanish Civilization	3
! <u>SPN 4700</u> Spanish Linguistics	3
Semester Hours:	18

## Semester 6

## Credit Hours

! <u>FLE 4333</u> Methods of Teaching Foreign Languages and ESOL in the Secondary School	3
! <u>FLE 4370</u> Practicum in Foreign Language Teaching in the Secondary School	3
! <u>TSL 4081</u> ESOL 2 - Literacy Development in English Language Learners	3
! <u>EDF 3214</u> Human Development and Learning	3
Semester Hours:	12

## Summer

## Credit Hours

! <u>SPN 3520</u> Spanish American Civilization	3
! <u>FLE 4290</u> Technology in the Foreign and Second Language Classroom	3
Semester Hours:	6

## Semester 7

## Credit Hours

! <u>EDF 4440</u> Measurement Concepts and Assessment of All Students	4
! <u>ESE 4322</u> Classroom Management for Diverse School and Society	3
! <u>SPW 4100</u> Survey of Spanish Literature I	3
! <u>EEX 4070</u> Integrating Exceptional Students in the Regular Classroom	2
! <u>FLE 4316</u> Language Principles and Acquisition	1
Semester Hours:	13

## Semester 8

## Credit Hours

! <u>FLE 4940</u> Internship: Foreign Language Education	9
! <u>FLE 4936</u> Senior Seminar in Foreign Language Education	3
! Complete ESOL Binder	
! Complete FTCE: Subject Area & Prof. Ed.	
Semester Hours:	12

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## REQUIREMENTS FOR THE MINOR IN FOREIGN LANGUAGE EDUCATION (FLE)

**TOTAL MINOR HOURS: 12**

[http://www.coedu.usf.edu/main/sas/documents/FL-MinorReferenceAdvisingSheet\\_001.pdf](http://www.coedu.usf.edu/main/sas/documents/FL-MinorReferenceAdvisingSheet_001.pdf)

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.

### 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

### Grading Requirement

All course grades must have a minimum grade of C or better.

## FOREIGN LANGUAGE EDUCATION WITH ESOL ENDORSEMENT FACULTY

*Chairperson:* A. Cranston-Gingras; *Professors:* M. Berson, B.C. Cruz, J.A. Duplass, A.P. Feldman, J.H. Johnston, J.F. Kaywell, G. Kersaint, B.S. Spector, D.R. Thompson, S.J. Thornton, D. Zeidler; *Emeritus Professors:* J.H. Applegate, D.J. Puglisi, H.E. Steiner; *Associate Professors:* P.L. Jones, D. Kim, J. Liontas, *Emeritus Associate Professors:* J. Golub J.A. White; *Assistant Professors:* S. Colomer, C. Ellerbrock, S. Eskelson, B. Herman, V. Pitts-Bannister, R. Sears, E. Vomvoridi-Ivanovic; *Instructors:* P.C. Smith, T. Walseth; *Visiting Assistant Professor:* L. Rodeslier.

## • B.A. OR B.S. - MATHEMATICS EDUCATION (BMA) (CIP = 13.1311 - TRACK 1 OF 2)

**TOTAL DEGREE HOURS: 120**

<http://www.coedu.usf.edu/main/departments/seced/Math/Mathbach.htm>

Mathematics Education explores educational foundations and methods to prepare educators in middle and secondary schools. It also explores the theory and practice of teaching mathematics 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

These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

EDF	X005	Introduction to the Teaching Profession
EDF	X085*	Teaching Diversity for Educators
EME	X040	Introduction to Technology for Educators
MAC	X311	Calculus I
MAC	X312	Calculus II
MAC	XXXX or MTG XXXX or MAS XXXX	Mathematics Electives

\*In addition to EDF X085, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

\*\*Courses specified in this category may apply to the USF Foundations of Knowledge and Learning (FKL) Core Curriculum coursework.

## REQUIREMENTS FOR THE MAJOR IN MATHEMATICS EDUCATION TOTAL MAJOR HOURS: 64

Major requirements for the B.A. or B.S. Degree:

### Major Core (72 hours)

#### Professional Education:

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

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TSL	4324	ESOL Competencies and Strategies
MAE	4940	Internship: Mathematics Education
MAE	4936	Senior Seminar in Mathematics Education (Capstone)
ESE	4322	Classroom Management

## Specialization:

MAC	2313	Calculus III
MAD	3100	Discrete Mathematics
MAS	3105	Linear Algebra or MAS 4301 Elementary Abstract Algebra
MAS	4214	Elementary Number Theory
MGF	3301	Bridge to Abstract Mathematics
MHF	4403	Early History of Math (Writing Intensive Exit)
MTG	3212	Geometry or MTG 4214 Modern Geometry
STA	2023	Introductory Statistics I

## Additional Specialization:

MAE	4320	Middle School Methods
MAE	4330	Senior High School Methods
MAE	4551	Reading the Language of Mathematics
MAE	4652	Technology for Teaching Secondary School Mathematics
MAE	4945	Practicum in Mathematics Education

In addition to the courses listed, students must complete "Preliminary Requirements for Students entering Teacher Education Programs (see statement under main college heading)."

## General Education Core and Foundations of Knowledge and Learning (FKL) Requirements

General Education Core and FKL Core Curriculum courses (General Education) will be determined by the Florida College System institution or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Counseling Manual. (For USF, see "Academic Policies and Procedures - Liberal Arts Requirements" section of the catalog.)

## Foundations of Knowledge and Learning (FKL) Exit Requirement

EDF	3604	Schools and Society (Writing Intensive)
MAE	4936	Senior Seminar in Mathematics Education (Capstone)

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>MAC 1147</u> or <u>MAC 2281</u> or <u>MAC 2311</u>	4	! <u>MAC 2282</u> or <u>MAC 2312</u>	4
! <u>ENC 1101</u> Composition I	3	! <u>EDF 2005</u> Introduction to the Teaching Profession	3
<u>CAFA</u> FKL/Gen Ed Fine Arts	3	! <u>ENC 1102</u> Composition II	3
<u>SLS 2901</u> Academic Foundations Seminar	3	<u>SGEH</u> General Education Core Humanities	3
<u>SGES</u> General Education Core Social Sciences	3	<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3
Complete Human Historical Context and Process Req.		Complete International Diversity Req.	
Gordon Rule Communication		Semester Hours:	16
Semester Hours:	16		
<b>Summer</b>		<b>Credit Hours</b>	
Complete Foreign Language (If Necessary)			
Study Abroad (Optional)			
		Semester Hours:	0
<b>Semester 3</b>	<b>Credit Hours</b>	<b>Semester 4</b>	<b>Credit Hours</b>

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<u>MAC 2283</u> or <u>MAC 2313</u>	4	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
! <u>EDF 2085</u> Introduction to Diversity for Educators	3	<u>CANL</u> or <u>CANP</u> (Take a <u>CANP</u> or <u>CANL</u> course, depending on what course was taken for the Natural Science core.)	3
! <u>EME 2040</u> Introduction to Technology for Educators	3	<u>STA 2023</u> Introductory Statistics I	3
<u>SGEN</u> General Education Core Natural Sciences	3	<u>EDF 3604</u> Schools and Society	3
Complete Foreign Language (If Necessary)		Complete General Knowledge Test	
Semester Hours:	13	<u>CAHU</u> FKL/Gen Ed Humanities	3
		Semester Hours:	15

### Summer

### Credit Hours

EDF 3214 Human Development and Learning Apply to College of Education

3

Semester Hours:

3

### Semester 5

### Credit Hours

! <u>MAE 4320</u> Teaching Mathematics in the Middle Grades	3
<u>MGF 3301</u> Bridge to Abstract Mathematics	3
<u>TSL 4324</u> ESOL Competencies and Strategies	3
<u>MTG 3212</u> or <u>MTG 4214</u>	3
<u>MAE 4652</u> Technology for Teaching Secondary School Mathematics	3
Semester Hours:	15

### Semester 6

### Credit Hours

! <u>MAE 4330</u> Teaching Senior High School Mathematics	3
<u>MAD 3107</u> Discrete Mathematics	3
<u>EEX 4070</u> Integrating Exceptional Students in the Regular Classroom	3
<u>MAS 3105</u> or <u>MAS 4301</u>	3
Semester Hours:	12

### Summer

### Credit Hours

ESE 4322 Classroom Management for Diverse School and Society  
EDF 4430 Measurement For Teachers  
 Apply for Final Internship

3

3

Semester Hours:

6

### Semester 7

### Credit Hours

<u>MAS 4214</u> Elementary Number Theory	3
<u>MAE 4945</u> Practicum in Mathematics Education	3
<u>MAE 4551</u> Reading the Language of Mathematics	3
<u>MHF 4403</u> The Early History of Mathematics	3
Semester Hours:	12

### Semester 8

### Credit Hours

! <u>MAE 4940</u> Internship: Mathematics Education	9
! <u>MAE 4936</u> Senior Seminar in Mathematics Education	3
Complete ESOL Binder	
Complete FTCE: Subject Area & Prof. Ed.	
Semester Hours:	12

## 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

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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.

## MIDDLE SCHOOL MATHEMATICS CONCENTRATION(BMM) (CIP = 13.1311 - TRACK 2 OF 2) TOTAL DEGREE HOURS: 120

<http://www.coedu.usf.edu/main/departments/seced/Math/Mathma.htm>

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

These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

EDF	X005	Introduction to the Teaching Profession
EDF	X085*	Teaching Diversity for Educators
EME	X040	Introduction to Technology for Educators
MAC	X311	Calculus I
MAC	XXXX	(four credit hours)

\*In addition to EDF X085, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

\*\*Courses specified in this category may apply to the USF Foundations of Knowledge and Learning (FKL) Core Curriculum coursework.

## REQUIREMENTS FOR THE CONCENTRATION IN MIDDLE SCHOOL MATHEMATICS TOTAL MAJOR HOURS: 64

**Major requirements for the B.A. or B.S. Degree:**

**Major Core (64 hours)**

The STEM Middle School Mathematics program is a cohort, residency program.

**Concentration Courses:**

EDF	3214	Human Development and Learning
EDF	3604	Schools and Society
EDF	4430	Measurement for Teachers
EDM	3403	Middle Level Education
EDM	3620	Teaching the Young Adolescent Learner
EDM	4406	Contemporary Issues in STEM Education
EEX	4070	Integrating Exceptional Students in the Regular Classroom
ESE	4322	Classroom Management for Diverse School and Society
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
TSL	4324	ESOL Competencies and Strategies

In addition to the courses listed, students must complete "Preliminary Requirements for Students entering Teacher Education Programs (see statement under main college heading)."

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## General Education Core and Foundations of Knowledge and Learning (FKL) Requirements

General Education Core and FKL Core Curriculum courses (General Education) will be determined by the Florida College System institution or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Counseling Manual. (For USF, see "Academic Policies and Procedures - Liberal Arts Requirements" section of the catalog.)

### Foundations of Knowledge and Learning (FKL) Exit Requirement

EDF 3604 Schools and Society (Writing Intensive)  
MAE 4936 Senior Seminar in Mathematics Education (Capstone)

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>MAC 1147</u> or <u>MAC 2281</u> or <u>MAC 2311</u>	4	<u>CAMA</u> or <u>CAQR</u>	4
! <u>ENC 1101</u> Composition I	3	! <u>EDF 2005</u> Introduction to the Teaching Profession	3
<u>SGEH</u> General Education Core Humanities	3	! <u>ENC 1102</u> Composition II	3
<u>SGES</u> General Education Core Social Sciences	3	<u>HHCP</u> FKL/Gen Ed Human Historical Context and Process	3
Semester Hours:	13	<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3
		Gordon Rule Communication	
		Semester Hours:	16

Summer	Credit Hours
Complete Foreign Language (If Necessary)	
Study Abroad (Optional)	
Semester Hours:	0

Semester 3	Credit Hours	Semester 4	Credit Hours
! <u>EDF 2085</u> Introduction to Diversity for Educators	3	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
! <u>EME 2040</u> Introduction to Technology for Educators	3	<u>CANL</u> or <u>CANP</u> (Take a <u>CANL</u> or <u>CANP</u> course, based on the core Natural Science course taken.)	3
<u>CAFA</u> FKL/Gen Ed Fine Arts	3	<u>CAHU</u> FKL/Gen Ed Humanities	3
International Diversity Course	3	General Elective	3
Complete Foreign Language (If Necessary)		Complete General Knowledge Test	
<u>SGEN</u> General Education Core Natural Sciences	3	Semester Hours:	12
Semester Hours:	15		

Summer	Credit Hours
Apply to College of Education	
Semester Hours:	0

Semester 5	Credit Hours	Semester 6	Credit Hours
! <u>MAS 3205</u> Number Concepts Connections	3	! <u>MTG 3207</u> Geometry Connections	3
! <u>STA 3027</u> Statistics and Probability Connections	3	! <u>MAS 3108</u> Algebra Connections	3
		! <u>ESE 4322</u> Classroom Management for Diverse School and Society	3

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! <u>TSL 4324</u> ESOL Competencies and Strategies	3	! <u>MAE 3225</u> Middle School Mathematics Methods Course 2	3
! <u>EDM 3403</u> Middle Level Education	3	! <u>MAE 3942</u> Practicum II: Middle School Mathematics Education	2
! <u>MAE 3224</u> Middle School Mathematics Methods Course 1	3	Semester Hours:	14
! <u>MAE 3941</u> Practicum I: Middle School Mathematics Education	2		
Semester Hours:	17		

## Summer

! <u>EDF 3214</u> Human Development and Learning	3	<b>Credit Hours</b>
! <u>EEX 4070</u> Integrating Exceptional Students in the Regular Classroom	3	
! <u>EDM 3620</u> Teaching the Young Adolescent Learner	3	
Apply for Final Internship		
Semester Hours:	9	

Semester 7	Credit Hours	Semester 8	Credit Hours
! <u>MAE 4941</u> Internship I: Middle School Mathematics Education	6	! <u>MAE 4942</u> Internship II: Middle School Mathematics Education	6
! <u>EDF 4430</u> Measurement For Teachers	3	! <u>EDF 3604</u> Schools and Society	3
! <u>MAE 4551</u> Reading the Language of Mathematics	3	! <u>EDM 4406</u> Contemporary Issues in STEM Education	3
Semester Hours:	12	Complete ESOL Binder Complete FTCE: Subject Area & Prof. Ed.	
		Semester Hours:	12

## MATHEMATICS EDUCATION FACULTY

*Chairperson:* A. Cranston-Gingras; *Professors:* M. Berson, B.C. Cruz, J.A. Duplass, A.P. Feldman, J.H. Johnston, J.F. Kaywell, G. Kersaint, B.S. Spector, D.R. Thompson, S.J. Thornton, D. Zeidler; *Emeritus Professors:* J.H. Applegate, D.J. Puglisi, H.E. Steiner; *Associate Professors:* P.L. Jones, D. Kim, J. Liontas, *Emeritus Associate Professors:* J. Golub J.A. White; *Assistant Professors:* S. Colomer, C. Ellerbrock, S. Eskelson, B. Herman, V. Pitts-Bannister, R. Sears, E. Vomvoridi-Ivanovic; *Instructors:* P.C. Smith, T. Walseth; *Visiting Assistant Professor:* L. Rodeslier.

## • B.A. OR B.S. - PHYSICAL EDUCATION (PET) (CIP = 13.1314 - TRACK 1 OF 2) TOTAL DEGREE HOURS: 120

<http://www.coedu.usf.edu/main/departments/physed/programs/progPe.html>

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

These prerequisites must be met by transfer students as well as USF students:

- EDF X005 Introduction to the Teaching Profession
- EDF X085 Teaching Diversity for Educators\*
- EME X040 Introduction to Technology for Educators
- BSC X085 and BSC X086 or BSC X085 and PET X622
- Conditioning, Fitness and Wellness Course in Physical Education Activities
- Skill Development Courses in Physical Activities

\*In addition to EDF X085, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.



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## Requirements for the B.S. Degree in Physical Education

The two-year programs are offered beginning in the junior year and include mandatory attendance during the summer session between the junior and senior years. Students in Physical Education may enter in the Fall Semester of each year only. Students proceed through the programs in cohorts and are required to complete all required courses each semester with a grade of "C-" or better in order to progress to the next semester. Students who do not complete the requirements will be dismissed from the program and may reapply for the next cohort.

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 FOR THE MAJOR IN PHYSICAL EDUCATION TOTAL MAJOR HOURS: 60

### 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.

### 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 & Instruction in Physical Education
PET	4432	Instructional Design & Content: Elementary I
PET	4433	Instructional Design & Content: Elementary II
PET	4942	Physical Education Pre-Internship: Elementary
EDF	3604	Schools and Society (EXIT Writing Intensive)
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 (EXIT Capstone)

### 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

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wellness, current issues in sports, and first aid.

## GPA Requirements

Maintain a 2.50 GPA in order to progress to the next semester.

## 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.

## General Education Core and Foundations of Knowledge and Learning (FKL) Requirements

General Education Core and Foundations of Knowledge and Learning Core Curriculum courses (General Education) will be determined by the Florida College System institution or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Counseling Manual. (For USF, see "Academic Policies and Procedures - Foundations of Knowledge and Learning Core Curriculum Requirements" section of the catalog.)

## Foundations of Knowledge and Learning (FKL) Exit Requirement

PET 4929 Senior Seminar in Physical Education (EXIT Capstone)  
EDF 3604 Schools and Society (EXIT Writing Intensive)

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>BSC 2085</u> Anatomy and Physiology I for Health Professionals	3	! <u>ATR 2010C</u> Care and Prevention of Physical Injuries	3
! <u>ENC 1101</u> Composition I	3	! <u>ENC 1102</u> Composition II	3
! <u>SGEM</u> General Education Core Mathematics	3	<u>SGEH</u> General Education Core Humanities	3
Skill Development Elective	3	<u>CAMA</u> or <u>CAQR</u> (Take a CAMA or CAQR course, depending on what course was taken for the Mathematics core.)	3
! <u>BSC 2085L</u> Anatomy and Physiology Lab I for Nursing and other Healthcare Professionals	1		
Semester Hours:	13	Semester Hours:	12

Summer	Credit Hours
Study Abroad (Optional)	
Semester Hours:	0

Semester 3	Credit Hours	Semester 4	Credit Hours
! <u>EDF 2005</u> Introduction to the Teaching Profession	3	! <u>EDF 2085</u> Introduction to Diversity for Educators	3
<u>CAFA</u> FKL/Gen Ed Fine Arts	3	! <u>EME 2040</u> Introduction to Technology for Educators	3
<u>SGES</u> General Education Core Social Sciences	3	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
<u>CAHU</u> FKL/Gen Ed Humanities Complete Human Historical Context and Process Req.	3	<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3
Complete International Diversity Req. Gordon Rule Communication		Complete General Knowledge Test	
Semester Hours:	12	Semester Hours:	12

Summer	Credit Hours
Apply to College of Education	

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Semester Hours: 0

Semester 5	Credit Hours	Semester 6	Credit Hours
! <u>PET 3421</u> Curriculum and Instruction in Physical Education	3	! <u>PET 3441</u> Instructional Design and Content: Middle School Physical Education	3
! <u>EDF 3122</u> or <u>EDF 4131</u>	3	! <u>PET 4510</u> Measurement and Evaluation in Physical Education	3
! <u>TSL 4324</u> ESOL Competencies and Strategies	3	! <u>PET 4433</u> Instructional Design & Content: Physical Education Elementary II	3
! <u>PET 4432</u> Instructional Design and Content: Physical Education Elementary	3	! <u>PET 3031</u> Motor Behavior	3
! <u>EDF 3604</u> Schools and Society	3	! <u>PET 4942</u> Physical Education Pre-Internship: Elementary	3
Semester Hours:	15	Semester Hours:	15

Summer	Credit Hours
! <u>PET 4765</u> Scientific Principles of Athletic Coaching	3
! <u>PET 3640</u> Adapted Physical Education	3
! <u>RED 4312</u> Emergent Literacy Strategies and Assessment	3
<u>PET 4742</u> Secondary Physical Education Methods: Physical Act Apply for Final Internship	3
Semester Hours:	12

Semester 7	Credit Hours	Semester 8	Credit Hours
! <u>PET 4380</u> Applied Exercise Science	3	! <u>PET 4946</u> Internship in Physical Education: Elementary	6
! <u>PET 4401</u> Class Management, Safety, Ethics, Law, and Organization and Administration of Physical Education	3	! <u>PET 4947</u> Internship in Physical Education: Secondary	6
! <u>PET 4442</u> Instructional Design and Content: Physical Education Secondary	3	! <u>PET 4929</u> Senior Seminar in Physical Education Complete FTCE: Subject Area & Prof. Ed.	3
! <u>PET 4944</u> Physical Education Pre-Internship: Secondary	3	Semester Hours:	15
! <u>PET 4820</u> Sport Skill Proficiency	2		
Semester Hours:	14		

## 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 for Undergraduate Research](#) will assist students in understanding the various course options.

## Internship Opportunities

PET 4946 Internship in Physical Education: Elementary

PET 4947 Internship in Physical Education: Secondary

Physical Education students will complete two internship experiences, 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.

# COLLEGE OF EDUCATION

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## REQUIREMENTS FOR THE MINOR IN SCIENCE OF PHYSICAL ACTIVITY (SPED) TOTAL MINOR HOURS: 12

[http://www.coedu.usf.edu/main/sas/documents/PE-MinorReferenceAdvisingSheet\\_001.pdf](http://www.coedu.usf.edu/main/sas/documents/PE-MinorReferenceAdvisingSheet_001.pdf)

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. There are no prerequisites for this minor.

The minor in the Science of Physical Activity is a 12 hour minor. Students must have completed 60 hours of undergraduate coursework and be considered at a junior level to take the courses below.

### Minor Core (12 hours)

PET	3031	Motor Behavior
PET	4380	Applied Exercise Science
SPM	3012	Issues in Sport
PET	4844	Methods of Using Technology in Physical Education

### PHYSICAL EDUCATION FACULTY

*Professors:* F.N. Faucette, S. Sanders, M.J. Stewart; *Associate Professor:* H.B. Sun; *Assistant Professors:* S. Flory, L. Witherspoon.

## EXERCISE SCIENCE CONCENTRATION (BPW) (CIP = 13.1314 - TRACK 2 OF 2) TOTAL DEGREE HOURS: 120

<http://www.coedu.usf.edu/main/departments/phyped/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 Specialization in Exercise Science. This program is offered in the School of Physical Education & Exercise Science in the College of Education. The Exercise Science program prepares students for a variety of entry level positions in the exercise science field. See our website (<http://www.coedu.usf.edu/main/departments/phyped/programs/progEs.html>) for the types of jobs and job settings available as well as other important information. Successful completion of the program qualifies students for national professional certifications such as ACSM's Certified Health Fitness Specialist (HFS) and the National Strength and Conditioning Association's (NSCA's) Certified Strength and Conditioning Specialist (CSCS).

The course work is offered over a two-year period beginning in the fall semester of the student's junior year as shown below. The summer session (Session C – 10 weeks) between the junior and senior year is mandatory. Students can enter the program during the fall semester only and they progress through the program in a cohort.)

### 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 Foundations of Knowledge and Learning Core Curriculum requirements for the University of

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South Florida or for the Florida public college or university in which the student took his or her Foundations of Knowledge and Learning Core Curriculum requirements.

4.

### STATE MANDATED COMMON COURSE PREREQUISITES

These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

CHM X045/X045L or CHM X030  
HUN X201 or HUN X577 or HSC X100  
BSC X085/X085L or PET X322/X322L or APK X100C or BSC X093/X093L  
SPC X608 or AEE X030C  
BSC X086/X086L or PET X323/X323L or APK X105/X105L 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

### 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, finger printing, 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.)

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. Complete 10 hours of volunteer community service for a non-profit health care organization. Sign and submit an Assumption of Risk and Waiver document.

### Major requirements for the B.A. or B.S. Degree:

#### Major Core (57 hours)

PET 3211 Stress Management  
PET 3314 Professional Development Seminar  
APK 3120 Exercise Physiology  
PET 3361 Nutrition for Fitness and Sport  
PET 4219 Exercise Psychology  
PET 3312 Biomechanics  
PET 3384 Exercise Testing and Prescription  
PET 3404 Emergency Response and Planning  
PET 4402 Planning and Evaluating Fitness/Wellness Program  
XXX XXXX Capstone Course–Writing Intensive  
PET 3076 Fitness Throughout the Lifespan  
PET 3365 Physical Activity Epidemiology  
PET 4093 Strength and Conditioning  
PET 3713 Theory and Practice of Teaching Group Exercise

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PET 4088	Individualized Fitness/Wellness Programming (Capstone Course)
PET 4413	Administration of Fitness/Wellness Centers
PET 4550	Clinical Exercise Testing and Prescription
PET 4941	Internship in Fitness/Wellness

## Major Electives (3 hours)

PET XXXX Elective of student's choice

## 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.

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.

## GPA Requirements

Maintain a 2.5 GPA (overall and in major).

## Grading Requirement

Receive a grade of C- or higher in all required courses.

## General Education Core and Foundations of Knowledge and Learning (FKL) Requirements

General Education Core and Foundations of Knowledge and Learning Core Curriculum courses (General Education) will be determined by the Florida College System institution or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog. (For USF, see "Academic Policies and Procedures - Foundations of Knowledge and Learning Core Curriculum Requirements" section of the catalog.)

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>ENC 1101</u> Composition I	3	! <u>ENC 1102</u> Composition II	3
<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3	<u>PSY 2012</u> Introduction to Psychological Science	3
<u>SPC 2608</u> Public Speaking	3	General Elective	3
<u>SLS 2901</u> or General Elective	3	! <u>CHM 2045</u> General Chemistry I	3
! <u>MAC 1105</u> or MAC 1140 or MAC 1147 or MAC 2311	3	<u>CHM 2045L</u> General Chemistry I Laboratory	1
Semester Hours:	15	! <u>STA 2023</u> Introductory Statistics I	3
		Semester Hours:	16
		<b>Summer</b>	<b>Credit Hours</b>
		Study Abroad (Optional)	
		Semester Hours:	0
<b>Semester 3</b>	<b>Credit Hours</b>	<b>Semester 4</b>	<b>Credit Hours</b>

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! <u>BSC 2085</u> Anatomy and Physiology I for Health Professionals	3	! <u>BSC 2086</u> Anatomy and Physiology II for Nursing and other Healthcare Professionals	3
<u>CAFA</u> FKL/Gen Ed Fine Arts	3	<u>HHCP</u> FKL/Gen Ed Human Historical Context and Process	3
<u>HUN 2201</u> Nutrition	3	General Elective	3
General Elective	3	<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3
<u>SGEH</u> General Education Core Humanities	3	! <u>BSC 2086L</u> Anatomy and Physiology Lab II for Nursing and other Healthcare Professionals	1
! <u>BSC 2085L</u> Anatomy and Physiology Lab I for Nursing and other Healthcare Professionals	1		
Gordon Rule Communication		Semester Hours:	13
Semester Hours:	16		

## Summer

Apply to College of Education

## Credit Hours

Semester Hours: 0

## Semester 5

## Credit Hours

! <u>APK 3120</u> Exercise Physiology	3
! <u>PET 4219</u> Exercise Psychology	3
! <u>PET 3361</u> Nutrition for Fitness and Sport	3
! <u>PET 3211</u> Stress Management	2
! <u>PET 3314</u> Professional Development Seminar	1
Semester Hours:	12

## Semester 6

## Credit Hours

! <u>PET 3312</u> Biomechanics	3
! <u>PET 3404</u> Emergency Response and Planning	3
! <u>PET 3384</u> Exercise Testing and Prescription	3
! <u>WRIN</u> FKL/Gen Ed Writing Intensive Capstone	3
! <u>PET 4402</u> Planning and Evaluating Fitness/Wellness Programs	3
Semester Hours:	15

## Summer

<u>PET 3076</u> Fitness Across the Lifespan	3
<u>PET 3364</u> Physical Activity Epidemiology	3
<u>PET 4093</u> Strength and Conditioning	3

## Credit Hours

Semester Hours: 9

## Semester 7

## Credit Hours

! <u>PET 4413</u> Administration of Fitness/Wellness Centers	3
! <u>PET 4550</u> Clinical Exercise Testing and Prescription	3
! <u>PET 4088</u> Individualized Fitness/Wellness Programming	3
! <u>PET 3713</u> Theory and Practice of Teaching Group Exercise	3
Semester Hours:	12

## Semester 8

## Credit Hours

! <u>PET 4941</u> Internship in Fitness/Wellness	9
Apply for Graduation	
PET Upper-Level Elective	3
Semester Hours:	12

## PHYSICAL EDUCATION FACULTY

Professors: J. Eickhoff-Shemek, C.D. Ashley; Associate Professor: M. Kilpatrick, B. Campbell.

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## • B.A. OR B.S. - SCIENCE EDUCATION (SCE) (CIP = 13.1316) TOTAL DEGREE HOURS: 120

<http://www.coedu.usf.edu/main/departments/seced/Science/SCEbach.htm>

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. Prepares students for a career in middle and high schools.

### **STATE MANDATED COMMON COURSE PREREQUISITES**

These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

- EDF X005 Introduction to the Teaching Profession (3)
- EDF X085\* Teaching Diversity for Educators (3)
- EME X040 Introduction to Technology for Educators (3)

Other state mandated program prerequisites:

#### **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:

CHM X045/X045L or PHY X048/X048L or PHY X053/X053L or CHM X045C or PHY X048C or CHM X046/X046L or PHY X049/X049L or PHY X054/X054L or CHM X046C or PHY X049C (8)

Calculus I:

MAC X311 Calculus I or MAC X241 (4)

#### **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 (8)

Chemistry with Lab:

CHM X045/X045L and CHM X046/X046L or CHM X045C and CHM X046C (8)

Calculus:

MAC X311, MAC X312, MAC X313 (4)

\*In addition to EDF X085, a minimum of 6 semester hours with an international or diversity focus is required.

Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

## **REQUIREMENTS FOR THE MAJOR IN SCIENCE EDUCATION**

**TOTAL MAJOR HOURS: 75-97**

**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 (WRIN)
- EDF 4430 Measurement for Teachers
- EEX 4070 Integrating Exceptional Students in the Regular Classroom
- ESE 4322 Classroom Management for Diverse Schools and Society
- SCE 4936 Senior Seminar in Science Education (CPST)
- 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."



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## General Education Core and Foundations of Knowledge and Learning (FKL) Requirements

General Education Core and Foundations of Knowledge and Learning (FKL) Core Curriculum courses (General Education) will be determined by the Florida College System institution or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Counseling Manual. (For USF, see "Academic Policies and Procedures – Foundations of Knowledge and Learning Core Curriculum" section of the catalog.)

## Foundations of Knowledge and Learning (FKL) Exit Requirement

- SCE 4936 Senior Seminar in Science Education (Capstone)
- EDF 3604 Schools and Society (Writing Intensive)

## 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 for Undergraduate Research will assist students in understanding the various course options.

## REQUIREMENTS FOR THE BIOLOGY EDUCATION CONCENTRATION (BSB) (CIP = 13.1316 - TRACK 1 OF 5)

<http://www.coedu.usf.edu/main/departments/seced/Science/SCEbach.htm>

**TOTAL CONCENTRATION HOURS: 49**

### Concentration Core (49 hours)

#### Prerequisites:

- 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\*
- PHY 2048 & PHY 2049L General Physics I and Laboratory (with Calculus)  
or PHY 2053 & PHY 2053L General Physics I and Laboratory\*
- MAC 2281 Engineering Calculus I or MAC 2311 Calculus I

#### Specialization:

- 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
- BSC 4057 Environmental Issues (Exit)
- SCE 4305 Communication Skills in the Science Classroom
- SCE 4320 Teaching Methods in Middle Grades Science
- SCE 4330 Teaching Methods in Secondary School Science
- SCE 4863 Science, Technology, Society Interaction
- MAC 2311 Calculus I or MAC 2241 Life Sciences Calculus I

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>CHM 2045</u> or <u>PHY 2048</u> or <u>PHY 2053</u>	3	! <u>ENC 1102</u> Composition II	3
! <u>ENC 1101</u> Composition I	3	! <u>EDF 2005</u> Introduction to the Teaching Profession	3

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<u>SGEH</u> General Education Core Humanities	3	<u>MAC 2241</u> or <u>MAC 2281</u> or <u>MAC 2311</u>	3
<u>SGES</u> General Education Core Social Sciences	3	<u>CAHU</u> FKL/Gen Ed Humanities Complete International Diversity Req.	3
! <u>CHM 2045L</u> or <u>PHY 2048L</u> or <u>PHY 2053L</u>	1		
Complete Human Historical Context and Process Req.		Semester Hours:	12
Semester Hours:	13		

## Summer

## Credit Hours

Study Abroad (Optional)

Semester Hours: 0

Semester 3	Credit Hours	Semester 4	Credit Hours
! <u>BSC 2010</u> Cellular Processes	3	! <u>BSC 2011</u> Biodiversity	3
! <u>EME 2040</u> Introduction to Technology for Educators	3	! <u>EDF 2085</u> Introduction to Diversity for Educators	3
<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3	<u>CAFA</u> FKL/Gen Ed Fine Arts	3
<u>CAMA</u> or <u>CAQR</u>	3	<u>EDF 3604</u> Schools and Society	3
<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3	! <u>BSC 2011L</u> Biodiversity Laboratory Complete General Knowledge Test	1
! <u>BSC 2010L</u> Cellular Processes Laboratory	1	Semester Hours:	13
Gordon Rule Communication			
Semester Hours:	16		

## Summer

## Credit Hours

! <u>CHM 2046</u> or <u>PHY 2049</u> or <u>PHY 2054</u>	3
<u>TSL 4324</u> ESOL Competencies and Strategies	3
! <u>CHM 2046L</u> or <u>PHY 2049L</u> or <u>PHY 2054L</u>	1
Apply to College of Education	
Semester Hours:	7

Semester 5	Credit Hours	Semester 6	Credit Hours
! <u>SCE 4945</u> Practicum in Secondary Science Education	3	! <u>SCE 4330</u> Methods of Secondary Science Education	3
! <u>SCE 4320</u> Teaching Methods in Middle Grade Science I	3	<u>ESE 4322</u> Classroom Management for Diverse School and Society	3
<u>SCE 4305</u> Communication Skills in the Science Classroom	3	<u>PCB 4674</u> Organic Evolution	3
<u>BSC 4057</u> Environmental Issues	3	<u>PCB 3043</u> Principles of Ecology	3
<u>PCB 3063</u> General Genetics	3	<u>PCB 3043L</u> Principles of Ecology Laboratory	1
<u>PCB 3063L</u> General Genetics Laboratory	1	Semester Hours:	13
Semester Hours:	16		

## Summer

## Credit Hours

<u>CHM 2210</u> Organic Chemistry I	3
<u>EEX 4070</u> Integrating Exceptional Students in the Regular Classroom	2

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Apply for Final Internship

		Semester Hours:	5
<b>Semester 7</b>	<b>Credit Hours</b>	<b>Semester 8</b>	<b>Credit Hours</b>
<u>PCB 3023</u> Cell Biology	3	! <u>SCE 4940</u> Internship: Science Education	9
<u>EDF 3214</u> Human Development and Learning	3	! <u>SCE 4936</u> Senior Seminar in Science Education	3
<u>EDF 4430</u> Measurement For Teachers	3	Complete ESOL Binder	
<u>SCE 4863</u> Science, Technology, Society Interaction	3	Complete FTCE: Subject Area & Prof. Ed.	
<u>PCB 3023L</u> Cell Biology Laboratory	1	Semester Hours:	12
Semester Hours:	13		

## REQUIREMENTS FOR THE CHEMISTRY EDUCATION CONCENTRATION (BSC) (CIP = 13.1316 - TRACK 2 OF 5)

<http://www.coedu.usf.edu/main/departments/seced/Science/SCEbach.htm>

**TOTAL CONCENTRATION HOURS: 43**

### Concentration Core (43 hours)

#### Prerequisites:

CHM 2045	General Chemistry I*
CHM 2045L	General Chemistry I Laboratory*
CHM 2046	General Chemistry II*
CHM 2046L	General Chemistry II Laboratory*
PHY 2053	General Physics I
PHY 2053L	General Physics I Laboratory*
MAC 2311	Calculus I

#### Specialization:

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
SCE 4320	Teaching Methods in Middle Grades Science
SCE 4330	Teaching Methods in Secondary School Science
SCE 4305	Communication Skills in the Science Classroom
SCE 4863	Science, Technology, Science Interaction

### Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

<b>Semester 1</b>	<b>Credit Hours</b>	<b>Semester 2</b>	<b>Credit Hours</b>
! <u>MAC 2281</u> or <u>MAC 2311</u>	4	! <u>ENC 1102</u> Composition II	3
! <u>ENC 1101</u> Composition I	3	! <u>CAMA</u> or <u>CAQR</u>	3
<u>SGEH</u> General Education Core Humanities	3	! <u>EME 2040</u> Introduction to Technology for Educators	3
<u>SGES</u> General Education Core Social Sciences	3	<u>CAHU</u> FKL/Gen Ed Humanities	3
Gordon Rule Communication		General Elective	1
Semester Hours:	13	Complete International Diversity Req.	
		Semester Hours:	13

# COLLEGE OF EDUCATION

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Summer		Credit Hours	
Study Abroad (Optional)		Semester Hours: 0	
Semester 3	Credit Hours	Semester 4	Credit Hours
! <a href="#">CHM 2045</a> General Chemistry I	3	! <a href="#">EDF 2085</a> Introduction to Diversity for Educators	3
! <a href="#">EDF 2005</a> Introduction to the Teaching Profession	3	! <a href="#">PHY 2053</a> or <a href="#">PHY 2048</a>	3
<a href="#">CAGC</a> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3	<a href="#">CAFA</a> FKL/Gen Ed Fine Arts	3
<a href="#">CASB</a> FKL/Gen Ed Social and Behavioral Sciences	3	<a href="#">CANL</a> FKL/Gen Ed Natural Sciences (Life Science)	3
! <a href="#">CHM 2045L</a> General Chemistry I Laboratory	1	<a href="#">EEX 4070</a> Integrating Exceptional Students in the Regular Classroom	2
Complete Foreign Language Req. (If Necessary)		! <a href="#">PHY 2048L</a> or <a href="#">PHY 2053L</a>	1
Complete Human Historical Context and Process Req.		Complete Foreign Language Req. (If Necessary)	
		Complete General Knowledge Test	
Semester Hours:	13	Semester Hours:	15

Summer	Credit Hours
<a href="#">CHM 2046</a> General Chemistry II	3
<a href="#">CHM 2046L</a> General Chemistry II Laboratory	1
Apply to College of Education	
Semester Hours:	4

Semester 5	Credit Hours	Semester 6	Credit Hours
! <a href="#">PHY 2049</a> or <a href="#">PHY 2054</a>	3	! <a href="#">SCE 4330</a> Methods of Secondary Science Education	3
! <a href="#">SCE 4945</a> Practicum in Secondary Science Education	3	<a href="#">CHM 3610</a> Intermediate Inorganic Chemistry	3
! <a href="#">SCE 4320</a> Teaching Methods in Middle Grade Science I	3	<a href="#">EDF 4430</a> Measurement For Teachers	3
<a href="#">EDF 3214</a> Human Development and Learning	3	<a href="#">SCE 4863</a> Science, Technology, Society Interaction	3
<a href="#">CHM 2210</a> Organic Chemistry I	3	<a href="#">CHM 3610L</a> Intermediate Inorganic Chemistry Laboratory	1
<a href="#">CHM 2210L</a> Organic Chemistry Laboratory I	2	Semester Hours:	13
! <a href="#">PHY 2049L</a> or <a href="#">PHY 2054L</a>	1		
Semester Hours:	18		

Summer	Credit Hours
<a href="#">ESE 4322</a> Classroom Management for Diverse School and Society	3
<a href="#">CHM 4070</a> Historical Perspectives in Chemistry	3
Apply for Final Internship	
Semester Hours:	6

Semester 7	Credit Hours	Semester 8	Credit Hours
<a href="#">CHM 3120C</a> Elementary Analytical Chemistry	4	! <a href="#">SCE 4940</a> Internship: Science Education	9

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<u>SCE 4305</u> Communication Skills in the Science Classroom	3	!	<u>SCE 4936</u> Senior Seminar in Science Education	3
<u>TSL 4324</u> ESOL Competencies and Strategies	3		Complete ESOL Binder	
<u>EDF 3604</u> Schools and Society	3		Complete FTCE: Subject Area & Prof. Ed.	
Semester Hours:	13		Semester Hours:	12

## MIDDLE SCHOOL SCIENCE EDUCATION CONCENTRATION (BDS) (CIP = 13.1316 - TRACK 5 OF 5)

<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.

## REQUIREMENTS FOR THE CONCENTRATION IN MIDDLE SCHOOL SCIENCE EDUCATION

**TOTAL CONCENTRATION HOURS: 65**

### Concentration Core (65 hours)

ESC 3210	Earth and Space Science Fundamentals
SCE 4320	Teaching Methods in Middle Grade Science
EDM 3403	Middle-Level Education
SCE 3941	Practicum I: Middle School Science Education
TSL 4324	ESOL Competencies and Strategies
BSC 3813	Life Science Fundamentals for Teachers
SCE 4305	Communication Skills in the Science Classroom
SCE 4330	Methods of Secondary Science Education
ESE 4322	Classroom Management for Diverse School and Society
SCE 3942	Practicum II: Middle School Science Education
EDF 3214	Human Development and Learning
EDM 3620	Teaching the Young Adolescent Learner
EEX 4070	Integrating Exceptional Students in the Regular Classroom
ISC 3403C	Physical Science Fundamentals for Teachers
EDF 4430	Measurement for Teachers
SCE 4941	Internship I: Middle School Science Education
EDM 4406	Contemporary Issues in STEM Education
EDF 3604	Schools and Society
SCE 4942	Internship II: Middle School Science Education

### Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>BSC 2010</u> or <u>CHM 2045</u> or <u>PHY 2048</u>	3	! <u>BSC 2011</u> or <u>CHM 2046</u> or <u>PHY 2049</u>	3
<u>ENC 1101</u> Composition I	3	! <u>EDF 2005</u> Introduction to the Teaching Profession	3
<u>SGES</u> General Education Core Social Sciences	3	<u>ENC 1102</u> Composition II	3
! <u>BSC 2010L</u> or <u>CHM 2045L</u> or <u>PHY 2048L</u>	1	<u>CAMA</u> or <u>CAQR</u> (Take a CAMA or CAQR course, depending the core Mathematics course taken.)	3
<u>SGEM</u> General Education Core Mathematics	3	! <u>BSC 2011L</u> or <u>CHM 2046L</u> or <u>PHY 2049L</u>	1
Gordon Rule Communication		Semester Hours:	13
Semester Hours:	13		

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<b>Summer</b>		<b>Credit Hours</b>	
Study Abroad (Optional)		Semester Hours: 0	
<b>Semester 3</b>	<b>Credit Hours</b>	<b>Semester 4</b>	<b>Credit Hours</b>
! <a href="#">EDF 2085</a> Introduction to Diversity for Educators	3	! <a href="#">GLY 2100</a> History of Life	3
<a href="#">CAGC</a> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3	! <a href="#">EME 2040</a> Introduction to Technology for Educators	3
<a href="#">OCE 2001</a> Introduction to Oceanography	3	<a href="#">CAFA</a> FKL/Gen Ed Fine Arts	3
<a href="#">CASB</a> FKL/Gen Ed Social and Behavioral Sciences	3	<a href="#">SGEH</a> General Education Core Humanities	3
General Elective	3	! <a href="#">GLY 2100L</a> Earth History Laboratory	1
Complete Foreign Language (If Necessary)		Complete Foreign Language (If Necessary)	
Semester Hours:	15	Complete General Knowledge Test	
		Complete International Diversity Req.	
		Semester Hours:	13
<b>Summer</b>		<b>Credit Hours</b>	
<a href="#">CAHU</a> FKL/Gen Ed Humanities		3	
Apply to College of Education		Semester Hours: 3	
<b>Semester 5</b>	<b>Credit Hours</b>	<b>Semester 6</b>	<b>Credit Hours</b>
! <a href="#">TSL 4324</a> ESOL Competencies and Strategies	3	! <a href="#">ESE 4322</a> Classroom Management for Diverse School and Society	3
! <a href="#">EDM 3403</a> Middle Level Education	3	! <a href="#">SCE 4305</a> Communication Skills in the Science Classroom	3
! <a href="#">SCE 4320</a> Teaching Methods in Middle Grade Science I	3	! <a href="#">BSC 3813</a> Life Science Fundamentals for Teachers	3
! <a href="#">SCE 3941</a> Practicum I: Middle School Science Education	2	! <a href="#">SCE 4330</a> Methods of Secondary Science Education	3
<a href="#">ESC 3210</a> Earth and Space Science Fundamentals	4	! <a href="#">SCE 3942</a> Practicum II: Middle School Science Education	2
Semester Hours:	15	Semester Hours:	14
<b>Summer</b>		<b>Credit Hours</b>	
<a href="#">EDF 3214</a> Human Development and Learning		3	
<a href="#">EEX 4070</a> Integrating Exceptional Students in the Regular Classroom		3	
<a href="#">EDM 3620</a> Teaching the Young Adolescent Learner		3	
Apply for Final Internship		Semester Hours: 9	
<b>Semester 7</b>	<b>Credit Hours</b>	<b>Semester 8</b>	<b>Credit Hours</b>
! <a href="#">SCE 4941</a> Internship I: Middle School Science Education	6	! <a href="#">SCE 4942</a> Internship II: Middle School Science Education	6
! <a href="#">EDF 4430</a> Measurement For Teachers	3	! <a href="#">EDF 3604</a> Schools and Society	3
<a href="#">ISC 3403C</a> Physical Science Fundamentals for Teachers	4	! <a href="#">EDM 4406</a> Contemporary Issues in STEM Education	3
		! Complete ESOL Binder	

# COLLEGE OF EDUCATION

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Semester Hours: 13 ! Complete FTCE: Subject Area & Prof. Ed.

Semester Hours: 12

## REQUIREMENTS FOR THE PHYSICS EDUCATION CONCENTRATION (BSY) (CIP = 13.1316 - TRACK 4 OF 5)

<http://www.coedu.usf.edu/main/departments/seced/Science/SCEbach.htm>

**TOTAL CONCENTRATION HOURS: 55**

### Concentration Core (55 hours)

#### Prerequisites:

- CHM 2045 General Chemistry I\*
- CHM 2045L General Chemistry Lab\*
- CHM 2046 General Chemistry II\*
- CHM 2046L General Chemistry II Lab\*
- PHY 2048 General Physics I – Calculus Based
- PHY 2048L General Physics I – Calculus Based Lab\*
- PHY 2049 General Physics II – Calculus Based
- PHY 2049L General Physics II – Calculus Based Lab\*

#### Specialization:

- PHY 2020 Conceptual Physics
- PHY 3101 Modern Physics
- PHY 3221 Mechanics I
- PHY 3323C Electricity and Magnetism
- PHZ 3113 Mathematical Methods in Physics
- SCE 4320 Teaching Methods in Middle Grade Science
- SCE 4330 Teaching Methods in Secondary School Science
- SCE 4305 Communication Skills in the Science Classroom
- SCE 4863 Science, Technology, Society Interaction
- MAC 2311 Calculus I
- MAC 2312 Calculus II
- MAC 2313 Calculus III

\*May be part of Foundations of Knowledge and Learning Core Curriculum Requirements

### Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>MAC 2281</u> or <u>MAC 2311</u>	4	! <u>MAC 2282</u> or <u>MAC 2312</u>	4
<u>ENC 1101</u> Composition I	3	! <u>CHM 2045</u> General Chemistry I	3
<u>PHY 2020</u> Conceptual Physics	3	<u>ENC 1102</u> Composition II	3
<u>CAFA</u> FKL/Gen Ed Fine Arts	3	<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3
<u>SGES</u> General Education Core Social Sciences	3	! <u>CHM 2045L</u> General Chemistry I Laboratory	1
Gordon Rule Communication		Complete Human Historical Context and Process Req.	
Semester Hours:	16	Semester Hours:	14
<b>Summer</b>		<b>Credit Hours</b>	
Study Abroad (Optional)			
Semester Hours:		0	
<b>Semester 3</b>	<b>Credit Hours</b>	<b>Semester 4</b>	<b>Credit Hours</b>

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<p>! <u>MAC 2313</u> or <u>MAC 2283</u> 4</p> <p><u>EDF 2085</u> Introduction to Diversity for Educators 3</p> <p>! <u>PHY 2048</u> General Physics I - Calculus Based 3</p> <p><u>SGEH</u> General Education Core Humanities 3</p> <p>! <u>PHY 2048L</u> General Physics I Laboratory 1</p> <p style="text-align: right;">Semester Hours: 14</p>	<p>! <u>CHM 2046</u> General Chemistry II 3</p> <p><u>EME 2040</u> Introduction to Technology for Educators 3</p> <p><u>EDF 2005</u> Introduction to the Teaching Profession 3</p> <p>! <u>PHY 2049</u> General Physics II - Calculus Based 3</p> <p>! <u>CHM 2046L</u> General Chemistry II Laboratory 1</p> <p>! <u>PHY 2049L</u> General Physics II Laboratory 1</p> <p>Complete General Knowledge Test</p> <p style="text-align: right;">Semester Hours: 14</p>
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### Summer

### Credit Hours

<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
<u>EDF 3214</u> Human Development and Learning	3
<u>CAHU</u> FKL/Gen Ed Humanities	3
Apply to College of Education	
Complete Foreign Language (If Necessary)	
Complete International Diversity Req.	
Semester Hours:	9

### Semester 5

### Credit Hours

! <u>SCE 4320</u> Teaching Methods in Middle Grade Science I	3
! <u>SCE 4945</u> Practicum in Secondary Science Education	3
<u>EDF 3604</u> Schools and Society	3
Complete Foreign Language (If Necessary)	
! <u>PHZ 3113</u> Mathematical Methods in Physics	3
! <u>PHY 3101</u> Modern Physics	3
Semester Hours:	15

### Semester 6

### Credit Hours

! <u>SCE 4330</u> Methods of Secondary Science Education	3
<u>TSL 4324</u> ESOL Competencies and Strategies	3
! <u>SCE 4305</u> Communication Skills in the Science Classroom	3
! <u>PHY 3323</u> Electricity and Magnetism I	3
Semester Hours:	12

### Summer

### Credit Hours

Apply for Final Internship	
Semester Hours:	0

### Semester 7

### Credit Hours

! <u>EDF 4430</u> Measurement For Teachers	3
! <u>SCE 4863</u> Science, Technology, Society Interaction	3
! <u>PHY 3221</u> Mechanics I	3
! <u>ESE 4322</u> Classroom Management for Diverse School and Society	3
Semester Hours:	12

### Semester 8

### Credit Hours

! <u>SCE 4940</u> Internship: Science Education	9
! <u>SCE 4936</u> Senior Seminar in Science Education	3
<u>EEX 4070</u> Integrating Exceptional Students in the Regular Classroom	2
Complete ESOL Binder	
Complete FTCE: Subject Area & Prof. Ed.	
Semester Hours:	14



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## SCIENCE EDUCATION FACULTY

*Chairperson:* A. Cranston-Gingras; *Professors:* M. Berson, B.C. Cruz, J.A. Duplass, A.P. Feldman, J.H. Johnston, J.F. Kaywell, G. Kersaint, B.S. Spector, D.R. Thompson, S.J. Thornton, D. Zeidler; *Emeritus Professors:* J.H. Applegate, D.J. Puglisi, H.E. Steiner; *Associate Professors:* P.L. Jones, D. Kim, J. Lontas, *Emeritus Associate Professors:* J. Golub, J.A. White; *Assistant Professors:* S. Colomer, C. Ellerbrock, S. Eskelson, B. Herman, V. Pitts-Bannister, R. Sears, E. Vomvoridi-Ivanovic; *Instructors:* P.C. Smith, T. Walseth; *Visiting Assistant Professor:* L. Rodeslier.

### • B.S. - SOCIAL SCIENCE EDUCATION (BSS) (CIP = 13.1317) TOTAL DEGREE HOURS: 120

[http://www.coedu.usf.edu/main/departments/seced/SSE/SSE\\_BacCurrent.html](http://www.coedu.usf.edu/main/departments/seced/SSE/SSE_BacCurrent.html)

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

These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

EDF X005 Introduction to the Teaching Profession (3)  
EDF X085\* Teaching Diversity for Educators (3)  
EME X040 Introduction to Technology for Educators (3)

Other program prerequisites\*\*:

AMH X010 (3)  
AMH X020 (3)  
POS X041 (3)  
ECO XXXX or SOC XXXX or ANT XXXX or PSY XXXX or GEA XXXX (3)

\*In addition to EDF X085, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the Florida College System institution or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

\*\*Courses specified in this category may apply to Foundations of Knowledge and Learning (FKL) Core Curriculum coursework.

### REQUIREMENTS FOR THE MAJOR IN SOCIAL SCIENCE EDUCATION TOTAL MAJOR HOURS: 87

Major requirements for the B.S. Degree:

Major Core (87 hours)

Professional Education Core:

EDF 3214 Human Development and Learning  
EDF 3604 Schools and Society (WRIN)  
EDF 4430 Measurement for Teachers  
EEX 4070 Integrating Exceptional Students in the Regular Classroom  
TSL 4324 ESOL Competencies and Strategies  
ESE 4322 Classroom Management for Diverse School and Society

Social Sciences Specialization:

AMH 2010 American History I  
AMH 2020 American History II  
AMH 3421 Early Florida  
AMH 3423 Modern Florida  
GEA 2000 World Regional Geography  
HUM 2210 Studies in Culture: Classical through Medieval  
HUM 2230 Studies in Culture: Renaissance through the 20th Century  
INR 3018 World Ideologies  
POS 2112 State and Local Government

One of the following:

ANT 2000 Introduction to Anthropology  
ANT 2410 Cultural Anthropology

Upper-level Social Science course

One of the following:

ECO 1000 Basic Economics

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ECO 2013 Macroeconomics

**One of the following:**

SYG 2000 Introduction to Sociology

SYG 2010 Contemporary 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 4600 Reading and Basic Skills in the Social Sciences

SSE 4936 Senior Seminar in Social Sciences Education (CPST)

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.

In addition to the courses listed, students must complete "Preliminary Requirements for Students entering Teacher Education Programs." It is recommended that students pursue a double major in Social Science Education with History or one of the Social Sciences.

## General Education Core and Foundations of Knowledge and Learning (FKL) Requirements

General Education Core and Foundations of Knowledge and Learning Core Curriculum courses (General Education) will be determined by the Florida College System institution or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Counseling Manual. (For USF, see "Academic Policies and Procedures – Foundations of Knowledge and Learning Core Curriculum" section of the catalog.)

## Foundations of Knowledge and Learning (FKL) Exit Requirement

EDF 3604 Schools and Society (WRIN)

SSE 4936 Senior Seminar in Social Sciences Education (CPST)

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
<u>AMH 2010</u> American History I	3	! <u>EDF 2005</u> Introduction to the Teaching Profession	3
! <u>ENC 1101</u> Composition I	3	<u>AMH 2020</u> American History II	3
<u>CAFA</u> FKL/Gen Ed Fine Arts	3	! <u>ENC 1102</u> Composition II	3
! <u>SGEM</u> General Education Core Mathematics	3	<u>CAMA</u> or <u>CAQR</u> or FKL/Gen Ed Mathematics (Take a CAMA or CAQR course, depending on the core Mathematics course taken.)	3
<u>SGEH</u> General Education Core Humanities	3	<u>SGEN</u> General Education Core Natural Sciences	3
Semester Hours:	15	Semester Hours:	15
<b>Summer</b>		<b>Credit Hours</b>	
Study Abroad (Optional)		Semester Hours:	0
Semester 3	Credit Hours	Semester 4	Credit Hours
! <u>EME 2040</u> Introduction to Technology for Educators	3	! <u>EDF 2085</u> Introduction to Diversity for Educators	3
<u>ECO 1000</u> or <u>ECO 2013</u>	3	<u>POS 2041</u> or <u>POS 2080</u>	3
		<u>ANT 2000</u> or <u>ANT 2410</u>	3

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<u>CANL</u> or <u>CANP</u> (Take a <u>CANL</u> or <u>CANP</u> course, depending on the core Natural Sciences course taken.)	3	<u>HUM 2230</u> European Humanities: Renaissance - 20th Century	3
<u>GEA 2000</u> World Regional Geography	3	<u>SYG 2000</u> or <u>SYG 2010</u>	3
Semester Hours:	12	Complete General Knowledge Test	
		Semester Hours:	15

### Summer

### Credit Hours

Apply to College of Education & Criminal Background Check

Semester Hours: 0

Semester 5	Credit Hours	Semester 6	Credit Hours
<u>EDF 3604</u> Schools and Society	3	<u>6AC</u> FKL/Gen Ed Gordon Rule Communication	3
<u>POS 2112</u> State and Local Government and Politics	3	<u>EDF 3214</u> Human Development and Learning	3
! <u>SSE 4333</u> Teaching Middle Grades Social Science	3	<u>TSL 4324</u> ESOL Competencies and Strategies	3
<u>SSE 4600</u> Reading and Basic Skills in the Social Studies Class	3	! <u>SSE 4334</u> Teaching Secondary Grades Social Science	3
<u>HUM 2210</u> Studies in Culture: The Classical Through Medieval Periods	3	<u>AMH 3423</u> Modern Florida	3
Semester Hours:	15	<u>EDF 4430</u> Measurement For Teachers	3
		Semester Hours:	18

### Summer

### Credit Hours

Apply to Final Internship

ESE 4322 Classroom Management for Diverse School and Society 3

EEX 4070 Integrating Exceptional Students in the Regular Classroom 3

Semester Hours: 6

Semester 7	Credit Hours	Semester 8	Credit Hours
! <u>SSE 4335</u> Teaching Social Science Themes	3	! <u>SSE 4940</u> Internship: Social Science Education	9
Complete FTCE: Subject Area & Prof. Ed.		! <u>SSE 4936</u> Senior Seminar in Social Science Education	3
Social Science Upper-Level Elective	3	Semester Hours:	12
<u>INR 3018</u> World Ideologies	3		
<u>AMH 3421</u> Early Florida	3		
Semester Hours:	12		

## 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 for Undergraduate Research will assist students in understanding the various course options.

## Internship 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

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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.

## SOCIAL SCIENCE EDUCATION FACULTY

*Chairperson:* A. Cranston-Gingras; *Professors:* M. Berson, B.C. Cruz, J.A. Duplass.

## REQUIREMENTS FOR THE MINOR IN EDUCATIONAL FOUNDATIONS AND RESEARCH (EFR)

**TOTAL MINOR HOURS: 18**

[http://www.coedu.usf.edu/main/sas/documents/EFR-MinorReferenceAdvisingSheet\\_001.pdf](http://www.coedu.usf.edu/main/sas/documents/EFR-MinorReferenceAdvisingSheet_001.pdf)

### Minor Core (9 hours)

EDF 3514 History of Education in the U.S.  
EEX 4742 Narrative Perspectives on Exceptionality  
EDF 4490 Studies in Research Design

### Minor Electives (9 hours)

EDF 3604 Schools and Society or SYO 4250 Sociology of Education  
DEP 4005 Developmental Psychology or DEP 3103 Child Psychology  
EDF 3122 Learning and the Developing Child or EDF 3214 Human Development and Learning or EDF 4111 Child Growth and Learning

### GPA Requirements

2.0 Overall GPA

### Grading Requirement

All course grades must be C or above.

# COLLEGE OF ENGINEERING

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## MISSION STATEMENT

The mission of the College of Engineering at the University of South Florida is to improve the quality of life in our community by:

- Providing a high-quality education for our students and practicing professionals;
- Creating new knowledge and solving real world problems via innovative research;
- Engaging in effective community service and outreach.

## GOALS AND VALUES

Utilizing the expertise of its individual and collective faculty, the College is dedicated to the development of new fundamental knowledge and processes or procedures, which will benefit humanity. The College promotes multi-disciplinary approaches, commitment to life-long learning and awareness of societal issues, which are requisite for meeting technological challenges.

The College provides technical assistance and technology transfer to the region, state and nation. In all facets of teaching, research and service, the College emphasizes close liaisons with industry and government to provide students and faculty with the skills and perspectives needed to ensure effective technological leadership and to achieve and sustain national recognition in focused areas of research.

The College of Engineering's faculty and staff value and promote a student-centric environment, innovation, collaboration, collegiality, commitment to continuous improvement, service to humanity and diversity. Through the support and emphasis of these values, the College leads by example and passes these attributes on to the students, empowering them to be creative and innovative engineering professionals in the 21st century as their work influences and impacts humanity.

## Following are the undergraduate academic programs offered by the College of Engineering:

### **Bachelor of Science in Chemical Engineering (B.S.C.H.)**

Chemical Engineering (ECH)

### **Bachelor of Science in Civil Engineering (B.S.C.E.)**

Civil Engineering (ECE)

### **Bachelor of Science in Computer Engineering (B.S.C.P.)**

Computer Engineering (ECP)

### **Bachelor of Science in Computer Science (B.S.C.S.)**

Computer Science (BCS)

### **Bachelor of Science in Electrical Engineering (B.S.E.E.)**

Electrical Engineering (EEL)

### **Bachelor of Science in Industrial Engineering (B.S.I.E.)**

Industrial Engineering (EIE)

### **Bachelor of Science in Information Technology (B.S.I.T.)**

Information Technology (ITC)

### **Bachelor of Science in Mechanical Engineering (B.S.M.E.)**

Mechanical Engineering (EME)

## Minors

Biomedical Engineering (EBI)

Computer Science (BCS)

IT General Minor (ITG)

IT Technical Minor (ITE)

## 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. The Bachelor of Science degree program in Computer Science is accredited by the Computing Accreditation Commission of ABET, [www.abet.org](http://www.abet.org).

## DEPARTMENTS AND PROGRAMS

The College of Engineering offers undergraduate and graduate programs to prepare students for a broad spectrum of professional careers in engineering. Laboratory experiences, as well as real-world participation in technological problem solving, are key aspects of a professional engineer's education. The laboratory and research facilities of the College of Engineering, close collaboration with engineering professional societies and the many industries in the metropolitan Tampa Bay area provide a wide range of experiential learning opportunities for engineering students at the University of South Florida. The College of Engineering offers undergraduate degrees in Chemical Engineering, Civil Engineering, Computer Engineering, Computer Science, Electrical Engineering, Industrial Engineering, Information Technology, Mechanical Engineering. In addition, the College offers minors in Biomedical

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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: <http://www.usf.edu/engineering/>.

## **Following are the undergraduate academic programs offered by the College of Engineering:**

### **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 Major – 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 550 **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 Major – 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.

### **Admission Requirements for First Time in College Students applying to the Information Technology Major**

1. 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**

For the specific state mandated common prerequisite courses for the Information Technology major, please see the section entitled, "State Mandated Common Course Prerequisites" located in the Information Technology major.

## **Undergraduate Student Advising Information**

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

# COLLEGE OF ENGINEERING

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## UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

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guidance. New students must attend the University's Orientation program. They will be introduced to the Engineering advisors during this program and receive advisement for their first semester. The student and advisors jointly work out a plan of study that meets both the student's career objectives and the College of Engineering's degree requirements. While the College provides advising services to assist students with academic planning, the student is responsible for knowing and meeting all performance standards and graduation requirements.

### Advising Center

Tampa Campus: Engineering Building III, (ENC), TECO Energy Hall, Room 1302, (813) 974-2684. Visit <http://www.usf.edu/engineering/student-services/>.

### Minimum Performance and Graduation 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 with student classifications of engineering and students who have been admitted to any academic department in the College must earn the required grade in math, science, and engineering courses in no more than 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 engineering students. However, for the purpose of continuation in the in the Computer Science and Computer Engineering programs, attempts in CDA 3103 and COP 3514 are limited to two. See "Entrance Requirements for the Academic Majors".

Students who are ineligible for further registration in the College of Engineering will be provided with a wide range of services to assist them in selecting a new career path. Students who have been academically dismissed from the University of South Florida, or leave on probation, may choose to attend another institution of higher learning and reapply to USF after improving their overall GPA. These returning students will be considered for readmission to the College if they meet the minimum College of Engineering admission requirements for transfer students and the program entrance requirements for their intended major as published in the University of South Florida Undergraduate Catalog in effect during the term of return.

### 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 the section above are in addition to requirements set forth in the University policy and procedures section and the departmental sections of this catalog. It is the student's responsibility to complete all university, college, program and curricular requirements prior to graduation.

### Student Laptop Computer Requirement

All students entering the College of Engineering are required to have a laptop computer that they can use in their engineering classes and labs. The laptop computer must be capable of connecting to the Internet via wireless. The minimum computer requirements can be found on the College of Engineering website. Students in the Information Technology program may not need a laptop, a desktop computer may be sufficient.

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## **Graduation Application Procedures and Deadlines**

Each College of Engineering student is required to complete an application for graduation and graduation check list. Students should meet with their program advisor to review graduation qualifications and obtain approval well in advance of the College graduation application deadline. The graduation application deadline for the college is set prior to the university deadline and is posted on the College of Engineering Student Services website.

Note: Applications are generally due before the beginning of the graduating term. Individual academic departments may have a graduation application deadline that precedes the college one.

## **Grading Policies**

### **1. S/U Grading Policy**

Students pursuing College of Engineering degree programs are expected to take their courses on a graded basis. Please refer to the grading system in the Academic Policies and Procedures section of this catalog. S/U grading option must be requested during the first week of classes. Courses taken on an S/U basis are not applicable to the College's degree programs. Exceptions require written approval of the department advisor prior to registration.

### **2. I Grade Policy**

The criteria for requesting and time limit for completing a grade of "I" (incomplete) are detailed in the Academic Policies and Procedures portion of this Catalog. A written agreement detailing the specific requirements and time limit for completion is required.

Full tuition must be paid and an audit form must be submitted to the Registrar's Office by the end of the first week of classes if a student wishes to attend the course again to review the material. If a student registers for the course but does not request to audit the course, a grade will be submitted for the subsequent registration and an I grade will remain on the transcript.

### **3. Minimum Acceptable Grade in Required Courses**

The minimum acceptable grade in math and science prerequisites is a C (C- is insufficient). The minimum acceptable grade in courses is determined by the academic department. Students are strongly encouraged to familiarize themselves with the math/science GPA required for admission to the intended department as well as the minimum grade required in engineering courses. Grades higher than the minimum of C may be indicated.

## **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. The Bachelor of Science degree program in Computer Science is accredited by the Computing Accreditation Commission of ABET, [www.abet.org](http://www.abet.org).

## **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.



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## 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.

## 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.)

## Student Academic Grievance Procedure

Students should make themselves fully aware of the University's grievance procedures. (See University policies regarding student academic grievance procedures.)

## Preparation for Engineering

The high school student anticipating a career in engineering should present a strong academic record including four years of advanced high school mathematics and science including chemistry and physics. Prospective students who lack sufficient preparation in high school may need additional preparatory coursework at the University of South Florida.

## 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 Accelerated Graduate Program leading simultaneously to the Bachelor of Science in Engineering and Master of Science in Engineering degrees. The general basis of the accelerated program includes:

- The opportunity to take graduate-level courses during the fourth year.
- Up to twelve credit hours may be shared between the undergraduate and graduate degree, with approval from both the Undergraduate and Graduate Program Directors.

Students apply for admission to this program through their departmental advisor. Admissions requirements vary by department. Minimum application requirements:

- Senior standing (90 credits)
- At least 15 upper level engineering credits completed
- Meet or exceed the graduate program entrance requirements of the department.

## • 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 design. Students must also satisfactorily complete a design project as part of their program. Chemical and Biomedical engineering students must maintain a GPA of 2.0 in required departmental courses. Therefore, it is imperative that the students retain close contact with their advisor.

Students completing this program normally initiate their careers in manufacturing, environmental, and biological enterprises. Chemical engineers are found in administrative, technical, and research positions in these industries. Main products of these industries are petrochemicals, polymers, fibers, natural and synthetic fuels, electronic materials, fertilizers, pharmaceuticals, bio-materials, etc.

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## 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

The overall objective of the bachelor's degree program 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 program 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.

## Entrance Requirements for the Chemical Engineering Program

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 Department*

1. 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 Calculus-based Physics II with Lab (PHY 2049 and PHY 2049L)
  - o General Chemistry I with Lab (CHM 2045 and CHM 2045L)
2. A minimum grade of C in each course.
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.

## 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.

## STATE MANDATED COMMON COURSE PREREQUISITES

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.

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Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at a Florida College System institution, they must be completed before the degree is granted. Unless stated otherwise, a grade of C is the minimum acceptable grade.

Students qualify for direct entry to their intended department if they have completed the following courses at a Florida College System institution or University in the Florida State University System (SUS) and meet all other admissions requirements of the University and College.

The following are transferable courses from the Florida College System Institution that will be accepted in the Math/Science/Engineering areas:

### *Mathematics:*

#### **Courses at USF**

MAC 2281 Engineering Calculus I  
MAC 2282 Engineering Calculus II  
MAC 2283 Engineering Calculus III  
MAP 2302 Differential Equations

#### **Courses at a Florida College System Institution**

MAC X311 or MAC X281  
MAC X312 or MAC X282  
MAC X313 or MAC X283  
MAP X302 or MAP X305

### *Natural Sciences:*

#### **Courses at USF**

CHM 2045/CHM 2045L General Chemistry I with Lab  
CHM 2046/CHM 2046L General Chemistry II with Lab  
PHY 2048/2048L General Physics I - Calculus Based with Lab  
PHY 2049/2049L General Physics II - Calculus Based with Lab

#### **Courses at a Florida College System Institution**

CHM X045/X045L or CHM X045C or CHS X440/X440L  
CHM X046/X046L or CHM X046C  
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: 107**

**Major requirements for the B.S.C.H. Degree:**

**Major Core (94 hours)**

#### **Math and Science (36 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 & 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

#### **Basic Engineering (4 credit hours)**

EGN 3000 Foundations of Engineering  
EGN 3000L Foundations of Engineering  
EGN 3343 Thermodynamics I

#### **Specialization (51 credit hours)**

ECH 3002 Introduction to Chemical & Biomedical Engineering  
ECH 3854 Chemical & Biomedical 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 3702 Instrument Systems I  
ECH 4418 Separation Processes  
ECH 4267 Transport Phenomena II  
BME 4406 Engineering of Biological Systems  
ECH 3240L Chemical Engineering Lab I  
ECH 4504 Kinetics and Reaction Engineering

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ECH 4605	Product and Process Systems Engineering
EMA 4003	Introduction to Materials Science
ECH 4241L	Chemical Engineering Laboratory II
ECH 4323C	Process Dynamics and Control
ECH 4615	Product and Process Design (CPST)

## Technical Writing (3 credit hours)

ENC 3246	Communications for Engineers (WRIN)
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## Major Electives (13 hours)

13 hours of Departmental Upper-Level Electives

BME 4100	Biomedical Engineering
BME 5937	Selected Topics in Biomedical Engineering
ECH 4244L	Chemical Engineering Lab III
ECH 4905	Independent Study
ECH 4931	Special Topics in Chemical Engineering II
ECH 4936	Undergraduate Seminar
ECH 5324	Automatic Process Control II
ECH 5747C	Selected Topics in Chemical Engineering Biotechnology
ECH 5930	Special Topics III
ECH 5931	Special Topics IV

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
<u>MAC 2281</u> or <u>MAC 2311</u>	4	<u>MAC 2282</u> or <u>MAC 2312</u>	4
<u>ENC 1101</u> Composition I	3	<u>ENC 1102</u> Composition II	3
<u>CAGC FKL/Gen Ed Human and Cultural Diversity in a Global Context</u>	3	<u>CHM 2046</u> General Chemistry II	3
<u>CHM 2045</u> General Chemistry I	3	<u>PHY 2048</u> General Physics I - Calculus Based	3
<u>EGN 3000L</u> Foundations of Engineering Lab	1	<u>CHM 2046L</u> General Chemistry II Laboratory	1
<u>CHM 2045L</u> General Chemistry I Laboratory	1	<u>PHY 2048L</u> General Physics I Laboratory	1
! <u>EGN 3000</u> Foundations of Engineering		Semester Hours:	15
<u>CAFA FKL/Gen Ed Fine Arts</u>	3		
Semester Hours:	18		

## Summer

### Summer Opportunities

Semester 3	Credit Hours	Semester 4	Credit Hours
<u>MAC 2283</u> or <u>MAC 2313</u>	4	<u>EGN 3433</u> or <u>MAP 2302</u>	3
<u>SGEH</u> General Education Core Humanities	3	<u>EGN 3343</u> Thermodynamics I	3
<u>PHY 2049</u> General Physics II - Calculus Based	3	<u>CAHU FKL/Gen Ed Humanities (with HHCP)</u>	3
<u>PHY 2049L</u> General Physics II Laboratory	1	<u>CASB FKL/Gen Ed Social and Behavioral Sciences</u>	3
<u>ECH 3002</u> Introduction to Chemical & Biomedical Engineering	3	<u>ECH 3023</u> Material and Energy Balances	3
<u>ECH 3854</u> Chemical & Biomedical Engineering Computations	3	<u>ENC 3246</u> Communication for Engineers	3
Semester Hours:	17	Semester Hours:	18

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Summer		Credit Hours
<u>CHM 2210</u> Organic Chemistry I		3
<u>CHM 2210L</u> Organic Chemistry Laboratory I		2
Upper-Level Department Elective		3
Semester Hours:		8

Semester 5	Credit Hours	Semester 6	Credit Hours
<u>ECH 4123</u> Chemical Engineering Thermodynamics	3	<u>BME 4406</u> Engineering of Biological Systems	3
Upper-Level Department Elective	3	<u>ECH 3702</u> Instrument Systems I	3
<u>EMA 4003</u> Introduction to Materials Science	3	Upper-Level Department Elective	1
<u>ECH 3266</u> Transport Phenomena I	3	<u>ECH 4267</u> Transport Phenomena II	3
<u>ECH 4846</u> Numerical Methods in Chemical Engineering	3	<u>ECH 4418</u> Separation Processes	3
Semester Hours:	15	<u>SGES</u> General Education Core Social Sciences	3
		Semester Hours:	16

Summer	Credit Hours
Internship/Co-op Participation	
Semester Hours:	0

Semester 7	Credit Hours	Semester 8	Credit Hours
<u>ECH 3240L</u> Chemical Engineering Laboratory I	3	<u>ECH 4241L</u> Chemical Engineering Laboratory II	3
<u>ECH 4605</u> Product and Process Systems Engineering	3	<u>ECH 4323C</u> Process Dynamics and Control	3
Upper-Level Department Elective	3	<u>ECH 4615</u> Product and Process Design	3
<u>ECH 4504</u> Kinetics and Reaction Engineering	3	Upper-Level Department Elective	3
Semester Hours:	12	Semester Hours:	12

## Gordon Rule Requirement

Gordon Rule (6A) is fully met through the mathematics courses above, ENC1101, ENC1102, ENC 3246 and by selecting one technical or Foundation of Knowledge and Learning General Education course that is an approved 6A communication course or by completing an AA degree at a Florida College System institution.

## General Education and Foundations of Knowledge and Learning (FKL) Requirements

The math and science courses required for this major fully meet the math and science requirements of the General Education Core and Foundations of Knowledge and Learning core curriculum.

Students in the College of Engineering may substitute a second "Physical Science" course for the required "Life Science" course. The credits earned for chemistry required by this major may count toward the FKL science requirement.

## Foundations of Knowledge and Learning (FKL) Exit Requirement

ENC 3246	Communication for Engineers (WRIN)
ECH 4615	Product and Process Design (CPST)

## 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.

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## 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.

## Accreditation Information

The Bachelor of Science degree program in Chemical Engineering is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.

## Advising Information

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>.

For questions specific to Chemical Engineering courses and curriculum: <http://chbme.eng.usf.edu/undergraduate/advisorsMessage.htm>.

## CHEMICAL ENGINEERING FACULTY

*Chairperson:* V. Bhethanabotla; *Emeritus Professor:* J.C. Busot, J.A. Llewellyn, C.A. Smith; *Professors:* V.R. Bhethanabotla, S.W. Campbell, R. Frisina Jr., R. Gilbert, Y. Goswami, V. Gupta, B. Joseph, W.E. Lee, III, A.K. Sunol, *Associate Professors:* N. Alcantar, M. Jaroszeski C. Passaglia, R. Toomey; *Assistant Professors:* J. Kuhn, P. Korla, A. Pyayt; *Interdisciplinary Professors:* D. Edins, N. Gallant, A. Sagues, J.P. Walton; *Courtesy Faculty:* T. Fawcett, D. Haynie, J. Lloyd, D. McMillan, M. Peterson, G. Philippidis, W. Saadi, P. Sanberg, S. Sundaram.

## • B.S.C.E. - CIVIL ENGINEERING (ECE) (CIP = 14.0801) TOTAL DEGREE HOURS: 131

<http://cee.eng.usf.edu/undergraduate/curriculum.htm>

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 Civil Engineering Program of the Department of Civil and Environmental Engineering at the University of South Florida will provide undergraduate students with strong, broad-based, engineering education which gives them the basic intellectual and organization skills that allow them to work with complex systems with technological, social and environmental components.

As many of the Program's graduates begin work upon graduation in industry or with governmental organizations, the curriculum is designed to prepare students for these roles by requiring a number of courses in the various fields of civil engineering and by providing limited specialization in one given area. The curriculum is designed to encourage lifelong learning and to prepare students for undertaking advanced studies in engineering or in other professional areas.

## Program Educational Objectives

The Civil Engineering Program and curriculum of the Department of Civil and Environmental Engineering are designed to meet the needs of all students within the context of the Program's Mission Statement. The Program Educational Objectives associated with the Program's Mission Statement are:

1. Graduates, within 3-6 years after graduation, can obtain positions in both public and private organizations.
2. Graduates, within 3 to 6 years after graduation, 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, within 3 to 6 years after graduation, who are working in public or private organizations which encourage professional registration, will have made appropriate progress towards achieving that registration.

Please refer to the mission statement on the department website for additional information.

# COLLEGE OF ENGINEERING

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## Entrance and Continuation 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 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 math, science, engineering, and specialization courses is a C- or higher. 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.

## Tracks

In addition to designated common coursework in engineering mechanics, civil, and environmental engineering, students undertake a concentration of 15 hours of coursework plus a 3-hour capstone design course and a 1 hour Professional and Ethical Issues in Engineering.

## Departmental Policies

In addition to the College's graduation requirements, the department has the following policies:

- All students must 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.

## 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.

## STATE MANDATED COMMON COURSE PREREQUISITES

If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students should complete the prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of C is the minimum acceptable grade.

Students qualify for direct entry to their intended department if they have completed the following courses at a Florida College System institution or University in the Florida State University System (SUS) and meet all of the other admissions requirements of the University and College.

# COLLEGE OF ENGINEERING

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## UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

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Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university.

The following are transferable courses from a Florida College System institution that will be accepted in the Math/Science/Engineering areas:

### Mathematics:

#### 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 2045/2045L General Chemistry I with Lab  
CHS 2440/2440L General Chemistry for Engineers with Lab  
PHY 2048/2048L General Physics I - Calculus Based with Lab  
PHY 2049/2049L General Physics II - Calculus Based with Lab

#### Courses at a Florida College System Institution

CHM X045/X045L or CHM X045C or  
CHS X440/X440L  
PHY X048/X048L or PHY X048C or PHY X043/X048L  
PHY X049/X049L or PHY X049C or PHY X044/X049L

Please be aware of the immunization, foreign language, and continuous enrollment policies of the university, as well as the qualitative standards required.

## REQUIREMENTS FOR THE MAJOR IN CIVIL ENGINEERING

**TOTAL MAJOR HOURS: 107**

**Major requirements for the B.S.C.E. Degree:**

**Major Core (92 hours)**

### Math and Science (27 credit hours)

MAC 2281 Engineering Calculus I  
MAC 2282 Engineering Calculus II  
MAC 2283 Engineering 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  
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  
GLY 3850 Geology for Engineers  
EGN 1113 Introduction to Design Graphics  
EGN 3321 Dynamics  
EGN 4453 Numerical and Computer Tools I  
EGN 3331L Mechanics of Materials/Materials Lab  
EGN 3343 Thermodynamics  
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  
EGN 3331 Mechanics of Materials  
EGN 3353 Basic Fluid Mechanics

### Specialization (21 credit hours)

EGN 4454 Numerical and Computer Tools II  
ENV 4001 Environmental Systems Engineering  
TTE 4004 Transportation Engineering I  
CES 3102 Structures I



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- CWR 4202 Hydraulics
- ENV 4004L Environmental/Hydraulics Engineering Lab
- CEG 4011 Geotechnical Engineering I
- CEG 4011L Geotechnical/Transportation Laboratory
- CGN 4122 Professional and Ethical Issues in Engineering

## Technical Writing (3 credit hours)

- ENC 3246 Communications for Engineers (WRIN)

## 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 and Capstone Design Requirements (part of the Specialization course)

Civil Engineering students choose one of the three tracks listed below:

### Structures/Materials/Geotechnical Track

- CES 4702 Concepts of Concrete Design
- CES 4605 Concepts of Steel Design
- CGN 4851 Concrete Construction Materials
- CEG 4012 Geotechnical Engineering II or TTE 4005 Transportation Engineering II
- Technical Elective (three credit hours total, from the approved list of courses)
- CES 4750 Capstone Structural/Geotechnical/Material Design

### Geotechnical/Transportation Track

- CGN 4851 Concrete Construction Materials
- CEG 4012 Geotechnical Engineering II
- TTE 4005 Transportation Engineering II
- Technical Elective (six credit hours total, from the approved list of courses)
- CEG 4850 Capstone Geotechnical/Transportation Design

### Environmental/Water Resources Track

- ENV 4417 Water Quality and Treatment
- CWR 4540 Water Resources Engineering I
- CEG 4012 Geotechnical Engineering II or TTE 4005 Transportation Engineering II
- Technical Elective (six credit hours total, from the approved list of courses)
- CWR 4812 Capstone Water Resources/Environmental Design

## Major Electives (15 hours)

15 hours of Departmental Upper-Level Electives (CE Concentration Elective).

The Program supports the following technical elective courses:

- CCE 4031 Construction Management
- CEG 4012 Geotechnical Engineering II
- CEG 5115 Foundation Engineering
- CES 4605 Concepts of Steel Design
- CES 4702 Concepts of Concrete Design
- CGN 4851 Concrete Construction Materials
- CGN 4933 Special Topics in Civil & Environmental Engineering\*\*
- CWR 4540 Water Resources Engineering I
- CWR 4541 Water Resources Engineering II
- ENV 4417 Water Quality and Treatment
- SUR 2101C Engineering Land Survey
- TTE 4003 Transportation and Society
- TTE 4005 Transportation Engineering II

\*\*Please see academic advisor for selected special topics courses.

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
<u>MAC 2281</u> or <u>MAC 2311</u>	4	<u>MAC 2282</u> or <u>MAC 2312</u>	4
<u>CHM 2045</u> or <u>CHS 2440</u>	3	<u>ENC 1102</u> Composition II	3
<u>ENC 1101</u> Composition I	3	<u>PHY 2048</u> General Physics I - Calculus Based	3

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<u>SGES</u> General Education Core Social Sciences	3	<u>GLY 3850</u> Geology For Engineers	3
<u>CHM 2045L</u> or <u>CHS 2440L</u>	1	<u>EGN 1113</u> Introduction to Design Graphics	3
<u>EGN 3000L</u> Foundations of Engineering Lab	1	<u>PHY 2048L</u> General Physics I Laboratory	1
! <u>EGN 3000</u> Foundations of Engineering		<u>PHZ 2102</u> Highly Encouraged	1
Semester Hours:	15	Semester Hours:	18

## Summer

### Summer Opportunities

Semester 3	Credit Hours	Semester 4	Credit Hours
<u>MAC 2283</u> or <u>MAC 2313</u>	4	<u>EGN 3353</u> Basic Fluid Mechanics	3
<u>PHY 2049</u> General Physics II - Calculus Based	3	<u>EGN 3321</u> Dynamics	3
<u>EGN 4453</u> Numerical & Computer Tools I in Civil & Env Eng	3	<u>SGEH</u> General Education Core Humanities	3
<u>EGN 3311</u> Statics	3	<u>EGN 3331</u> Mechanics of Materials	3
<u>PHY 2049L</u> General Physics II Laboratory	1	<u>EGN 3331L</u> Mechanics of Materials Laboratory	1
<u>EGN 3365</u> Materials Engineering I	3	<u>EGN 3433</u> or <u>MAP 2302</u>	3
Semester Hours:	17	Semester Hours:	16

## Summer

	Credit Hours
<u>ENC 3246</u> Communication for Engineers	3
<u>EGN 3615</u> Engineering Economics with Social and Global Implications	3
<u>CAGC FKL/Gen Ed</u> Human and Cultural Diversity in a Global Context	3
Semester Hours:	9

Semester 5	Credit Hours	Semester 6	Credit Hours
<u>ENV 4001</u> Environmental Systems Engineering	3	<u>CWR 4202</u> Hydraulics	3
<u>EGN 4454</u> Numerical & Computer Tools II in Civil & Env Eng	3	<u>EGN 3373</u> Introduction to Electrical Systems I	3
<u>EGN 3443</u> Probability and Statistics for Engineers	3	<u>CES 3102</u> Structures I	3
<u>EGN 3343</u> Thermodynamics I	3	<u>CAHU FKL/Gen Ed</u> Humanities (with HHCP)	3
<u>TTE 4004</u> Transportation Engineering I	3	CE Concentration Elective	3
Semester Hours:	15	<u>ENV 4004L</u> Environmental/Hydraulics Engineering Lab	1
		Semester Hours:	16

## Summer

Internship/Co-op Participation	Credit Hours
Semester Hours:	0

Semester 7	Credit Hours	Semester 8	Credit Hours
<u>CAFA FKL/Gen Ed</u> Fine Arts	3	<u>CEG 4850</u> or <u>CES 4750</u> or <u>CWR</u> <u>4812</u>	3
<u>CEG 4011</u> Geotechnical Engineering I	3	CE Concentration Elective	3
CE Concentration Elective	3	CE Concentration Elective	3
CE Concentration Elective	3		

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<u>CEG 4011L</u> Geotechnical/Transportation Laboratory	1	<u>CGN 4122</u> Professional and Ethical Issues in Engineering	1
Semester Hours:	13	CASB FKL/Gen ED Social and Behavioral Sciences	2
		Semester Hours:	12

## Gordon Rule Requirement

Gordon Rule (6A) is fully met through the mathematics courses required for the major, ENC1101, ENC1102, ENC 3246 and by selecting one technical or Foundation of Knowledge and Learning General Education course that is an approved 6A communication course or by completing an AA degree at a Florida College System institution.

## General Education and Foundations of Knowledge and Learning (FKL) Requirements

The math and science courses required for this major fully meet the math and science requirements of the General Education Core and Foundations of Knowledge and Learning core curriculum.

Students in the College of Engineering may substitute a second "Physical Science" course for the required "Life Science" course. The credits earned for chemistry required by this major may count toward the FKL science requirement.

## Foundations of Knowledge and Learning (FKL) Exit Requirement

ENC 3246 Communication for Engineers (WRIN)  
CES 4750 Capstone Structural/Geotechnical/Material Design (CPST) or CEG 4850 Capstone Geotechnical/Transportation Design (CPST) or CWR 4812 Capstone Water Resources/Environmental Design (CPST).

## 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.

## 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.

## Accreditation Information

The Bachelor of Science degree program in Civil Engineering is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.

## Advising Information

Undergraduate Advising: <http://cee.eng.usf.edu/contactUs/contactUs.htm>.

## CIVIL ENGINEERING FACULTY

*Chairperson:* M. Gunaratne; *Professors Emeriti:* M. W. Anderson, W. Carpenter, R.P. Carnahan, J.E. Griffith, S. Kranc; *Distinguished University Professor:* A.A. Sagüés; *State of Florida 21st Century World Class Scholar:* J. Mihelcic; *Professors:* S. Ergas, M. Gunaratne, J. Mihelcic, A.G. Mullins, M. Nachabe, M.A. Ross, A.A. Sagüés, R. Sen; *Associate Professors:* J. Cunningham, A. Pinjari, D. Simkins, A. Tejada, M. Trotz, D. Yeh, A. Zayed, Q. Zhang, Y. Zhang; *Assistant Professors:* Q. Lu; *Instructor:* K. Nohra; M. Stokes; *Courtesy Faculty:* N. Albergo, J. Lu, S.E. Polzin, N. Poor, A. Stuart, K. Vairavamoorthy.

## • 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 issues of computer architecture and advanced topics in hardware design, including extensive laboratory work. Students in this program also acquire a broad background in engineering topics through related coursework in the College.

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## 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, and information technology through internationally recognized research and graduate education, as well as technology transfer to regional industries.
2. Prepare students for full and ethical participation in a diverse society and encourage lifelong learning.
3. Educate students in the best practices of the field as well as integrate the latest research into the curriculum.
4. Foster the development of problem solving and communication skills as an integral component of the profession.
5. Provide quality learning experiences through small classes, active learning styles of teaching, and opportunities for meaningful interactions between students and faculty.

## Objectives

The Department of Computer Science and Engineering has established the following program educational objectives for computer engineering graduates of the Department.

1. Our computer engineering graduates will apply their knowledge and skills to succeed in their career and/or obtain an advanced degree.
2. Our graduates will function ethically and responsibly, and will remain informed and involved as full participants in our profession and our society.
3. Our graduates will successfully function in multi-disciplinary teams.
4. Our graduates will apply basic principles and practices of computing grounded in mathematics and science to successfully complete hardware and/or software related engineering projects to meet customer business objectives and/or productively engage in research.

## Entrance and Continuation Requirements for the Computer Engineering Program

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 department, a student may be permitted to take no more than two departmental courses.

### *Minimum Admission Requirements for the Computer Engineering Program*

1. Completion of:
  - o English Composition I (ENC 1101) and English Composition II (ENC 1102)
  - o Calculus I (MAC 2311 or MAC 2281) and Calculus II (MAC 2312 or MAC 2282)
  - o Calculus-based Physics I with Lab (PHY 2048 and PHY 2048L)
  - o 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 Program*

Students meeting the above requirements may be admitted to either of the Computer Engineering or Computer Science degree tracks; however, continuation in the program will be allowed only for students who complete CDA 3103 and COP 3514 with minimum grades of B, based on best attempts in each course (grades of B- are insufficient). These requirements must be met with a maximum of two attempts allowed for each course.

## 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 program 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

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## 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.

## 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.

## STATE MANDATED COMMON COURSE PREREQUISITES

If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students should complete the following **prerequisite courses** listed below at the lower level prior to entering the University. If these courses are not taken at a Florida College System institution, they must be completed before the degree is granted. Unless stated otherwise, a grade of C is the minimum acceptable grade.

Students qualify for direct entry to the Department if they have completed the following courses at a Florida College System institution or University in the Florida State University System (SUS) and meet all other admissions requirements of the University and College.

### 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 2045/2045L General Chemistry I with Lab  
CHS 2440/2440L General Chemistry for Engineers with Lab  
PHY 2048/2048L General Physics I - Calculus Based with Lab  
PHY 2049/2049L General Physics II - Calculus Based with Lab  
COP XXXX Introduction 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 Introduction Programming in C, C++, JAVA or equivalent language

## REQUIREMENTS FOR THE MAJOR IN COMPUTER ENGINEERING

**TOTAL MAJOR HOURS: 97**

**Major requirements for the B.S.C.P. Degree:**

**Major Core (85 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

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## Basic Engineering (15 credit hours)

EGN 3000	Foundations of Engineering
EGN 3000L	Foundations of Engineering Lab
EGN 4450	Introduction to Linear Systems
EGN 3443	Probability and Statistics for Engineers
EGN 3615	Engineering Economics with Social and Global Implications
EEE 3394	Electronic Materials
EGN 3373	Introduction to Electrical Systems I

## Specialization (44 credit hours)

COP 2510	Programming Concepts
COP 3514	Program Design
COP 3331	Object-Oriented 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
CDA 4213	CMOS-VLSI Design
CDA 4213L	CMOS-VLSI Design Lab
CDA 4203	Computer System Design
CDA 4203L	Computer System 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 (WRIN)

## Major Electives (12 hours)

6 hours of Departmental Upper-Level Electives (CSE Hardware Elective)  
6 hours of Departmental Upper-Level Electives (CSE Elective)

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
<u>MAC 2281</u> or <u>MAC 2311</u>	4	<u>MAC 2282</u> or <u>MAC 2312</u>	4
<u>CHM 2045</u> or <u>CHS 2440</u>	3	<u>ENC 1102</u> Composition II	3
<u>ENC 1101</u> Composition I	3	<u>PHY 2048</u> General Physics I - Calculus Based	3
<u>SGES</u> General Education Core Social Sciences	3	<u>COP 2510</u> Programming Concepts	3
<u>CHM 2045L</u> or <u>CHS 2440L</u>	1	<u>PHY 2048L</u> General Physics I Laboratory	1
<u>EGN 3000L</u> Foundations of Engineering Lab	1	Semester Hours:	14
! <u>EGN 3000</u> Foundations of Engineering			
Semester Hours:	15		

## Summer

### Summer Opportunities

Semester 3	Credit Hours	Semester 4	Credit Hours
<u>MAC 2283</u> or <u>MAC 2313</u>	4	<u>CDA 3103</u> Computer Organization	3

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<u>PHY 2049</u> General Physics II - Calculus Based	3	<u>SGEH</u> General Education Core Humanities	3
<u>COP 3514</u> Program Design	3	<u>COT 3100</u> Introduction to Discrete Structures	3
<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3	<u>EGN 3433</u> or <u>MAP 2302</u>	3
<u>PHY 2049L</u> General Physics II Laboratory	1	<u>COP 3331</u> Object Oriented Software Design	3
Semester Hours:	14	Semester Hours:	15

## Summer

## Credit Hours

<u>CDA 3201</u> Computer Logic and Design	3
<u>COP 4530</u> Data Structures	3
<u>EGN 4450</u> Introduction to Linear Systems	2
<u>CDA 3201L</u> Computer Logic and Design Lab	1
Semester Hours:	9

## Semester 5

## Credit Hours

<u>COT 4400</u> Analysis Of Algorithms	3
<u>CDA 4205</u> Computer Architecture	3
<u>EEE 3394</u> Electronic Materials	3
<u>EGN 3373</u> Introduction to Electrical Systems I	3
CSE Hardware Elective	3
Semester Hours:	15

## Semester 6

## Credit Hours

<u>CDA 4203</u> Computer System Design	3
<u>EGN 3615</u> Engineering Economics with Social and Global Implications	3
<u>CANL</u> FKL/Gen Ed Natural Sciences (Life Science)	3
<u>COP 4600</u> Operating Systems	3
CSE Hardware Elective	3
<u>CDA 4203L</u> Computer System Design Lab	1
Semester Hours:	16

## Summer

## Credit Hours

Internship/Co-op Participation	
Semester Hours:	0

## Semester 7

## Credit Hours

<u>CDA 4213</u> CMOS-VLSI Design	3
<u>ENC 3246</u> Communication for Engineers	3
<u>CAFA</u> FKL/Gen Ed Fine Arts	3
<u>EGN 3443</u> Probability and Statistics for Engineers	3
CSE Elective	3
<u>CDA 4213L</u> CMOS-VLSI Design Lab	1
Semester Hours:	16

## Semester 8

## Credit Hours

<u>CIS 4250</u> Ethical Issues and Professional Conduct	3
<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
CSE Elective	3
<u>CAHU</u> FKL/Gen Ed Humanities (with HHCP)	3
<u>CIS 4910</u> Computer Science Project	2
Semester Hours:	14

### Gordon Rule Requirement

Gordon Rule (6A) is fully met through the mathematics courses above, ENC 1101, ENC 1102, ENC 3246 and CIS 4250 or by completing an A.A. degree at a Florida College System institution.

### General Education and Foundations of Knowledge and Learning (FKL) Requirements

The math and science courses required for this major fully meet the math and science requirements of the General Education Core and Foundations of Knowledge and Learning core curriculum.

Students in the College of Engineering may substitute a second "Physical Science" course for the required "Life Science" course. The credits earned for chemistry required by this major may count toward the FKL science requirement.

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## Foundations of Knowledge and Learning (FKL) Exit Requirement

ENC 3246 Communication for Engineers (WRIN)  
CIS 4250 Ethical Issues and Professional Conduct (CPST)

## 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.

## 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.

## Accreditation Information

The Bachelor of Science degree program in Computer Engineering is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.

## Advising Information

Undergraduate Advising: [http://www.cse.usf.edu/undergraduate/people\\_to\\_contact/](http://www.cse.usf.edu/undergraduate/people_to_contact/).

## COMPUTER ENGINEERING FACULTY

*Chairperson:* L. Hall; *Distinguished Professors:* L. Hall, N. Ranganathan; *Professors:* K. Christensen, D. Goldgof, R. Kasturi, M. Labrador, R. Perez, L. Piegl, S. Sarkar, A. Weitzenfeld; *Associate Professors:* W. Armitage, P. Bao, S. Chellappan, A. Gaspar, A. Iamnitich, J. Ligatti, S. Katkooi, X. Ou, Y. Tu, H. Zheng; *Assistant Professors:* S. Ghosh, Y. Liu, L. Palmer, P. Rosen, Y. Sun; *Instructors:* W. Gauvin, W. Hendrix, I. Hidalgo, H. Jeanty, X. Li, R. Tindell, J. Wang, Y. Zhang; *Distinguished Professor Emeritus:* A. Kandel; *Professors Emeritus:* H. Glass, D. Rundus, M. Varanasi.

## • 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 and on the theory of computation. Additional course work in algorithms, discrete structures, object oriented design, data structures, operating systems, digital logic design, computer architecture, and a wide range of advanced electives extend and supplement the core.

## 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, and information technology through internationally recognized research and graduate education, as well as technology transfer to regional industries.
2. Prepare students for full and ethical participation in a diverse society and encourage lifelong learning.
3. Educate students in the best practices of the field as well as integrate the latest research into the curriculum.
4. Foster the development of problem solving and communication skills as an integral component of the profession.
5. Provide quality learning experiences through small classes, active learning styles of teaching, and opportunities for meaningful interactions between students and faculty.

## Objectives

The Department of Computer Science and Engineering has established the following program educational objectives for the computer science graduates of the Department.

1. Our computer science graduates will apply their knowledge and skills to succeed in their career and/or obtain an advanced degree.



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2. Our graduates will function ethically and responsibly, and will remain informed and involved as full participants in our profession and our society.
3. Our graduates will successfully function in multi-disciplinary teams.
4. Our graduates will apply basic principles and practices of computing grounded in mathematics and science to successfully complete software related projects to meet customer business objectives and/or productively engage in research.

### Entrance and Continuation Requirements for the Computer Science Program

College of Engineering students who have fully met the admission requirements for the major, and are in good academic standing, may declare a major in Computer Science. Prior to being admitted to a department, a student may be permitted to take no more than two departmental courses.

#### *Minimum Admission Requirements for the Computer Science Program*

1. Completion of:
  - o English Composition I (ENC 1101) and English Composition II (ENC 1102)
  - o Calculus I (MAC 2311 or MAC 2281) and Calculus II (MAC 2312 or MAC 2282)
  - o Calculus-based Physics I with Lab (PHY 2048 and PHY 2048L)
  - o 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
5. *Minimum Continuation Requirements for the Computer Science Program*

Students meeting the above requirements may be admitted to either the Computer Science or Computer Engineering degree tracks; however, continuation in the program will be allowed only for students who complete CDA 3103 and COP 3514 with minimum grades of B, based on best attempts in each course (grades of B- are insufficient). These requirements must be met with a maximum of two attempts allowed for each course.

### 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 program 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.

### 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 program 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.

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## STATE MANDATED COMMON COURSE PREREQUISITES

If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students should complete the following **prerequisite courses** listed below at the lower level prior to entering the University. If these courses are not taken at a Florida College System institution, they must be completed before the degree is granted. Unless stated otherwise, a grade of C is the minimum acceptable grade (C- is insufficient).

Students qualify for direct entry to the Department if they have completed the following courses at a Florida College System institution or University in the Florida State University System (SUS) and meet all other admissions requirements of the University and College.

Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university.

- COP XXXX Introductory Programming in C, C++, Java, or equivalent language
- MAC X311 Calculus I or MAC X281
- MAC X312 Calculus II or MAC X282
- PHY X048/X048L General Physics I with Lab or PHY X048C
- PHY X049/X049L General Physics II with Lab or PHY X049C
- XXX XXXX Six credit hours of science courses for science majors

## REQUIREMENTS FOR THE MAJOR IN COMPUTER SCIENCE

**TOTAL MAJOR HOURS: 96**

**Major requirements for the B.S.C.S. Degree:**

**Major Core (69 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 (6 credit hours)**

- EGN 3000 Foundations of Engineering
- EGN 3000L Foundations of Engineering Lab
- EGN 4450 Introduction to Linear Systems
- EGN 3443 Probability and Statistics for Engineers

**Specialization (34 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
- COT 3100 Introduction to Discrete Structures
- COT 4400 Analysis of Algorithms
- CIS 4250 Ethical Issues and Professional Conduct (CPST)

**Composition and Technical Writing (9 credit hours)**

- ENC 1101 Composition I
- ENC 1102 Composition II
- ENC 3246 Communication for Engineers (WRIN)

**Major Electives (27 hours)**

15 hours of Department Upper-Level Electives (CSE Elective)

6 hours of Department Upper-Level Electives (CSE Software Elective)

- CAP 4034 Computer Animation Fundamentals
- CAP 4063 Web Application Design
- CAP 4401 Image Processing Fundamentals

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CAP 4410	Computer Vision
CAP 4800	Systems Simulation
CAP 5400	Digital Image Processing
CAP 5625	Introduction to Artificial Intelligence
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 4504	Computer Networks II
COP 3257	JAVA for Experienced Programmers
COP 4020	Programming Languages
COP 4365	Software System Development
COP 4620	Compilers
COP 4656	Software Development for Mobile Devices
COP 4710	Database Design

3 hours of Department Upper-Level Elective (CSE Theory Elective)  
4000-level COP course

CIS 4930 Special Topics in Computer Science I

3 hours of Upper-Level Humanities, Social Sciences, or Fine Arts Elective

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
<u>MAC 2281</u> or <u>MAC 2311</u>	4	<u>MAC 2282</u> or <u>MAC 2312</u>	4
<u>ENC 1101</u> Composition I	3	<u>ENC 1102</u> Composition II	3
<u>CANP FKL/Gen Ed Natural Sciences (Physical Science)</u>	3	<u>PHY 2048</u> General Physics I - Calculus Based	3
<u>SGES</u> General Education Core Social Sciences	3	<u>COP 2510</u> Programming Concepts	3
<u>EGN 3000L</u> Foundations of Engineering Lab	1	<u>PHY 2048L</u> General Physics I Laboratory	1
! <u>EGN 3000</u> Foundations of Engineering		Semester Hours:	14
Semester Hours:	14		

## Summer

### Summer Opportunities

Semester 3	Credit Hours	Semester 4	Credit Hours
<u>MAC 2283</u> or <u>MAC 2313</u>	4	<u>CDA 3103</u> Computer Organization	3
<u>PHY 2049</u> General Physics II - Calculus Based	3	<u>SGEH</u> General Education Core Humanities	3
<u>COP 3514</u> Program Design	3	<u>COT 3100</u> Introduction to Discrete Structures	3
<u>CASB FKL/Gen Ed Social and Behavioral Sciences</u>	3	<u>COP 3331</u> Object Oriented Software Design	3
<u>PHY 2049L</u> General Physics II Laboratory	1	Semester Hours:	12
Semester Hours:	14		

## Summer

	Credit Hours
<u>CDA 3201</u> Computer Logic and Design	3
<u>COP 4530</u> Data Structures	3

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<u>EGN 4450</u> Introduction to Linear Systems	2
<u>CDA 3201L</u> Computer Logic and Design Lab	1
Semester Hours:	9

Semester 5	Credit Hours	Semester 6	Credit Hours
<u>COT 4400</u> Analysis Of Algorithms	3	<u>ENC 3246</u> Communication for Engineers	3
<u>CDA 4205</u> Computer Architecture	3	<u>COP 4600</u> Operating Systems	3
<u>CANL</u> FKL/Gen Ed Natural Sciences (Life Science)	3	CSE Elective	3
<u>EGN 3443</u> Probability and Statistics for Engineers	3	CSE Software Elective	3
CSE Software Elective	3	CSE Theory Elective	3
Semester Hours:	15	Semester Hours:	15

Summer	Credit Hours
Internship/Co-op Participation	
Semester Hours:	0

Semester 7	Credit Hours	Semester 8	Credit Hours
<u>CAFA</u> FKL/Gen Ed Fine Arts	3	<u>CIS 4250</u> Ethical Issues and Professional Conduct	3
<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3	CSE Elective	3
CSE Elective	3	CSE Elective	3
CSE Elective	3	Upper-Level FKL Humanities, Social Science or Fine Arts Elective	3
<u>CAHU</u> FKL/Gen Ed Humanities (with HHCP)	3	Semester Hours:	12
Semester Hours:	15		

## Gordon Rule Requirement

Gordon Rule (6A) is fully met through the mathematics courses above, ENC 1101, ENC 1102, ENC 3246 and CIS 4250 or by completing an A.A. degree at a Florida College System institution.

## General Education and Foundations of Knowledge and Learning (FKL) Requirements

The math and science courses required for this major fully meet the math and science requirements of the General Education Core and Foundations of Knowledge and Learning core curriculum.

Students in the College of Engineering may substitute a second "Physical Science" course for the required "Life Science" course.

## Foundations of Knowledge and Learning (FKL) Exit Requirement

ENC 3246 Communication for Engineers (WRIN)  
CIS 4250 Ethical Issues and Professional Conduct (CPST)

## 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.

## 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.

# COLLEGE OF ENGINEERING

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

## Accreditation Information

The Bachelor of Science degree program in Computer Science is accredited by the Computing Accreditation Commission of ABET, <http://www.abet.org>.

## Advising Information

Undergraduate Advising: [http://www.cse.usf.edu/undergraduate/people\\_to\\_contact/](http://www.cse.usf.edu/undergraduate/people_to_contact/).

## REQUIREMENTS FOR THE MINOR IN COMPUTER SCIENCE (BCS) TOTAL MINOR HOURS: 18

<http://www.usf.edu/engineering/undergraduate/minors.aspx>

The Computer Science minor is expected to be very attractive to students in other Engineering departments and to students in Mathematics and the Sciences (including Physics, Chemistry, and Biology).

This minor is an 18-credit hour program that is open to all students, except for students majoring in Computer Science, Computer Engineering and Information Technology, who meet the prerequisites listed below.

### Minor Core (12 hours)

COP 3514	Program Design
CDA 3103	Computer Organization
COP 3331	Object Oriented Design
COP 4530	Data Structures

### Minor Electives (6 hours)

The remaining six credit hours can be taken from electives offered by the Department Computer Science and Engineering.

Students must register with the Department of Computer Science and Engineering undergraduate advisor prior to starting this minor program. Consultation with the Department undergraduate advisor will insure that students are informed of all offered courses. All catalog prerequisites and registration requirements must be met for enrollment in any of the courses required for the minor.

All students desiring to pursue the minor must meet the same entry and continuation requirements as a Departmental major.

### Prerequisite courses (28 hours):

1. English Composition I and II (ENC 1101 and ENC 1102)
2. Calculus I (MAC 2311 or MAC 2281) and Calculus II (MAC 2312 or MAC 2282)
3. Calculus-based Physics I with Lab (PHY 2048 and PHY 2048L)
4. Calculus-based Physics II with Lab (PHY 2049 and PHY 2049L)
5. Programming Concepts (COP 2510) with a minimum grade of B (grade of B- is insufficient) or another introductory program 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)
6. Introduction to Discrete Structures (COT 3100 or equivalent) is required

### 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, theory, and many other areas can be defined in consultation with the Department undergraduate advisor. A specific pre-graduate school track (requiring a total of 21 hours) intended for students planning to seek admission into the Department graduate program has been defined as follows:

COT 4400	Analysis of Algorithms
COP 4600	Operating Systems
CDA 4205	Computer Architecture

## COMPUTER SCIENCE FACULTY

*Chairperson:* L. Hall; *Distinguished Professors:* L. Hall, N. Ranganathan; *Professors:* K. Christensen, D. Goldgof, R. Kasturi, M. Labrador, R. Perez, L. Piegl, S. Sarkar, A. Weitzenfeld; *Associate Professors:* W. Armitage, P. Bao, S. Chellappan, A. Gaspar, A. Iamnitchi, J. Ligatti, S. Katkooi, X. Ou, Y. Tu, H. Zheng; *Assistant Professors:* S. Ghosh, Y.

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Liu, L. Palmer, P. Rosen, Y. Sun; Instructors: W. Gauvin, W. Hendrix, I. Hidalgo, H. Jeanty, X. Li, R. Tindell, J. Wang, Y. Zhang; Distinguished Professor Emeritus: A. Kandel; Professors Emeritus: H. Glass, D. Rundus, M. Varanasi.

## • 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 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, and microelectromechanical systems (MEMS), bioelectrical devices and systems, and power engineering. Basic concepts are augmented with well-equipped laboratories in circuits, electronics, digital systems, microwave techniques, wireless circuits & systems, and controls and communications. In addition, a general-purpose computer facility, a microprocessor and digital signal processing laboratory, and a microelectronics fabrication, design/test and metrology laboratory are available.

### 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

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.
- 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.

Please refer to the mission statement on the department website for additional information.

### 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.

#### *Minimum Admission Requirement for the Electrical Engineering Department*

- 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 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 EGN 3373, EGN 3374, and Differential Equations with grades 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 approval of their EE Technical electives.
2. Students must complete Exit interviews as a graduation requirement.

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## Course Grade Requirement

Continuation in the major requires successful completion of EGN 3373, EGN 3374, and Differential Equations with grades of B (not B-) or higher (best attempt).

## 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.

## STATE MANDATED COMMON COURSE PREREQUISITES

If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students should complete the following **prerequisite courses** listed below at the lower level prior to entering the University. If these courses are not taken at a Florida College System institution, they must be completed before the degree is granted.

Students qualify for direct entry to the department if they have completed the following courses at a Florida College System institution or University in the Florida State University System (SUS) and meet all other admissions requirements of the University and College.

Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university.

### Mathematics:

#### Courses at USF

MAC 2281 Engineering Calculus I  
MAC 2282 Engineering Calculus II  
MAC 2283 Engineering Calculus III  
MAP 2302 Differential Equations

#### Courses at a Florida College System Institution

MAC X311 or MAC X281  
MAC X312 or MAC X282  
MAC X313 or MAC X283  
MAP X302 or MAP X305

### Natural Sciences:

#### Courses at USF

CHM 2045/2045L General Chemistry I with Lab  
CHS 2440/CHS 2440L General Chemistry for  
Engineers with Lab  
PHY 2048/2048L General Physics I - Calculus  
Based with Lab  
PHY 2049/2049L General Physics II - Calculus  
Based with Lab

#### Courses at a Florida College System Institution

CHM X045/X045L or CHM X045C 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 ELECTRICAL ENGINEERING

**TOTAL MAJOR HOURS: 107**

Major requirements for the B.S.E.E. Degree:

Major Core (95 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

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PHY 2049 General Physics II  
 PHY 2049L General Physics II Laboratory

## Basic Engineering (13 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 (required FKL Social and Behavioral Elective)  
 EGN 3373 Introduction to Electrical Systems I  
 EGN 3420 Engineering Analysis

## Specialization (52 credit hours)

EEE 3394 Electronic Materials  
 EEL 2161 Electrical Engineering Computer Methods  
 EGN 3374 Electrical Systems II  
 EEE 4351C Semiconductor Devices  
 EEL 3100 Network Analysis  
 EEL 3115L Laboratory I  
 EEL 4471 Electromagnetics  
 EEL 4705 Logic Design  
 EEL 4705L Logic Laboratory  
 EEE 3302 Electronics I  
 EEL 4102 Linear Systems Analysis  
 EEL 4423L Wireless Circuits & Systems Design Laboratory  
 EEL 4743L Microprocessor Laboratory  
 EEL 4744 Microprocessor Principles and Applications  
 EGN 3375 Electromechanical Systems  
 EEL 3116L Laboratory II  
 EEL 4512C Introduction to Communication Systems  
 EEL 4657 Linear Control Systems  
 EEL 4657L Linear Controls Laboratory  
 EEL 4906 EE Design I  
 EEL 4914 EE Design II (CPST)

## Technical Writing (3 credit hours)

ENC 3246 Communication for Engineers (WRIN)

## Major Electives (12 hours)

12 hours of Department Upper-Level Electives

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
<u>MAC 2281</u> or <u>MAC 2311</u>	4	<u>MAC 2282</u> or <u>MAC 2312</u>	4
<u>CHM 2045</u> or <u>CHS 2440</u>	3	<u>ENC 1102</u> Composition II	3
<u>ENC 1101</u> Composition I	3	<u>EEL 4705</u> Logic Design	3
<u>SGES</u> General Education Core Social Sciences	3	<u>PHY 2048</u> General Physics I - Calculus Based	3
<u>CHM 2045L</u> or <u>CHS 2440L</u>	1	<u>PHY 2048L</u> General Physics I Laboratory	1
<u>EGN 3000L</u> Foundations of Engineering Lab	1	Semester Hours:	14
! <u>EGN 3000</u> Foundations of Engineering			
Semester Hours:	15		

## Summer

Summer Opportunities



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Semester 3	Credit Hours	Semester 4	Credit Hours
<u>MAC 2283</u> or <u>MAC 2313</u>	4	<u>SGEH</u> General Education Core Humanities	3
<u>EGN 3615</u> Engineering Economics with Social and Global Implications	3	<u>EEE 3394</u> Electronic Materials	3
<u>EEL 2161</u> Electrical Engineering Computer Methods	3	<u>EGN 3420</u> Engineering Analysis	3
<u>PHY 2049</u> General Physics II - Calculus Based	3	<u>EGN 3373</u> Introduction to Electrical Systems I	3
<u>PHY 2049L</u> General Physics II Laboratory	1	<u>EGN 3433</u> or <u>MAP 2302</u>	3
		<u>EEL 4705L</u> Logic Laboratory	1
Semester Hours:	14	Semester Hours:	16

Summer	Credit Hours
<u>ENC 3246</u> Communication for Engineers	3
<u>EGN 3374</u> Introduction to Electrical Systems II	3
<u>CAHU</u> FKL/Gen Ed Humanities (with HHCP)	3
Semester Hours:	9

Semester 5	Credit Hours	Semester 6	Credit Hours
<u>EEL 4471</u> Electromagnetics	3	<u>EGN 3375</u> Electromechanical Systems	3
<u>CAFA</u> FKL/Gen Ed Fine Arts	3	<u>EEE 3302</u> Electronics I	3
<u>EEL 3100</u> Network Analysis and Design	3	<u>EEL 4102</u> Linear Systems Analysis	3
<u>EEE 4351C</u> Semiconductor Devices	3	<u>EEL 4744</u> Microprocessor Principles and Applications	3
<u>EEL 3115L</u> Laboratory I	1	<u>EEL 4423L</u> Wireless Circuits & Systems Design Laboratory	2
<u>EGN 3443</u> Probability and Statistics for Engineers	3	<u>EEL 4743L</u> Microprocessor Laboratory	1
Semester Hours:	16	Semester Hours:	15

Summer	Credit Hours
Internship/Co-op Participation	0
Semester Hours:	0

Semester 7	Credit Hours	Semester 8	Credit Hours
<u>EEL 4512C</u> Introduction to Communication Systems	3	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
<u>EEL 4657</u> Linear Control Systems	3	<u>EEL 4914</u> EE Design 2	3
<u>EEL 4906</u> EE Design 1	3	Upper-Level Department Elective	3
Upper-Level Department Elective	3	Upper-Level Department Elective	3
<u>EEL 3116L</u> Laboratory II	1	Upper-Level Department Elective	3
<u>EEL 4657L</u> Linear Controls Laboratory	1	Semester Hours:	15
Semester Hours:	14		

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## Gordon Rule Requirement

Gordon Rule (6A) is fully met through the mathematics courses above, ENC 1101, ENC 1102, ENC 3246 and by selecting one technical or Foundation of Knowledge and Learning elective that is an approved 6A communication course or by completing an AA degree at a Florida College System institution.

## General Education and Foundations of Knowledge and Learning (FKL) Requirements

The math and science courses required for this major fully meet the math and science requirements of the General Education Core and Foundations of Knowledge and Learning core curriculum.

Students in the College of Engineering may substitute a second "Physical Science" course for the required "Life Science" course. The credits earned for chemistry required by this major may count toward the FKL science requirement.

## Foundations of Knowledge and Learning (FKL) Exit Requirement

ENC 3246 Communication for Engineers (WRIN)  
EEL 4914 EE Design II (CPST)

## 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.

## 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.

## Accreditation Information

The Bachelor of Science degree program in Electrical 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: ENC 1302; Phone: (813) 974-2684; Email: [eng-advisingmail@usf.edu](mailto:eng-advisingmail@usf.edu)

Students accepted into the EE Department should meet with Dr. Wiley, the EE Department Undergraduate Program Director, with any questions. Dr. Paris Wiley, Program Director, [wiley@usf.edu](mailto:wiley@usf.edu), ENB 379C, (813) 974-2369

## ELECTRICAL ENGINEERING FACULTY

*Chairperson:* T. Weller; *Professors:* Robert H. Bishop, L. Dunleavy, C. Ferekides, N. Ghani, R. Gitlin, A. Hoff, V. Jain, W. Moreno, D. Morel, S. Morgera, R. Sadow, R. Sankar, R. Schlaf, E. Stefanakos; *Associate Professors:* H. Arslan, S. Bhanja, J. Wang, P.H. Wiley; *Assistant Professors:* L. Fan, R. Fehr, Z. Miao, G. Mumcu, K. Selcuk, A. Takshi, S.W. Thomas, I. Uysal; *Instructors:* Chung Seop Jeong.

## • B.S.I.E. - INDUSTRIAL ENGINEERING (EIE) (CIP = 14.3501) TOTAL DEGREE HOURS: 128

<http://www.usf.edu/engineering/undergraduate/majors.aspx>

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

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the field;

- Pursue excellence in interdisciplinary research and innovation;
- Engage with the profession and the community.

## Program Educational Objectives

Our graduates are expected to:

- Have applied industrial engineering effectively and creatively
- Have demonstrated effective communication and teamwork
- Have engaged in community service and leadership
- Have continued to pursue life-long learning

Please see the mission statement on the department website for additional information.

## 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.

*Minimum 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 2.4 GPA based upon the best attempt in these courses.

2. A minimum overall GPA of 2.0
3. A minimum USF GPA of 2.0

## Department Policies

The Department has the following policies:

- Mandatory academic advising of students for each term,
- Exit interviews as a graduation requirement,
- Students are encouraged to take the FE Exam.

## 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.

## 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.

## STATE MANDATED COMMON COURSE PREREQUISITES

If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students should complete the following **prerequisite courses** listed below at the lower level prior to entering the University. If these courses are not taken at a Florida College System institution, they must be completed before the degree is granted. Unless stated otherwise, a grade of C is the minimum acceptable grade.

Students qualify for direct entry to the department if they have completed the following courses at a Florida College System institution or University in the Florida State University System (SUS) and meet all other admissions requirements of the University and College.

Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the University.

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## 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 2045/2045L General Chemistry I with Lab  
CHS 2440/2440L General Chemistry for Engineers with

### Courses at a Florida College System Institution

CHM X045/X045L or CHM X045C or  
CHS X440/X440L

Lab

PHY 2048/2048L General Physics I - Calculus Based  
with Lab

PHY X048/X048L or PHY X048C or PHY X043/X048L

PHY 2049/2049L General Physics II - Calculus Based  
with Lab

PHY X049/X049L or PHY X049C or PHY X044/X049L

## REQUIREMENTS FOR THE MAJOR IN INDUSTRIAL ENGINEERING TOTAL MAJOR HOURS: 107

### Major requirements for the B.S.I.E. Degree:

#### Major Core (102 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 2040L 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 (24 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 (required FKL Social and Behavioral Elective)

##### Specialization (48 credit hours)

ESI 2009 Introduction to Engineering Programming  
EIN 4312C Work Analysis  
EIN 4621 Manufacturing Processes  
ESI 4312 Deterministic O.R.  
EIN 4333 Production Control  
ESI 4221 Industrial Statistics and Quality Control  
ESI 4313 Probabilistic O.R.  
ESI 4620 Design of Industrial Information Systems  
ESI 4606 Engineering Analytics I  
EIN 4364 Facilities Design and Cost Analysis  
ESI 4244 Design of Experiments  
ESI 4523 Systems Simulation  
EIN 4243C Human Factors  
EIN 4601C Automation and Robotics

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- EIN 4891 Capstone Design (CPST)  
 ESI 4607 Engineering Analytics II  
**Technical Writing (3 credit hours)**  
 ENC 3246 Communication for Engineers (WRIN)

## Major Electives (5 hours)

Five (5) 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  
 EIN 4933 Special Topics in Industrial Engineering  
 EIN 5182 Principles of Engineering Management  
 EIN 5275 Work Physiology and Biomechanics  
 EIN 5510 Manufacturing Systems Analysis  
 ESI 4326 Engineering the Supply Chain  
 ESI 5236 Reliability Engineering  
 ESI 5522 Computer Simulation

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
<u>MAC 2281</u> or <u>MAC 2311</u>	4	<u>MAC 2282</u> or <u>MAC 2312</u>	4
<u>CHM 2045</u> or <u>CHS 2440</u>	3	<u>ENC 1102</u> Composition II	3
<u>ENC 1101</u> Composition I	3	<u>SGEH</u> General Education Core Humanities	3
<u>SGES</u> General Education Core Social Sciences	3	<u>PHY 2048</u> General Physics I - Calculus Based	3
<u>CHM 2045L</u> or <u>CHS 2440L</u>	1	<u>CAFA</u> FKL/Gen Ed Fine Arts	3
<u>EGN 3000L</u> Foundations of Engineering Lab	1	<u>PHY 2048L</u> General Physics I Laboratory	1
! <u>EGN 3000</u> Foundations of Engineering		Semester Hours:	17
Semester Hours:	15		

## Summer

### Summer Opportunities

Semester 3	Credit Hours	Semester 4	Credit Hours
<u>MAC 2283</u> or <u>MAC 2313</u>	4	<u>EGN 1113</u> Introduction to Design Graphics	3
<u>CAHU</u> FKL/Gen Ed Humanities (with HHCP)	3	<u>EGN 3373</u> Introduction to Electrical Systems I	3
<u>PHY 2049</u> General Physics II - Calculus Based	3	<u>EGN 3433</u> or <u>MAP 2302</u>	3
<u>EGN 3443</u> Probability and Statistics for Engineers	3	<u>EGN 3365</u> Materials Engineering I	3
<u>EGN 4450</u> Introduction to Linear Systems	2	<u>EGN 3311</u> Statics	3
<u>PHY 2049L</u> General Physics II Laboratory	1	Semester Hours:	15

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Semester Hours: 16

<b>Summer</b>		<b>Credit Hours</b>
<u>EGN 3615</u> Engineering Economics with Social and Global Implications		3
<u>CAGC FKL/Gen Ed</u> Human and Cultural Diversity in a Global Context		3
<u>EGN 3343</u> Thermodynamics I		3
Semester Hours:		9

<b>Semester 5</b>	<b>Credit Hours</b>	<b>Semester 6</b>	<b>Credit Hours</b>
<u>ENC 3246</u> Communication for Engineers	3	<u>ESI 4620</u> Design of Industrial Information Systems	3
<u>ESI 4312</u> Deterministic O.R.	3	<u>ESI 4313</u> Probabilistic O.R.	3
<u>ESI 2009</u> Introduction to Engineering Programming	3	<u>EIN 4333</u> Production Control	3
<u>EIN 4621</u> Manufacturing Processes	3	<u>ESI 4221</u> Statistical Quality Control	3
<u>EIN 4312C</u> Work Analysis	3	Upper-Level Department Elective	3
Semester Hours:	15	Semester Hours:	15

<b>Summer</b>	<b>Credit Hours</b>
Internship/Co-op Participation	
Semester Hours:	0

<b>Semester 7</b>	<b>Credit Hours</b>	<b>Semester 8</b>	<b>Credit Hours</b>
<u>ESI 4244</u> Design of Experiments	3	<u>EIN 4601C</u> Automation and Robotics	3
<u>ESI 4606</u> Engineering Analytics I	3	<u>EIN 4891</u> Capstone Design	3
<u>EIN 4364</u> Facilities Design and Cost Analysis	3	<u>ESI 4607</u> Engineering Analytics II	3
<u>ESI 4523</u> Systems Simulation	3	<u>EIN 4243C</u> Human Factors	3
Upper-Level Department Elective	2	Semester Hours:	12
Semester Hours:	14		

## Gordon Rule Requirement

Gordon Rule (6A) is fully met through the mathematics courses above, ENC 1101, ENC 1102, ENC 3246 and EIN 4243C or by completing an AA degree at a Florida College System institution

## General Education and Foundations of Knowledge and Learning (FKL) Requirements

The math and science courses required for this major fully meet the math and science requirements of the General Education Core and Foundations of Knowledge and Learning core curriculum.

Students in the College of Engineering may substitute a second "Physical Science" course for the required "Life Science" course. The credits earned for chemistry required by this major may count toward the FKL science requirement.

## Foundations of Knowledge and Learning (FKL) Exit Requirement

- ENC 3246 Communication for Engineers (WRIN)
- EIN 4891 Capstone Design (CPST)

## 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.

## 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

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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.

## Accreditation Information

The Bachelor of Science degree program in Industrial Engineering 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 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 2.4 GPA Math/Science entrance requirement is 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

*Chairperson and Professor:* T.K. Das; *Professors:* O.G. Okogbaa, J. Zayas-Castro; *Associate Professors:* G. Centeno, S. Lai-Yuen, K. Reeves, A. Savachkin, M.X. Weng, A. Yalcin; *Assistant Professors:* M. Li, H. Yang, B. Zeng; *Instructors:* P. Anzalone, P. Schnitzler.

## • B.S.I.T. - INFORMATION TECHNOLOGY (ITC) (CIP = 11.0103 TRACK 1 OF 4 ) TOTAL DEGREE HOURS: 120

<http://www.cse.usf.edu/undergraduate/>

The Information Technology program fills the gap between Computer Science and Management Information Systems. This program focuses on identifying suitable technologies and applying fundamental computing knowledge to solve business problems. Students in this program can acquire a specialization in key Information Technology topics or get familiar with a broad range of computing technologies. Currently all IT courses are online, however, this might change in the future. The Information Technology major is currently fully online.

## 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, and information technology through internationally recognized research and graduate education, as well as technology transfer to regional industries.
2. Prepare students for full and ethical participation in a diverse society and encourage lifelong learning.
3. Educate students in the best practices of the field as well as integrate the latest research into the curriculum.
4. Foster the development of problem solving and communication skills as an integral component of the profession.
5. Provide quality learning experiences through small classes, active learning styles of teaching, and opportunities for meaningful interactions between students and faculty.

## Objectives

The Department of Computer Science and Engineering has established the following program educational objectives for information technology graduates of the Department.

1. Our information technology graduates will apply their knowledge and skills to succeed in their career and/or obtain an advanced degree.
2. Our graduates will function ethically and responsibly, and will remain informed and involved as full participants in our profession and our society.
3. Our graduates will successfully function in multi-disciplinary teams.
4. Our graduates will apply basic principles and practices of information technology to identify sustainable technologies and apply fundamental computing knowledge to solve business problems.

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## Entrance Requirements for the Information Technology Program

Students admitted to the University of South Florida and the College of Engineering must qualify for the major by successfully meeting the requirements below. Students who have fully met the admission requirements for the major, and are in good academic standing, may declare Information Technology. Early admission may be possible for students with strong academic performance.

A minimum grade of C in each course is required (grade of C- is insufficient).

## 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.

## Grading Requirement

Only grades of C or better in IT courses can be used to fulfill graduation requirements; a grade of C- is insufficient.

1. Completion of:
  - PSY XXXX Any Psychology course
  - STA X023 Introductory Statistics I or STA X122
  - ECO X013 Principles of Economics (Macroeconomics)
  - CGS XXXX Any Database course
  - COP XXXX Any Computer Programming course
  - MAC XXXX Any Pre-Calculus course
  - PHY XXXX Any Physics course
  - XXXX XXXX Any Discrete Math course
  - COP XXXX Any Object-Oriented Computer Programming course
2. A minimum overall GPA of 2.0
3. A minimum USF GPA of 2.0

## 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 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.

## STATE MANDATED COMMON COURSE PREREQUISITES

### Transfer Credit

The USF College of Engineering will accept transfer credit from non-Florida Statewide Common Course Numbering System courses when appropriate if the transferred course has been passed with a grade of C or better and it is determined to be equivalent in both content and quality. In some cases credit for a course *may* be granted, but the hours accepted may be less than the hours earned at another school. In general, engineering and technology courses taken at technical schools, or as part of professional or military training, are not applicable to the degree programs of the College of Engineering. Transfer students should be prepared to submit detailed course syllabi from the previous institution if requested.

While credit work from other institutions may be granted subject to the conditions of the previous paragraph, at least 30 credit hours including a minimum number of semester hours of engineering coursework, specified by the degree-granting department, must be taken at USF to receive the baccalaureate degree. Prospective transfer students may contact the College's Office of Student Services at (813) 974-2684 to request an assessment.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless otherwise stated, a grade of C is the minimum acceptable grade.

- PSY XXXX Any Psychology course
- STA X023 Introductory Statistics I or STA X122
- ECO X013 Principles of Economics (Macroeconomics)
- CGS XXXX Any Database course
- COP XXXX Any Computer Programming course
- MAC XXXX Any Pre-Calculus course
- PHY XXXX Any Physics course



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- XXXX XXXX Any Discrete Math course
- COP XXXX Any Object-Oriented Computer Programming course

## REQUIREMENTS FOR THE MAJOR IN INFORMATION TECHNOLOGY TOTAL MAJOR HOURS: 86

### Major requirements for the B.S.I.T. Degree:

#### Major Core (71 hours)

PSY	2012	Introduction to Psychological Science
STA	2023	Introductory Statistics I
ECO	2013	Economics Principles (Macroeconomics)
MAC	1147	Precalculus Algebra and Trigonometry
PHY	2020	Conceptual Physics
MAD	2104	Discrete Math
CGS	1540	Introduction to Databases for Information Technology
COP	XXXX	Programming Concepts for Information Technology
CGS	3303	Information Technology Concepts
COP	XXXX	Object Oriented Programming for Information Technology
COP	3515	Program Design for Information Technology
CEN	3722	Human Computer Interfaces for Information Technology
CDA	3101	Computer Organization for Information Technology
INR	3033	International Political Cultures
CNT	4104	Computer Information Networks for Information Technology
CNT	4104L	Information Networks Laboratory for Information Technology
EEL 4	854	Data Structures and Algorithms for Information Technology
COP	4703	Database Systems for Information Technology
CEN	4031	Software Engineering Concepts for Information Technology
COP	4610	Operating Systems for Information Technology
COP	4930	Information Technology Seminar*
CIS	4935	Senior Project in Information Technology
CIS	4253	Ethics for Information Technology
ETG	4931	Special Topics in Technology (Advanced Written and Oral Communication for IT)
ENC	3246	Communication for Engineers (WRIN)

\*COP 4930 Information Technology Seminar includes attendance at department-sponsored colloquia as well as attendance at student presentations of their senior projects. Colloquia and senior project attendance at any time during your program can be accumulated and used to satisfy the requirements of COP 4930 when you actually register for that course.

#### Major Electives (15 hours)

15 hours of IT Approved Electives from the following list:

CGS	3845	Electronic Commerce
CGS	3853	IT Web Design
CIS	3360	Principles of Information Security
CIS	3362	Cryptography and Information Security
CIS	3367	Architecting Operating System Security
CIS	4204	Ethical Hacking
CIS	4361	Information Technology Security Management
CIS	4412	Information Technology Information Management
CIS	4932	Special Topics for Information Technology
COP	4814	Web Services
COP	4816	XML Applications
COP	4834	Data-Driven Web Sites
CNT	3403	Network Security and Firewalls
CTS	4348	Linux Administration
ISM	3011	Information Systems in Organizations
LIS	3361	World Wide Web Page Design and Management
MAN	3025	Principles of Management

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## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

<b>Semester 1</b>	<b>Credit Hours</b>	<b>Semester 2</b>	<b>Credit Hours</b>
<u>EGN 3000</u> Foundations of Engineering		<u>MAC 1147</u> Precalculus Algebra and Trigonometry	4
<u>ENC 1101</u> Composition I	3	<u>ENC 1102</u> Composition II	3
<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3	<u>PSY 2012</u> Introduction to Psychological Science	3
<u>CGS 1540</u> Introduction to Databases for Information Technology	3	<u>COP 2930</u> or (Programming Concepts for Information Technology)	3
General Elective	3	General Elective	3
Semester Hours:	12	Semester Hours:	16

### Summer

#### Summer Opportunities

<b>Semester 3</b>	<b>Credit Hours</b>	<b>Semester 4</b>	<b>Credit Hours</b>
<u>ECO 2013</u> Economic Principles (Macroeconomics)	3	<u>PHY 2020</u> Conceptual Physics	3
<u>CANL</u> FKL/Gen Ed Natural Sciences (Life Science)	3	<u>MAD 2104</u> Discrete Mathematics	3
<u>STA 2023</u> Introductory Statistics I	3	<u>CAFA</u> FKL/Gen Ed Fine Arts	3
<u>COP 2931</u> or (Object-Oriented Programming for IT)	3	<u>SGEH</u> General Education Core Humanities	3
<u>EGN 3000L</u> Foundations of Engineering Lab	1	Semester Hours:	12
Semester Hours:	13		

### Summer

	<b>Credit Hours</b>
<u>CGS 3303</u> IT Concepts	3
<u>CAHU</u> FKL/Gen Ed Humanities (with HHCP)	3
IT Approved Elective	3
Semester Hours:	9

<b>Semester 5</b>	<b>Credit Hours</b>	<b>Semester 6</b>	<b>Credit Hours</b>
<u>ENC 3246</u> Communication for Engineers	3	<u>ETG 4931</u> Special Topics in Technology I	3
<u>CEN 3722</u> Human Computer Interfaces for Information Technology	3	<u>CNT 4104</u> Computer Information Networks for Information Technology	3
<u>INR 3033</u> International Political Cultures	3	<u>CDA 3101</u> Computer Organization for Information Technology	3
<u>COP 3515</u> Program Design for Information Technology	3	<u>EEL 4854</u> Data Structures and Algorithms for Information Technology	3
Semester Hours:	12	IT Approved Elective	3
		<u>CNT 4104L</u> Computer Information Networks Laboratory for IT	1
		Semester Hours:	16

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Summer		Credit Hours	
Internship/Co-op Participation		Semester Hours:	0
Semester 7	Credit Hours	Semester 8	Credit Hours
<u>COP 4703</u> Database Systems for Information Technology	3	<u>COP 4930</u> Information Technology Seminar	1
<u>COP 4610</u> Operating Systems for Information Technology	3	<u>CIS 4253</u> Ethics for Information Technology	3
<u>CEN 4031</u> Software Engineering Concepts for Information Technology	3	<u>CIS 4935</u> Senior Project in Information Technology	5
IT Approved Elective	3	IT Approved Elective	3
IT Approved Elective	3	IT Approved Elective	3
Semester Hours:	15	Semester Hours:	15

## Gordon Rule Requirement

Gordon Rule (6A) is fully met through the mathematics courses above, ENC 1101, ENC 1102, ENC 3246 and CIS 4253 or by completing an A.A. degree at a Florida College System institution.

## General Education and Foundations of Knowledge and Learning (FKL) Requirements

The math and science courses required for this major fully meet the math and science requirements of the General Education Core and Foundations of Knowledge and Learning core curriculum.

Students in the College of Engineering may substitute a second "Physical Science" course for the required "Life Science" course. The credits earned for chemistry required by this major may count toward the FKL science requirement.

## Foundations of Knowledge and Learning (FKL) Exit Requirement

ENC 3246 Communication for Engineers (WRIN)  
CIS 4935 Senior Project in Information Technology (CPST)

## 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.

## 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.

## Advising Information

Undergraduate Advising: [http://www.cse.usf.edu/undergraduate/people\\_to\\_contact/](http://www.cse.usf.edu/undergraduate/people_to_contact/).

## REQUIREMENTS FOR THE MINOR IN IT GENERAL MINOR (ITG)

**TOTAL MINOR HOURS: 15**

<http://www.usf.edu/engineering/undergraduate/minors.aspx>

The IT General minor is a 15-credit hour program aimed at providing an basic understanding of the significant concepts underlying Information Technology while enabling the student to specialize by choosing four elective topics. Available electives encompass a wide spectrum of topics such as programming, networking, web design, human-computer interface and security management. This minor is open to all students, except for Information Technology, Computer Science or Computer Engineering majors, who meet the prerequisites listed.

**Minor Core (3 hours)**

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CGS 3303	IT Concepts (a prerequisite, any Physics course, is required for this course)
<b>Minor Electives (12 hours)</b>	
CDA 3101	Computer Organization for Information Technology (prerequisites required for this course)
CEN 3722	Human Computer Interfaces for Information Technology
CIS 4361	Information Technology Security Management
CIS 4412	Information Technology Resource Management
COP 3515	Program Design for Information Technology (prerequisites required for this course)
EEL 4782	Computer Information Networks for Information Technology
EEL 4782L	Information Networks Laboratory for Information Technology
EEL 4854	Data Structures and Algorithms for IT (prerequisites required for this course)
CIS 39XX	Special Topics in Information Technology
CIS 49XX	Special Topics in Information Technology
COP 39XX	Special Topics in Information Technology
COP 49XX	Special Topics in Information Technology
ETG 39XX	Special Topics in Information Technology
ETG 49XX	Special Topics in Information Technology

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 an IT program major.

**Prerequisite for Required Course (3 credit hours):**

PHY XXXX Any Physics course

**GPA Requirement**

Successful completion of the minor requires a minimum 2.0 GPA in the above listed courses.

## REQUIREMENTS FOR THE MINOR IN IT TECHNICAL MINOR (ITE)

### TOTAL MINOR HOURS: 24

<http://www.usf.edu/engineering/undergraduate/minors.aspx>

The IT Technical minor is a 24-credit hour program that 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. It 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 (a prerequisite is required for this course)
COP 3515	Program Design for Information Technology (a prerequisite is required for this course)
EEL 4854	Data Structures and Algorithms for IT (prerequisites required for this course)

**Minor Electives (15 hours)**

**Electives (choose five course from the list below):**

CDA 3101	Computer Organization for Information Technology (prerequisites required for this course)
CEN 3722	Human Computer Interfaces for Information Technology
CEN 4031	Software Engineering Concepts for IT (prerequisites required for this course)
CIS 4361	Information Technology Security Management
CIS 4412	Information Technology Resource Management
COP 4610	Operating Systems for Information Technology (prerequisites required for this course)
COP 4610L	Operating Systems Laboratory for IT (prerequisites required for this course)
COP 4703	Database Systems for Information Technology (prerequisites required for this course)
EEL 4782	Computer Information Networks for Information Technology
EEL 4782L	Information Networks Laboratory for Information Technology
CIS 39XX	Special Topics in Information Technology
CIS 49XX	Special Topics in Information Technology
COP 39XX	Special Topics in Information Technology
COP 49XX	Special Topics in Information Technology
ETG 39XX	Special Topics in Information Technology
ETG 49XX	Special Topics in Information Technology

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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 an IT program major.

### Prerequisites for Required Courses (9 credit hours):

COP 2930	Special Topics for Information Technology - IT Programming Concepts
MAD 2104	Discrete Math or ETG 3934 Special Topics for Information Technology -Discrete Math for IT
PHY XXXX	Any Physics course

### GPA Requirement

Successful completion of the minor requires a minimum 2.0 GPA in the above listed courses.

## INFORMATION TECHNOLOGY FACULTY

*Chairperson:* L. Hall; *Distinguished Professors:* L. Hall, N. Ranganathan; *Professors:* K. Christensen, D. Goldgof, R. Kasturi, M. Labrador, R. Perez, L. Piegler, S. Sarkar, A. Weitzenfeld; *Associate Professors:* W. Armitage, P. Bao, S. Chellappan, A. Gaspar, A. Iamnitchi, J. Ligatti, S. Katkooi, X. Ou, Y. Tu, H. Zheng; *Assistant Professors:* S. Ghosh, Y. Liu, L. Palmer, P. Rosen, Y. Sun; *Instructors:* W. Gauvin, W. Hendrix, I. Hidalgo, H. Jeanty, X. Li, R. Tindell, J. Wang, Y. Zhang; *Distinguished Professor Emeritus:* A. Kandel; *Professors Emeritus:* H. Glass, D. Rundus, M. Varanasi.

## • 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 program take coursework in thermodynamics, heat transfer, instrumentation, measurements, solid and fluid mechanics, dynamics, machine analysis and design, mechanical design, manufacturing processes, vibrations and controls. This is supplemented by elective coursework in such areas as sustainability, internal combustion engines, refrigeration and air conditioning, mechanical design, robotics, propulsion, computer-aided design, manufacturing, bio-engineering, alternative energy, thermal design, composite materials, and tribology. Laboratories are available for basic instrumentation, thermal and fluid sciences, solid mechanics, data acquisition, controls, CAD/CAE, and vibrations.

Graduates of this program are employed in design, manufacturing, contracting, operations, marketing, and management in virtually all segments of industry and government, including, but not limited to: aeronautics, aerospace and propulsion; automotive, internal combustion engines, fuel cells and transportation; propulsion systems; 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.

### Undergraduate Program Educational Objectives

Our Graduates, within 3-5 years of graduation, will successfully:

1. A. Apply concepts of science, mathematics, computation, and engineering in their chosen profession.
2. Apply knowledge and skills essential to engineering processes, such as design, analysis, synthesis, fabrication and experimental techniques.
3. Demonstrate skills for professional interaction and leadership including multi-disciplinary collaboration, and effective oral and written communication.
4. Demonstrate continued career development as well as professional and ethical responsibility within the global, societal and economic context.

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## 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:
  - o Calculus I (MAC 2311 or MAC 2281)
  - o Calculus II (MAC 2312 or MAC 2282)
  - o Calculus-based Physics I with Lab (PHY 2048 and PHY 2048L)
2. A minimum overall GPA of 2.0
3. A minimum USF GPA of 2.0

### 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 D-. 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.

## STATE MANDATED COMMON COURSE PREREQUISITES

If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Students should complete the prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at a Florida College System institution, they must be completed before admission into the department is granted. A grade of C is the minimum acceptable grade in prerequisite courses.

Students qualify for direct entry to the department if they have completed the following courses at a Florida College System institution or University in the Florida State University System (SUS) and meet all other admissions requirements of the University and College.

A grade of C is the minimum acceptable grade in these prerequisite courses.

Students qualify for direct entry to the department if they have completed the courses at a Florida state or community College or a University in the Florida State University System (SUS) and meet all other admissions requirements of the University and College.

If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

### 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

#### Courses at a Florida College System Institution

CHM X045/X045L or CHM X045C or  
CHS X440/X440L

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PHY 2048/2048L General Physics I - Calculus Based with Lab	PHY X048/X048L or PHY X048C or PHY X043/X048L
PHY 2049/2049L General Physics II - Calculus Based with Lab	PHY X049/X049L or PHY X049C or PHY X044/X049L

## REQUIREMENTS FOR THE MAJOR IN MECHANICAL ENGINEERING

**TOTAL MAJOR HOURS: 104**

### Major requirements for the B.S.M.E. Degree:

#### Major Core (92 hours)

Note: Department prefers students take EGN 3615 to fulfill one of the FKL Social and Behavioral Sciences Elective requirement, otherwise it will fulfill one of the Upper-Level (Technical/Design) Departmental Electives.

#### 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
CHS 2440L	General Chemistry for Engineers 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 (19 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 (43 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 (CPST)

#### Technical Writing (3 credit hours)

ENC 3246	Communication for Engineers (WRIN)
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#### Major Electives (12 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

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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 4552	Senior Mechanical Design
EML 4575	Principles of Fracture Mechanics
EML 4593	Haptics
EML 4601	Air Conditioning Design
EML 4702	Fluid Dynamics II
EML 4703	Mechanics of Compressible Fluids
EML 4905	Independent Study
EML 4930	Special Topics in Mechanical Engineering
OSE 4601	Optical Product Technology

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
<u>MAC 2281</u> or <u>MAC 2311</u>	4	<u>MAC 2282</u> or <u>MAC 2312</u>	4
<u>CHM 2045</u> or <u>CHS 2440</u>	3	<u>ENC 1102</u> Composition II	3
<u>ENC 1101</u> Composition I	3	<u>CAFA</u> FKL/Gen Ed Fine Arts	3
<u>SGEH</u> General Education Core Humanities	3	<u>PHY 2048</u> General Physics I - Calculus Based	3
<u>CHM 2045L</u> or <u>CHS 2440L</u>	1	<u>PHY 2048L</u> General Physics I Laboratory	1
<u>EGN 3000L</u> Foundations of Engineering Lab	1	Semester Hours:	14
! <u>EGN 3000</u> Foundations of Engineering			
Semester Hours:	15		

## Summer

### Summer Opportunities

Semester 3	Credit Hours	Semester 4	Credit Hours
<u>MAC 2283</u> or <u>MAC 2313</u>	4	<u>MAP 2302</u> Differential Equations	3
<u>EGN 3615</u> Engineering Economics with Social and Global Implications	3	<u>EGN 3321</u> Dynamics	3
<u>PHY 2049</u> General Physics II - Calculus Based	3	<u>EML 3500</u> Mechanics of Solids	3
<u>EGN 3311</u> Statics	3	<u>EGN 3343</u> Thermodynamics I	3
<u>PHY 2049L</u> General Physics II Laboratory	1	<u>SGES</u> General Education Core Social Sciences	3
Semester Hours:	14	Semester Hours:	15

## Summer

	Credit Hours
<u>EGN 3365</u> Materials Engineering I	3
<u>EML 3035</u> Programming Concepts for Mechanical Engineers	1
<u>EGN 3443</u> Probability and Statistics for Engineers	3
<u>EML 3022</u> Computer Aided Design and Engineering	3
Semester Hours:	10



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Semester 5	Credit Hours	Semester 6	Credit Hours
<u>ENC 3246</u> Communication for Engineers	3	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
<u>EML 3041</u> Computational Methods	3	<u>EGN 3373</u> Introduction to Electrical Systems I	3
<u>EML 3262</u> Kinematics and Dynamics of Machinery	3	<u>EML 4501</u> Machine Design	3
<u>EML 3701</u> Fluid Systems	3	<u>EML 3303</u> Mechanical Engineering Lab I	3
<u>EML 4325</u> Mechanical Manufacturing Processes	3	<u>EML 4106C</u> Thermal Systems and Economics	3
Semester Hours:	15	Semester Hours:	15

Summer	Credit Hours
Internship/Co-op Participation	
Semester Hours:	0

Semester 7	Credit Hours	Semester 8	Credit Hours
<u>EML 4302</u> Mechanical Engineering Laboratory II	3	<u>EML 4551</u> Capstone Design	3
<u>EML 4123</u> Heat Transfer	3	<u>EML 4312</u> Mechanical Controls Major Upper-Level Department Elective	3
<u>EML 4220</u> Vibrations	3	Major Upper-Level Department Elective	3
Major Upper-Level Department Elective	3	<u>CAHU</u> FKL/Gen Ed Humanities (with HHCP)	3
Major Upper-Level Department Elective	3		
Semester Hours:	15	Semester Hours:	15

## Gordon Rule Requirement

Gordon Rule (6A) is fully met through the mathematics courses above, ENC 1101, ENC 1102, ENC 3246 and by selecting one Foundation of Knowledge and Learning elective that is an approved 6A communication course or by completing an AA degree at a Florida College System institution.

## General Education and Foundations of Knowledge and Learning (FKL) Requirements

The math and science courses required for this major fully meet the math and science requirements of the General Education Core and Foundations of Knowledge and Learning core curriculum.

Students in the College of Engineering may substitute a second "Physical Science" course for the required "Life Science" course. The credits earned for chemistry required by this major may count toward the FKL science requirement.

## Foundations of Knowledge and Learning (FKL) Exit Requirement

- EML 4551 Capstone Design (CPST)
- ENC 3246 Communication for Engineers (WRIN)

## 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.

## 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.

# COLLEGE OF ENGINEERING

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## Accreditation Information

The Bachelor of Science degree program in Mechanical Engineering is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.

## Advising Information

<http://me.eng.usf.edu/students/undergraduates.htm>.

Dr. Dan Hess, Professor & Undergraduate Advisor, (813) 974-2280, ENC 2205.

## MECHANICAL ENGINEERING FACULTY

*Chairperson:* R. Dubey; *Professors:* R. Dubey, D. Durham, D. Hess, A. Kaw, A. Kumar, J. Porteiro; *Associate Professors:* G. Besterfield, N. Crane, C. Lusk, N. Gallant, R. Guldiken, A. Volinsky, S. Wilkinson; *Assistant Professors:* W. Cai, K. Reed; *Instructor:* J. Dixon, J. Gaines, A. Mujumdar, F. Pyrtle III; *Adjunct:* D. Dekker; *Professors Emeritus:* L. Scott, W. Smith, S. Ying.

## REQUIREMENTS FOR THE MINOR IN BIOMEDICAL ENGINEERING (EBI)

### TOTAL MINOR HOURS: 15

<http://www.usf.edu/engineering/undergraduate/minors.aspx>

The Biomedical Engineering minor is a 15-credit hour program 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.

### 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:

- ECH 4931 Special Topics in Chemical Engineering\*
- PHZ 4702 Applications of Physics to Biology & Medicine I
- PHZ 4703 Applications of Physics to Biology & Medicine II
- BCH 3023 Introductory Biochemistry
- EIN 4243C Human Factors
- BME 5320 Theory and Design of Bioprocesses
- BME 5040 Pharmaceutical Engineering
- BME 4332 Cell and Tissue Engineering
- BME 4440 Introduction to Bioastronautics
- ECH 5748 Selected Topics in Biomedical Engineering\*\*
- BME 5748 Selected Topics in Biomedical Engineering\*\*

\*The list of approved special topics courses is below.

- ECH 4931 Bioseparations
- ECH 4931 Chemical/Bio Sensors & Microfabrication
- ECH 4931 Nanomedicine
- ECH 4931 Modern Biomedical Technologies
- ECH 4931 Engineering Physiology
- ECH 4931 Research Design Methods & Interpretations
- ECH 4931 Biomedical Image Processing
- ECH 4931 or EEL 4936 Bioelectricity

\*\*Please see academic advisor for selected topics courses.

### Prerequisite courses:

- Biology I: BSC 2010
- Calculus II: MAC 2282, MAC 2242, or MAC 2312
- Physics II: PHY 2049 or PHY 2054
- 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.

# COLLEGE OF NURSING

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## UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

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The College of Nursing encourages applications from qualified applicants of both sexes and from all cultural, racial, religious, ethnic, and age groups.

Following are the undergraduate sequences offered by the College of Nursing:

1. The **C.A.R.E. (Creating Access to RN Education)** program is a special program designed for the first time in college (FTIC) students. Requirements for consideration are a minimum 3.6 cumulative weighted high school grade point average and a combined score of at least 1200 on the SAT or a composite score of at least 28 on the ACT. To maintain C.A.R.E. status pre-nursing students must maintain a 3.5 GPA and a B average in all state mandated courses.

2. The **Upper Division (NUR)** sequence is for students who have completed all nursing pre-requisite courses and have a minimum GPA of 3.20. This is a full-time limited access program, as mandated by the state, and is structured sequentially. Admission is competitive.

3. The **Second Bachelor's Degree (SBN)** sequence is for students who have a baccalaureate degree in another field and a minimum undergraduate GPA of 3.00. Students with an awarded bachelor's degree and who have completed all the nursing pre-requisite courses may be considered for admission into the Second Bachelor's Degree sequence; upon completion, students will earn a second bachelor's degree. This is a full-time limited access program, as mandated by the state, and is structured sequentially. Admission is competitive.

4. The **RN to BS (NRN)** sequence is for students currently licensed to practice as a Registered Nurse. The RN to BS option allows an RN with a diploma or an associate's degree in nursing from a regionally accredited school to earn a Bachelor of Science degree with a major in nursing.

5. The **VCARE** sequence is for students who have U.S. Army Medic, U.S. Air Force Medic, or U.S. Navy Corpsman training and experience and minimum cumulative GPA of 3.00.

6. The **RN to MS** sequence is for students currently licensed to practice as a Registered Nurse. The RN to MS option allows an RN with an Associate's degree in nursing from a regionally accredited school to earn a Master of Science degree with selected specialty concentrations in Nursing. Upon completion of the RN to MS program, a student who has fulfilled the University's foreign language requirement may also apply for the awarding of the Bachelor of Science degree with a major in Nursing. For more information regarding admission to the RN-MS program please see the [Graduate School catalog](#).

### Following are the undergraduate academic programs offered by the College of Nursing:

#### **Bachelor of Science (B.S.)**

RN to Bachelor's Sequence (NRN)

Second Bachelor's Degree Sequence (SBN)

Upper Division Sequence (NUR)

VCARE (VCA)

The College of Nursing is a limited access program and uses selective criteria for the admission of students. 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. Admissions are determined on the basis of availability of sufficient qualified faculty, laboratory and classroom facilities, and clinical teaching resources. Final admission to all nursing programs is conditional upon passing a Level 2 background check. The background check must be completed at the applicant's expense in accordance with the College of Nursing policy and procedures on background checks and drug screening.

#### **Undergraduate Advising Information**

**Location and Phone Number:** Advising for the College of Nursing is available in the USF Health Wellness, Education, Leading & Learning (W.E.L.L.) building (MDA) located near Bruce B. Downs Blvd. and west Holly Drive on the northwest corner of campus. The mailing address is: 12901 Bruce B. Downs Blvd, MDC 22, Tampa, FL 33612-4766. The College telephone number is: (813) 974-2191.

**Student Affairs offices:** To schedule an advising appointment call the College of Nursing's Office of Student Affairs at (813) 974-2191 or consult the website at <http://health.usf.edu/nocms/nursing>. Advising appointments may also be scheduled using E-Scheduler at <http://usfweb3.usf.edu/appointments/StudentSignon.asp>

**Office Hours:** 8 a.m. - 5 p.m., Monday through Friday.

#### **Accreditation**

The baccalaureate program at the University of South Florida is accredited by the Commission on Collegiate Nursing Education, One Dupont Circle, NW, Suite 530, Washington DC 20036, (202) 887-6791. The program is approved by the Florida State Board of Nursing. Graduates of the Upper Division and Second Degree sequences are eligible to sit for the National Council Licensure Examination (NCLEX) Registered Nurse qualifying exam. Graduates may apply for licensure in Florida or other states. Successful undergraduates have the educational background necessary for graduate study in nursing.

# COLLEGE OF NURSING

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

## • B.S. - NURSING: VCARE (VCA) (CIP = 51.3801) TOTAL DEGREE HOURS: 120

<http://health.usf.edu/nursing/academics/vcare/index.htm>

The VCARE sequence is for students who have U.S. Army Medic, U.S. Air Force Medic, or U.S. Navy Corpsman training and experience and minimum cumulative GPA of 3.00.

### 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
- 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 sequence
- Minimum 3.00 cumulative GPA on all undergraduate work. Required pre-requisite 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.

### 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 Foundations of Knowledge and Learning Core Curriculum (General Education) requirements and College of Nursing's prerequisite/support courses may be completed through the A.A. degree from a Florida College System institution. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The A.A. degree satisfies admission requirements only if courses are carefully selected and include the required major prerequisite/support courses.

The College of Nursing requires certain courses within the Foundations of Knowledge and Learning Core Curriculum (General Education) requirement for the natural, social and behavioral sciences, and mathematics. Students must complete the prerequisite courses listed below prior to being admitted to the VCARE sequence except those students in the C.A.R.E. program. All prerequisite courses must be completed with a grade of "C" or higher.

All courses not approved by the Florida State Course Numbering System (includes all Florida public colleges, universities, and College System institutions) used to satisfy these prerequisite requirements will be evaluated individually on the basis of content and will require a catalog course description and a copy of the syllabus for assessment

- BSC X085C Human Anatomy & Physiology I or any Human Anatomy & Physiology I course, 4 semester hours
- BSC X086C Human Anatomy & Physiology II or any Human Anatomy & Physiology II course, 4 semester hours
- CHM, BSC, PHY, PCB, BCH XXXX Any Chemistry, Biology, Physics, or Biochemistry course, 3 semester hours
- DEP X004 Human Growth & Development or any Human Growth & Development course, 3 semester hours
- HUN X201 Human Nutrition or any Human Nutrition course **OR** NUR 1192, 3 semester hours
- MCB X010C Microbiology or Any Microbiology course, 4 semester hours
- PSY, SYG, or SOP XXXX Any Psychology, Sociology, or Social Psychology course, 3 semester hours
- STA X014 Statistics or any Statistics course, 3 semester hours

### REQUIREMENTS FOR THE MAJOR IN NURSING: VCARE TOTAL MAJOR HOURS: 56

Major requirements for the B.S. Degree:

Major Core (56 hours)

- NUR 3125 Pathophysiology for Nursing Practice

# COLLEGE OF NURSING

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

NUR 3145	Pharmacology in Nursing Practice
NUR 3081	Bridge to Professional Nursing
NUR 3081L	Bridge to Professional Nursing Practice
NUR 3826	Ethical/Legal Aspects of Nursing and Health Care
NUR 3535	Psychiatric/Mental Health Nursing
NUR 3535L	Psychiatric/Mental Health Nursing Clinical
NUR 3215	Medical Surgical Nursing I
NUR 3215L	Medical Surgical Nursing Clinical I
NUR 4216	Medical Surgical Nursing II
NUR 4216L	Medical Surgical Nursing Clinical II
NUR 4169C	Evidence-Based Practice for Baccalaureate Prepared Nurse
NUR 4827C	Leadership & Management in Professional Nursing Practice
NUR 4634C	Population Health
NUR 4355	Child & Adolescent Health Nursing
NUR 4455	Women's Health Nursing
NUR 4467L	Maternal & Pediatric Clinical Nursing Care Clinical (Pediatrics, then Women's Health)
NUR 4948L	Preceptorship

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1		Credit Hours	Semester 2		Credit Hours
!	<u>NUR 3125</u> Pathophysiology for Nursing Practice	4	!	<u>NUR 3535</u> Psychiatric/Mental Health Nursing	3
!	<u>NUR 3145</u> Pharmacology in Nursing Practice	3	!	<u>NUR 3535L</u> Psychiatric/Mental Health Nursing Clinical	3
!	<u>NUR 3081</u> Bridge to Professional Nursing	3	!	<u>NUR 3215</u> Medical Surgical Nursing I	3
!	<u>NUR 3081L</u> Bridge to Professional Nursing Practice	2	!	<u>NUR 3215L</u> Medical Surgical Nursing Clinical I	4
	Semester Hours:	12	!	<u>NUR 4169C</u> Evidence-Based Practice for Bacc Prepared Nurse	3
			!	<u>NUR 3826</u> Ethical Legal Aspects in Nursing and Health Care	2
				Semester Hours:	18

Summer		Credit Hours
!	<u>NUR 4216</u> Medical Surgical Nursing II	4
!	<u>NUR 4216L</u> Medical Surgical Nursing Clinical II	5
!	<u>NUR 4455</u> Women's Health Nursing	2
!	<u>NUR 4467L</u> Maternal and Pediatric Nursing Care Clinical	4
	Semester Hours:	15

Semester 3		Credit Hours
!	<u>NUR 4355</u> Child and Adolescent Health Nursing	3
!	<u>NUR 4634C</u> Population Health	3
!	<u>NUR 4827C</u> Leadership and Management in Professional Nursing Practice	3
!	<u>NUR 4948L</u> Preceptorship	6
	Semester Hours:	15

Semester Hours: 0

# COLLEGE OF NURSING

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

## • **B.S. - NURSING: RN TO BACHELOR'S SEQUENCE (NRN) (CIP = 51.3801)**

**TOTAL DEGREE HOURS: 120**

<http://health.usf.edu/nursing/academics/rnbs/index.htm>

The **RN to BS** (NRN) sequence is for students currently licensed to practice as a Registered Nurse. The RN to BS option allows an RN with a diploma or an associate's degree in nursing from a regionally accredited school to earn a Bachelor of Science degree with a major in Nursing.

### **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:**

Current RN licensure and either an Associate of Science in Nursing degree from a regionally accredited institution or a diploma in Nursing.

### **STATE MANDATED COMMON COURSE PREREQUISITES**

The University's Foundations of Knowledge and Learning Core Curriculum (General Education) requirements and College of Nursing's prerequisite/support courses may be completed through the A.A. degree from a Florida College System institution. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The A.A. degree satisfies admission requirements only if courses are carefully selected and include the required major prerequisite/support courses.

The College of Nursing requires certain courses within the Foundations of Knowledge and Learning Core Curriculum (General Education) requirement for the natural, social and behavioral sciences, and mathematics. Students must complete the prerequisite courses listed below prior to being admitted to the RN to Bachelor's sequence except those students in the C.A.R.E. program. All prerequisite courses must be completed with a grade of "C" or higher.

All courses not approved by the Florida State Course Numbering System (includes all Florida public colleges, universities, and College System institutions) used to satisfy these prerequisite requirements will be evaluated individually on the basis of content and will require a catalog course description and a copy of the syllabus for assessment.

BSC X085C Human Anatomy & Physiology I or any Human Anatomy & Physiology I course, 4 semester hours  
BSC X086C Human Anatomy & Physiology II or any Human Anatomy & Physiology II course, 4 semester hours  
CHM, BSC, PHY, PCB, BCH XXXX Any Chemistry, Biology, Physics, or Biochemistry course, 3 semester hours  
DEP X004 Human Growth & Development or any Human Growth & Development course, 3 semester hours  
HUN X201 Human Nutrition or any Human Nutrition course **OR** NUR 1192, 3 semester hours  
MCB X010C Microbiology or Any Microbiology course, 4 semester hours  
PSY, SYG, or SOP XXXX Any Psychology, Sociology, or Social Psychology course, 3 semester hours  
STA X014 Statistics or any Statistics course, 3 semester hours

## **REQUIREMENTS FOR THE MAJOR IN NURSING: RN TO BACHELOR'S SEQUENCE**

**TOTAL MAJOR HOURS: 30**

#### **Major requirements for the B.S. Degree:**

##### **Major Core (15 hours)**

NUR 3805 Educational Transitions for Registered Nurses  
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; 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

# COLLEGE OF NURSING

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NSP 3640 Introduction to Military & Veteran Healthcare  
 NUR 3678 Nursing Healthcare for Vulnerable Populations  
 NSP 3880 Foundations of Healthcare QI & Patient Safety  
 NSP 4148 Simulation for Nursing Practice  
 NSP 4485 An Interdisciplinary Perspective on HIV  
 NSP 4545 Substance Abuse Across the Lifespan  
 NSP 4855 Skills for Nursing Staff Development Educator  
 NSP 4881 Healthcare Human Resources Systems & Strategies  
 NUR 3826 Ethical/Legal Aspects of Nursing & Health Care  
 NUR 4069 Health Assessment for Registered Nurses  
 NUR 4128 Pathophysiology/Pharmacology  
 NUR 4850 Fundamentals of Healthcare Finance for RNs  
 NUR 4935 Cancer Symptom Management

## GPA Requirements

Minimum 2.50 cumulative GPA on all undergraduate coursework.

## Grading Requirement

A letter grade of "C" or better is required in all Nursing (NUR) courses.

## Residency Requirement

Due to restrictive state regulations, USF is not permitted to provide online courses or instruction to students in some states. More information is available at: <http://www.usf.edu/innovative-education/programs/online-programs/state-authorization.aspx>.

## Other Requirements

- Admission to the University of South Florida
- Application to the College of Nursing prior to the published deadline for the intended term of entry

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
<u>NUR 3078</u> Information Technology Skills for Nurses	1	<u>NUR 4828C</u> Foundations of Nursing Healthcare Leadership & Mgm	3
<u>NUR 3805</u> Education Transitions for Registered Nurses	2	NUR/NSP Cluster Nursing Elective (Clinical, Education or Leadership/Management)	3
<u>NUR 4895</u> Educational Role of the Nurse in Healthcare	3	Semester Hours:	6
Semester Hours:	6		
Summer		Credit Hours	
<u>NUR 4169C</u> Evidence-Based Practice for Bacc Prepared Nurse			3
NUR/NSP Cluster Nursing Elective (Clinical, Education or Leadership/Management)			3
		Semester Hours:	6
Semester 3	Credit Hours	Semester 4	Credit Hours
NUR/NSP Cluster Nursing Elective (Clinical, Education or Leadership/Management)	3	NUR/NSP Cluster Nursing Elective (Clinical, Education or Leadership/Management)	3
NUR/NSP Cluster Nursing Elective (Clinical, Education or Leadership/Management)	3	<u>NUR 4634C</u> Population Health	3
Semester Hours:	6	Semester Hours:	6

# COLLEGE OF NURSING

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

## 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 for Undergraduate Research](#) will assist students in understanding the various course options.

## • B.S. - NURSING: SECOND BACHELOR'S DEGREE SEQUENCE (SBN) (CIP = 51.3801) TOTAL DEGREE HOURS: 120

<http://health.usf.edu/nursing/academics/second-degree/admissions.html>

The **Second Bachelor's Degree** (SBN) sequence is for students who have a baccalaureate degree in another field and a minimum undergraduate GPA of 3.00. Students with an awarded bachelor's degree and who have completed all the nursing pre-requisite courses may be considered for admission into the Second Bachelor's Degree sequence; upon completion, students will earn a second bachelor's degree.

### 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.

The College of Nursing is a limited access program. Any student who applies to the undergraduate program at the College of Nursing is initially coded as "pre-nursing" prior to official acceptance to the College of Nursing.

### STATE MANDATED COMMON COURSE PREREQUISITES

The University's Foundations of Knowledge and Learning Core Curriculum (General Education) requirements and College of Nursing's prerequisite/support courses may be completed through the A.A. degree from a Florida College System institution. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The A.A. degree satisfies admission requirements only if courses are carefully selected and include the required major prerequisite/support courses.

The College of Nursing requires certain courses within the Foundations of Knowledge and Learning Core Curriculum (General Education) requirement for the natural, social and behavioral sciences, and mathematics. Students must complete the prerequisite courses listed below prior to being admitted to the Second Bachelor's Degree sequence except those students in the C.A.R.E. program. All prerequisite courses must be completed with a grade of "C" or higher.

All courses not approved by the Florida State Course Numbering System (includes all Florida public colleges, universities, and College System institutions) used to satisfy these prerequisite requirements will be evaluated individually on the basis of content and will require a catalog course description and a copy of the syllabus for assessment.

BSC X085C Human Anatomy & Physiology I or any Human Anatomy & Physiology I course, 4 semester hours  
BSC X086C Human Anatomy & Physiology II or any Human Anatomy & Physiology II course, 4 semester hours  
CHM, BSC, PHY, PCB, BCH XXXX Any Chemistry, Biology, Physics, or Biochemistry course, 3 semester hours  
DEP X004 Human Growth & Development or any Human Growth & Development course, 3 semester hours  
HUN X201 Human Nutrition or any Human Nutrition course **OR** NUR 1192, 3 semester hours  
MCB X010C Microbiology or Any Microbiology course, 4 semester hours  
PSY, SYG, or SOP XXXX Any Psychology, Sociology, or Social Psychology course, 3 semester hours  
STA X014 Statistics or any Statistics course, 3 semester hours

## REQUIREMENTS FOR THE MAJOR IN NURSING: SECOND BACHELOR'S DEGREE SEQUENCE TOTAL MAJOR HOURS: 68

Major requirements for the B.S. Degree:

### Major Core (68 hours)

NUR 3125 Pathophysiology for Nursing Practice  
NUR 3145 Pharmacology in Nursing Practice



# COLLEGE OF NURSING

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NUR 3026	Fundamentals of Nursing Practice & Foundations for Clinical Judgment
NUR 3026L	Nursing Fundamentals Clinical
NUR 3066	Physical Exam & Assessment
NUR 3826	Ethical Legal Aspects of Nursing & Health Care
NUR 4169C	Evidence-Based Practice for Baccalaureate Prepared Nurse
NUR 3535	Psychiatric/Mental Health Nursing
NUR 3535L	Psych Clinical
NUR 4636	Community/Public Health: Population - Focused Nursing
NUR 4636L	Community/Public Health Nursing Clinical
NUR 3215	Medical Surgical Nursing I
NUR 3215L	Medical Surgical Nursing Clinical I
NUR 4216	Medical Surgical Nursing II
NUR 4216L	Medical Surgical Nursing II Clinical
NUR 4355	Child & Adolescent Health Nursing
NUR 4455	Women's Health Nursing
NUR 4467L	Maternal & Pediatric Nursing Care Clinical
NUR 4948L	Preceptorship
NUR 4827C	Leadership & Management in Prof Nursing Practice

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>NUR 3026</u> Fundamentals of Nursing Practice and Foundations for Clinical Judgment	4	! <u>NUR 4216L</u> Medical Surgical Nursing Clinical II	5
! <u>NUR 3026L</u> Nursing Fundamentals Clinical	4	! <u>NUR 3215L</u> Medical Surgical Nursing Clinical I	4
! <u>NUR 3125</u> Pathophysiology for Nursing Practice	4	! <u>NUR 4216</u> Medical Surgical Nursing II	4
! <u>NUR 3145</u> Pharmacology in Nursing Practice	3	! <u>NUR 3215</u> Medical Surgical Nursing I	3
! <u>NUR 3066</u> Physical Examination and Assessment	2	! <u>NUR 3535</u> Psychiatric/Mental Health Nursing	3
Semester Hours:	17	! <u>NUR 3535L</u> Psychiatric/Mental Health Nursing Clinical	3
		Semester Hours:	22

Summer	Credit Hours
! <u>NUR 3826</u> Ethical Legal Aspects in Nursing and Health Care	2
! <u>NUR 4636L</u> Community/Public Health Nursing Clinical	3
! <u>NUR 4636</u> Community/Public Health: Population-Focused Nursing	3
! <u>NUR 4169C</u> Evidence-Based Practice for Bacc Prepared Nurse	3
Semester Hours:	11

Semester 3	Credit Hours
! <u>NUR 4355</u> Child and Adolescent Health Nursing	3
! <u>NUR 4455</u> Women's Health Nursing	2
! <u>NUR 4467L</u> Maternal and Pediatric Nursing Care Clinical	4
! <u>NUR 4948L</u> Preceptorship	6
! <u>NUR 4827C</u> Leadership and Management in Professional Nursing Practice	3

# COLLEGE OF NURSING

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Semester Hours: 18

Semester Hours: 0

## • **B.S. - NURSING: UPPER DIVISION SEQUENCE (NUR) (CIP = 51.3801)** **TOTAL DEGREE HOURS: 120**

<http://health.usf.edu/nursing/academics/upper-division/admissions.html>

The **Upper Division** (NUR) sequence is for students who have completed all nursing pre-requisite courses and have a minimum GPA of 3.20.

### **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.

The College of Nursing is a limited access program. Any student who applies to the undergraduate program at the College of Nursing is initially coded as "pre-nursing" prior to official acceptance to the College of Nursing.

#### **Other Requirements**

Admissions Requirements:

- Admission to the University of South Florida
- Completed application to the College of Nursing prior to the published deadline for the intended term of entry
- Completion of all nursing pre-requisites course by published application deadline for the intended term of entry
- Completion of the University's foreign language entrance requirement
- Submission of a personal statement describing the reason for choosing nursing as a career, and responses to hypothetical nursing scenarios (See College of Nursing website for details).

#### **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.

The University's Foundations of Knowledge and Learning Core Curriculum (General Education) requirements and College of Nursing's prerequisite/support courses may be completed through the A.A. degree from a Florida College System institution. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The A.A. degree satisfies admission requirements only if courses are carefully selected and include the required major prerequisite/support courses.

The College of Nursing requires certain courses within the Foundations of Knowledge and Learning Core Curriculum (General Education) requirement for the natural, social and behavioral sciences, and mathematics. Students must complete the prerequisite courses listed below prior to being admitted to the Upper Division sequence except those students in the C.A.R.E. program. All prerequisite courses must be completed with a grade of "C" or higher.

All courses not approved by the Florida State Course Numbering System (includes all Florida public colleges, universities, and College System institutions) used to satisfy these prerequisite requirements will be evaluated individually on the basis of content and will require a catalog course description and a copy of the syllabus for assessment.

- BSC X085C Human Anatomy & Physiology I or any Human Anatomy & Physiology I course, 4 semester hours
- BSC X086C Human Anatomy & Physiology II or any Human Anatomy & Physiology II course, 4 semester hours
- CHM, BSC, PHY, PCB, BCH XXXX Any Chemistry, Biology, Physics, or Biochemistry course, 3 semester hours
- DEP X004 Human Growth & Development or any Human Growth & Development course, 3 semester hours
- HUN X201 Human Nutrition or any Human Nutrition course **OR** NUR 1192, 3 semester hours
- MCB X010C Microbiology or Any Microbiology course, 4 semester hours
- PSY, SYG, or SOP XXXX Any Psychology, Sociology, or Social Psychology course, 3 semester hours
- STA X014 Statistics or any Statistics course, 3 semester hours

# COLLEGE OF NURSING

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## REQUIREMENTS FOR THE MAJOR IN NURSING: UPPER DIVISION SEQUENCE

**TOTAL MAJOR HOURS: 68**

**Major requirements for the B.S. Degree:**

**Major Core (68 hours)**

- NUR 3125 Pathophysiology for Nursing Practice
- NUR 3145 Pharmacology in Nursing Practice
- NUR 3026 Fundamentals of Nursing Practice & Foundations for Clinical Judgment
- NUR 3026L Nursing Fundamentals Clinical
- NUR 3066 Physical Examination & Assessment
- NUR 3826 Ethical/Legal Aspects of Nursing and Health Care
- NUR 3535 Psychiatric/Mental Health Nursing
- NUR 3535L Psychiatric/Mental Health Nursing Clinical
- NUR 3215 Medical Surgical Nursing I
- NUR 3215L Medical Surgical Nursing Clinical I
- NUR 4216 Medical Surgical Nursing II
- NUR 4216L Medical Surgical Nursing Clinical II
- NUR 4169C Evidence-Based Practice for Baccalaureate Prepared Nurse
- NUR 4827C Leadership & Management in Professional Nursing Practice
- NUR 4636 Community/Public Health: Population-Focused Nursing
- NUR 4636L Community/Public Health Nursing Clinical
- NUR 4355 Child & Adolescent Health Nursing
- NUR 4455 Women's Health Nursing
- NUR 4467L Maternal & Pediatric Clinical Nursing Care Clinical
- NUR 4948L Preceptorship

**GPA Requirements**

Minimum 3.20 cumulative GPA on all undergraduate work. Required prerequisite course grades may be weighted.

**Foundations of Knowledge and Learning (FKL) Requirement**

The Foundations of Knowledge and Learning (FKL) requirements must be completed prior to admission into the Upper Division sequence and must be completed with a 'C' or better.

**Eight Semester Plan**

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>ENC 1101</u> Composition I	3	! <u>BSC 2086</u> Anatomy and Physiology II for Nursing and other Healthcare Professionals	3
! <u>BSC 2085</u> Anatomy and Physiology I for Health Professionals	3	! <u>ENC 1102</u> Composition II	3
! <u>BSC 2085L</u> Anatomy and Physiology Lab I for Nursing and other Healthcare Professionals	1	! <u>STA 2023</u> or <u>STA 2122</u>	3
! MAC 1105 or MGF 1106* (or other GR math)	3	! <u>BSC 2086L</u> Anatomy and Physiology Lab II for Nursing and other Healthcare Professionals	1
! PSY, SYG, or SOP XXXX Any Psychology, Sociology, or Social Psychology course. PSY 2012 or SYG 2000 is strong recommended to meet General Education Core Social Sciences.	3	<u>DEP 2004</u> The Life Cycle	3
		Semester Hours:	13
Semester Hours:	13		

**Summer**

Summer Opportunities

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<b>Semester 3</b>	<b>Credit Hours</b>	<b>Semester 4</b>	<b>Credit Hours</b>
! <u>HUN 2201</u> Nutrition	3	<u>CAFA</u> FKL/Gen Ed Fine Arts	3
! Any three credit class in Chemistry, Biology, Biochemistry, or Physics (3) - (CHMXXXX, BCHXXXX, BSCXXXX, PHYXXXX, or PCBXXXX)	3	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
! <u>MCB 2000</u> Microbiology for Nursing and other Healthcare Professionals	3	<u>CAHU</u> FKL/Gen Ed Humanities	3
! <u>MCB 2000L</u> Microbiology Lab for Nursing and other Healthcare Professionals	1	<u>SGEH</u> General Education Core Humanities	3
<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3	Semester Hours:	12
Semester Hours:	13		

## Summer

### Summer Opportunities

<b>Semester 5</b>	<b>Credit Hours</b>	<b>Semester 6</b>	<b>Credit Hours</b>
! <u>NUR 3026</u> Fundamentals of Nursing Practice and Foundations for Clinical Judgment	4	! <u>NUR 3215L</u> Medical Surgical Nursing Clinical I	4
! <u>NUR 3026L</u> Nursing Fundamentals Clinical	4	! <u>NUR 3215</u> Medical Surgical Nursing I	3
! <u>NUR 3066</u> Physical Examination and Assessment	2	! <u>NUR 3535</u> Psychiatric/Mental Health Nursing	3
! <u>NUR 3125</u> Pathophysiology for Nursing Practice	4	! <u>NUR 3535L</u> Psychiatric/Mental Health Nursing Clinical	3
! <u>NUR 3145</u> Pharmacology in Nursing Practice	3	Semester Hours:	13
Semester Hours:	17		

## Summer

	<b>Credit Hours</b>
! <u>NUR 4636L</u> Community/Public Health Nursing Clinical	3
! <u>NUR 4636</u> Community/Public Health: Population-Focused Nursing	3
Semester Hours:	6

<b>Semester 7</b>	<b>Credit Hours</b>	<b>Semester 8</b>	<b>Credit Hours</b>
! <u>NUR 4216</u> Medical Surgical Nursing II	4	! <u>NUR 4455</u> Women's Health Nursing	2
! <u>NUR 4216L</u> Medical Surgical Nursing Clinical II	5	! <u>NUR 3826</u> Ethical Legal Aspects in Nursing and Health Care	2
! <u>NUR 4169C</u> Evidence-Based Practice for Bacc Prepared Nurse	3	! <u>NUR 4355</u> Child and Adolescent Health Nursing	3
Semester Hours:	12	! <u>NUR 4467L</u> Maternal and Pediatric Nursing Care Clinical	4
		<u>NUR 4935</u> Telehealth (Optional)	1
		Semester Hours:	12

## Summer

	<b>Credit Hours</b>
Apply for Graduation	
! <u>NUR 4948L</u> Preceptorship	6

# COLLEGE OF NURSING

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! <u>NUR 4827C</u> Leadership and Management in Professional Nursing Practice	3
Semester Hours:	9

### 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 for Undergraduate Research](#) will assist students in understanding the various course options.

### NURSING FACULTY

*Associate Dean, Academic Affairs & Interprofessional Initiatives:* R. D'Aoust; *Associate Dean, Student Affairs & Community Engagement:* C. Visovsky; *Associate Dean, Research & Innovation:* C. Munro; *Senior Assistant Dean, Undergraduate Program:* E. Jordan; *Assistant Dean, Graduate Programs:* B. Graves; *Professors:* C. Munro, T. Beckie, C. Burns, P. Burns, J. Clochesy, M. Groer, N. Hall, K. Kip, C. Lengacher, S. McMillan, B. Redding, M. Rowe; *Associate Professors:* J. Beckstead, A. Berarducci, R. D'Aoust, V. Johnson-Mallard, E. Jordan, C. Visovsky, C. Zambroski; *Assistant Professors:* R. Chandler, K. Hiscox, P. Johnson, D. Maguire, L. Malbrough, E. Rauch, M. Shelton, C. Tofthagen, P. Athilingam, A. Elliott, D. Friedrich, K. Katz, S. Kennel, M. Michael, S. Morris, C. Rodriguez, H. Wang, B. Graves, E. Kostas-Polston, H. Lee, C. Hall, W. Thomson, D. Passmore; *Instructors:* M. Belote, L. Blasen, B. Chabalowski, S. Czerwinski, D. Gottel, S. Gower, P. Hall, D. Harding, L. Little, L. Lockett, V. Mackenna, P. O'Donnell, C. O'Neil, J. Perl, A. Poff, A. Rossiter, J. Thayer, T. Vivien, C. Wilson; B. Tucker, A. Tall, J. Llerena, J. Graney, M. Culp, B. C. Brunk, S. McGhee; *Courtesy Instructor:* G. Schinka; *Visiting Assistant Professors:* T. Rashdan, L. Thomas; *Visiting Instructors:* D. Dinisio, M. Kapatkin, J. Trudell, B. Tucker, R. Lutz, S. Smith, T. Malone, M. Canale.

# COLLEGE OF PUBLIC HEALTH

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In today's society, public health issues loom large and are at the forefront of the world's concerns. Population pressures, environmental problems, maternal and child healthcare, disaster management, new emerging diseases, behavioral challenges, healthcare management and cost containment demand solutions from the public health professional. To meet these challenges, the mission of the College of Public Health is to promote public health through research, education and services. The USF College of Public Health is one of 49 public health colleges in the nation and is fully accredited by the Council on Education for Public Health. The College has five departments: Community and Family Health, Epidemiology and Biostatistics, Environmental and Occupational Health, Health Policy and Management, and Global Health.

The purpose of the undergraduate curriculum offered in the College is to promote student-centered learning so the students may articulate the role of public health in disease prevention and health promotion locally, statewide, nationally, and globally. Moreover, students will be able to analyze public health issues related to a particular concentration area, become knowledgeable about dynamic career paths in public health and develop an understanding of public health that serves as a foundation for the pursuit of graduate public health degrees.

## Following are the undergraduate academic programs offered by the College of Public Health: Bachelor of Science (B.S.)

Public Health (PUB)

### Accelerated Degree Program

Public Health

### Minors

Community Engaged Homeland Security & Emergency Management (HSE)  
Environmental Health (EVH)  
Global Communicable Disease (GCD)  
Health Education (HEAL)

Infection Control (IFC)  
Maternal and Child Health (PMC)  
Nutrition (NUT)  
Public Health (GPH)

### Certificates

Community Engaged Homeland Security & Emergency Management  
Global Communicable Disease

Infection Control  
Public Health

### Undergraduate Admission

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.

### Undergraduate Advising Information

Undergraduate students seeking careers in public health are invited to refer to the College website: <http://publichealth.usf.edu/undergrad> or contact the College advisors: [UG-PublicHealthAdvising@health.usf.edu](mailto:UG-PublicHealthAdvising@health.usf.edu), (813) 974-4633

### Graduation Requirements:

- Complete at least 120 accepted semester hours with a minimum USF cumulative GPA and overall GPA of 2.0. (Important! All grades including "D"s and "F"s are used to calculate GPAs for students in the College of Public Health.)
- Complete the Foreign Language Entrance Requirement.
- Students must satisfy BOG Regulation 6.017 (6A Gordon Rule) concerning computation and communication courses. Transfer students who enter the University of South Florida with 60 or more semester hours from a regionally accredited institution are considered to have met the Gordon Rule requirement.
- Complete the General Education Core and Foundations of Knowledge and Learning General Education requirements of 36 hours.
- Complete the FKL Exit requirement of six 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 48 hours of upper-level courses (numbered 3000 or above).

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- Thirty (30) of the last 60 semester hours must be completed at USF to fulfill the residency requirement.

## Accreditation

The College of Public Health is fully accredited by the Council on Education in Public Health (CEPH). CEPH (800 I 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.

## Other Information

The following courses: Introduction to Public Health and Survey of Human Disease (or their equivalent) are prerequisites for several concentrations prior to graduate study in public health. Undergraduate college courses are offered through traditional classroom methods and online.

## • B.S. - PUBLIC HEALTH (PUB) (CIP = 51.2201)

**TOTAL DEGREE HOURS: 120**

<http://health.usf.edu/publichealth/index.htm>

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.

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.

## STATE MANDATED COMMON COURSE PREREQUISITES

There are no state mandated common course prerequisites for this major.

## REQUIREMENTS FOR THE MAJOR IN PUBLIC HEALTH

**TOTAL MAJOR HOURS: 45**

**Major requirements for the B.S. Degree:**

### Major Core (33 hours)

PHC 4101 Introduction to Public Health  
HSC 4551 Survey of Human Disease  
PHC 4030 Introduction to Epidemiology  
PHC 4069 Biostatistics in Society  
PHC 3302 Introduction to Environmental & Occupational Health  
HSC 4211 Health, Behavior and Society  
HSC 4537 Medical Terminology  
HSC 4630 Understanding U.S. Health Care

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HSC 4624 Foundations of Global Health  
PHC 4942 Public Health Seminar (Two 3-credit hour courses)  
PHC 4942 Public Health Seminar (Two 3-credit hour courses)

## Major Electives (12 hours)

Public Health Electives (12 credit hours: Choose 4 courses)

Lower Level Public Health Electives (Choose up to 2 courses)

HSC 2017 Careers in Public Health  
HSC 2100 Contemporary Health Science  
HSC 2130 Sex, Health and Decision Making  
HSC 2933 Selected Topics in Public Health  
HUN 2201 Nutrition

Upper Level Public Health Electives

HSC 3541 Human Structure and Function  
PHC 4931 Health Care Ethics  
PHC 4542 Stress, Health and College Life  
HSC 4172 Women's Health: A Public Health Perspective  
HSC 4579 Foundation of Maternal & Child Health  
HSC 4580 Foundations of Food Safety  
HUN 3272 Sports Nutrition  
HUN 3296 Nutrition and Disease  
HUN 3126 Food and Culture  
HSC 4504 Foundations of Public Health Immunology  
PHC 4031 Emerging Infectious Diseases  
PHC 4140 Introduction to Geographic Information Systems (GIS)  
PHC 4592 Public Health Genetics  
PHC 4109 Public Health Biology  
PHC 4032 Foundations of Infection Control  
PHC 4406 Pop Culture, Vices and Epidemiology  
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 4501 Health Education Theory and Behavior  
PHC 4141 Intervention Program Planning and Management  
PHC 4582 Health Education Methods, Communication and Advocacy  
HSC 4631 Critical Issues in Public Health  
HSC 4933 Special Topics in Public Health

## Additional Undergraduate Requirements:

USF's Exit Requirements: (6 credit hours)

HSC 4631 Critical Issues in Public Health (Capstone)  
PHC 4720 Foundations of Public Health Writing (Writing)

## 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 Gordon Rule 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.



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## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

<b>Semester 1</b>	<b>Credit Hours</b>	<b>Semester 2</b>	<b>Credit Hours</b>
! <u>ENC 1101</u> Composition I	3	! <u>ENC 1102</u> Composition II	3
<u>SGEM</u> General Education Core Mathematics	3	<u>SGEH</u> General Education Core Humanities	3
<u>SGEN</u> General Education Core Natural Sciences	3	<u>CAMA</u> FKL/Gen Ed Mathematics (Take a CAMA or CAQR course, depending on what course was taken for the Mathematics core.)	3
Lower-Level Public Health Elective	3	<u>CANL</u> or <u>CANP</u> (Take a CANP or CANL course, depending on what course was taken for the Natural Science core.)	3
<u>SLS 2901</u> Academic Foundations Seminar	3	<u>SGES</u> General Education Core Social Sciences	3
Semester Hours:	15	Semester Hours:	15

<b>Summer</b>	<b>Credit Hours</b>
General Elective	3
Semester Hours:	3

<b>Semester 3</b>	<b>Credit Hours</b>	<b>Semester 4</b>	<b>Credit Hours</b>
<u>CAFA</u> FKL/Gen Ed Fine Arts	3	! <u>PHC 4101</u> Introduction to Public Health	3
<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3	<u>HSC 4624</u> Foundations of Global Health	3
<u>CAHU</u> FKL/Gen Ed Humanities	3	<u>HSC 4537</u> Medical Terminology	3
Lower Level Elective (HSC 2017 Recommended)	3	Major Upper-Level Elective	3
<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3	<u>HSC 4630</u> Understanding U.S. Health Care	3
Semester Hours:	15	Semester Hours:	15

<b>Summer</b>	<b>Credit Hours</b>
Major Upper-Level Elective	3
Public Health Elective (HSC 2100 or HSC 2130 recommended)	3
Semester Hours:	6

<b>Semester 5</b>	<b>Credit Hours</b>	<b>Semester 6</b>	<b>Credit Hours</b>
! <u>HSC 4551</u> Survey of Human Diseases	3	! <u>PHC 4069</u> Biostatistics in Society	3
<u>PHC 3302</u> Introduction to Environmental & Occupational Health	3	<u>PHC 4720</u> Foundation to Professional Writing in Public Health	3
<u>HSC 4211</u> Health, Behavior and Society	3	Major Upper-Level Elective	3
Major Upper-Level Elective	3	Public Health Elective/Minor	3
Public Health Elective/Minor	3	Semester Hours:	12
Semester Hours:	15		

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## Summer

### Summer Opportunities

Semester 7	Credit Hours	Semester 8	Credit Hours
! <u>PHC 4030</u> Introduction to Epidemiology	3	! <u>HSC 4631</u> Critical Issues in Public Health	3
<u>PHC 4942</u> Public Health Field Seminar	3	<u>PHC 4942</u> Public Health Field Seminar	3
Public Health Elective/Minor	3	Public Health Elective/Minor	3
Public Health Elective/Minor	3	Public Health Elective/Minor	3
Semester Hours:	12	Apply for Graduation	
		Semester Hours:	12

### 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.

### 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:** <mailto: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

*Director:* K. Perrin; *Instructors:* A. Oberne, D. Orriola, L. Rusnak, R. Salazar, J. Van Elswyk.

### ACCELERATED B/M PROGRAM

Undergraduate students who are seeking a career in public health can select to major in a broad range of Bachelor degree programs including engineering, business, social sciences, biological sciences, nursing, social work, pre-medicine, other allied health specialties or interdisciplinary degrees in order to be prepared for graduate work in the College. Pre-medical students seeking admission to medical school may want to consider completing a Master's degree in public health prior to application or admission to medical schools or as an alternative to clinical degrees. The College offers several programs that allow students to complete their undergraduate and Master's degrees in an accelerated format including the Undergraduate Accelerated Entry Program for Master's Degree in Public Health Education, Fast Track for Honors BMS, ISS and INS Students, and (4 + 1) Environmental and Occupational Health.

### Undergraduate (3+2) Master's Degree in Public Health Education

The Department of Community and Family Health in the College of Public Health offers an accelerated entry program that enables qualified undergraduate students to enter the Master of Public Health (MPH) degree program with a concentration in Public Health Education. Applicants must have attained a grade point average of at least a 3.0 on a four-point scale, or received a minimum Verbal GRE score of 500 and a minimum Quantitative GRE score of 550. Applicants must have completed 90 undergraduate semester hours in a program related to the field of public health such as social sciences, natural sciences, behavioral sciences, pre-medicine, pre-dental, nursing, or education. Interested students are encouraged to contact the advisor upon completing 60 undergraduate semester hours. Contact: Annette Strzelecki (813) 974-9135; email: [amanson@health.usf.edu](mailto:amanson@health.usf.edu) or Kenneth Griffin (813) 974-9372 email: [kgriffi3@health.usf.edu](mailto:kgriffi3@health.usf.edu).

### Fast Track for Honors BMS, ISS, and INS Students

This program provides opportunities for Honor students to enroll in a Master's in Public Health program at the beginning of their senior year. Eligible seniors complete up to 20 graduate credits in public health that count toward the bachelor's degree as well as a Master of Public (MPH) or a Master of Science in Public Health (MSPH). The MPH is

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considered a professional degree and is appropriate for student wishing to be prepared to work in a public health career. The MSPH is considered a research oriented degree.

## Admission and Application Process for Enrollment

Students are encouraged to apply early and applications will be accepted starting in the fall of the student's junior year. Applicants must complete the Accelerated Graduate Program Application form and submit the completed form to Graduate Admissions. The form is available at: [http://www.grad.usf.edu/inc/linked-files/Accelerated\\_Program\\_Application.pdf](http://www.grad.usf.edu/inc/linked-files/Accelerated_Program_Application.pdf) Admission is for fall semester and applications must be received by July 1 for guaranteed consideration. Applications received after July 1 will be processed for fall admission although there is no guarantee that processing will be completed in time. Spring and summer admissions will be considered on an individual basis. Applicants are also required to complete the SOPHAS application (see <http://health.usf.edu/publichealth/degreeeqs.html>) for application procedures. While SOPHAS is required, the USF Graduate School application does not need to be completed if the Accelerated Program Application is used.

## Admission Requirements

- Minimum Verbal score of 150 (450 on GRE tests taken prior to Fall 2011) and minimum quantitative score of 146 (550 on GRE tests taken prior to Fall 2011) on the Graduate Record Exam (GRE) or a mean MCAT of 8. (Helpful Hint: Take the General GRE exam, not a specialized one.)
- Good standing in the Honors program.
- Senior status.
- Two letters of recommendation from undergraduate faculty.
- One letter from the Honors advisor noting GPA of 3.2 or better.
- Desire for a public health career as documented in a one page goal statement.
- Approval by appropriate department admission committee.
- Approval by the College and Graduate School

## REQUIREMENTS FOR THE MINOR IN COMMUNITY ENGAGED HOMELAND SECURITY & EMERGENCY MANAGEMENT (HSE) TOTAL MINOR HOURS: 15

<https://documents.health.usf.edu/pages/viewpage.action?pageId=6096577>

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.

### Minor Core (15 hours)

- PHC 4188 Public Health Emergencies in Large Populations
  - PHC 4234 Public and Private Continuity Planning for Emergencies
  - PHC 4241 Psychology of Fear and Mental Health Issues Related to Disasters
  - PHC 4375 Community Participation in Homeland Security
  - PHC 4376 Disaster by Design: Exercise Development for Homeland Security Professionals
- 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 all of the required courses for the minor.

### Grading Requirement

A minimum grade of C- for all required courses.

### 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: [UG-PublicHealthAdvising@health.usf.edu](mailto:UG-PublicHealthAdvising@health.usf.edu), Phone: (813) 974-4633.

# COLLEGE OF PUBLIC HEALTH

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

## REQUIREMENTS FOR THE MINOR IN ENVIRONMENTAL HEALTH (EVH)

### TOTAL MINOR HOURS: 15

<https://documents.health.usf.edu/display/COPH/Minor++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.

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 3541 Human Structure and Function  
PHC 3320 Environmental Health Science  
PHC 3721 Research Methods in Environmental and Occupational Health  
HSC 4213 Environmental and Occupational Risk Analysis  
HSC 4430 Occupational Health and Safety

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 for all courses required for the minor.

#### Course Grade Requirement

A minimum grade of C- for all required courses.

#### 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: [UG-PublicHealthAdvising@health.usf.edu](mailto:UG-PublicHealthAdvising@health.usf.edu), Phone: (813) 974-4633.

## REQUIREMENTS FOR THE 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.

#### 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.

**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: [UG-PublicHealthAdvising@health.usf.edu](mailto:UG-PublicHealthAdvising@health.usf.edu), Phone: (813) 974-4633.

# COLLEGE OF PUBLIC HEALTH

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

## REQUIREMENTS FOR THE 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.

### Minor Core (12 hours)

- PHC 4501 Health Education Theory and Behavior
- PHC 4141 Intervention Program Planning and Management
- PHC 4582 Health Education Methods, Communication and Advocacy
- PHC 4942 Public Health Field Seminar: Foundations of Evaluation and Research

### Minor Electives (3 hours)

Choose one of the following courses:

- HSC 3541 Human Structure and Function
- HSC 4579 Foundations of Maternal and Child Health\*
- HSC 4631 Critical Issues in Public Health\*
- HUN 3296 Nutrition and Disease\*
- HUN 3272 Sports Nutrition\*
- PHC 3721 Research Methods in Environmental and Occupational Health\*
- PHC 4188 Public Health Emergencies in Large Populations
- PHC 4140 Introduction to Public Health Geographic Information Systems
- PHC 4542 Stress, Health, and College Life

\*course is offered online

Please consult with your advisor and [Dr. Wright](#) in the College of Public Health for additional elective courses.

### 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 Pursuing the BS in Public Health

For those students who are pursuing the BS in Public Health, the examples of electives for the Health Education Minor shown on the previous page could be considered for the remainder of hours to sit for the CHES Exam (10 semester hours). However if you use any of these courses to fulfill the required elective component of the BS in Public Health you cannot also use these courses to fulfill the requirements of the Minor. Please consult with Dr. Wright in the College of Public Health ([lwrigh10@health.usf.edu](mailto:lwrigh10@health.usf.edu)) for more information.

### 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](mailto:lwrigh10@health.usf.edu)) for more information.

# COLLEGE OF PUBLIC HEALTH

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

Additional Information about the CHES from the website: [http://www.ncheec.org/ches\\_exam/eligible/](http://www.ncheec.org/ches_exam/eligible/).

## 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](mailto:UG-PublicHealthAdvising@health.usf.edu), Phone: (813) 974-4633.

**Declaration of Minor:** <http://health.usf.edu/publichealth/undergrad/continuing-students.htm>

## REQUIREMENTS FOR THE MINOR IN INFECTION CONTROL (IFC) TOTAL MINOR HOURS: 15

<https://documents.health.usf.edu/display/COPH/Minor+-+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.

# COLLEGE OF PUBLIC HEALTH

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

## Minor Core (15 hours)

PHC 4032 Foundations of Infection Control  
HSC 4504 Foundations of Public Health Immunology  
PHC 4031 Emerging Infectious Diseases  
HSC 4430 Occupational Health and Safety  
HSC 4573 Foundations of Food Safety

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.

**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: [UG-PublicHealthAdvising@health.usf.edu](mailto:UG-PublicHealthAdvising@health.usf.edu), Phone: (813) 974-4633.

## REQUIREMENTS FOR THE 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.

### 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 chose 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.

**Declaration of Minor:** <http://health.usf.edu/publichealth/undergrad/continuing-students.htm>

# COLLEGE OF PUBLIC HEALTH

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## 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: [UG-PublicHealthAdvising@health.usf.edu](mailto:UG-PublicHealthAdvising@health.usf.edu), Phone: (813) 974-4633.

## REQUIREMENTS FOR THE MINOR IN NUTRITION (NUT)

### TOTAL MINOR HOURS: 15

<https://documents.health.usf.edu/display/COPH/Minor+-+Nutrition>

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.

#### Minor Core (3 hours)

HUN 2201 Nutrition

#### Minor Electives (12 hours)

Students must choose four of the following courses:

HUN 3272 Sports Nutrition

HUN 3296 Nutrition and Disease

HUN 3126 Food and Culture

HSC 4573 Foundations of Food Safety

HUN 3403 Nutrition and the Life Cycle

DIE 3310 Community Nutrition

No courses may be applied toward both a major and a minor in Public Health.

#### 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.

**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: [UG-PublicHealthAdvising@health.usf.edu](mailto:UG-PublicHealthAdvising@health.usf.edu), Phone: (813) 974-4633.

## REQUIREMENTS FOR THE MINOR IN PUBLIC HEALTH (GPH)

### TOTAL MINOR HOURS: 18

<https://documents.health.usf.edu/display/COPH/Minor+-+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.

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 (9 hours)

PHC 4101 Introduction to Public Health

HSC 4551 Survey of Human Disease

PHC 4030 Introduction to Epidemiology

#### Minor Electives (9 hours)

HSC 2100 Contemporary Health Science

HSC 2130 Sex, Health and Decision Making

HSC 2017 Careers in Public Health

HSC 2933 Special Topics

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



# COLLEGE OF PUBLIC HEALTH

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HSC 4579 Foundations of Maternal and Child Health  
HSC 4580 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 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.

There may be no overlap between coursework in a major and coursework in a minor.

**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: [UG-PublicHealthAdvising@health.usf.edu](mailto:UG-PublicHealthAdvising@health.usf.edu), Phone: (813) 974-4633.

## REQUIREMENTS FOR THE 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.

### 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.

# COLLEGE OF PUBLIC HEALTH

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

## 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: [UG-PublicHealthAdvising@health.usf.edu](mailto:UG-PublicHealthAdvising@health.usf.edu), Phone: (813) 974-4633.

## REQUIREMENTS FOR THE 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.

### 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

**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: [UG-PublicHealthAdvising@health.usf.edu](mailto:UG-PublicHealthAdvising@health.usf.edu), Phone: (813) 974-4633.

## REQUIREMENTS FOR THE 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.

### 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

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: [UG-PublicHealthAdvising@health.usf.edu](mailto:UG-PublicHealthAdvising@health.usf.edu), Phone: (813) 974-4633.

# COLLEGE OF PUBLIC HEALTH

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

## REQUIREMENTS FOR THE 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.

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 130 Sex, Health and Decision Making
- HSC 2017 Careers in Public Health
- HSC 2933 Special Topics
- 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 4580 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 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 minor. For additional information about the minor, please contact: [UG-PublicHealthAdvising@health.usf.edu](mailto:UG-PublicHealthAdvising@health.usf.edu), Phone: (813) 974-4633.

# COLLEGE OF THE ARTS

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

The College of The Arts exists in the context of a dynamic, contemporary, urban, research university setting, characterized by its cultural diversity. The College provides opportunities for students to develop their interests and talents to the fullest whether they wish to pursue a creative or performing career, a research career, a teaching career, or life-long artistic enrichment.

## Mission

The mission of the USF College of The Arts is to conduct scholarly and creative research and to challenge and inspire students to make significant contributions in the arts.

The College provides a learning environment that is engaged locally and nationally in contemporary issues and initiatives.

## Vision

The College aspires to achieve national and international recognition as a distinguished center for study, creation, and research (in architecture & community environmental design, publishing of prints and sculpture multiples, visual arts, dance, music, theatre, and contemporary exhibitions). The College will provide an innovative and exciting environment in which to prepare the next generation of architects, artists, designers, educators, scholars, and audiences for these disciplines. The College will support and promote 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.

More information about each program is available on the College website at <http://www.arts.usf.edu/>

## Following are the undergraduate academic programs offered by the College of The Arts:

### Bachelor of Arts (B.A.)

Art History (AHM)

Dance (DAN)

Dance Studies (DAS)

Music Studies (MSU)

Studio Art (SBA)

Theatre (TAR)

Design (TAD)

Performance (TAP)

Theatre Arts (TAA)

### Bachelor of Fine Arts (B.F.A.)

Dance (DAN)

Ballet (DAB)

Modern Dance (DAM)

Studio Art (SBF)

### Bachelor of Music (B.M.)

Music Performance (MUS)

Acoustic & Electronic Composition (MUC)

Jazz Studies (MJP)

Performance (MPF)

### Bachelor of Science (B.S.)

Music Education (MUE)

### Honors Program

Theatre

### Minors

Art (ART)

Dance (DAN)

Theatre (TAR)

### Certificates

Visualization and Design

### Minor Programs

Majors in the College of The Arts may pursue a minor in any certified minors program at USF except within the same arts discipline as the major. The requirements for these programs are located under the school academic program descriptions and also require that a minimum of eight hours be taken at USF.

### Undergraduate Admission to the College of The Arts

Admission to the College of The Arts is contingent on acceptance into the university through the USF Office of Admissions. Additionally, students who wish to major or minor in art history, dance, or theatre should contact the respective School. Admission is open for Theatre majors. Auditions are required for admission to the Dance program

# COLLEGE OF THE ARTS

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

and the School of Music and must occur on specific dates as posted by those programs. The School of Art & Art History requires a satisfactory portfolio review of all candidates seeking admission to the B.A. in Studio Art or the B.F.A. in Studio Art. Specific dates will be posted by the program. Students who have not presented an acceptable portfolio on the posted date prior to orientation and registration will not be admitted into the School. The B.A. in Art History does not require a portfolio review. Please note, however, that Art History majors may take only those studio courses mandated by the state for their degree program. Art History students, who wish to take other studio courses, or to double major, must successfully fulfill the requirement for portfolio review at the regularly scheduled time. Transfer students who wish to major in Studio Art must complete the equivalent core curriculum and pass a regularly scheduled portfolio review prior to admission to the School of Art & Art History. All prospective students in the College of The Arts must complete the necessary forms in the Office of Student Services and Advising in FAH 120 in order to be on file as majors or minors.

Although the Theatre program is an open admission program, transfer students and current USF students who request admission to this program must be placed according to their abilities. Theatre students wishing to concentrate in performance or design must audition or have a portfolio review for acceptance into the upper-division concentration courses. Dance and music students must complete successful auditions prior to orientation and registration for their home unit's core courses. Art students must successfully complete a scheduled portfolio review prior to orientation and registration.

Students with previously earned college credit, who request admission to the College of The Arts are required to provide copies of their transcripts to their advisors for the purpose of deciding which credits can apply to their degree program at USF. Copies of catalog pages with course descriptions from previous institutions are needed for each course being transferred for degree requirements. A minimum grade of C- (C for Theatre and Dance) is usually necessary for courses in the concentration.

## Undergraduate Advising Information

**Advising Office::** College of The Arts (FAH), Room 120, (813) 974-3660.

**Office Hours:** Office hours are 8 a.m. - 5 p.m., Monday - Friday.

## General Requirements for Bachelor Degree Programs within the College of The Arts

1. All Bachelor degree programs require 120 credit hours.
2. Thirty-six credit hours of General Education Core courses and Foundations of Knowledge and Learning (FKL) Core Curriculum.
3. Students admitted to the College of The Arts with transfer credits, or former students returning with credits dating ten or more years prior to admission (or readmission), will have those credits reviewed by the College and department/school and may be required to take specified competency tests in their major area.
4. In the College of The Arts at the discretion of the disciplines, must take six fine arts credit hours in a field other than the major discipline (Dance, 3 credits; BA Music Studies, 6 credits; BM Music, 3 credits). Transfer of degree fine arts credits must be evaluated by an advisor. Fine Arts courses for this requirement may be taken as S/U grading at the discretion of the instructor.
5. A maximum number of ROTC credits totaling no more than the maximum allowed in the Free Elective Area for each major may be counted toward all degrees.
6. A maximum of four credit hours of elective Physical Education credits taken at USF may be counted as general elective credit toward all degrees.
7. Students must satisfactorily meet the writing and computation course requirement of Board of Governor's Regulation 6.017 (6A Gordon Rule).
8. Students applying for a B.A. degree must demonstrate competency in a foreign language as described under Foreign Language Competency Policy of this catalog.
9. For degree programs, see requirements listed under each School.
10. 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.
11. 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.

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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.

## S/U Grade Contracts

The College of The Arts requires that any S/U grading agreement entered into between student and instructor be formalized by a contract in quadruplicate signed by the student and the instructor and distributed according to instructions.

## "I" Grade Contracts

Incompletes must be contracted for by mutual agreement between student and instructor, with the contract describing specifically the amount and nature of the work to be completed for the removal of the incomplete grade. This contract additionally clearly specifies the date that the work will be due (within legal limits) for grading. Both the student and the instructor must sign this contract and the four copies must be distributed according to instructions. **A student must not register for a course again to remove an "I" grade.**

## S/U Grading in the College

1. Non-majors enrolled in courses in the College of The Arts may undertake such courses on an S/U basis with instructor approval. See Contracts and Permission Procedures for information concerning S/U Grade Contracts.
2. Credits earned by a non-major student with an "S" grade will not count toward the student's minimum major course graduation requirement should that student ultimately decide to become a major student in one of the four arts disciplines in the College. Instead, such credits earned with an "S" grade will be assigned to the student's Free Elective category (with the exception of music, which will become non-countable).
3. Although College of The Arts majors may take coursework in their major as Free Electives, they are not entitled to the S/U grading option for these courses taken in their major subject area, even when specifically used or intended to be used as Free Electives.
4. In the College of The Arts, the only S/U graded courses available to a major student in his/her major subject area are those curriculum allowable courses designated S/U (that is, S/U only).
5. A maximum of 9 credit hours of S/U credits in non-major courses may apply towards a degree in the College of The Arts.

Please refer to Academic Policies section for more information concerning the university's S/U Grading policy.

## Interdisciplinary Study

There is no formal interdisciplinary arts degree offered in the College of The Arts. However, it is possible for a student to pursue such a program of study in the College by utilizing free electives allowed in the major program. A student may also choose a double undergraduate major in two units or arts disciplines within the College of The Arts as a means of interdisciplinary study. See the major advisor in the programs of particular interest.

## • B.A. - ART HISTORY (AHM) (CIP = 50.0703) TOTAL DEGREE HOURS: 120

<http://art.arts.usf.edu/content/templates/?a=1102&z=163>

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

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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

The School of Art & Art History encourages students who wish to transfer from Florida Community Colleges to complete their A.A. prior to transfer. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students may complete the **prerequisite** courses listed below prior to entering the university. Unless stated otherwise, a grade of C is the minimum acceptable grade. The following prerequisite courses will be accepted as meeting lower level requirements:

- ART X201 or ART X202 or ART X203 or ART X205
- ART X300 or ART X301 or ART X310
- ART X050 Art History Survey I
- ART X051 Art History Survey II
- XXX XXXX 9-12 semester hours of a single foreign language

## REQUIREMENTS FOR THE MAJOR IN ART HISTORY

**TOTAL MAJOR HOURS: 47**

**Major requirements for the B.A. Degree:**

**Major Core (47 hours)**

**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.

**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.

**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.

**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)

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

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Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>ENC 1101</u> Composition I	3	! <u>ENC 1102</u> Composition II	3
<u>ART 2201C</u> Concepts and Practices I	3	<u>ART 2301C</u> Beginning Drawing	3
<u>SGEM</u> General Education Core Mathematics	3	<u>SGEN</u> General Education Core Natural Sciences	3
<u>SGES</u> General Education Core Social Sciences	3	<u>CAMA</u> or <u>CAQR</u> (Take a <u>CAMA</u> or <u>CAQR</u> course, depending on what course was taken for the Mathematics core.)	3
<u>ARH 2050</u> History of Visual Arts I	3	<u>ARH 2051</u> History of Visual Arts II	3
Semester Hours:	15	Semester Hours:	15

Summer	Credit Hours
Foreign Language I	4
Semester Hours:	4

Semester 3	Credit Hours	Semester 4	Credit Hours
<u>CANL</u> or <u>CANP</u> (Take a <u>CANP</u> or <u>CANL</u> course, depending on what course was taken for the Natural Science core.)	3	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context (with HHCP)	3
4000 Level Period Survey Art History	3	4000 Level Period Survey Art History	3
Elective Outside the Major	3	Elective Outside the Major	3
<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3	Semester Hours:	12
<u>SGEH</u> General Education Core Humanities	3		
Semester Hours:	15		

Summer	Credit Hours
Foreign Language II	4
Semester Hours:	4

Semester 5	Credit Hours	Semester 6	Credit Hours
4000 Level Period Survey Art History	3	<u>WRIN</u> FKL/Gen Ed Writing Intensive Capstone	3
4000 Level Period Survey Art History	3	4000 Level Period Survey Art History	3
Elective Outside the Major	3	Elective Outside the Major	3
Elective Outside the Major	3	Elective Outside the Major	3
General Elective	2	General Elective	3
Semester Hours:	14	Semester Hours:	15

## Summer

### Summer Opportunities

Semester 7	Credit Hours	Semester 8	Credit Hours
<u>ARH 4800</u> Critical Studies In Art History	3	<u>ARH 4800</u> Critical Studies In Art History	3
<u>CPST</u> FKL/Gen Ed Capstone Experience	3	<u>ARH 4800</u> Critical Studies In Art History	3



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Elective Outside the Major	3	General Elective	3
General Elective	3	General Elective	3
<u>ART 4940</u> Extended Studies	2	Apply for Graduation	
Semester Hours:	14	Semester Hours:	12

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.

## Foundations of Knowledge and Learning (FKL) Requirement

FKL "Humanities" will be satisfied by ARH 2050, History of Visual Arts I and ARH 2051, History of Visual Arts II, and FKL "Fine Arts" will be satisfied by ART 2201C Concepts and Practices I.

## 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 for Undergraduate Research will assist students in understanding the various course options.

## • 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

The School of Art & Art History encourages students who wish to transfer from Florida Community Colleges to complete their A.A. prior to transfer. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Please be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students may complete the prerequisite courses listed below prior to entering the university. Unless stated otherwise, a grade of "C" is the minimum acceptable grade. The following prerequisite courses will be accepted as meeting lower level requirements:

**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
ART X050	Art History Survey I
ART X051	Art History Survey II
ART XXXX	6 semester hours of ART courses

**NOTE: All courses except the foreign language coursework require a C or higher.**

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## REQUIREMENTS FOR THE MAJOR IN STUDIO ART

TOTAL MAJOR HOURS: 56

Major requirements for the B.A. Degree:

Major Core (56 hours)

Art Preparation (18 credit hours):

- ARH 2050 History of Visual Arts I\*
- ARH 2051 History of Visual Arts II\*
- ART 2201C Concepts and Practices I\*\*
- ART 2203C Concepts and Practices II\*\*
- ART 2301C Beginning Drawing
- ART 3310C Intermediate Drawing

\*History of Visual Arts I and II must be used to satisfy the FKL "Humanities" requirement if the student is to remain within 120 hours for the degree.

\*\*Concepts and Practices I or II must be used to satisfy the FKL "Fine Arts" requirement if the student is to remain within 120 hours for the degree.

All studio courses, other than those 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. Students intending to pursue the Studio B.F.A should refer to our web site at <http://www.art.usf.edu> for the scheduled review date.

Beginning Studio Workshops (12 credit hours):

- ART 2400C Beginning Printmaking
- ART 2500C Beginning Painting
- ART 2701C Beginning Sculpture
- ART 2750C Beginning Ceramics
- ART 3612C Digital Video and Electronic Arts
- PGY 2401C Beginning Photography

These courses may not be repeated. These courses are prerequisites to the intermediate-level Studio Courses. Students must take at least one two-dimensional and one three-dimensional beginning studio course.

Intermediate Studio Workshops (12 credit hours):

- 3000-Level Studio

B.A. students may substitute an advanced studio for their final intermediate studio by permission of the instructor of the advanced studio.

Expanded Context Courses (3 credit hours):

A minimum of 3 hours of studio work must be from selected expanded context courses. Expanded context courses include ART 4806 Theme Studio, cross-media classes and/or ART 4930 special topics studio classes.

Art History (9 credit hours):

- ARH 4170 Greek & Roman
- ARH 4200 Medieval
- ARH 4301 Renaissance
- ARH 4350 Baroque and Rococo
- ARH 4430 19th Century
- ARH 4450 20th Century\*\*
- ARH 4475C Contemporary Issues in Art
- ARH 4520 African
- ARH 4530 Asian Art
- ARH 4800 Critical Studies
- ARH 4930 Art History: Selected Topics\*\*\*

\*Three (3) credit hours may be taken in either ARH 4800 Critical Studies in Art History seminar or ART 4900 Directed Readings.

\*\*ARH 4450 is required of all majors.

\*\*\*ARH 4930 Art History: Selected Topics may be taken for degree credit only by approval of the academic advisor for the School of Art and Art History.

Additional Requirements (2 credit hours):

Extended Studies\*

\*Paris Program, Public Art, Museum Internships, Community Art, Artists Internships/Apprenticeships, and London Middlesex Program.

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## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>ENC 1101</u> Composition I	3	! <u>ENC 1102</u> Composition II	3
<u>ART 2201C</u> Concepts and Practices I	3	<u>ART 2203C</u> Concepts and Practices II	3
<u>SGEM</u> General Education Core Mathematics	3	<u>SGEN</u> General Education Core Natural Sciences	3
<u>SGES</u> General Education Core Social Sciences	3	<u>CAMA</u> or <u>CAQR</u> (Take a CAMA or CAQR course, depending on what course was taken for the Mathematics core.)	3
<u>ARH 2050</u> History of Visual Arts I	3	<u>ARH 2051</u> History of Visual Arts II	3
Semester Hours:	15	Semester Hours:	15

### Summer

#### Summer Opportunities

Semester 3	Credit Hours	Semester 4	Credit Hours
! <u>ART 2301C</u> Beginning Drawing	3	! <u>ART 3310C</u> Intermediate Drawing	3
<u>CANL</u> or <u>CANP</u> (Take a CANP or CANL course, depending on what course was taken for the Natural Science core.)	3	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
ART Beginning Studio Elective	3	<u>ARH 4450</u> Twentieth Century Art	3
<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3	ART Beginning Studio Elective	3
Semester Hours:	12	<u>SGEH</u> General Education Core Humanities	3
		Semester Hours:	15

### Summer

	Credit Hours
Elective Outside the Major	3
Elective Outside the Major	3
Semester Hours:	6

Semester 5	Credit Hours	Semester 6	Credit Hours
Foreign Language I	4	Foreign Language II	4
4000 Level Period Survey Art History	3	4000 Level Period Survey Art History	3
ART Beginning Studio Elective	3	ART Intermediate Studio Elective	3
ART Beginning Studio Elective	3	General Elective	2
Semester Hours:	13	Semester Hours:	12

### Summer

	Credit Hours
Elective Outside the Major	3
Elective Outside the Major	3
Semester Hours:	6

Semester 7	Credit Hours	Semester 8	Credit Hours
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<u>WRIN</u> FKL/Gen Ed Writing Intensive Capstone	3	<u>CPST</u> FKL/Gen Ed Capstone Experience	3
ART Intermediate Studio Elective	3	Expanded Context Course	3
ART Intermediate Studio Elective	3	ART Intermediate Studio Elective	3
<u>ART 4940</u> Extended Studies	2	General Elective	3
Elective Outside the Major	3	Apply for Graduation	
Semester Hours:	14	Semester Hours:	12

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.

### Foundations of Knowledge and Learning (FKL) Requirement

\*Please note that 9 hours of FKL requirements are satisfied by the Art School curriculum and that the actual total hours in FKL General Education courses remains 36 as state-mandated.

### 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 for Undergraduate Research will assist students in understanding the various course options.

## • 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

The School of Art & Art History encourages students who wish to transfer from Florida Community Colleges to complete their A.A. prior to transfer. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Please be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students may complete the prerequisite courses listed below prior to entering the university. Unless stated otherwise, a grade of "C" is the minimum acceptable grade. The following prerequisite courses will be accepted as meeting lower level requirements:

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
- ART X050 Art History Survey I
- ART X051 Art History Survey II
- ART XXXX 6 semester hours of ART courses

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## REQUIREMENTS FOR THE MAJOR IN STUDIO ART

TOTAL MAJOR HOURS: 82

Major requirements for the B.F.A. Degree:

Major Core (82 hours)

**Art Foundations (18 credit hours):**

- ARH 2050 History of Visual Arts I\*
- ARH 2051 History of Visual Arts II\*
- ART 2201C Concepts and Practices I\*\*
- ART 2203C Concepts and Practices II\*\*
- ART 2301C Beginning Drawing
- ART 3310C Intermediate Drawing

\*History of Visual Arts I and II must be used to satisfy the FKL "Humanities" requirement if the student is to remain within 120 hours for the degree.

\*\*Concepts and Practices I or II must be used to satisfy the FKL "Fine Arts" requirement if the student is to remain within 120 hours for the degree.

**2000 Level Studio (12 credit hours):**

- 2000 Level 2-D Studio
- 2000 Level 3-D Studio
- 2000 Level Specialization
- 2000 Level Elective Studio

**3000 Level Studio (18 credit hours):**

- 3000 Level Specialization
- 3000 Level Non-Specialization
- 3000 Elective Studio

**4000 Level Studio (9 credit hours):**

- 4000 Level Specialization
- 3000 or 4000 Level Elective

**Expanded Context Courses (3 credit hours):**

A minimum of 3 hours of studio work must be from selected expanded context courses. Expanded context courses include ART 4806 Theme Studio, cross-media classes and/or ART 4930 special topics studio classes.

**Art History (9 credit hours):**

- ARH 4450 20th Century
- ARH 4475C Contemporary Issues in Art
- 4000 Level Period Art History

**Additional Requirements (13 credit hours):**

- ART 3939 Real World
- ART 4940 Extended Studies\*
- ART 4970 Senior Thesis
- ART 3838 Technology Essentials for Artists\*\*

\*Paris Program, Public Art, Museum Internships, Community Art, Artists Internships/Apprenticeships, London Middlesex Program, Johannesburg Program.

\*\*Must be taken with the second Advanced Studio in the student's specialization.

All studio courses--other than those designated as core or beginning studios--require the completion of the following core courses: ART 2201C or equivalent, ART 2203C or equivalent, ARH 2050 or ARH 2051, ART 2301C or equivalent, and ART 3310C or equivalent and a satisfactory portfolio review. Refer to our web site at <http://www.art.usf.edu> for the scheduled review date.

### Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>ENC 1101</u> Composition I	3	! <u>ENC 1102</u> Composition II	3
<u>ART 2201C</u> Concepts and Practices I	3	<u>ART 2203C</u> Concepts and Practices II	3
<u>SGEM</u> General Education Core Mathematics	3	<u>SGEN</u> General Education Core Natural Sciences	3

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<u>SGES</u> General Education Core Social Sciences	3	<u>CAMA</u> or <u>CAQR</u> (Take a <u>CAMA</u> or <u>CAQR</u> course, depending on what course was taken for the Mathematics core.)	3
<u>ARH 2050</u> History of Visual Arts I	3	<u>ARH 2051</u> History of Visual Arts II	3
Semester Hours:	15	Semester Hours:	15

## Summer

### Summer Opportunities

Semester 3	Credit Hours	Semester 4	Credit Hours
! <u>ART 2301C</u> Beginning Drawing	3	! <u>ART 3310C</u> Intermediate Drawing	3
<u>CANL</u> or <u>CANP</u> (Take a <u>CANP</u> or <u>CANL</u> course, depending on what course was taken for the Natural Science core.)	3	<u>ARH 4450</u> Twentieth Century Art	3
ART Beginning Studio Elective 2-D	3	ART Beginning Studio Elective	3
ART Beginning Studio Elective 3-D	3	ART Beginning Studio Elective (Specialization)	3
Semester Hours:	12	ART Intermediate Studio Specialization	3
		Semester Hours:	15

## Summer

<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	Credit Hours	3
<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences		3
ART 3838 Technical Essentials for Artists		3
Semester Hours:		9

Semester 5	Credit Hours	Semester 6	Credit Hours
! <u>ART 3939</u> RealWorld	3	! <u>ARH 4475C</u> Contemporary Issues in Art	3
4000 Level Period Survey Art History	3	Expanded Context Course (ART 4806 or ART 4930)	3
ART Intermediate Studio Specialization	3	ART Intermediate Studio Non- Specialization	3
<u>SGEH</u> General Education Core Humanities	3	ART Intermediate Studio Non- Specialization	3
Semester Hours:	12	Semester Hours:	12

## Summer

### Summer Opportunities

Semester 7	Credit Hours	Semester 8	Credit Hours
<u>WRIN</u> FKL/Gen Ed Writing Intensive Capstone	3	! <u>ART 4970C</u> Senior Thesis	4
<u>ART 4940</u> Extended Studies	3	<u>CPST</u> FKL/Gen Ed Capstone Experience	3
ART Advanced Studio Specialization	3	ART Advanced Studio Specialization	3
ART Intermediate Studio Elective	3	ART Intermediate Studio Elective or ART Advanced Studio Elective	3
ART Intermediate Studio Elective	3	General Elective	2
Semester Hours:	15	Apply for Graduation	
		Semester Hours:	15

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## Foundations of Knowledge and Learning (FKL) Requirement

Please note that 9 hours of the FKL requirements are satisfied by the Art School curriculum and that the actual total hours in FKL General Education courses remains 36 as state-mandated.

## 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 for 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 portfolio and transcript evaluation. The School of Art & Art History accepts transfer credit from all Florida programs that are part of the "common course prerequisites".

## REQUIREMENTS FOR THE 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.

#### Minor Core (21-24 hours)

##### Studio Concentration (24 credit hours):

###### 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

###### Art Studio (9 credit hours):

Beginning Studio Workshop  
Intermediate Studio Workshop or Theme Studio

##### Art History Concentration (21 credit hours):

###### 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

###### Art History (12 credit hours):

Art History Survey

## SCHOOL OF ART AND ART HISTORY FACULTY

*Director:* W. Wilson; *Professor:* E. Fraser, L. Marcus; *Associate Professors:* W. Babcox, N. Bender, J. Byrd, E. Condon, G. Green, R. Lawrence, R. Marchi, B. Shanks, H. Szepe, J. Weitz; *Assistant Professors:* C. Cornejo, A. Ekberg, N. Mason, A. Moore, A. Pollack, *Instructors:* M. Fournier; *Assistant in Student Advising:* R. Olinger; *Distinguished Professor-Dean Emeritus:* D.J. Saff; *Dean Emeritus-Professor Emeritus:* H.W. Covington; *Chair Emeritus-Professor Emeritus:* G. Pappas; *Professor Emeriti:* E. Cox, A. Eaker, C. Fager, J. Kronsoble, M. Larsen, C. Lyman, B. Marsh; *Associate Professor Emeritus:* D. Wright, T. Wujcik.

## • B.A. - DANCE (DAN) (CIP = 50.0301)

### 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, History, Psychology, Religious Studies, Theatre,

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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 Theory.

## STATE MANDATED COMMON COURSE PREREQUISITES

The College of The Arts encourages students to complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet Foundations of Knowledge and Learning Requirements thereby transferring maximum hours to the university. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Please be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students are encouraged to complete the following required courses and/or electives (if available) during the program of study at the community college. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade. If students are coming to the university from a Florida College System institution, the following prerequisite courses will be accepted as meeting lower level requirements.

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

### 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 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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## REQUIREMENTS FOR THE B.A. MAJOR IN DANCE (DAN) WITH A CONCENTRATION IN DANCE STUDIES (DAS) (CIP = 50.0301 - TRACK 1 OF 2) TOTAL CONCENTRATION HOURS: 65

### Concentration Core (65 hours)

#### Studio Technique (33 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 (13 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
- DAN 4906 Directed Study: Independent Research Project

#### Dance Studies (19 semester hours)

- DAN 2160 Entry Seminar
- DAN 3584 Technical Theatre in Dance
- DAN 3615 Music for Dance II (Note: The prerequisite for this course is DAN 3614.)
- DAN 3714 Dance Kinesiology
- DAN 4134 Ballet History (FKL WRIN course)
- DAN 4135 20th Century Dance History (FKL Capstone course)
- DAN 4162 Research in Dance
- DAN 4180 Dance Senior Seminar

### Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
<u>ENC 1101</u> Composition I	3	<u>ENC 1102</u> Composition II	3
<u>SGEM</u> General Education Core Mathematics	3	<u>SGEN</u> General Education Core Natural Sciences	3
! <u>DAN 2160</u> Entry Seminar	2	<u>CAMA</u> or <u>CAQR</u> (Take a <u>CAMA</u> or <u>CAQR</u> course, depending on what course was taken for the Mathematics core.)	3
<u>DAA 2204</u> Ballet I	2	! <u>DAN 3615</u> Music For Dance II	2
<u>DAA 3624</u> Dance Improvisation	2	<u>DAA 2204</u> Ballet I	2
<u>DAA 2104</u> Modern Dance I	2	<u>DAA 2104</u> Modern Dance I	2
<u>DAN 3584</u> Technical Theatre in Dance	2	Semester Hours:	15
Semester Hours:	16		
<b>Summer</b>		<b>Credit Hours</b>	
<u>SGES</u> General Education Core Social Sciences			3
		Semester Hours:	3
Semester 3	Credit Hours	Semester 4	Credit Hours
<u>DAA 3214</u> Ballet II	3	<u>DAA 3214</u> Ballet II	3

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<u>DAN 3714</u> Dance Kinesiology	3	<u>CAFA</u> FKL/Gen Ed Fine Arts	3
<u>SGEH</u> General Education Core Humanities	3	<u>DAA 3108</u> Modern Dance II	3
<u>CANL</u> or <u>CANP</u> (Take a CANP or CANL course, depending on what course was taken for the Natural Science core.)	3	<u>CAHU</u> FKL/Gen Ed Humanities	3
		<u>DAA 3615</u> Choreography II	2
		Semester Hours:	14
<u>DAA 3108</u> Modern Dance II	3		
! <u>DAA 3614</u> Choreography I	2		
Semester Hours:	17		

### Summer

Elective Outside the Major	3	<b>Credit Hours</b>
<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3	
Semester Hours:	6	

Semester 5	Credit Hours	Semester 6	Credit Hours
<u>DAA 3109</u> or <u>DAA 3209</u>	3	<u>DAA 3209</u> or <u>DAA 3109</u>	3
<u>DAN 4134</u> Ballet History	3	! <u>DAA 4617</u> Choreography IV	2
<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3	<u>DAN 4162</u> Research in Dance	2
! <u>DAA 4616</u> Choreography III	2	<u>DAA 3686</u> Junior Performance Project	1
<u>DAA 3395</u> World Dance Topics	1	<u>DAA 4687</u> Performance	1
Semester Hours:	12	Elective Outside the Major	3
		Semester Hours:	12

### Summer

#### Summer Opportunities

Semester 7	Credit Hours	Semester 8	Credit Hours
Foreign Language I	4	Foreign Language II	4
<u>DAA 3109</u> or <u>DAA 3209</u>	3	! <u>DAA 3109</u> or <u>DAA 3209</u>	3
Elective Outside the Major	3	<u>DAN 4135</u> 20th Century Dance History	3
! <u>DAN 4180</u> Dance Senior Seminar	2	<u>DAN 4906</u> Directed Study	1
General Elective	1	General Elective	1
Semester Hours:	13	Apply for Graduation	
		Semester Hours:	12

### 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 for Undergraduate Research will assist students in understanding the various course options.

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## • B.F.A. - DANCE (DAN) (CIP = 50.0301) TOTAL DEGREE HOURS: 120

<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 Theory. The focus of this degree is the development of dancers who will enter the professional world of dance/arts as performers and choreographers. Beyond the expectations for continuing opportunities for performance, students selecting the B.F.A. will develop and present solo and group senior choreographic projects.

### 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

The College of The Arts encourages students to complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet Foundations of Knowledge and Learning Requirements thereby transferring maximum hours to the university. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students are encouraged to complete the following required courses and/or electives (if available) during the program of study at the community college. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade. If students are coming to the university from a Florida College System institution, the following prerequisite courses will be accepted as meeting lower level requirements.

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-X400 series up to 4 credit hours
- DAA X681 (2 credit hours) or any lower level Repertory course in the X400-X400 series up to 4 credit hours
- DAA X200-X209 (8 credit hours) up to 8 credit hours of any lower-level Ballet Technique courses within the X200-X209 taxonomy
- DAA X100-X109 (8 credit hours) up to 8 credit hours of any lower-level Modern Technique courses within the X100-X109 taxonomy

### REQUIREMENTS FOR THE B.F.A. MAJOR IN DANCE (DAN) WITH A CONCENTRATION IN BALLET (DAB) (CIP = 50.0301 - TRACK 2 OF 2)

TOTAL MAJOR AND CONCENTRATION HOURS: 83

Concentration Core (80 hours)

Studio Technique (41 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 3209 Ballet III
- DAA 4211 Ballet IV
- DAA 3294 Ballet Variations
- DAA 3395 World Dance Topics

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## Creative Studio (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 (23 semester hours):

DAN 2160	Entry Seminar
DAN 3584	Technical Theatre in Dance
DAN 3615	Music for Dance II (Note: The prerequisite for this course is DAN 3614.)
DAN 3714	Dance Kinesiology
DAN 4434	Laban Movement Analysis
DAN 4134	Ballet History (FKL WRIN course)
DAN 4135	20th Century Dance History (FKL Capstone course)
DAN 4180	Dance Senior Seminar
DAE 4340	Dance Pedagogy: Secondary Curriculum

## Concentration Electives (3 hours)

Dance Technique Elective
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## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
<u>ENC 1101</u> Composition I	3	<u>ENC 1102</u> Composition II	3
<u>SGEM</u> General Education Core Mathematics	3	<u>SGEN</u> General Education Core Natural Sciences	3
! <u>DAN 2160</u> Entry Seminar	2	<u>CAMA</u> or <u>CAQR</u> (Take a CAMA or CAQR course, depending on what course was taken for the Mathematics core.)	3
<u>DAA 2204</u> Ballet I	2	! <u>DAN 3615</u> Music For Dance II	2
<u>DAA 3624</u> Dance Improvisation	2	<u>DAA 2204</u> Ballet I	2
<u>DAA 2104</u> Modern Dance I	2	<u>DAA 2104</u> Modern Dance I	2
<u>DAN 3584</u> Technical Theatre in Dance	2		
Semester Hours:	16	Semester Hours:	15

Summer	Credit Hours
<u>SGEH</u> General Education Core Humanities	3
<u>SGES</u> General Education Core Social Sciences	3
Semester Hours:	6

Semester 3	Credit Hours	Semester 4	Credit Hours
! <u>DAN 3714</u> Dance Kinesiology	3	! <u>DAN 4434</u> Laban Movement Analysis	3
<u>DAA 3214</u> Ballet II	3	<u>DAA 3214</u> Ballet II	3
<u>CAFA</u> FKL/Gen Ed Fine Arts	3	<u>CANL</u> or <u>CANP</u> (Take a CANP or CANL course, depending on what course was taken for the Natural Science core.)	3
<u>DAA 3108</u> Modern Dance II	3	<u>DAA 3108</u> Modern Dance II	3
! <u>DAA 3614</u> Choreography I	2	! <u>DAA 3615</u> Choreography II	2
Semester Hours:	14	Semester Hours:	14

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<b>Summer</b>		<b>Credit Hours</b>
<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences		3
Semester Hours:		3

  

<b>Semester 5</b>	<b>Credit Hours</b>	<b>Semester 6</b>	<b>Credit Hours</b>
<u>DAA 3209</u> Ballet III	3	<u>DAN 4135</u> 20th Century Dance History	3
<u>DAN 4134</u> Ballet History	3	<u>DAA 3209</u> Ballet III	3
<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3	<u>DAA 3109</u> Modern Dance III	3
<u>DAA 3109</u> Modern Dance III	3	! <u>DAA 4617</u> Choreography IV	2
! <u>DAA 4616</u> Choreography III	2	<u>DAA 3686</u> Junior Performance Project	1
Semester Hours:	14	Semester Hours:	12

## Summer

### Summer Opportunities

<b>Semester 7</b>	<b>Credit Hours</b>	<b>Semester 8</b>	<b>Credit Hours</b>
<u>DAA 4687</u> Performance	2	! <u>DAA 4211</u> Ballet IV	3
<u>DAA 4211</u> Ballet IV	3	<u>DAE 4340</u> Dance Pedagogy: Secondary Curriculum	3
<u>CAHU</u> FKL/Gen Ed Humanities	3	<u>DAA 4687</u> Performance	2
Elective Dance Technique	3	<u>DAA 4687</u> Performance	1
! <u>DAN 4180</u> Dance Senior Seminar	2	! <u>DAA 4694</u> Senior Choreography Project	1
<u>DAA 3294</u> Ballet Variations	1	<u>DAA 3294</u> Ballet Variations	1
Semester Hours:	14	<u>DAA 3395</u> World Dance Topics	1
		Apply for Graduation	
		Semester Hours:	12

## REQUIREMENTS FOR THE B.F.A. MAJOR IN DANCE (DAN) WITH A CONCENTRATION IN MODERN DANCE (DAM) (CIP = 50.0301 - TRACK 2 OF 2)

**TOTAL MAJOR AND CONCENTRATION HOURS: 82**

### Concentration Core (79 hours)

#### Studio Technique (39 semester hours):

DAA 2204 Ballet I  
DAA 2104 Modern Dance I  
DAA 3214 Ballet II  
DAA 3108 Modern Dance II  
DAA 3209 Ballet III  
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

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## Dance Studies (23 semester hours):

DAN 2160	Entry Seminar
DAN 3584	Technical Theatre in Dance
DAN 3615	Music for Dance II (Note: The prerequisite for this course is DAN 3614).
DAN 3714	Dance Kinesiology
DAN 4404	Laban Movement Analysis
DAN 4134	Ballet History (FKL WRIN course)
DAN 4135	20th Century Dance History (FKL Capstone course)
DAN 4184	Dance Senior Seminar
DAE 4340	Dance Pedagogy: Secondary, or DAE 4310 Dance Pedagogy: Elementary

## Concentration Electives (3 hours)

Dance Technique Elective

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
<u>ENC 1101</u> Composition I	3	<u>ENC 1102</u> Composition II	3
<u>SGEM</u> General Education Core Mathematics	3	<u>SGEN</u> General Education Core Natural Sciences	3
! <u>DAN 2160</u> Entry Seminar	2	<u>CAMA</u> or <u>CAQR</u> (Take a CAMA or CAQR course, depending on what course was taken for the Mathematics core.)	3
<u>DAA 2204</u> Ballet I	2	! <u>DAN 3615</u> Music For Dance II	2
<u>DAA 3624</u> Dance Improvisation	2	<u>DAA 2204</u> Ballet I	2
<u>DAA 2104</u> Modern Dance I	2	<u>DAA 2104</u> Modern Dance I	2
<u>DAN 3584</u> Technical Theatre in Dance	2	Semester Hours:	15
Semester Hours:	16		

Summer	Credit Hours
<u>SGES</u> General Education Core Social Sciences	3
Semester Hours:	3

Semester 3	Credit Hours	Semester 4	Credit Hours
<u>DAA 3214</u> Ballet II	3	<u>DAN 4434</u> Laban Movement Analysis	3
<u>DAN 3714</u> Dance Kinesiology	3	<u>DAA 3214</u> Ballet II	3
<u>CANL</u> or <u>CANP</u> (Take a CANP or CANL course, depending on what course was taken for the Natural Science core.)	3	<u>CAFA</u> FKL/Gen Ed Fine Arts	3
<u>DAA 3108</u> Modern Dance II	3	! <u>DAA 3108</u> Modern Dance II	3
! <u>DAA 3614</u> Choreography I	2	! <u>DAA 3615</u> Choreography II	2
Semester Hours:	14	Semester Hours:	14

Summer	Credit Hours
<u>SGEH</u> General Education Core Humanities	3
<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3
Semester Hours:	6

Semester 5	Credit Hours	Semester 6	Credit Hours
<u>DAA 3209</u> Ballet III	3	<u>DAN 4135</u> 20th Century Dance History	3
<u>DAN 4134</u> Ballet History	3	<u>DAA 3209</u> Ballet III	3

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<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3		3
<u>DAA 3109</u> Modern Dance III	3	! <u>DAA 4617</u> Choreography IV	2
! <u>DAA 4616</u> Choreography III	2	<u>DAA 3686</u> Junior Performance Project	1
<u>DAA 4687</u> Performance	1	Semester Hours:	12
Semester Hours:	15		

## Summer

### Summer Opportunities

Semester 7	Credit Hours	Semester 8	Credit Hours
<u>DAA 4110</u> Modern Dance IV	3	! <u>DAA 4110</u> Modern Dance IV	3
<u>CAHU</u> FKL/Gen Ed Humanities	3	<u>DAE 4340</u> Dance Pedagogy: Secondary Curriculum	3
General Elective	2	General Elective	3
! <u>DAN 4180</u> Dance Senior Seminar	2	<u>DAA 4687</u> Performance	2
<u>DAA 4687</u> Performance	2	! <u>DAA 4694</u> Senior Choreography Project	1
Semester Hours:	12	<u>DAA 3395</u> World Dance Topics	1
		Apply for Graduation	
		Semester Hours:	13

## 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 for Undergraduate Research will assist students in understanding the various course options.

## REQUIREMENTS FOR THE 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.

#### 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 Special Topics in Dance

Studio Dance courses may be repeated once toward the Dance Minor.

##### Creative Studio Studies (4 credit hours):

Select 4 credits hours from the following list:

- DAA 3624 Dance Improvisation
- DAA 3614 Choreography I\*
- DAA 3615 Choreography II\*

\*Music for Dance is a prerequisite for Choreography and instructor approval is required.

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## **Dance Theory** (6 credit hours):

Select 6 credits hours from the following list:

- DAN 2100 Introduction to Dance
- DAN 4134 Ballet History
- DAN 4135 20th Century Dance

## **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.

## **DANCE FACULTY**

*Director:* M. Powers; *Professors:* P. Finelli, B.W. Lee, J. Moy; *Associate Professors:* M. Foley, F. Green, G.B. Stephens, J. Travers; *Assistant Professors:* A. Carroll, D. Arreola, Y. Chen, B. Kohlmyer, A. Scott, Y. Zhu; *Instructors:* C.D. Frankel, L. Bennett, M. Bertch, J. Parks; *Academic Advisor/Instructor:* M.L. Morris; *Professors Emeriti:* P. Massie, N. Cole., D. Calandra, S. Robinson, C. Steele, G. Warren.

## **• B.S. - MUSIC EDUCATION (MUE) (CIP = 13.1312)** **TOTAL DEGREE HOURS: 134**

<http://music.arts.usf.edu/content/go/music-education/>

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.

## **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, and 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 X005 Introduction to the Teaching Profession (3)
- EDG X085 Introduction to Diversity for Educators (3)
- EME X040 Introduction to Technology for Educators (3)
- MUT x111 Music Theory or MUT x121, x122, x126, or x127
- MUT x112 Music Theory or MUT x121, x122, x126, or x127
- MUT x116 Music Theory or MUT x121, x122, x126, or x127
- MUT 2117 Music Theory or MUT 1121, 1122, 2126, or 2127
- MUT x241 Aural Theory or MUT x221, x222, x226, and x227 or MUT x261, x262, x266, and x267 or MUT x271, x272, x276, and x277
- MUT x242 Aural Theory or MUT x221, x222, x226, and x227 or MUT x261, x262, x266, and x267 or MUT x271, x272, x276, and x277
- MUT x246 Advanced Aural Theory or MUT x221, x222, x226, and x227 or MUT x261, x262, x266, and



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x267 or MUT x271, x272, x276, and x277  
MUT 2247 Advanced Aural Theory or MUT 1221, 1222, 2226, 2227, 1261, 1261, 2266, 2267, 1271, 1272, 2276, or 2277  
MUN XXXX 4 semester hours  
MVx X1X1 Secondary Applied Music Courses, 2-4 semester hours  
MVx X2X2 Secondary Applied Music Courses, 2-4 semester hours  
Secondary Piano Proficiency by Examination or MVK x111, x112, x121 and x122 or MVK x111r, x112r, x121r or MVK x211 and x221

## REQUIREMENTS FOR THE MAJOR IN MUSIC EDUCATION

**TOTAL MAJOR HOURS: 94**

**Major requirements for the B.S. Degree:**

**Major Core (87 hours)**

**Music Courses (44 credit hours)**

**Music Theory** (9 credit hours)

MUT 1111, MUT 1112, MUT 2116  
(MUT 1112 is the prerequisite for MUG 3104 and MUH 3300)

**Aural Theory** (3 credit hours)

MUT 1241, MUT 1242, MUT 2246

**Keyboard Skills** (0-8 credit hours)

MVK 1111, MVK 1121, MVK 2111, MVK 2121 - Proficiency required by testing or course(s)

**Conducting** (4 credit hours)

MUG 3104 Basic  
MUG 3108 Advanced Conducting

**Music History** (11 credit hours)

MUH 2XXX American Roots or Non-Western Music (see FKL Fine Arts)  
MUH 3300 Medieval and Renaissance (PR for MUH 3301 and MUH 3302)  
MUH 3301 Baroque and Classic  
MUH 3302 Romantic through Contemporary

**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 2101 Recital Attendance (attendance at minimum 60 programs)

**Professional Education Courses (15 credit hours)**

EDF X005 Introduction to the Teaching Profession  
EDG 2085 Introduction to Diversity for Educators  
EME 2040 Introduction to Technology for Educators  
TSL 4324 ESOL Competencies and Strategies  
RED 4310 Reading and Learning to Read

**Music Education (28 credit hours)**

MUE 2090 Foundations of Music Education  
MUE 3421 Choral Techniques  
MUE 3422 Wind Techniques  
MUE 3423 String Techniques  
MUE 3475 Percussions Techniques or MUN 3443 Percussion Ensemble  
MUE 3414 Creative Performance Chamber Ensemble  
MUE 3401 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 (taken with Internship)  
MUE 4940 Internship [Register for 6 credit hours. 3 hours apply to EXIT Capstone]

Methods courses include:

- curriculum and instruction
- human development and learning,
- classroom management,
- assessment through measurements,
- teaching exceptional students with varied learning styles and achievement levels.

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## Major Electives (7 hours)

7 credit hours of music electives.

### Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1		Credit Hours	Semester 2		Credit Hours
	<u>SGEM</u> General Education Core Mathematics	3		<u>CAMA</u> or <u>CAQR</u> (Take a <u>CAMA</u> or <u>CAQR</u> course, depending on what course was taken for the Mathematics core.)	3
!	<u>MUT 1111</u> Music Theory I	3			
	<u>ENC 1101</u> Composition I	3	!	<u>MUT 1112</u> Music Theory II	3
	<u>MVK 1111</u> Keyboard Skills I	2		<u>ENC 1102</u> Composition II	3
	Studio Principal	2		Music Elective	2
!	<u>MUT 1241</u> Aural Theory I	1		Studio Principal	2
	Major Ensemble	1	!	<u>MUT 1242</u> Aural Theory II	1
	Semester Hours:	15		Major Ensemble	1
				Semester Hours:	15

Summer		Credit Hours
	<u>SGEN</u> General Education Core Natural Sciences	3
	<u>EDF 2005</u> Introduction to the Teaching Profession	3
	Semester Hours:	6

Semester 3		Credit Hours	Semester 4		Credit Hours
!	<u>MUT 2116</u> Music Theory III	3		<u>CAFA</u> FKL/Gen Ed Fine Arts	3
	<u>SGES</u> General Education Core Social Sciences	3		<u>EME 2040</u> Introduction to Technology for Educators	3
	<u>MUE 2090</u> Foundations of Music Education	3	!	<u>MUH 3300</u> Music History/Medieval And Renaissance	2
	<u>MUG 3104</u> Basic Conducting	2		<u>MUG 3108</u> Advanced Conducting	2
	Music Elective	2		Studio Principal	2
	Studio Principal	2		<u>MUE 3421</u> Choral Techniques	1
!	<u>MUT 2246</u> Aural Theory III	1		<u>MUE 3423</u> String Techniques	1
	Major Ensemble	1		Major Ensemble	1
	Semester Hours:	17		Music Elective	1
				Semester Hours:	16

Summer		Credit Hours
	<u>CANL</u> or <u>CANP</u> (Take a <u>CANP</u> or <u>CANL</u> course, depending on what course was taken for the Natural Science core.)	3
	<u>EDF 2085</u> Introduction to Diversity for Educators	3
	Semester Hours:	6

Semester 5		Credit Hours	Semester 6		Credit Hours
!	<u>MUH 3301</u> Music History/Baroque And Classic	3	!	<u>MUH 3302</u> Music History/Romantic And 20th Century	3
	<u>MUE 3424</u> Progressive Music Education Methods I	3		<u>MUE 4331</u> Choral Methods	3

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<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3	<u>MUE 3425</u> Progressive Music Education Methods II	3
Studio Principal	2	Studio Principal & Junior Recital	2
<u>MUE 3414</u> Creative Performance Chamber Ensemble	1	<u>MUE 3414</u> Creative Performance Chamber Ensemble	1
<u>MUE 3475</u> Percussion Techniques	1	<u>MUE 3422</u> Wind Techniques	1
<u>MUE 3422</u> Wind Techniques	1	Major Ensemble	1
Major Ensemble	1	Apply for Graduation	
Semester Hours:	15	Recital Attendance	
		Recommend Marching Band	
		Semester Hours:	14

## Summer

<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
<u>SGEH</u> General Education Core Humanities	3
Semester Hours:	6

Semester 7	Credit Hours	Semester 8	Credit Hours
<u>TSL 4324</u> ESOL Competencies and Strategies	3	<u>MUE 4940</u> Internship: Music Education	9
<u>MUE 4311</u> General Music Methods	3	<u>MUE 4936</u> Senior Seminar In Music	3
<u>RED 4310</u> Reading and Learning to Read	3	<u>MUS 2010</u> Recital Attendance	
<u>CAHU</u> FKL/Gen Ed Humanities	3	Semester Hours:	12
Complete FTCE: PEd Test & SAE			
Semester Hours:	12		

## The Florida Teacher Certification Exam (FTCE)

The FTCE (Florida Teacher Certification Exam), which includes the GKT (General Knowledge Test), the PEd (Professional Education Exam), and the SAE (Subject Area Examination in Music) must be taken before entering the internship and successfully completed for the degree and for Florida teacher certification. A copy of the GKT results must be given by the student to the College of Education Internship Office and the Music Advisor immediately upon receipt.

The exam includes the General Knowledge Test (GKT), the Professional Education Exam (PEd), and the Subject Area Exam (SAE in Music). The GKT is taken separately. However, the PEd and the SAE can be taken together. Observe deadline notes below!

- **If you are interning in the Fall semester**, you must submit all passing scores of the required General Knowledge Test to the Internship Office and to the Music Advisor no later than 5:00 pm on the Friday after the preceding Spring commencement date in order to be guaranteed certification for degree completion.
- **If you are interning in the Spring semester**, you must submit all passing scores of the required General Knowledge Test to the Internship Office and to the Music Advisor no later than 5:00 pm on the Friday after the preceding Summer commencement date in order to be guaranteed certification for degree completion.
- **Warning:** Failure to adhere to the guidelines above will result in your **inability to intern** during the semester for which you have applied.
- **Copies of passing scores** of the Professional Education Exam and the Subject Area Exam must be submitted to the Internship Office and to the Music Advisor. These scores must be submitted no later than 5:00 pm on the Friday following the graduation ceremony during the semester in which you are interning.

**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.

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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 Gordon courses is "C-." No "S" grades.

## Gordon Rule Requirement

Gordon Rule Communication requirements (12 credit hours in ENC 1101, 1102, and two other Gordon writing courses) and Computation requirements (6 credit hours) are satisfied through FKL courses.

## General Education Core and Foundations of Knowledge and Learning (FKL) Requirements

All General Education Core and FKL courses, lower-level education courses, and examinations required by the College of Education must be completed for official admission to the BS degree program in music education.

## Interning Music Education Students

A student, during his/her interning semester, may continue to receive scholarship monies (even though they may be unable to comply with the ensemble requirement) upon approval by the Director of the School of Music. The Director will, as a matter of course, seek the recommendation of the applied instructor and the Coordinator of Music Education.

## 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 for Undergraduate Research](#) will assist students in understanding the various course options.

## • B.M. - MUSIC PERFORMANCE (MUS) (CIP = 50.0903)

**TOTAL DEGREE HOURS: 120**

<http://music.arts.usf.edu/content/go/jazz/>

The Music Degree is a professional degree for students who wish to pursue a career in music. Students interested in a BM degree can choose between concentrations in performance, composition, jazz studies and electronic music. These programs require 120 credit hours of study that include private study on their principle instrument and participation in ensembles. Additionally, students complete the music theory, history and literature sequences, and take additional course work 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

Transfer students should complete the following **prerequisite courses** listed below at the lower level prior to entering the university. If these courses are not taken at a Florida community or state college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C-" is the minimum acceptable grade. If students are coming to the university from a community college, the following prerequisite courses will be accepted as meeting lower level requirements.

Electives: Music credits beyond those required may be used as program electives.

MUT 1111 Music Theory or MUT 1121, 1122, 2126, or 2127

MUT 1112 Music Theory or MUT 1121, 1122, 2126, or 2127

MUT 2116 Music Theory or MUT 1121, 1122, 2126, or 2127

MUT 2117 Music Theory or MUT 1121, 1122, 2126, or 2127

MUT 1241 Aural Theory or MUT 1221, 1222, 2226, 2227, 1261, 1261, 2266, 2267, 1271, 1272, 2276, or 2277

MUT 1242 Aural Theory or MUT 1221, 1222, 2226, 2227, 1261, 1261, 2266, 2267, 1271, 1272, 2276, or 2277

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MUT 2246 Advanced Aural Theory or MUT 1221, 1222, 2226, 2227, 1261, 1261, 2266, 2267, 1271, 1272, 2276, or 2277  
MUT 2247 Advanced Aural Theory or MUT 1221, 1222, 2226, 2227, 1261, 1261, 2266, 2267, 1271, 1272, 2276, or 2277  
MUN XXXX Chamber Music Ensemble, 4 semester hours  
MVX 1X1X Secondary Applied Music Courses, 2-4 semester hours  
MVX 2X2X Secondary Applied Music Courses, 2-4 semester hours  
Secondary Piano Proficiency by Examination or MVK 1111, 1112, and 2122 or MVK 1111r, 1112r, 2121r, and 2121r or MVK 1211 and 2221

## 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.

## REQUIREMENTS FOR THE MAJOR IN MUSIC PERFORMANCE (MUS) WITH A CONCENTRATION IN ACOUSTIC & ELECTRONIC COMPOSITION (MUC)

**TOTAL MAJOR AND CONCENTRATION HOURS: 78**

<http://music.arts.usf.edu/content/go/composition-electronic-music/>

### Concentration Core (76 hours)

#### **ACADEMIC STUDIES** (31 credit hours):

**Music Theory** [*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**

MUH 3300 Medieval and Renaissance

Prerequisite for MUH 3301 and MUH 3320

MUH 3301 Baroque and Classic

MUH 3302 Romantic through Contemporary

Elective MUH 2020, MUH 2051, MUH 4058, MUH 4372 (satisfies EXIT-WRIN), MUH 4801\*

[\*0 credit if course taken to satisfy General Education or EXIT]

#### **Senior Seminar**

MUS 4935 Music Senior Seminar ("S/U" grade only)

#### **APPLIED STUDIES** (14 credit hours):

**Basic Conducting** MUG 3104 [PR: MUT 1112.] (2)

**Applied Major** (Studio) MV? 131X, 232X [2 terms-each level] (8)

**Major Ensemble** MUN 3XXX [concurrent registration with studio is required] (4)

**Recital Attendance** MUS 2010 ["S/U" grade only]

#### **MUSIC COMPOSITION** (31 credit hours):

##### **Acoustic Music**

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Freshman Composition & Instrumentation MUC 1211, MUC 1212  
 Sophomore Composition & Instrumentation MUC 2221, MUC 2222  
 Junior Composition & Instrumentation MUC 3231, MUC 3232  
 Senior Composition MUC 4241, Senior Recital/Project MUC 4950

## Electronic Music

Introduction to Electronic Music MUC 2301  
 (prerequisite for EM courses and FKL General Education Fine Arts course)  
 Analog Synthesis MUC 3401, MUC 3402  
 Digital Synthesis MUC 3441, MUC 3442  
 Real-Time Performance MUC 4403

## Concentration Electives (2 hours)

### MUSIC ELECTIVES (2 credit hours):

**Keyboard Skills** [*piano proficiency at Level 4 required by testing or course(s)*]

MVK 1111, MVK 1121, MVK 2111, MVK 2121 and other music courses

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
<u>ENC 1101</u> Composition I	3	<u>ENC 1102</u> Composition II	3
<u>SGEM</u> General Education Core Mathematics	3	! <u>MUT 1112</u> Music Theory II	3
! <u>MUT 1111</u> Music Theory I	3	<u>CAMA</u> or <u>CAQR</u> (Take a CAMA or CAQR course, depending on what course was taken for the Mathematics core.)	3
! <u>MUC 1211</u> Freshman Composition and Instrumentation 1	2	! <u>MUC 1212</u> Freshman Composition and Instrumentation 2	2
<u>MVK 1111</u> Keyboard Skills I Studio Principal	2	<u>MVK 1121</u> Keyboard Skills II Studio Principal	2
! <u>MUT 1241</u> Aural Theory I Major Ensemble	1	! <u>MUT 1242</u> Aural Theory II Major Ensemble	1
Semester Hours:	15	Semester Hours:	15

## Summer

### Summer Opportunities

Semester 3	Credit Hours	Semester 4	Credit Hours
! <u>MUT 2116</u> Music Theory III	3	! <u>MUC 3402</u> Electronic Music-Analog Synthesis II	3
! <u>MUC 3401</u> Electronic Music-Analog Synthesis I	3	! <u>MUT 2117</u> Music Theory IV	3
! <u>MUC 2301</u> Introduction To Electronic Music	3	<u>MVK 2121</u> Keyboard Skills IV	2
<u>MVK 2111</u> Keyboard Skills III	2	<u>MUH 3300</u> Music History/Medieval And Renaissance	2
! <u>MUC 2221</u> Sophomore Composition and Instrumentation 1 Studio Principal	2	! <u>MUC 2222</u> Sophomore Composition and Instrumentation 2 Studio Principal	2
! <u>MUT 2246</u> Aural Theory III Major Ensemble	1	! <u>MUT 2247</u> Aural Theory IV Major Ensemble	1
Semester Hours:	15	Semester Hours:	16

## Summer

### Summer Opportunities

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Semester 5	Credit Hours		Semester 6	Credit Hours
<u>MUC 3441</u> Electronic Music-Digital Synthesis I	3	!	<u>MUC 3442</u> Electronic Music-Digital Synthesis II	3
<u>SGEN</u> General Education Core Natural Sciences	3		<u>MUH 3302</u> Music History/Romantic And 20th Century	3
<u>SGES</u> General Education Core Social Sciences	3		<u>CANL</u> or <u>CANP</u> (Take a CANP or CANL course, depending on what course was taken for the Natural Science core.)	3
<u>MUH 3301</u> Music History/Baroque And Classic	3		<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3
<u>MUC 3231</u> Junior Composition and Instrumentation 1	2		<u>MUC 3232</u> Junior Composition and Instrumentation 2	2
Semester Hours:	14		Semester Hours:	14

## Summer

### Summer Opportunities

Semester 7	Credit Hours		Semester 8	Credit Hours
! <u>MUC 4403</u> Electronic Music-Real-Time Performance I	3		<u>CPST</u> FKL/Gen Ed Capstone Experience	3
<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3		<u>WRIN</u> FKL/Gen Ed Writing Intensive Capstone	3
<u>SGEH</u> General Education Core Humanities	3		<u>CAHU</u> FKL/Gen Ed Humanities	3
<u>MUG 3104</u> Basic Conducting	2		! <u>MUC 4950</u> Senior Recital/Project/Portfolio Presentation	2
<u>MUC 4241</u> Senior Composition and Instrumentation	2		! <u>MUS 4935</u> Music Senior Seminar	1
<u>MUT 4421</u> Eighteenth Century Practice	3		! <u>MUS 2010</u> Recital Attendance Apply for Graduation	
Semester Hours:	16		<u>MUT 4571</u> Twentieth Century Practice	3
			Semester Hours:	15

### 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

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## 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 Barnes 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.

## REQUIREMENTS FOR THE MAJOR IN MUSIC PERFORMANCE (MUS) WITH A CONCENTRATION IN JAZZ STUDIES (MJP) TOTAL MAJOR AND CONCENTRATION HOURS: 64

<http://music.arts.usf.edu/content/go/jazz/>

### Concentration Core (64 hours)

#### **Music Theory** (26 credit hours):

MUT 1111	Music Theory I
MUT 1112	Music Theory II
MUT 1241	Aural Theory I
MUT 1242	Aural Theory II
MUT 2116	Music Theory III
MUT 2117	Music Theory IV
MUT 2246	Aural Theory III
MUT 2247	Aural Theory IV



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- MUT 2641 Jazz Theory and Improvisation I  
 MUT 2642 Jazz Theory and Improvisation II  
 MUT 3663 Advanced Jazz Improvisation I  
 MUT 3664 Advanced Jazz Improvisation II
- Music History** (11 credit hours):  
 MUH 3300 Music History/Medieval and Renaissance  
 MUH 3301 Music History/Baroque and Classical  
 MUH 3302 Music History/Romantic and 20th Century  
 MUH 4801 History of Jazz
- Conducting** (2 credit hours):  
 MUG 3104 Basic Conducting
- Senior Seminar** (1 credit hours):  
 MUS 4935 Music Senior Seminar
- Recital Attendance** (0 credit hours):  
 MUS 2010 Recital Attendance
- Ensemble:**  
 Performance - All students enrolled in Applied Music for two (2) or three (3) credit hours are required to enroll in a Major Ensemble appropriate for their performing medium. A list of approved major ensembles is provided on the Music advising website.
- Jazz Studies Concentration** (minimum 24 credit hours):  
 Applied music (major) through the 4000 level

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
<u>ENC 1101</u> Composition I	3	<u>ENC 1102</u> Composition II	3
<u>SGEM</u> General Education Core Mathematics	3	! <u>MUT 1112</u> Music Theory II	3
<u>MUT 1111</u> Music Theory I	3	<u>CAMA</u> or <u>CAQR</u> (Take a CAMA or CAQR course, depending on what course was taken for the Mathematics core.)	3
Studio Major Elective	3	Studio Major Elective	3
<u>MUT 1241</u> Aural Theory I	1	! <u>MUT 1242</u> Aural Theory II	1
Major Ensemble	1	Major Ensemble	1
Semester Hours:	14	Semester Hours:	14

## Summer

### Summer Opportunities

Semester 3	Credit Hours	Semester 4	Credit Hours
! <u>MUT 2116</u> Music Theory III	3	! <u>MUT 2117</u> Music Theory IV	3
<u>SGEN</u> General Education Core Natural Sciences	3	<u>CANL</u> or <u>CANP</u> (Take a CANP or CANL course, depending on what course was taken for the Natural Science core.)	3
<u>SGES</u> General Education Core Social Sciences	3	Studio Major Elective	3
Studio Major Elective	3	! <u>MUH 3300</u> Music History/Medieval And Renaissance	2
! <u>MUT 2641</u> Jazz Theory And Improvisation I	2	! <u>MUT 2642</u> Jazz Theory And Improvisation II	2
! <u>MUT 2246</u> Aural Theory III	1	Jazz Keyboard Skills Elective	2
Major Ensemble	1	! <u>MUT 2247</u> Aural Theory IV	1
Semester Hours:	16	Major Ensemble	1

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Semester Hours: 17

## Summer

### Summer Opportunities

Semester 5	Credit Hours	Semester 6	Credit Hours
! <u>MUH 3301</u> Music History/Baroque And Classic	3	<u>CAFA</u> FKL/Gen Ed Fine Arts	3
<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3	<u>SGEH</u> General Education Core Humanities	3
<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3	<u>MUH 3302</u> Music History/Romantic And 20th Century	3
Studio Major Elective	3	Junior Recital	
! <u>MUT 3663</u> Advanced Jazz Improvisation I	2	<u>MUT 3664</u> Advanced Jazz Improvisation II	2
Major Ensemble	1	Major Ensemble	1
		Studio Major Elective	3
Semester Hours:	15	Semester Hours:	15

## Summer

### Summer Opportunities

Semester 7	Credit Hours	Semester 8	Credit Hours
<u>MUH 4801</u> History Of Jazz	3	<u>CPST</u> FKL/Gen Ed Capstone Experience	3
<u>MUT 3353</u> Jazz Composition and Arranging I	3	<u>WRIN</u> FKL/Gen Ed Writing Intensive Capstone	3
<u>CAHU</u> FKL/Gen Ed Humanities	3	<u>MUT 3354</u> Jazz Composition And Arranging II	3
Studio Major Elective	3	Studio Major & Senior Recital	3
<u>MUG 3104</u> Basic Conducting	2	<u>MUS 4935</u> Music Senior Seminar	1
Major Ensemble	1	Major Ensemble	1
Semester Hours:	15	<u>MUS 2010</u> Recital Attendance	
		Apply for Graduation	
		Recital Attendance	
		Semester Hours:	14

## REQUIREMENTS FOR THE MAJOR IN MUSIC PERFORMANCE (MUS) WITH A CONCENTRATION IN PERFORMANCE (MPF)

**TOTAL MAJOR AND CONCENTRATION HOURS: 48-61**

<http://music.arts.usf.edu/content/templates/?z=153&a=1070>

### Concentration Core (45 hours)

#### Music Theory (22 credit hours):

MUT 1111	Music Theory I
MUT 1112	Music Theory II
MUT 1241	Aural Theory I
MUT 1242	Aural Theory II
MUT 2116	Music Theory III
MUT 2117	Music Theory IV
MUT 2246	Aural Theory III
MUT 2247	Aural Theory IV
MUT 4421	Eighteenth Century Practice
MUT 4571	Twentieth Century Practice

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## **Music History** (8 credit hours):

- MUH 3300 Music History/Medieval and Renaissance
- MUH 3301 Music History/Baroque and Classical
- MUH 3302 Music History/Romantic and 20th Century

## **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 4372 Representing the United States in Music
- 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
  - MVK 4641

## **Eight Semester Plan**

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>MUT 1111</u> Music Theory I	3	! <u>MUT 1112</u> Music Theory II	3
<u>ENC 1101</u> Composition I	3	<u>ENC 1102</u> Composition II	3
<u>SGEM</u> General Education Core Mathematics	3	<u>CAMA</u> or <u>CAQR</u> (Take a CAMA or CAQR course, depending on what course was taken for the Mathematics core.)	3
<u>MVK 1111</u> Keyboard Skills I Studio Principal	2	<u>MVK 1121</u> Keyboard Skills II Studio Principal	2
! <u>MUT 1241</u> Aural Theory I Major Ensemble	1	! <u>MUT 1242</u> Aural Theory II Major Ensemble	1
Semester Hours:	15	Semester Hours:	15
<b>Summer</b>		<b>Credit Hours</b>	
Foreign Language for Voice Majors Only, Other Majors: General Elective		3	

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Semester Hours: 3

<b>Semester 3</b>		<b>Credit Hours</b>	<b>Semester 4</b>		<b>Credit Hours</b>
!	<u>MUT 2116</u> Music Theory III	3		<u>CANL</u> or <u>CANP</u> (Take a CANP or CANL course, depending on what course was taken for the Natural Science core.)	3
	<u>SGEN</u> General Education Core Natural Sciences	3		!	<u>MUT 2117</u> Music Theory IV
	<u>SGES</u> General Education Core Social Sciences	3		<u>MUH 3300</u> Music History/Medieval And Renaissance	2
	<u>MVK 2111</u> Keyboard Skills III Studio Principal	2		<u>MVK 2121</u> Keyboard Skills IV Studio Principal	2
!	<u>MUT 2246</u> Aural Theory III Major Ensemble	1		!	<u>MUT 2247</u> Aural Theory IV Major Ensemble
		1			1
	Semester Hours:	15		Semester Hours:	14

## Summer

## Credit Hours

Foreign Language for Voice Majors Only, Other Majors: General Elective 3  
Semester Hours: 3

<b>Semester 5</b>		<b>Credit Hours</b>	<b>Semester 6</b>		<b>Credit Hours</b>
	<u>MUH 3301</u> Music History/Baroque And Classic	3		<u>MUH 3302</u> Music History/Romantic And 20th Century	3
	<u>MUT 4421</u> Eighteenth Century Practice	3		<u>CAFA</u> FKL/Gen Ed Fine Arts	3
	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3		<u>SGEH</u> General Education Core Humanities	3
	<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3		<u>MUT 4571</u> Twentieth Century Practice	3
	Music Elective	2		Music Elective	1
	Music Elective	1		Semester Hours:	13
	Semester Hours:	15			

## Summer

## Credit Hours

Foreign Language for Voice Majors Only, Other Majors: General Elective 3  
Semester Hours: 3

<b>Semester 7</b>		<b>Credit Hours</b>	<b>Semester 8</b>		<b>Credit Hours</b>
	<u>WRIN</u> FKL/Gen Ed Writing Intensive Capstone	3		<u>CPST</u> FKL/Gen Ed Capstone Experience	3
	<u>CAHU</u> FKL/Gen Ed Humanities	3		Music History Upper-Level Elective	3
	<u>MUG 3104</u> Basic Conducting	2		Music Elective	2
	Music Elective	2		!	<u>MUS 4935</u> Music Senior Seminar
	Music Elective	1		Music Elective	1
	Music Elective	1		!	<u>MUS 2010</u> Recital Attendance
	Semester Hours:	12		Apply for Graduation	
				Music Elective	2
				Semester Hours:	12

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## 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 for Undergraduate Research](#) will assist students in understanding the various course options.

## • B.A. - MUSIC STUDIES (MSU) (CIP = 50.9999) TOTAL DEGREE HOURS: 120

<http://music.arts.usf.edu/content/templates/?z=153&a=1072>

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

Transfer students should complete the following **prerequisite courses** listed below at the lower level prior to entering the university. If these courses are not taken at a Florida College System institution, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C-" is the minimum acceptable grade. If students are coming to the university from the Florida College System institution, the following prerequisite courses will be accepted as meeting lower level requirements.

MUT X111	Music Theory or MUT X121, X122, X126, or X127
MUT X112	Music Theory or MUT X121, X122, X126, or X127
MUT X116	Music Theory or MUT X121, X122, X126, or X127
MUT X117	Music Theory or MUT X121, X122, X126, or X127
MUT X241	Aural Theory or MUT X221, X222, X226, X227, X261, X261, X266, X267, X271, X272, X276, or X277
MUT X242	Aural Theory or MUT X221, X222, X226, X227, X261, X261, X266, X267, X271, X272, X276, or X277
MUT X246	Advanced Aural Theory or MUT X221, X222, X226, X227, X261, X261, X266, X267, X271, X272, X276, or X277
MUT X247	Advanced Aural Theory or MUT X221, X222, X226, X227, X261, X261, X266, X267, X271, X272, X276, or X277
MUN XXXX	4 semester hours
MVX XX1X	Secondary Applied Music Courses, 2-4 semester hours
MVX XX2X	Secondary Applied Music Courses, 2-4 semester hours
	Secondary Piano Proficiency by Examination or MVK X111, X112, and X122 or MVK X111r, X112r, X121r, and X121r or MVK X211 and X221

## REQUIREMENTS FOR THE MAJOR IN MUSIC STUDIES

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\* [*Note: MUT 1112 is PR for MUH 3300.*]

**Aural Theory**

MUT 1241, MUT 1242, MUT 2246\*

**\*Jazz Theory**

*MUT 2641 and MUT 2642 may substitute for MUT 2116 and MUT 2246*

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## Music History

MUH 3300 Medieval and Renaissance [PR for MUH 3301 and MUH 3302]

### Choose 2 of the following 3 courses:

MUH 3301 Baroque and Classic

MUH 3302 Romantic through Contemporary

MUH 4801 History of Jazz [recommended for jazz students]

## APPLIED COURSES (12 credit hours):

### Applied Major (Studio)

MV? 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 FKL or Music Electives]

Choose two 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

MUH 3016 Survey of Jazz

MUL 3011 Music in Your Life

MUH 4372 Representing the United States in Music

MUH 4058 Intercultural Music in the Twentieth Century

MUT 2117/MUT 2247 Music Theory IV/Aural Theory IV

MUT 4421 Eighteenth Century Practice

MUT 4571 Twentieth Century Practice

### 2. 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.

## 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

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participation, or fails to maintain 12 credit hours during a semester in which they have received an award.

## Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1		Credit Hours	Semester 2		Credit Hours
!	<u>ENC 1101</u> Composition I	3	!	<u>ENC 1102</u> Composition II	3
!	<u>SGEM</u> General Education Core Mathematics	3	!	<u>CAMA</u> or <u>CAQR</u> (Take a CAMA or CAQR course, depending on what course was taken for the Mathematics core.)	3
!	<u>MUT 1111</u> Music Theory I	3	!	<u>MUT 1112</u> Music Theory II	3
	<u>MVK 1111</u> Keyboard Skills I Studio Principal	2		<u>MVK 1121</u> Keyboard Skills II Studio Principal	2
!	<u>MUT 1241</u> Aural Theory I Major Ensemble	1	!	<u>MUT 1242</u> Aural Theory II Major Ensemble	1
	Semester Hours:	15		Semester Hours:	15

Summer		Credit Hours
	Foreign Language I	4
	Semester Hours:	4

Semester 3		Credit Hours	Semester 4		Credit Hours
!	<u>MUT 2116</u> Music Theory III	3		<u>MUH 3302</u> or <u>MUH 4801</u> or <u>MUH 3301</u>	3
	<u>SGEN</u> General Education Core Natural Sciences	3		<u>CAFA</u> FKL/Gen Ed Fine Arts	3
	<u>SGES</u> General Education Core Social Sciences	3		<u>CANL</u> or <u>CANP</u> (Take a CANP or CANL course, depending on what course was taken for the Natural Science core.)	3
	<u>MUH 3300</u> Music History/Medieval And Renaissance Studio Principal	2		Studio Principal	2
!	<u>MUT 2246</u> Aural Theory III Major Ensemble	1		Major Ensemble	1
	Semester Hours:	15		Semester Hours:	12

Summer		Credit Hours
	Foreign Language II	4
	Semester Hours:	4

Semester 5		Credit Hours	Semester 6		Credit Hours
	<u>MUH 4801</u> or <u>MUH 3302</u>	3		<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
	<u>SGEH</u> General Education Core Humanities	3		<u>CAHU</u> FKL/Gen Ed Humanities	3
	<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3		Music Elective	3
	Academic Studies Elective or Studio Principal	2		Studio Principal & Junior Recital or Academic Studies Elective	2
	Academic Studies Elective or Major Ensemble	1		Major Ensemble	1
	Semester Hours:	12		Apply for Graduation	
				<u>MUS 2010</u> Recital Attendance	
				General Elective	2

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Semester Hours: 14

## Summer

### Summer Opportunities

Semester 7	Credit Hours	Semester 8	Credit Hours
<u>WRIN</u> FKL/Gen Ed Writing Intensive Capstone	3	<u>CPST</u> FKL/Gen Ed Capstone Experience	3
Upper-Level Elective	3	Upper-Level Elective	3
Upper-Level Elective	3	Upper-Level Elective	3
Music Elective	3	Upper-Level Elective	3
Music Elective	2	Upper-Level Elective	3
Semester Hours:	14	Semester Hours:	15

### 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 for Undergraduate Research will assist students in understanding the various course options.

## SCHOOL OF MUSIC FACULTY

*Interim Director:* J. W. Knott; *Associate Director:* D.A. Williams; *Professors Emeriti:* A. Hawkins, J. Heller, V. Jennings, A. Monroe, J. Reynolds, A. Summer, R. Summer, D. Owen; *Distinguished University Professor:* C.R. Owen; *Professors:* K.T. Brantley, C.V. Fung, S.N. Klusdahl, R.M. McCormick, J.O. Robison, A.J. Wilkins; *Associate Professors:* J.K. Bass, J. Carmichael, J.C. Coble, W.P. Hayden, S. Ivanov, W.W. Jaworski, S.H. Lee, K. McCormick, J.L.S. Moore, J.B. Moorhead, P. Reller, C.E. Stuart, W.W. Wiedrich, D.A. Williams; *Assistant Professors:* J.T. Brasky, J. Bugos, K. Cho, B. Diamond, Z. Lang, C. Randles, C. Scotto.

### • B.A. - THEATRE (TAR) (CIP = 50.0501) TOTAL DEGREE HOURS: 120

<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.

### STATE MANDATED COMMON COURSE PREREQUISITES

For students transferring from a Florida College System institution: Students are encouraged to complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet Foundations of Knowledge and Learning Requirements thereby transferring maximum hours to the university. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Please be aware of the immunization, foreign language, and continuous enrollment policies of the university. This is a non-limited access program with the courses below recommended.

Students need not have completed a concentration of courses in theatre in order to consider a Theatre major at USF. However, admission to the upper-level Theatre Performance program is by audition and admission to the upper-level Design sequence is by portfolio review. If the student does not succeed in passing the audition or portfolio review certain Theatre program requirements may have to be repeated until successful completion of the audition or portfolio review can be achieved.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at a Florida College System institution, they must be completed before the degree is granted. Unless stated otherwise, a grade of C is the minimum acceptable grade. A C average in the major is required for graduation.



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If students are coming to the university from a Florida College System institution, the following prerequisite courses will be accepted as meeting lower level requirements.

- THE X000 Any introductory course from THE X001-X035 (3 credit hours)
- THE X300 or THE X305 (3 credit hours)
- THE X925 (1 credit hour)
- TPA X290 (1 credit hour)
- TPA X200 or TPA X210 (3 credit hours)
- TPP X190 or TPP X110 (3 credit hours)
- Any combination THE, TPA and TPP course (9 credit hours)

## 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 concentrations 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 Introduction to Technical Theatre Lab I
- TPA 2211 Introduction to Technical Theatre II or TPA 2220 Introduction to Technical Theatre III
- TPA 2291L Introduction to Technical Theatre Lab II or TPA 2220L Introduction to Technical Theatre Lab III

**Second Year (8 credit hours):**

- THE 2305 Script Analysis
- THE 3110 Theatre History I or THE 3111 Theatre History II
- TPA 2292 Production Involvement I
- TPP 2190 Studio Theatre Performance I

**Third Year (8 credit hours):**

Choose two Theatre History/Literature Courses from the following list:

- THE 3110 Theatre History I
- THE 3111 Theatre History II
- THE 4174 New British Theatre and Drama
- THE 4180 Theatre Origins
- THE 4330 Shakespeare for the Theatre
- THE 4401 American Drama
- THE 4434 Caribbean Theatre
- THE 4480 Drama Special Topics
- TPA 4293 Production Involvement II
- TPP 4193 Studio Performance II

Note: By prior agreement between the director and instructor the Honors sequence in its entirety (THE 4593, 4594, 4595) may substitute for one Theatre History/Literature course requirement.

- TPA 4293 Production Involvement II
- TPP 4193 Studio 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 Requirement

A minimum of 20 credit hours in the major must be earned in residence.

### 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.

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## Accreditation Information

USF is fully accredited by the National Association of Schools of Theatre (NAST).

## REQUIREMENTS FOR THE CONCENTRATION IN DESIGN (TAD) (CIP = 50.0501-TRACK 2 OF 2) TOTAL CONCENTRATION HOURS: 24

<http://theatreanddance.arts.usf.edu/content/templates/?a=85&z=10>

### Concentration Core (24 hours)

TPA 3007	Introduction to Design I
TPA 3008	Introduction to Design II
TPA 3208	Drafting and CAD I
TPA 3231	Costume Construction or TPA 3221 Lighting Theory and Practice
TPA 3251	Drafting and CAD II
THE 4283	Architecture and Decor
THE 4264	Costume History
TPA 4011	Design Studio I

### Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>ENC 1101</u> Composition I	3	! <u>ENC 1102</u> Composition II	3
! <u>SGEM</u> General Education Core Mathematics	3	! <u>CAMA</u> or <u>CAQR</u> (Take a CAMA or CAQR course, depending on what course was taken for the Mathematics core.)	3
! <u>TPA 2200</u> Introduction to Technical Theatre I	3	! <u>TPA 2211</u> or <u>TPA 2220</u>	3
! <u>THE 2020</u> Introduction to Theatre	3	<u>SGEH</u> General Education Core Humanities	3
! <u>TPP 2110</u> Acting I	3	! <u>TPA 2220L</u> or <u>TPA 2291L</u>	1
! <u>TPA 2290L</u> Technical Theatre Lab I	1		
Semester Hours:	16	Semester Hours:	13

Summer	Credit Hours
<u>SGEN</u> General Education Core Natural Sciences	3
Semester Hours:	3

Semester 3	Credit Hours	Semester 4	Credit Hours
! <u>TPA 3208</u> Drafting and CAD I	3	! <u>TPA 3251</u> Drafting and CAD II	3
! <u>TPA 3007</u> Introduction to Design I	3	! <u>TPA 3008</u> Introduction to Design II	3
! <u>THE 2305</u> Script Analysis	3	! <u>TPA 2292</u> Production Involvement I	1
<u>SGES</u> General Education Core Social Sciences	3	<u>CAHU</u> FKL/Gen Ed Humanities	3
THE 3100 or <u>THE 3111</u>	3	<u>THE 4283</u> Architecture And Decoration	3
<u>TPP 2190</u> Studio Theatre Performance I	1	Semester Hours:	13
Semester Hours:	16		

Summer	Credit Hours
<u>CANL</u> or <u>CANP</u> (Take a CANP or CANL course, depending on what course was taken for the Natural Science core.)	3

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CASB FKL/Gen Ed Social and Behavioral Sciences 3  
Semester Hours: 6

Semester 5	Credit Hours	Semester 6	Credit Hours
Foreign Language I	4	Foreign Language II	4
<u>THE 4264</u> History Of Costume	3	<u>WRIN</u> FKL/Gen Ed Writing Intensive	3
Theatre Studies Elective	3	Capstone	
<u>TPP 4193</u> Studio Theatre	1	Theatre Studies Elective	3
Performance II		<u>TPA 3221</u> or <u>TPA 3231</u>	3
<u>TPA 4011</u> Design Studio I	3	Semester Hours:	13
Semester Hours:	14		

## Summer

### Summer Opportunities

Semester 7	Credit Hours	Semester 8	Credit Hours
General Elective	4	! <u>THE 4562</u> Contemporary Performance Theory	3
<u>CAFA</u> FKL/Gen Ed Fine Arts	3	<u>CPST</u> FKL/Gen Ed Capstone Experience	3
Major Elective	3	<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
Major Elective	3	General Elective	3
<u>TPA 4293</u> Production Involvement II	1	Apply for Graduation	
Semester Hours:	14	Semester Hours:	12

## REQUIREMENTS FOR THE CONCENTRATION IN PERFORMANCE (TAP) (CIP = 50.0501 - TRACK 2 OF 2) TOTAL CONCENTRATION HOURS: 15

<http://theatreanddance.arts.usf.edu/content/templates/?a=84&z=10>

### 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

### Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>ENC 1101</u> Composition I	3	! <u>ENC 1102</u> Composition II	3
! <u>SGEM</u> General Education Core Mathematics	3	! <u>CAMA</u> or <u>CAQR</u> (Take a CAMA or CAQR course, depending on what course was taken for the Mathematics core.)	3
! <u>THE 2020</u> Introduction to Theatre	3	! <u>TPA 2211</u> or <u>TPA 2220</u>	3
! <u>TPP 2110</u> Acting I	3	<u>SGEH</u> General Education Core Humanities	3
<u>TPA 2200</u> Introduction to Technical Theatre I	3	! <u>TPA 2220L</u> or <u>TPA 2291L</u>	1
<u>TPA 2290L</u> Technical Theatre Lab I	1		

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Semester Hours: 16

Semester Hours: 13

## Summer

CAGC FKL/Gen Ed Human and Cultural Diversity in a Global Context 3  
Semester Hours: 3

Semester 3	Credit Hours	Semester 4	Credit Hours
! <u>TPP 2500</u> Movement for Actors	3	! <u>THE 3110</u> or <u>THE 3111</u>	3
! <u>THE 2305</u> Script Analysis	3	<u>TPP 3790</u> Voice for Actors	3
<u>SGEN</u> General Education Core Natural Sciences	3	<u>CAHU</u> FKL/Gen Ed Humanities	3
<u>SGES</u> General Education Core Social Sciences	3	Performance Elective	3
<u>TPP 2190</u> Studio Theatre Performance I	1	<u>TPA 2292</u> Production Involvement I	1
Semester Hours:	13	Semester Hours:	13

## Summer

CANL or CANP (Take a CANP or CANL course, depending on what course was taken for the Natural Science core.) 3  
CASB FKL/Gen Ed Social and Behavioral Sciences 3  
Semester Hours: 6

Semester 5	Credit Hours	Semester 6	Credit Hours
! <u>TPP 3155</u> Acting II	3	! <u>TPP 4180</u> Acting III	3
<u>CAFA</u> FKL/Gen Ed Fine Arts	3	General Elective	3
General Elective	3	Performance Elective	3
Performance Elective	3	Theatre History/Literature Elective	3
Theatre History/Literature Elective	3	<u>TPA 4293</u> Production Involvement II	1
<u>TPP 4193</u> Studio Theatre Performance II	1	Semester Hours:	13
Semester Hours:	16		

## Summer

### Summer Opportunities

Semester 7	Credit Hours	Semester 8	Credit Hours
Foreign Language I	4	Foreign Language II	4
! <u>THE 4562</u> Contemporary Performance Theory	3	! <u>TPP 4140</u> Styles Of Acting	3
<u>WRIN</u> FKL/Gen Ed Writing Intensive Capstone	3	<u>CPST</u> FKL/Gen Ed Capstone Experience	3
Performance Elective	1	General Elective	3
Foreign Language Lab	1	Foreign Language Lab	1
General Elective	1	Apply for Graduation	
Semester Hours:	13	Semester Hours:	14

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## REQUIREMENTS FOR THE CONCENTRATION IN THEATRE ARTS (TAA) (CIP = 50.0501 - TRACK 2 OF 2) TOTAL CONCENTRATION HOURS: 21

<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 Puppetry, Playwriting, Stage Management, Directing, Literature and Criticism.

### 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)

### Eight Semester Plan

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full-time students. Note: Items that are critical are marked with a "!" and are included in the plan for a student to stay on track.

Semester 1	Credit Hours	Semester 2	Credit Hours
! <u>ENC 1101</u> Composition I	3	! <u>ENC 1102</u> Composition II	3
! <u>SGEM</u> General Education Core Mathematics	3	! <u>CAMA</u> or <u>CAQR</u> (Take a <u>CAMA</u> or <u>CAQR</u> course, depending on what course was taken for the Mathematics core.)	3
! <u>THE 2020</u> Introduction to Theatre	3	! <u>TPA 2211</u> or <u>TPA 2220</u>	3
! <u>TPP 2110</u> Acting I	3	<u>SGEH</u> General Education Core Humanities	3
<u>TPA 2200</u> Introduction to Technical Theatre I	3	! <u>TPA 2220L</u> or <u>TPA 2291L</u>	1
<u>TPA 2290L</u> Technical Theatre Lab I	1		
Semester Hours:	16	Semester Hours:	13

### Summer

	Credit Hours
<u>CAGC</u> FKL/Gen Ed Human and Cultural Diversity in a Global Context	3
Semester Hours:	3

Semester 3	Credit Hours	Semester 4	Credit Hours
! <u>THE 2305</u> Script Analysis	3	! <u>THE 3110</u> or <u>THE 3111</u>	3
<u>SGEN</u> General Education Core Natural Sciences	3	<u>CAHU</u> FKL/Gen Ed Humanities	3
<u>SGES</u> General Education Core Social Sciences	3	General Elective	3
<u>TPP X</u>	3	<u>TPA X</u> or <u>THE X</u> or <u>TPP X</u>	3
<u>TPP 2190</u> Studio Theatre Performance I	1	<u>TPA 2292</u> Production Involvement I	1
		General Elective	1
Semester Hours:	13	Semester Hours:	14

### Summer

	Credit Hours
<u>CANL</u> or <u>CANP</u> (Take a <u>CANP</u> or <u>CANL</u> course, depending on what course was taken for the Natural Science core.)	3
<u>CASB</u> FKL/Gen Ed Social and Behavioral Sciences	3
Semester Hours:	6

Semester 5	Credit Hours	Semester 6	Credit Hours
<u>CAFA</u> FKL/Gen Ed Fine Arts	3	General Elective	3

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General Elective	3	<u>THE X</u> or <u>TPP X</u> or <u>TPA X</u>	3
<u>THE X</u> or <u>TPP X</u> or <u>TPA X</u>	3	<u>TPP X</u> or <u>TPA X</u> or <u>THE X</u>	3
<u>TPA X</u> or <u>THE X</u> or <u>TPP X</u>	3	Theatre History/Literature Elective	3
Theatre History/Literature Elective	3	<u>TPA 4293</u> Production Involvement II	1
<u>TPP 4193</u> Studio Theatre Performance II	1	Semester Hours:	13
Semester Hours:	16		

## Summer

### Summer Opportunities

Semester 7	Credit Hours	Semester 8	Credit Hours
Foreign Language I	4	Foreign Language II	4
General Elective	3	! <u>THE 4562</u> Contemporary	3
<u>THE X</u> or <u>TPP X</u> or <u>TPA X</u>	3	Performance Theory	
General Elective	3	<u>WRIN</u> FKL/Gen Ed Writing	3
Semester Hours:	13	Intensive Capstone	
		General Elective	3
		Apply for Graduation	
		Semester Hours:	13

## 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 for Undergraduate Research will assist students in understanding the various course options.

## 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.

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## REQUIREMENTS FOR THE 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.

### 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	Introduction to Technical Theatre Lab I
TPA 2211	Introduction to Technical Theatre II or TPA 2220 Introduction to Technical Theatre III
TPA 2291L	Introduction to Technical Theatre Lab II or TPA 2220L Introduction to Technical Theatre Lab III

### 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.

## THEATRE FACULTY

*Director:* M. Powers; *Professors:* P. Finelli, B.W. Lee, J. Moy; *Associate Professors:* M. Foley, F. Green, G.B. Stephens, J. Travers; *Assistant Professors:* A. Carroll, D. Arreola, Y. Chen, B. Kohlmyer, A. Scott, Y. Zhu; *Instructors:* C.D. Frankel, M. Bertch, J. Parks; *Academic Advisor/Instructor:* M.L. Morris; *Professors Emeriti:* P. Massie, N. Cole., D. Calandra, S. Robinson, C. Steele, G. Warren.

## REQUIREMENTS FOR THE 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.

### 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
PGY 3610C	Photojournalism I
PUR 4101	Public Relations Design and Production
VIC 3943	Visual Communication Practicum

This certificate is offered for degree-seeking students only.

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## SCHOOL OF ARCHITECTURE & COMMUNITY DESIGN

**Location/ Phone:** HMS 301 Tampa Campus; (813) 974-4031

**Web Address:** <http://arch.usf.edu/>

**Contact E-mail:** [information@arch.usf.edu](mailto:information@arch.usf.edu)

### Mission

The School of Architecture & Community Design, founded in 1986, emphasizes architecture and community design proficiency, technical competency, and applied research that constitute thorough preparation for practice in the 21st century. The School of Architecture & Community Design's mission is to provide graduate level education that:

- Provides a holistic design curriculum and instruction through a variety of pedagogical approaches.
- Encourages individual and collaborative discoveries.
- Emphasizes continuity between design and construction.
- Builds technical and professional proficiency.
- Offers wide ranging global learning experiences.
- Provides opportunities for engagement with diverse communities.

And for students and faculty to conduct scholarly research and creative activity that:

- Is innovative, disciplinary, and interdisciplinary.
- Advances the understanding of the built environment as it relates to society and culture.
- Contributes to theory and practice in the disciplines of architecture and urbanism.
- Relevant to local communities.
- Advances the contemporary state of critical practice.
- Provokes (stimulates/instigates) critical discourse on architecture and urbanism.
  - Explores (embraces) emerging technologies.

Our aim is to graduate professionals who will be recognized for their design excellence in enhancing the quality of the built environment.

## ARCHITECTURE STUDIES FOR UNDERGRADUATES

The School of Architecture & Community Design (SACD) offers graduate degrees and certificates. In some circumstances, undergraduates can enroll in the Master of Architecture program before completing a baccalaureate degree:

### Master of Architecture Program for Non-Degree Holding Students

For non-degree holding students, the School's professional program involves a minimum of 165 credit hours of undergraduate and graduate work, leading to the Master of Architecture degree. No bachelor's degree is awarded.

Before entering the program, students are to complete a minimum of 60 credit hours of general education and prerequisite courses at a community college (in an associate of architecture transfer program), the University of South Florida, or other college or university. Having completed these requirements, students will complete the School's 105 credit hour, Master of Architecture program.

Students electing course of study will hold "undergraduate" status for the first 120 credit hours and "graduate" status for the remaining credit hour requirement.

In addition to, or part of, the undergraduate course requirements of 60 credit hours, all undergraduate students must have successfully completed the following prerequisites for admission into the program:

- ARC 2211 Introduction to Architecture
- ARC 2131C Introduction to Architectural Design and Graphics
- ARC 2135C Introduction to Architectural Design and Graphics II
- Creative art or design courses (minimum 8 credit hours)
- An undergraduate course in Calculus;
- An undergraduate course in Physics;
- An undergraduate course in Computer-Aided Drafting (CAD).

### Master of Architecture Program (for students with a 2-year Associate's Degree in Architecture)

Students having a two-year, associate's degree in architecture must complete a minimum of 93 credit hours in the School's Master of Architecture program. Holders of an Associate's degree in Architecture will normally receive a waiver of 12 credit hours for their previous design studio experience, reducing the normal 105 credit hour Master of Architecture degree requirement to 93 credit hours. Further, these students may receive waivers for the following architectural courses in which a grade of B or better was earned: Design Theory, History I, History II, and Structures I. However, pending the review of each applicant's transcript and portfolio, these credit hour and course waivers may not be granted.



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In addition to, or part of, these curricula requirements, all undergraduate students must have successfully completed the following prerequisites for admission into the program:

- A. an undergraduate course in Calculus;
- B. an undergraduate course in Physics;
- C. an undergraduate course in Computer-Aided Drafting (CAD)

## **Architecture Courses for Undergraduate Students not seeking the Master of Architecture Degree**

The School encourages other University students, not pursuing the Master of Architecture degree, to enroll in its numerous undergraduate and graduate courses as electives within their individual majors. The School offers ARC 2211 Introduction to Architecture as an approved Foundations of Knowledge and Learning Core Curriculum (General Education) course. Credits earned in the School's graduate-level elective courses on a non-degree seeking basis can later be applied toward advanced standing in the Master of Architecture curriculum by those students who meet the School's admission requirements.

## **Admission into the School of Architecture & Community Design (SACD)**

In order to enroll in the Master of Architecture program, interested students must be accepted into the University as well as the School. Undergraduate students must be accepted into the University of South Florida by the Office of Undergraduate Admissions and into the School of Architecture & Community Design by the College of The Arts. These are separate admissions processes that involve different application forms, supportive materials, and deadlines. For more detailed information, students should see Undergraduate Admissions online and visit the SACD website at <http://www.arch.usf.edu/>.

# UNDERGRADUATE STUDIES

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## Office of the Dean

**Location/Phone:** SVC 2003; (813) 974-4051

**Web Address:** <http://www.ugs.usf.edu/ugs.htm>

The Office of Undergraduate Studies (UGS) works in partnership with the academic colleges in the development, review and enhancement of the undergraduate programs to assist faculty to provide outstanding undergraduate education for students. The members of the UGS team work with faculty to establish and administer academic policies, assist with undergraduate curriculum development and review, and support proposals for new and revised programs and courses through the various approval processes. In addition to assisting with the academic programs offered by the colleges, Undergraduate Studies offers a number of academic programs, including the Bachelor of Science in Applied Sciences, the Bachelor of General Studies, the Leadership Studies minor, and the Army, Air Force and Naval Reserve Officer Training Corps programs.

Undergraduate Studies provides a strong set of student success programs designed to make it more likely that students will successfully navigate the complexities of the transition to college and the baccalaureate experience. (It integrates academic endeavors with meaningful experiences within a myriad of student development programs.) Together, they aim to provide coordinated opportunities for students to develop their identities and intellectual competencies for successful careers and lifelong learning. Those services include: the Academic Success Center, First-Year and Transfer Student Orientation, the Transitional Advising Center, the Office of Academic Advocacy, the Academic Foundations Course, First Generation Access and Pre-Collegiate Programs, the Office for Undergraduate Research in the Learning Commons, the Joint Military Leadership Center, and the Academic Enrichment Center for Student Athletes.

## Following are the undergraduate academic programs offered by the Undergraduate Studies: Bachelor of General Studies (B.G.S.)

### General Studies (BGS)

Behavioral Healthcare (GBH)  
Business (GBU)  
Criminal Justice (GCJ)  
Environmental Policy & Management (GEM)  
Gerontology (GRY)  
Information Studies: Information Architecture (GFA)

Information Technology (GIT)  
Leadership Studies (GSL)  
Public Administration (GPA)  
Public Health (GPU)  
Urban Studies (GUS)  
Women's and Gender Studies (GWS)

## Bachelor of Science in Applied Science (B.S.A.S.)

### Applied Science (APS)

Behavioral Healthcare (ABH)  
Criminal Justice (ACJ)  
Deaf Studies (ADS)  
Environmental Policy & Management (AEP)  
Gerontology (AGR)

Information Studies: Information Architecture (AIA)  
Information Technology (ATC)  
Leadership Studies (ALS)  
Public Administration (APU)  
Public Health (APL)  
Urban Studies (AUR)

## Minors

Aerospace Studies (AEO)  
Leadership Studies (LDS)

Military Science (MTY)  
Naval Science and Leadership (NSL)

## • B.S.A.S. - APPLIED SCIENCE (APS) (CIP = 24.0102) TOTAL DEGREE HOURS: 120

<http://www.ugs.usf.edu/academic/bsas.htm>

Workforce projections for the 21st Century indicate that there will be an ongoing need for people with specific skills and abilities to fill Florida's growing number of specialized, scientific, industrial and technological positions. Florida's two-year colleges offer many exceptional programs that meet these demands through their Associate in Science (A.S.) degrees. Although these applied and technical degrees provide excellent preparation for students seeking jobs that require specific knowledge, skill and ability, they have not generally transferred very efficiently into four-year Bachelor's degree programs. The Bachelor of Science in Applied Science (B.S.A.S.) has been developed by USF under certain provisions of Florida legislation to remove constraints from the transfer process, recognize past 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 BSAS 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

# UNDERGRADUATE STUDIES

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## UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

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match their academic interests and career ambitions. To achieve this end, BSAS students will plan their program in ongoing consultation with an academic advisor who will help students design their individualized program of study.

<b>Coursework</b>	<b>Credits</b>
Community or State College Technical Credits Transferred from the A.S. Degree	42
Community or State College General Education Credits Transferred from the A.S. Degree	18
USF General Education Credits	18
USF Area of Concentration Credits	24
Required Credits for the Concentration (21 credit hours)	
USF EXIT Capstone Course (3 credit hours)	
USF EXIT Writing Intensive Course	3
USF Electives Credits*	15
<b>Total Credit Hours Required for the Degree</b>	<b>120</b>

\*Elective credit hours may vary slightly, but will not require students to exceed a total of 120 credit hours for completion of the BSAS degree.

Within the 60 credit hours of USF coursework beyond the A.S., BSAS students will complete:

- A minimum of 48 credit hours of upper-level (3000-4999) courses
- 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.

## 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 Gordon Rule communication and computation courses to fulfill these requirements while at the community or state college. Students must complete ENC 1101, ENC 1102, 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 BSAS program). Up to 42 hours of technical coursework may be eligible for transfer into the BSAS 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 BSAS/BGS

**Residency Requirement**

At least 30 hours of the last 60 credit hours 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 for 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 (available partially online)
- Environmental Policy and Management (available partially online)
- Information Studies: Information Architecture (available partially online)

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Information Technology (fully online)  
Public Health (available partially online)  
Urban Studies (available partially online)

## Advising Information

**Location/Phone:** SVC 2043; (813) 974-2645; <http://www.ugs.usf.edu/trac/appts.htm>.

## APPLIED SCIENCE CONCENTRATIONS

The Bachelor of Applied Science offers many concentrations and students must choose from one of the following concentrations:

### REQUIREMENTS FOR THE CONCENTRATION IN BEHAVIORAL HEALTHCARE (ABH)

**TOTAL CONCENTRATION HOURS: 21**

<http://www.ugs.usf.edu/academic/bsascon.htm>

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.

#### **Concentration Core (15 hours)**

##### **Concentration Requirements:**

- MHS 3411 Multidisciplinary Behavioral Healthcare Services
- MHS 4002 Behavioral Health Systems Delivery
- MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment
- MHS 4425 Field Experience in Behavioral Healthcare
- MHS 4703 Legal, Ethical and Professional Issues in BHC

##### **Concentration Electives (6 hours)**

Choose six credit hours from the following list of courses:

- CLP 4414 Behavior Modification
- MHS 4022 Adult Psychopathology in the Community
- MHS 4023 Recovery-Oriented Mental Health Services
- MHS 4203 Practical Skills: Children's Behavioral Healthcare
- MHS 4434 Behavioral Health and the Family
- MHS 4452 Co-Occurring Disorders
- MHS 4463 Suicide Issues in Behavioral Health
- MHS 4490 Behavioral Healthcare Issues for Children
- MHS 4731 Writing for Research and Publication in BCS
- MHS 4741 Advanced Research Methods in Behavioral and Community Sciences
- MHS 4931 Selected Topics: Gerontological Counseling
- RCS 4033 Overview of Rehab and MH Counseling Professions

### REQUIREMENTS FOR THE CONCENTRATION IN CRIMINAL JUSTICE (ACJ)

**TOTAL CONCENTRATION HOURS: 21**

<http://www.ugs.usf.edu/academic/bsascon.htm>

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

#### **Concentration Core (6 hours)**

- CCJ 3117 Theories of Criminal Behavior
- CCJ 3024 Survey of the Criminal Justice System

##### **Concentration Electives (15 hours)**

**Choose 3 credit hours from the following:**

- CJE 4114 American Law Enforcement Systems
- CJE 4010 Juvenile Justice System

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CJC 4010 American Correctional Systems

**Choose 3 credit hours from the following:**

CJL 3110 Substantive Criminal Law

CJL 4410 Criminal Rights and Procedures

**Choose 9 credit hours from the following:** Do not choose a course from the following list that has been chosen from above.

CCJ 3014 Crime and Justice in America

CCJ 3621 Patterns of Criminal Behavior

CCJ 3701 Research Methods in Criminal Justice I

CCJ 4224 Miscarriages of Justice

CCJ 4361 Death Penalty

CCJ 4450 Criminal Justice Administration

CCJ 4604 Abnormal Behavior and Criminality

CCJ 4613 Forensic Psychology

CCJ 4651 Drugs and Crime

CCJ 4662 Race and Crime

CCJ 4681 Domestic Violence

CCJ 4690 Sex Offenders

CCJ 4900 Directed Readings

CCJ 4910 Directed Research

CCJ 4933 Selected Topics in Criminology (may be repeated with different topics)

CCJ 4940 Internship for Criminal Justice Majors

CJE 4114 American Law Enforcement Systems

CJE 4010 Juvenile Justice System

CJE 4610 Criminal Investigation

CJC 4010 American Correctional Systems

CJL 3110 Substantive Criminal Law

CJL 4410 Criminal Rights and Procedures

CJL 4115 Environmental Law and Crime

Any other upper-level (3XXX-4XXX) course with a CCJ, CJC, CJE, CJL, or CJT prefix except CCJ 4934.

## REQUIREMENTS FOR THE CONCENTRATION IN DEAF STUDIES (ADS)

### TOTAL CONCENTRATION HOURS: 21

<http://www.ugs.usf.edu/academic/bsascon.htm>

This concentration will introduce students to the history, culture and language of the American Deaf community. The student will be exposed to the full spectrum of Deafness from the cultural view to the pathological view. In addition, students will be able to explore a variety of social and community services and tailor their education to their specific area of interest. Students will be able to apply their knowledge of Deafness and cultural perspective to these social and community services in order to become an advocate within the community.

#### Concentration Core (12 hours)

ASL 3514 History and Culture of the Deaf

INT 3004 Fundamentals of Interpreting

SPA 3470 Culture and Diversity in Communication Sciences & Disorders

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

ASL 4201C American Sign Language IV

ASL 4301C Structure of Sign Language

CCJ 3024 Survey of Criminal Justice

GEY 3625 Sociological Aspects of Aging

INT 3270 Interpreting Process and Skill Development

INT 4490 Introduction to Cued Speech and its Applications

MHS 3411 Multidisciplinary Behavioral Healthcare Services

RCS 4931 Introduction to the Counseling Professions

SOW 3210 American Social Welfare System

SPA 3002 Introduction to Disorders of Speech and Language

# UNDERGRADUATE STUDIES

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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 Communication Sciences & Disorders
SPA 3310	Introduction to Disorders of Hearing

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## REQUIREMENTS FOR THE CONCENTRATION IN ENVIRONMENTAL POLICY & MANAGEMENT (AEP) TOTAL CONCENTRATION HOURS: 22

<http://www.ugs.usf.edu/academic/bsascon.htm>

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

### Concentration Core (7 hours)

EVR 2001	Introduction to Environmental Science
EVR 2001L	Introduction to 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 4104	Karst Environments
EVR 4114	Climate Change
EVR 4930	Selected Topics:
GEO 4502	Economic Geography
PHI 3640	Environmental Ethics

#### Choose 6 credit hours from the following:

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

## REQUIREMENTS FOR THE CONCENTRATION IN GERONTOLOGY (AGR) TOTAL CONCENTRATION HOURS: 21

<http://www.ugs.usf.edu/academic/bsascon.htm>

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

### Concentration Core (12 hours)

GEY 2000	Introduction to Gerontology
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GEY 3601	Physical Changes and Aging
GEY 3625	Sociocultural Aspects of Aging
GEY 4612	Psychology of Aging

## Concentration Electives (9 hours)

Choose nine credit hours from the following list of courses:

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

## REQUIREMENTS FOR THE CONCENTRATION IN INFORMATION STUDIES: INFORMATION ARCHITECTURE (AIA) TOTAL CONCENTRATION HOURS: 21

<http://www.ugs.usf.edu/academic/bsascon.htm>

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

### Concentration Core (18 hours)

LIS 3261	Introduction to Information Science
LIS 3353	IT Concepts for Information Professionals
LIS 3783	Information Architecture
LIS 3361	Web Page Design and Management
LIS 3352	Interaction Design
LIS 4365	Web Design Technologies

### Concentration Electives (3 hours)

Choose three credit hours from the following list of courses:

CEN 3722	Human Computer Interfaces for Information Technology
CGS 3373	IT Concepts & Data Networking
CGS 3374	Computer Architecture & Operating Systems
CGS 3847	Advanced 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	IT Ethics
CIS 4361	Information Technology Security Management
CIS 4365	Computer Security Policies and Disaster Preparedness
CIS 4368	Database Security and Audits
CIS 4412	Information Technology Resource Management
CIS 4510	IT Project Management
CIS 4932	Special Topics for Information Technology
CIS 4935	Senior Project in Information Technology
COP 1930	Special Topics for Information Technology
COP 2930	Special Topics for Information Technology
COP 2931	Special Topics for Information Technology
COP 3931	Special Topics for Information Technology
COP 4814	Web Services
COP 4816	XML Applications
COP 4834	Data-Driven Web Sites

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COP 4931	Special Topics for 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

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## REQUIREMENTS FOR THE CONCENTRATION IN INFORMATION TECHNOLOGY (ATC)

**TOTAL CONCENTRATION HOURS: 21**

<http://www.uqs.usf.edu/academic/bsascon.htm>

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

### Concentration Core (9 hours)

EEL 4782	Computer Information Networks for IT
EEL 4782L	Computer Information Networks for IT Lab
CIS 4935	Senior Project in Information Technology

### Concentration Electives (12 hours)

Choose 12 credit hours from the following list of courses:

CEN 3722	Human Computer Interfaces for IT
CGS 2034	Computers and Impact on Society
CGS 2060	Intro to Computers and Programming
CGS 2094	Cyber Ethics
CIS 3932	Selected Topics for IT
CIS 4361	Information Technology Security Management
CIS 4412	Information Technology Resource Management
COP 2510	Programming Concepts
COP 2931	Selected Topics for Information Technology
COP 3931	Selected Topics for IT
ETG 4932	Selected Topics in Technology II

**Entrance Requirement for the Information Technology concentration:** Students must have completed the A.S. degree with a major in Information Technology, Computer Science, Networking, or a closely related field.

## REQUIREMENTS FOR THE CONCENTRATION IN LEADERSHIP STUDIES (ALS)

**TOTAL CONCENTRATION HOURS: 21**

<http://www.uqs.usf.edu/academic/bsascon.htm>

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.

### Concentration Core (3 hours)

#### Concentration Requirement:

LDR 4104	Theories of Leadership
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### 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 (repeatable with different topics)
LDR 4114	Survey of Leadership Readings
LDR 4164	Organizational Theory/Process
LDR 4564	Images of Leadership in the Media

#### Choose 6 credit hours from the following:

LDR 3115	Contemporary Issues in Leadership
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LDR 3216	Leadership and Social Change
LDR 3263	Community Leadership Practicum
LDR 4204	Ethics and Power in Leadership
LDR 4230	Global Leadership

## REQUIREMENTS FOR THE CONCENTRATION IN PUBLIC ADMINISTRATION (APU)

**TOTAL CONCENTRATION HOURS: 21**

<http://www.ugs.usf.edu/academic/bsascon.htm>

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

### Concentration Core (15 hours)

PAD 3003	Introduction to Public Administration
PAD 4204	Public Financial Administration
PAD 4415	Personnel and Supervision in Today's Organizations
PAD 4712	Managing Information Resources in the Public Sector
PAD 4144	Nonprofit Organizations and Public Policy

### Concentration Electives (6 hours)

Choose six credit hours from the following list of courses:

PAD 4930	Selected Topics in Public Administration
PAD 5XXX	Any 5000-level course with a PAD prefix
POS 3182	Florida Politics and Government
URP 4050	City Planning and Community Development
URS 3002	Introduction to Urban Studies

## REQUIREMENTS FOR THE CONCENTRATION IN PUBLIC HEALTH (APL)

**TOTAL CONCENTRATION HOURS: 21**

<http://www.ugs.usf.edu/academic/bsascon.htm>

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

### Concentration Core (9 hours)

PHC 4101	Introduction to Public Health
PHC 4030	Introduction to Epidemiology
HSC 4551	Survey of Human Disease

### Concentration Electives (12 hours)

Choose 12 credit hours from the following list of courses:

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

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PHC 4720	Foundation to Professional Writing in Public Health
PHC 4931	Health Care Ethics

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## REQUIREMENTS FOR THE CONCENTRATION IN URBAN STUDIES (AUR) TOTAL CONCENTRATION HOURS: 21

<http://www.ugs.usf.edu/academic/bsascon.htm>

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

### Concentration Core (6 hours)

URS 3002	Introduction to Urban Studies
PAD 3003	Introduction to Public Administration

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

## • B.G.S. - GENERAL STUDIES (BGS) (CIP = 24.0102) TOTAL DEGREE HOURS: 120

<http://www.usf.edu/innovative-education/programs/bachelor-of-general-studies/index.aspx>

USF's Bachelor of General Studies Degree (BGS) is a customized, interdisciplinary degree 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.

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

## STATE MANDATED COMMON COURSE PREREQUISITES

There are no state mandated common course prerequisites for this major.

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## 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 BSAS/BGS

Upon acceptance to the BGS major, students will complete the necessary coursework to reach 120 credit hours.

The 120 credit hour requirement includes completing the following:

- USF Foundations of Knowledge and Learning General Education requirements or approved equivalents - unless GE credits were completed at another Florida institution.
- All USF exit requirements
- Foreign Language Entrance Requirement
- One or two disciplinary concentrations selected by the student and approved by the advisor
- A minimum of 48 semester hours of upper-level work (courses numbered 3000 and above)

### Residency Requirement

At least 30 hours earned 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 for Undergraduate Research will assist students in understanding the various course options.

### Other Information

The following BGS Areas of Concentration are offered fully or partially online:

- Criminal Justice (fully online)
- Environmental Policy and Management (partially online)
- Information Studies: Information Architecture (fully online)
- Information Technology (fully online)
- Leadership Studies (partially online)
- Public Administration (fully online)
- Public Health (fully online)
- Urban Studies (partially online)
- Women's and Gender Studies (partially online)

Consult advisor for availability of online course offerings.

### Advising Information

Transitional Advising Center (TRAC); SVC 2043; (813) 974-2645.

## GENERAL STUDIES CONCENTRATIONS

The Bachelor of General Studies offers many concentrations and students must choose from one of the following concentrations:

## REQUIREMENTS FOR THE CONCENTRATION IN (GBH) BEHAVIORAL HEALTHCARE TOTAL CONCENTRATION HOURS: 21

<http://www.usf.edu/innovative-education/programs/bachelor-of-general-studies/behavioral-healthcare.aspx>

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.

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## Concentration Core (15 hours)

MHS 3411	Multidisciplinary Behavioral Healthcare Services
MHS 4002	Behavioral Health Systems Delivery
MHS 4408	Exemplary Practices in Behavioral Healthcare Treatment
MHS 4425	Field Experience in Behavioral Healthcare
MHS 4703	Legal, Ethical and Professional Issues in BHC

## Concentration Electives (6 hours)

Choose six credit hours from the following list of courses:

CLP 4414	Behavior Modification
MHS 4022	Adult Psychopathology in the Community
MHS 4023	Recovery-Oriented Mental Health Services
MHS 4203	Practical Skills: Children's Behavioral Healthcare
MHS 4434	Behavioral Health and the Family
MHS 4452	Co-occurring Disorders
MHS 4463	Suicide Issues in Behavioral Health
MHS 4490	Behavioral Healthcare Issues for Children
MHS 4731	Writing for Research and Publication in BCS
MHS 4741	Advanced Research Methods in Beh. and Comm. Sci.
MHS 4931	Selected Topics
RCS 4033	Overview of Rehab and MH Counseling Professions

## REQUIREMENTS FOR THE CONCENTRATION IN BUSINESS (GBU)

### TOTAL CONCENTRATION HOURS: 24

<http://www.usf.edu/innovative-education/programs/bachelor-of-general-studies/business.aspx>

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.

## 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
MAN 3025	Principles of Management
MAR 3023	Basic Marketing
GEB 4890	Strategic Management and Decision Making

## REQUIREMENTS FOR THE CONCENTRATION IN CRIMINAL JUSTICE (GCJ)

### TOTAL CONCENTRATION HOURS: 21

<http://www.usf.edu/innovative-education/programs/bachelor-of-general-studies/criminal-justice.aspx>

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

## Concentration Core (6 hours)

CCJ 3024	Survey of the Criminal Justice System
CCJ 3117	Theories of Criminal Behavior

## Concentration Electives (15 hours)

Choose 3 credits from the following courses:

CJC 4010	American Correctional Systems
CJE 4010	Juvenile Justice System
CJE 4114	American Law Enforcement Systems

Choose 3 credits from the following courses:

CJL 3110	Substantive Criminal Law
CJL 4410	Criminal Rights and Procedures

Choose 9 credits from the following courses:

Do not choose a course that has already been counted above.

# UNDERGRADUATE STUDIES

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CCJ 3014	Crime and Justice in America
CCJ 3621	Patterns of Criminal Behavior
CCJ 3701	Research Methods in Criminal Justice I
CCJ 4224	Miscarriages of Justice
CCJ 4361	Death Penalty
CCJ 4450	Criminal Justice Administration
CCJ 4604	Abnormal Behavior and Criminality
CCJ 4613	Forensic Psychology
CCJ 4651	Drugs and Crime
CCJ 4662	Race and Crime
CCJ 4681	Domestic Violence
CCJ 4690	Sex Offenders
CCJ 4900	Directed Readings
CCJ 4910	Directed Research
CCJ 4933	Selected Topics in Criminology (may be repeated with different topics)
CCJ 4940	Internship for Criminal Justice Majors
CJE 4114	American Law Enforcement Systems
CJE 4010	Juvenile Justice System
CJE 4610	Criminal Investigation
CJC 4010	American Correctional Systems
CJL 3110	Substantive Criminal Law
CJL 4410	Criminal Rights and Procedures
CJL 4115	Environmental Law and Crime

Any other upper-level (3XXX-4XXX) course with a CCJ, CJC, CJE, CJL, or CJT prefix except CCJ 4934.

## REQUIREMENTS FOR THE CONCENTRATION IN ENVIRONMENTAL POLICY & MANAGEMENT (GEM)

**TOTAL CONCENTRATION HOURS: 22**

<http://www.usf.edu/innovative-education/programs/graduate-certificates/environmental-policy-and-management.aspx>

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.

### **Concentration Core (7 hours)**

EVR 2001	Introduction to Environmental Science
EVR 2001L	Introduction to Environmental Science Lab
EVR 2861	Introduction to Environmental Policy

### **Concentration Electives (15 hours)**

#### **Choose 9 credits from the following:**

EVR 4027	Wetland Environments
EVR 4104	Karst Environments
EVR 4114	Climate Change
EVR 4930	Selected Topics
GEO 4502	Economic Geography
PHI 3640	Environmental Ethics

#### **Choose 6 credits from the following:**

ANT 4403	Environmental Anthropology
ECP 3302	Environmental Economics
EDF 3228	Human Behavior and Environmental Selection
EVR 4930	Selected Topics
GEO 3602	Urban Geography
GEO 4280C	Hydrology
GEO 4284	Water Resources Management
GEO 4340	Natural Hazards
GEO 4372	Global Conservation
GIS 3006	Computer Cartography
GIS 5049	GIS for Non-Majors
HSC 4551	Survey of Human Diseases
PAD 3003	Introduction to Public Administration

# UNDERGRADUATE STUDIES

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PAD 4144	Non-Profits and Public Policy
POS 3142	Introduction to Urban Politics/Government
POS 3182	Florida Politics and Government
POS 3697	Environmental Law
PUP 4002	Public Policy
PUP 4203	Environmental Politics and Policy
URP 4050	City Planning and Community Development
URS 3002	Introduction to Urban Studies
WST 3324	Women, Environment and Gender

## REQUIREMENTS FOR THE CONCENTRATION IN GERONTOLOGY (GRY) TOTAL CONCENTRATION HOURS: 21

<http://www.usf.edu/innovative-education/programs/bachelor-of-general-studies/gerontology.aspx>

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

### Concentration Core (12 hours)

GEY 2000	Intro to Gerontology
GEY 3601	Physical Changes and Aging
GEY 3625	Sociocultural Aspects of Aging
GEY 4612	Psychology of Aging

### Concentration Electives (9 hours)

Choose nine credit hours from the following list of courses:

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

## REQUIREMENTS FOR THE CONCENTRATION IN INFORMATION STUDIES: INFORMATION ARCHITECTURE (GFA) TOTAL CONCENTRATION HOURS: 21

<http://www.usf.edu/innovative-education/programs/bachelor-of-general-studies/information-studies-architecture.aspx>

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

### Concentration Core (18 hours)

LIS 3261	Introduction to Information Science
LIS 3353	IT Concepts for Information Professionals
LIS 3783	Information Architecture
LIS 3361	Web Page Design and Management
LIS 3352	Interaction Design
LIS 4365	Web Design Technologies

### 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

# UNDERGRADUATE STUDIES

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CGS 3373	IT Concepts & Data Networking
CGS 3374	Computer Architecture & Operating Systems
CGS 3845	Electronic Commerce
CGS 3847	Advanced E-Commerce
CGS 3850	Web Development: JavaScript & jQuery
CGS 3853	IT Web Design
CGS 4855	Intermediate Web Development (jQuery)
CIS 3360	Principles of Information Security
CIS 3362	Cryptography and Information Security
CIS 3367	Architecting Operating System Security
CIS 3932	Special Topics for Information Technology
CIS 4204	Ethical Hacking
CIS 4253	IT Ethics
CIS 4361	Information Technology Security Management
CIS 4365	Computer Security Policies and Disaster Preparedness
CIS 4368	Database Security and Audits
CIS 4412	Information Technology Resource Management
CIS 4510	IT Project Management
CIS 4932	Special Topics for Information Technology
CIS 4935	Senior Project in Information Technology
COP 1930	Special Topics for Information Technology
COP 2930	Special Topics for Information Technology
COP 2931	Special Topics for Information Technology
COP 3515	Program Design for Information Technology
COP 3718	Intermediate Database Systems
COP 3931	Special Topics for Information Technology
COP 4610	Operating Systems for Information Technology
COP 4610L	Operating Systems Laboratory for Information Technology
COP 4814	Web Services
COP 4816	XML Applications
COP 4834	Data-Driven Web Sites
COP 4931	Special Topics for Information Technology
EEL 4782	Computer Information Networks for Information Technology
EEL 4782L	Information Networks Laboratory for Information Technology
EEL 4854	Data Structures and Algorithms for Information Technology
ETG 3612	Operations Management
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

## REQUIREMENTS FOR THE CONCENTRATION IN INFORMATION TECHNOLOGY (GIT) TOTAL CONCENTRATION HOURS: 21

<http://www.usf.edu/innovative-education/programs/bachelor-of-general-studies/information-technology.aspx>

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

### Concentration Core (10 hours)

CGS 3303	Information Technology Concepts
EEL 4782	Computer Information Networks for IT
EEL 4782L	Computer Information Networks for IT Lab
CIS 4935	Senior Project in Information Technology

### Concentration Electives (11 hours)

Choose 11 credit hours from the following list of courses:

CDA 3101	Computer Organization for IT
CEN 3722	Human Computer Interfaces for IT
CEN 4031	Software Engineering Concepts for IT

# UNDERGRADUATE STUDIES

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CGS 2034	Computers and Impact on Society
CGS 2060	Intro to Computers and Programming
CGS 2094	Cyber Ethics
CGS 3845	Electronic Commerce
CGS 3853	IT Web Design
CIS 3932	Selected Topics for Information Technology
CIS 4361	Information Technology Security Management
CIS 4412	Information Technology Resource Management
CIS 4932	Special Topics for Information Technology
CNT 3403	Network Security and Firewalls
COP 2510	Programming Concepts
COP 2931	Selected Topics for Information Technology
COP 3515	Program Design for IT
COP 3931	Selected Topics for Information Technology
COP 4610	Operating Systems for IT
COP 4703	Database Systems for IT
EEL 4854	Data Structures and Algorithms for IT
ETG 4932	Selected Topics in Technology II

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

## REQUIREMENTS FOR THE CONCENTRATION IN LEADERSHIP STUDIES (GSL) TOTAL CONCENTRATION HOURS: 21

<http://www.usf.edu/innovative-education/programs/bachelor-of-general-studies/leadership-studies.aspx>

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.

### 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 Theory/Process

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

## REQUIREMENTS FOR THE CONCENTRATION IN PUBLIC ADMINISTRATION (GPA) TOTAL CONCENTRATION HOURS: 21

<http://www.usf.edu/innovative-education/programs/bachelor-of-general-studies/public-administration.aspx>

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

### Concentration Core (15 hours)

PAD 3003 Introduction to Public Administration



# UNDERGRADUATE STUDIES

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PAD 4204	Public Financial Administration
PAD 4415	Personnel and Supervision in Today's Organizations
PAD 4712	Managing Information Resources in the Public Sector
PAD 4144	Nonprofit Organizations and Public Policy

## Concentration Electives (6 hours)

Choose six credit hours from the following list of courses:

PAD 4930	Selected Topics in Public Administration
PAD 5XXX	Any 5000-level course with a PAD prefix
POS 3182	Florida Politics and Government
URP 4050	City Planning and Community Development
URS 3002	Introduction to Urban Studies

## REQUIREMENTS FOR THE CONCENTRATION IN PUBLIC HEALTH (GPU)

### TOTAL CONCENTRATION HOURS: 21

<http://www.usf.edu/innovative-education/programs/bachelor-of-general-studies/public-health.aspx>

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

### Concentration Core (9 hours)

PHC 4101	Introduction to Public Health
PHC 4030	Introduction to Epidemiology
HSC 4551	Survey of Human Disease

### Concentration Electives (12 hours)

Choose 12 credit hours from the following list of courses:

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

## REQUIREMENTS FOR THE CONCENTRATION IN URBAN STUDIES (GUS)

### TOTAL CONCENTRATION HOURS: 21

<http://www.usf.edu/innovative-education/programs/bachelor-of-general-studies/urban-studies.aspx>

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

### Concentration Core (6 hours)

URS 3002	Introduction to Urban Studies
PAD 3003	Introduction to Public Administration

### Concentration Electives (15 hours)

Choose 6 credits from the following:

URP 4050	City Planning and Community Development
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# UNDERGRADUATE STUDIES

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URP	4052	Urban and Regional Planning
URP	XXXX	Approved course with an URP or URS XXXX Approved course with an URS prefix
<b>Choose 9 credits from the following:</b>		
AMH	3423	Modern Florida
AMH	3500	American Labor History
AMH	3530	Immigration History
AMH	3572	African American History since 1865
AMS	3700	Racism in American Society
ARC	4784	The City
CCJ	3014	Crime and Justice in America or CCJ 3024 Survey of the Criminal Justice System
CCJ	3117	Theories of Criminal Behavior
EVR	2861	Introduction to Environmental Policy
IDS	4942	Community Internship
PAD	4144	Nonprofit Organizations and Public Policy
PAD	4204	Public Financial Administration
PAD	4930	Selected Topics in Public Admin/Policy
PAD	5035	Issues in Public Admin/Policy
PAD	5807	Urban and Local Government Administration
POS	3142	Introduction to Urban Politics and Government
POS	3182	Florida Politics and Government
SOW	3210	American Social Welfare System
SPC	3710	Communication and Cultural Diversity
SYD	3700	Racial and Ethnic Relations
SYD	4410	Urban Sociology
SYP	4530	Sociology of Juvenile Delinquency
TTE	4003	Transportation and Society

## REQUIREMENTS FOR THE CONCENTRATION IN WOMEN'S AND GENDER STUDIES (GWS) TOTAL CONCENTRATION HOURS: 21

<http://www.usf.edu/innovative-education/programs/bachelor-of-general-studies/womens-studies.aspx>

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

### Concentration Core (6 hours)

WST	3015	Introduction to Women's Studies
WST	3311	Issues in Feminism

### Concentration Electives (15 hours)

Choose six credit hours from the following list of courses:

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

## REQUIREMENTS FOR THE MINOR IN AEROSPACE STUDIES (AEO) TOTAL MINOR HOURS: 16

<http://www.ugs.usf.edu/academic/rotc.htm>

# UNDERGRADUATE STUDIES

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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.

### 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

### Optional Courses:

MSL 1001C	Leadership in the Army Profession
MSL 1002C	Leadership Models and Methods
MSL 2101C	Individual Leadership Studies
MSL 2102C	Leadership in Changing Environments
MSL 3201C	Leading Teams
MSL 3202C	Leading Small Units
MSL 4302C	Preparing for Army Leadership

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.

## REQUIREMENTS FOR THE MINOR IN LEADERSHIP STUDIES (LDS)

### TOTAL MINOR HOURS: 15

<http://www.ugs.usf.edu/academic/lminor.htm>

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.

### Minor Core (9 hours)

LDR 2010	Fundamentals of Leadership or LDR 3331 Leading in the Workplace
LDR 4104	Theories of Leadership
LDR 4951	Leadership Capstone Seminar (course to be taken as last course required for the minor)

### Minor Electives (6 hours)

One course must be taken from each of the following Dimensions of Leadership:

#### PERSONAL DIMENSIONS OF LEADERSHIP (at least one course for 3 credits)

LDR 4114	Survey of Leadership
LDR 4564	Images of Leadership in the Media
LDR 4204	Ethics and Power in Leadership
LDR 3115	Contemporary Issues in Leadership

#### GLOBAL AND ORGANIZATIONAL DIMENSIONS OF LEADERSHIP (at least one course for 3 credits)

LDR 3263	Community Leadership Practicum
LDR 3280	Leadership in the Political Context
LDR 4164	Organizational Theories and Processes
LDR 4230	Global Leadership
LDR 3216	Leadership and Social Change
COM 3120	Organizational Communication

### Grading Requirement

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A minimum grade of "C (not C-)" or better in each course is required.

## Advising Information

**Location/Phone:** SVC 2002; (813) 974-4051; Contact: Cynthia Brown Hernandez (cynthiab@usf.edu).

## REQUIREMENTS FOR THE MINOR IN MILITARY SCIENCE (MTY)

**TOTAL MINOR HOURS: 18**

<http://www.ugs.usf.edu/academic/rotc.htm>

The Military Science 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.

### 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.

## REQUIREMENTS FOR THE MINOR IN NAVAL SCIENCE AND LEADERSHIP (NSL)

**TOTAL MINOR HOURS: 18**

<http://www.ugs.usf.edu/academic/rotc.htm>

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.

### Minor Core (12 hours)

NSC 1110	Introduction to Naval Science
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# UNDERGRADUATE STUDIES

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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 22201	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.

# General Course Information

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

## Florida's Statewide Course Numbering System

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System (SCNS). This numbering system is used by all public postsecondary institutions in Florida and 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 the online SCNS to obtain course descriptions and specific information about course transfer between participating Florida institutions. This information is at the SCNS website at <http://scns.fldoe.org>.

Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have a meaning in the 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

Prefix	Level Code (first digit)	Century Digit (second digit)	Decade Digit (third digit)	Unit Digit (fourth digit)	Lab Code
<b>ENC</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>	
English Composition	Lower (Freshman) Level at this institution	Freshman Composition	Freshman Composition Skills	Freshman Composition Skills I	No laboratory component in this course

### General Rule for Course Equivalencies

Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions, as listed below in *Exceptions to the General Rule for Equivalency*.

For example, a freshman composition skills course is offered by 84 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 is 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. 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.

### The Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or subcategory of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix to identify the course.

# General Course Information

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UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

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## Authority for Acceptance of Equivalent Courses

Section 1007.24(7), Florida Statutes, states:

Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students.

## Exceptions to the General Rule for Equivalency

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. Transferability is at the discretion of the receiving institution.

- A. Courses not offered by the receiving institution.
- B. For courses at non-regionally accredited institutions, courses offered prior to the established transfer date of the course in question.
- C. 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.
- D. Applied academics for adult education courses.
- E. Graduate courses.
- F. Internships, apprenticeships, practica, clinical experiences, and study abroad courses with numbers other than those ranging from 900-999.
- G. 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.).

## Courses at Non-Regionally Accredited Institutions

The SCNS makes available on its home page (<http://scns.fldoe.org>) a report entitled "Courses at Non-regionally Accredited Institutions" that contains a comprehensive listing of all nonpublic institution courses in the SCNS inventory, as well as each course's transfer level and transfer effective date. This report is updated monthly.

Questions about the SCNS and appeals regarding course credit transfer decisions should be directed to Cynthia Brown Hernandez, the USF System SCNS contact, located in the USF Student Services Building (SVC), Room 2002, phone: 4-4051 or via email at [cynthiab@usf.edu](mailto:cynthiab@usf.edu) or to the Florida Department of Education, Office of Articulation, 1401 Turlington Building, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling the SCNS office at (850) 245-0427 or at <http://scns.fldoe.org>.

# General Course Information

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## UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

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Courses offered for credit by the University of South Florida are listed on the following pages by alphabetical order by college and subject area. The first line of each description includes the State Common Course prefix and number (see below), title of the course, and number of credits.

Credits separated by commas indicate unified courses offered in different semesters:

**AMH 2010, 2020 AMERICAN HISTORY I, II (3, 3)**

Credits separated by a hyphen indicate variable credit:

**HUM 4905 DIRECTED RESEARCH (1-5)**

The abbreviation "var." also indicates variable credit:

**MAT 7912 DIRECTED RESEARCH (var.)**

The following abbreviations are utilized in various course descriptions:

<b>PR</b>	Prerequisite
<b>CI</b>	With the consent of the instructor
<b>CC</b>	With the consent of the chairperson of the department or program
<b>CP</b>	Co-prerequisite
<b>CR</b>	Co-requisite
<b>DPR</b>	Departmental Permit Required
<b>S/U</b>	S/U Grade System
<b>Lec</b>	Lecture
<b>Lab</b>	Laboratory

### SPECIAL INFORMATION COURSE CODES

**6A** Courses to satisfy Rule 6A (Gordon Rule)

**GENERAL EDUCATION CORE REQUIREMENTS** – for students graduating under the 2015-2016 and subsequent USF Undergraduate Catalogs:

<b>SGEC</b>	General Education Core Communication
<b>SGEH</b>	General Education Core Humanities
<b>SGEM</b>	General Education Core Mathematics
<b>SGEN</b>	General Education Core Natural Sciences
<b>SGES</b>	General Education Core Social Sciences

**FOUNDATIONS OF KNOWLEDGE AND LEARNING CORE CURRICULUM REQUIREMENTS** – for students graduating under the 2009-2010 and subsequent USF Undergraduate Catalogs:

<b>CAEC</b>	English Composition
<b>CAFA</b>	Fine Arts
<b>CAGC</b>	Human & Cultural Diversity in a Global Context
<b>CAHU</b>	Humanities
<b>CAMA</b>	Mathematics
<b>CANL</b>	Natural Sciences (Life Science)
<b>CANP</b>	Natural Sciences (Physical Science)
<b>CAQR</b>	Quantitative Reasoning
<b>CASB</b>	Social & Behavioral Sciences
<b>HHCP</b>	Human Historical Context & Process

**EXIT REQUIREMENTS** – for students graduating under the 2009-2010 and subsequent USF Undergraduate Catalogs:

<b>CPST</b>	Capstone Learning Experience – 3 credits and
<b>WRIN</b>	Writing Intensive Capstone – 3 credits

### Five-Year Course Deletion Rule

In compliance with State of Florida Department of Education rule 6A-10.0331, USF undergraduate courses not taught for five years, or fewer if desired, are deleted from the Undergraduate Catalog.

**The University reserves the right to substitute, not offer, or add courses that are listed in this catalog.**



# General Course Information

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

## COURSE LEVEL DEFINITION

**Lower Level:**  
1000-1999 Freshman Level  
2000-2999 Sophomore Level

**Upper Level:**  
3000-3999 Junior Level  
4000-4999 Senior Level

**Graduate Level:**  
5000-5999 Senior/Graduate  
Level  
6000-Up Graduate Level

### Alphabetical Listing of Majors and Departments

Major	Common Course Prefixes					College/Department
Accounting	ACG	TAX				Business/Accountancy
Advertising	ADV	MAR				Business/Marketing
Africana Studies	PHM ISS	AFA LAS	AFH	AFS	AMS	Arts & Sciences/Africana Studies
American Studies	AMS	CLA	FIL	HUM		Arts & Sciences/Humanities & Cultural Studies
Anthropology	ANG	ANT				Arts & Sciences/Anthropology
Applied Science						Undergraduate Studies
Art History	ARE IDS	ARH PGY	ART	FIL	GRA	The Arts/Art and Art History
Behavioral Healthcare	IDS	MHS				Behavioral & Community Sciences/Mental Health Law & Policy
Biomedical Sciences	BCH	CHM	CHS	ISC	MLS	Arts & Sciences/Chemistry
Cell & Molecular Biology	BOT	BSC	MCB	PCB	ZOO	Arts & Sciences/CMMB
Chemical Engineering	BME	ECH	EMA	EVR		Engineering/Chemical & Biomedical Engineering
Chemistry	BCH	CHM	CHS	ISC	MLS	Arts & Sciences/Chemistry
Civil Engineering	BME CWR ENV	CCE EES SUR	CEG EGM TTE	CES EGN	CGN EMA	Engineering/Civil and Environmental Engineering
Classics-Latin & Greek	GRE	LAT				Arts & Sciences/World Languages
Communication	COM	ORI	SED	SPC	SYA	Arts & Sciences/Communication
Communication Sciences & Disorders	ASL	INT	SPA			Behavioral & Community Sciences/Communication Sciences and Disorders
Computer Engineering	CAP CNT EIN	CDA COP ETG	CEN COT ETI	CGS CTS	CIS EEL	Engineering/Computer Science and Engineering
Computer Science	CAP CNT EIN	CDA COP ETG	CEN COT ETI	CGS CTS	CIS EEL	Engineering/Computer Science and Engineering
Criminology	CCJ	CJC	CJE	CJL		Behavioral & Community Sciences/Criminology
Dance	DAA	DAE	DAN			The Arts/Theatre and Dance
Early Childhood Education	EDE RED	EDG	EDH	EEC	LAE	Education/Teaching and Learning
Economics	ECO	ECP	ECS			Arts & Sciences/Economics
Electrical Engineering	EEE	EEL				Engineering/Electrical Engineering
Elementary Education	EDE RED	EDG	EDH	EEC	LAE	Education/Teaching and Learning
English	AML LAE	CRW LIN	ENC LIT	ENG REA	ENL	Arts & Sciences/English
English Education with ESOL Endorsement	EDE RED	EDG	EDH	EEC	LAE	Education/Teaching and Learning

# General Course Information

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Environmental Biology	BOT ZOO	BSC	ENY	MCB	PCB	Arts & Sciences/Integrative Biology
Environmental Microbiology	BOT ZOO	BSC	ENY	MCB	PCB	Arts & Sciences/Integrative Biology
Environmental Science & Policy	EVR	GEO	GIS			Arts & Sciences/Geosciences
Exceptional Child Education with ESOL& Reading Endorsement	EDE RED	EDG	EDH	EEC	LAE	Education/Teaching and Learning
Finance	FIN	REE				Business/Finance
Foreign Language Education with ESOL & Reading Endorsement	EDM MAE SSE	EME MAT TSL	ESE RED	FLE SCE	LAE SLA	Education/Teaching and Learning
French	FRE	FRT	FRW			Arts & Sciences/World Languages
General Business Administration	GEB					Business/Information Systems Decision Sciences
General Studies						Undergraduate Studies
Geography	GEA	GEO	GIS	MET	URP	Arts & Sciences/Geosciences
Geology	ESC	GLY				Arts & Sciences/Geosciences
German Studies	GER	GET	GEW			Arts & Sciences/World Languages
Gerontology	DEP	GEY	MHS			Behavioral & Community Sciences/Aging Studies
Health Science	HSC	PAD	URP	URS		Arts & Sciences/Public Affairs
History	AMH WOH	ASH	EUH	HIS	LAH	Arts & Sciences/History
Humanities	AMS	CLA	FIL	HUM		Arts & Sciences/Humanities and Cultural Studies
Industrial Engineering	EIN	ESI				Engineering/Industrial & Management Systems Engineering
Information Studies	CIS	LIS	MAN			Arts & Sciences/Information
Information Technology	CAP	CGS	CIS			Engineering/Information Technology
Integrative Animal Biology	BOT ZOO	BSC	ENY	MCB	PCB	Arts & Sciences/Integrative Biology
Interdisciplinary Classical Civilizations	CLA					Arts & Sciences/ World Languages
Interdisciplinary Natural Sciences	BCH	CHM	CHS	ISC	MLS	Arts & Sciences/Chemistry
Interdisciplinary Social Sciences	ISS	STA				Arts & Sciences/Sociology
International Business						Business/Information Systems Decision Sciences
International Studies	ASN POS	CPO POT	EUS PUP	INR	LAS	Arts & Sciences/Government and International Affairs
Italian	ITA	ITT	ITW			Arts & Sciences/World Languages
Long Term Care Administration	DEP	GEY	MHS			Behavioral and Community Science/Aging Studies
Management	GEB	MAN				Business/Information Systems Decision Sciences
Management Information Systems	CGS	GEB	ISM	MAN	QMB	Business/Information Systems Decision Sciences
Marine Biology	BOT ZOO	BSC	ENY	MCB	PCB	Arts & Sciences/Integrative Biology
Marketing	ENT	GEB	MAN	MAR	SPB	Business/Marketing
Mass Communications	ADV PUR	FIL RTV	JOU VIC	MMC	PGY	Arts & Sciences/Mass Communications
Mathematics	COP MAS STA	MAA MAT	MAC MGF	MAD MHF	MAP MTG	Arts & Sciences/Mathematics and Statistics

# General Course Information

UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG

Mathematics Education	EDM MAE SSE	EME MAT TSL	ESE RED	FLE SCE	LAE SLA	Education/Teaching and Learning
Mechanical Engineering	BME	EAS	EML	OSE		Engineering/Mechanical Engineering
Medical Technology	BCH	CHM	CHS	ISC	MLS	Arts & Sciences/Chemistry
Microbiology	BOT	BSC	MCB	PCB	ZOO	Arts & Sciences/CMMB
Music Education	MUC MUN MVJ MVW	MUE MUO MVK	MUG MUS MVP	MUH MUT MVS	MUL MVB MVV	The Arts/Music
Music Performance	MUC MUN MVJ MVW	MUE MUO MVK	MUG MUS MVP	MUH MUT MVS	MUL MVB MVV	The Arts/Music
Music Studies	MUC MUN MVJ MVW	MUE MUO MVK	MUG MUS MVP	MUH MUT MVS	MUL MVB MVV	The Arts/Music
Nursing: VCARE, RN to Bachelor's Sequence, Second Bachelor's Degree Sequence, Upper Division Sequence	BSC NUR	HUN	MCB	NGR	NSP	Nursing/Nursing
Philosophy	PHH	PHI	PHM	PHP		Arts & Sciences/Philosophy
Physical Education	APK PEM	ATR PEN	HLP PET	HSC SPM	PEL	Education/Teaching and Learning
Physics	AST	PHY	PHZ	PSC		Arts & Sciences/Physics
Political Science	ASN POS	CPO POT	EUS PUP	INR	LAS	Arts & Sciences/Government and International Affairs
Psychology	CBH INP	CLP PPE	DEP PSB	EAB PSY	EXP SOP	Arts & Sciences/Psychology
Public Health	HSC	PHC				Public Health/Public Health
Religious Studies	GRE	REL	RLG			Arts & Sciences/Religious Studies
Russian	RUS	RUT				Arts & Sciences/World Languages
Science Education	EDM MAE SSE	EME MAT TSL	ESE RED	FLE SCE	LAE SLA	Education/Teaching and Learning
Social Science Education	EDM MAE SSE	EME MAT TSL	ESE RED	FLE SCE	LAE SLA	Education/Teaching and Learning
Social Work	SOW					Behavioral & Community Sciences/Social Work
Sociology	SYA	SYD	SYG	SYO	SYP	Arts & Sciences/Sociology
Spanish	SPN	SPT	SPW			Arts & Sciences/World Languages
Statistics	MAC	MAP	MAS	STA		Arts & Sciences/Mathematics and Statistics
Studio Art	ARE IDS	ARH PGY	ART	FIL	GRA	The Arts/Art and Art History
Theatre	THE	TPA	TPP			The Arts/Theatre and Dance
Women's & Gender Studies	POS	PUP	SOP	WST		Arts & Sciences/Women's and Gender Studies

# COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

**ACG 2021 Principles of Financial Accounting (3)  
BA ACC**

Study of basic accounting principles including the recording and reporting of financial activity. The preparation and interpretation of financial statements.

**ACG 2071 Principles of Managerial Accounting (3)  
BA ACC**

PR: ACG 2021 with a grade of C- or better  
A study of the accountant's role in assisting management in the planning and controlling of business activities.

**ACG 3074 Managerial Accounting for Non-Business Majors (3) BA ACC**

The study of the uses of accounting data internally by managers in planning and controlling the affairs of organizations.

**ACG 3103 Intermediate Financial Accounting I (3)  
BA ACC**

PR: ACG 2021 and ACG 2071, with a grade of C or better, not C-  
CR: ACG 3341, with a grade of C or better, not C-  
Theory and methodology underlying financial reporting, including the FASB's conceptual framework, the accounting process, financial statements, accounting changes, present value applications, and current assets.

**ACG 3113 Intermediate Financial Accounting II (3)  
BA ACC**

PR: ACG 3103 and ACG 3341, with a grade of C or better, not C-  
Continuation of ACG 3103. Topics covered include property, plant and equipment, intangibles, current liabilities, long-term debt, leases, tax allocation, statement of cash flows.

**ACG 3341 Cost Accounting and Control I (3) BA ACC**

PR: ACG 2021 and ACG 2071 with a grade of C or better, not C-  
CR: ACG 3103, with a grade of C or better, not C-  
Deals with cost accounting systems for different entities, cost behavior patterns, cost-volume-profit analysis, relevant information for decision making, and budgets and standard costs for planning and control.

**ACG 3401 Accounting Information Systems (3) BA ACC**

PR: ACG 3103 and ACG 3341, with a grade of C or better, not C-  
This course provides students with a basic understanding of well-controlled information systems in a variety of technological environments with added emphasis on the collection, processing, and reporting of accounting information.

**ACG 4123 Intermediate Financial Accounting III (3)  
BA ACC**

PR: ACG 3113 with a grade of C or better, not C-  
Theory and practice underlying stockholders' equity, dilutive securities and EPS, derivatives, revenue recognition, post-retirement benefits,

error analysis, full disclosure, and other current accounting topics.

**ACG 4351 Cost Accounting And Control II (3) BA ACC**

PR: ACG 3103 and ACG 3341 with a grade of C or better, not C-

Application of the material covered in ACG 3341 with specific emphasis on cost allocations, performance measurements, analysis of current cost accounting systems and accounting in today's environment (giving consideration to the influences of the international environment).

**ACG 4632 Auditing I (3) BA ACC**

PR: ACG 3113 and ACG 3401

This course provides a sound conceptual foundation of basic auditing process from the perspective of the public accounting profession. Professional standards, ethics, legal responsibilities, and the utilization of technology are addressed.

**ACG 4642 Auditing II (3) BA ACC**

PR: ACG 4632 with a grade of C or better, not C-  
Further development of material covered in ACG 4632, with special emphasis on additional reporting topics and audit techniques not previously addressed.

**ACG 4901 Independent Study (1-3) BA ACC**

Specialized independent study determined by the students' needs and interests.

**ACG 4911 Independent Research (1-4) BA ACC**

Individual study contract with instructor and director required. The research project will be mutually determined by the student and instructor.

**ACG 4931 Selected Topics In Accounting (1-3) BA ACC**

The course content will depend on student demand and instructor's interest.

**ACG 4940 Accounting Internship (3) BA ACC**

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.

**ACG 4970 Accounting Honors Thesis (3) BA ACC**

This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to develop explanations or solutions to academically interesting business problems or opportunities.

**ACG 5007 MBA Essentials: Accounting (0) BA GBA**

A survey course related to both financial accounting and managerial accounting. An examination of accounting concepts for presentation of financial information to interested users as well as information generated for internal management.

**ACG 5205 Advanced Financial Accounting (3) BA ACC**

PR: ACG 3113

# COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

Accounting for business combinations, preparation of consolidated financial statements, home office/branch relationships, foreign operations and transactions, partnerships.

## **ACG 5505 Governmental/Not-For-Profit**

### **Accounting (3) BA ACC**

PR: ACG 3113

CR: ACG 4632

Application of financial and managerial accounting, and auditing, principles and theory to both governmental and not-for-profit entities.

## **ACG 5675 Internal and Operational Auditing (3)**

### **BA ACC**

PR: ACG 3113 and ACG 3401

CR: ACG 4632

The objective of Internal and Operational Auditing is to provide students with an opportunity to learn about the theory and practice of internal and operational auditing and to apply relevant audit principles and techniques to selected audit problems.

## **ADE 4384 Working With the Adult Learner (3) ED EDV**

An investigation of the needs of the adult learner. Identification of principles of adult learning; physiological, psychological, and social characteristics of adult learners, and corresponding implications are explored.

## **ADV 3008 Introduction to Advertising (3) AS COM**

PR: MMC 2100 and MMC 3602

A study of the structures, functions, and persuasive language of advertising in mass media with attention to social, political, economic, and legal aspects.

## **ADV 3101 Advertising Creativity (3) AS COM**

PR: ADV 3008 and ECO 1000

Study of copywriting and art direction in the creation of advertising messages for alternative media platforms. Restricted to majors only.

## **ADV 3200 Advertising Design (3) AS COM**

PR: ADV 3008 (for advertising sequence majors) or VIC 3001 (for other Mass Comm majors)

Application of graphic design principles to various areas of advertising. Combining visual and verbal elements effectively.

## **ADV 3300 Advertising Media Strategy (3) AS COM**

PR: ADV 3008 and ECO 1000

Problems, techniques, strategy of media research, planning, budgeting and effective utilization in advertising.

## **ADV 3500 Advertising Research (3) AS COM**

PR: ADV 3008

Overview of scientific research methods as used in advertising. Emphasis on the acquisition, analysis, and evaluation of primary and secondary data, and the principles of survey and experimental research.

## **ADV 4204 Advanced Advertising Creativity (3) AS COM**

PR: ADV 3101, ADV 3300, ADV 3500, ADV 4600, ECO 1000, MAR 3023

Focused on producing advertising messages, the curriculum integrates: ethics, branding, consumer insight, message strategy, concepting, persuasion, copywriting, design, and presentations. Students learn to execute effective advertising messages.

## **ADV 4301 Advanced Media Strategy (3) AS COM**

PR: ADV 3101, ADV 3300, ADV 3500, ADV 4600, ECO 1000, MAR 3023

Emphasizing decision making and critical thinking, this advanced course prepares students for the complexities of advertising media planning, implementation, and evaluation.

## **ADV 4310 Digital Media (3) AS COM**

PR: ADV 3101, ADV 3300, ADV 3500, ADV 4600, ECO 1000, MAR 3023

This course focuses on the impact of new communication technologies on consumer behavior and advertising practice. Students will learn the nature of digital media options and how to incorporate them into advertising planning.

## **ADV 4600 Advertising Management (3) AS COM**

PR: ADV 3008, ADV 3101, ADV 3300

Application of analytical planning concepts to advertising planning and decision-making. Case study method used to explore advertising and promotional programs; media and creative strategies; consumer, retail, industrial, and public service applications.

## **ADV 4710 Portfolio Building (3) AS COM**

PR: ADV 3101, ADV 3300, ADV 3500, ADV 4600, ECO 1000, MAR 3023

This course goes beyond the basics of copy and layout to develop a broader understanding of the creative advertising process. It stresses creativity and organizational ability in portfolio building, along with technical skills in portfolio production.

## **ADV 4800 Advertising Campaigns (3) AS COM**

PR: ADV 3101, ADV 3300, ADV 3500, ECO 1000, 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 Practicum (1) AS COM**

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) AS COM**

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.

## **AFA 2000 Introduction to the Black Experience [In Africa and Its Diaspora] CASB 6AC (3) AS AFA**

# COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

Fundamental perspectives on the nature and significance of the Black Experience in Africa and black communities in the Americas.

**AFA 2380 History and Theory of Genocide CAGC (3) AS AFA**

This course examines the concept of genocide; its origins in human history and the evolution of international law aimed at defining and criminalizing genocide.

**AFA 4150 Africa and the United States 6AC (3) AS AFA**

An examination of the historical and current political, economic, and cultural relations between the United States and Africa.

**AFA 4335 Black Women in America CPST 6AC (3) AS AFA**

An interdisciplinary survey of the contemporary experience of black women in America, including the African roots, myths, and realities surrounding that experience.

**AFA 4350 African American Community Research (3) AS AFA**

This interactive, field experience course introduces students to active and applied research methodologies and the uses of this research in Black urban communities.

**AFA 4430 Afro-Diasporic Literature and Political Movements CPST HHCP (3) AS AFA**

The course studies the literary and socio-political movements of the Black Diaspora, dating from the 19th to the 20th century. Centered within a diasporic approach, it offers a comparative examination of literary, historical, and theoretical works.

**AFA 4500 Slavery in the Americas and the Caribbean (3) AS AFA**

This course examines the institution of enslavement in North, South, and Central America, and the Caribbean. It takes an interdisciplinary approach in exploring the social, political, and economic underpinnings of slavery.

**AFA 4900 Directed Readings (2-3) AS AFA**

Independent readings in a particular area of African and African American Studies, selected by student and instructor.

**AFA 4931 Selected Topics in Africana Studies (1-3) AS AFA**

Topics offered are selected to reflect student needs and faculty interests. In depth study in such areas as the Black Student and the American Educational Process; the Black Experience in the Americas; European Expansion in Africa to 19th century; Contemporary Economic Problems in Africa.

**AFH 3100 African History to 1850 CAHU HHCP (3) AS AFA**

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.

**AFH 3200 African History since 1850 CAHU HHCP (3) AS AFA**

Introductory survey of the history of Africa since 1850. Course looks at the state of the African continent in 1850 and the local and global factors that have shaped Africa's history since that time.

**AFR 1101 The Foundation of the United States Air Force Pt 1 (1) US AFR**

Intro Air Force Reserve Officer Training Corps (AFROTC) & US Air Force (USAF) includes lessons in officership/professionalism and an intro to communication skills. AFR 2001 Lead Lab augments course providing followership and leadership experiences.

**AFR 1120 The Foundations of the United States Air Force Pt 2 (1) US AFR**

A study of Air Force installations, Core Values, Leadership, Team Building, and Diversity within Armed Forces. AFR 2001 Lead Lab augments course providing followership and leadership experiences, utilizing leadership and management principles.

**AFR 1903 Directed Independent Studies (1-4) US AFR**

Directed Independent Study.

**AFR 2001 Air Force ROTC Leadership Laboratory (0) US AFR**

Leadership Laboratory is required for each of the Aerospace Studies courses. It meets one hour and 45 minutes per week. Instruction is conducted within the framework of an organized cadet corps with a progression of experiences designed to develop each student's leadership potential. Leadership Laboratory involves a study of Air Force customs and courtesies; drill and ceremonies; career opportunities in the Air Force; and the life and work of an Air Force junior officer. Students develop their leadership potential in a practical laboratory, which typically includes field trips to Air Force installations.

**AFR 2130 Evolution of USAF Air and Space Power, Part I (1) US AFR**

CR: AFR 2001

A study of air power from balloons and dirigibles through the jet age. Emphasis is on the employment of air power in WWI and WWII and how it affected the evolution of air power concepts and doctrine.

**AFR 2140 Evolution of USAF Air and Space Power, Part II (1) US AFR**

CR: AFR 2001

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.

**AFR 3220 Air Force Management and Leadership I (3) US AFR**

CR: AFR 2001

An integrated management course emphasizing the individual as a manager in an Air Force milieu. The individual motivational and behavioral

# COURSE DESCRIPTIONS

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- 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.
- AFR 3231 Air Force Management and Leadership II (3) US AFR**  
CR: AFR 2001  
A continuation of the study of Air Force advancement and leadership. Concentration is on organizational and personal values, management of forces in change, organizational power, politics, and managerial strategy and tactics are discussed within the context of the military organization. Actual Air Force cases are used to enhance the learning and communication processes.
- AFR 4201 National Security Affairs & Preparation for Active Duty I (3) US AFR**  
CR: AFR 2001  
Examines national sec proc, regional studies, adv leadership ethics, AF doctrine with concentration on military as profession, communication/officership/mil justice/civil control of mil/prep for active duty, current issues affecting military professionalism.
- AFR 4211 National Security Affairs & Preparation for Active Duty II (3) US AFR**  
CR: AFR 2001  
Cont study national sec proc, reg studies, adv leader ethics, & AF doct. Spec topics include reg stud Europe, Mid East, Russia (former Soviet Republics), perform feedback, effective performance report writing, enl/off eval sys, ops risk mngmt to prep students for active duty.
- AFS 2250 Culture and Society in Africa 6AC (3) AS AFA**  
Topics include: African religion, value systems, art and the aesthetics, family and life-cycle, impact of Islam and Christianity and conflict of cultures.
- AFS 3251 Environmental - Cultural Study in Africa (3) AS AFA**  
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) AS AFA**  
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 CAHU HHCP (3) AS HTY**  
This class is an introductory survey of American history from Columbus and "First Contact" to Reconstruction.
- AMH 2020 American History II CASB HHCP SGES (3) AS HTY**  
A history of the United States with attention given to relevant developments in the Western Hemisphere from 1877 to the present.
- AMH 3110 American Colonial History to 1750 (3) AS HTY**  
A study of the evolution of American society from the Age of Reconnaissance to 1750. Attention is given to the transformation from colonies to provinces with emphasis on ethnocultural conflict, religion, labor systems, and political culture.
- AMH 3130 The American Revolutionary Era (3) AS HTY**  
Emphasis on the causes of the American revolution, the nature of Constitution-making, and the establishment of the federal system. Also examines the significance of loyalism, violence, and slavery in American society from 1750-1789.
- AMH 3140 The Age of Jefferson (3) AS HTY**  
A comprehensive study of American society and political culture from 1789-1828. Focuses on demographic trends, party systems, expansionism, Indian policy, labor, and ethno-cultural conflicts.
- AMH 3160 The Age of Jackson (3) AS HTY**  
The United States from 1828-1850, with emphasis on social and political conflict. Consideration of evangelicalism, reform, labor movements, urbanization, and political activity in the antebellum era.
- AMH 3170 The Civil War and Reconstruction (3) AS HTY**  
An examination of political, social, and economic climate of the 1850's that led to the American Civil War. The course does focus upon the war itself in its military, diplomatic, and political consequences through the end of the Reconstruction (1877).
- AMH 3201 The United States, 1877-1914 (3) AS HTY**  
A study of America from the end of Reconstruction to World War I. Ranging over political, social, and international developments, the course covers industrialization, immigration, unions, reform, feminism, race relations and imperialism.
- AMH 3231 The United States, 1914-1945 (3) AS HTY**  
The United States from World War I to the end of World War II. Covering political, social and international developments, the course examines the lives of Americans, including minorities and women, during war, prosperity, and the Great Depression.
- AMH 3270 The United States since 1945 (3) AS HTY**  
A study of America's role in the Cold War, in Vietnam, and in the post-Cold War era. Also examines domestic developments, such as the

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consumer culture, protest movements, and abuses of political power.

## **AMH 3342 Globalization and U.S. Culture (3) AS HTY**

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) AS HTY**

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) AS HTY**

The history of the U.S. South from European exploration to the Civil War. Topics covered include: slavery, black culture and resistance, agrarianism, women and gender, honor culture, the pro-slavery argument, sectionalism, and the Civil War.

## **AMH 3403 The South since 1865 (3) AS HTY**

Southern history since the surrender at Appomattox. Topics covered include Reconstruction, the Populist revolt, race relations, demagoguery and disfranchisement, Southern women, and the Civil Rights Movement.

## **AMH 3421 Early Florida (3) AS HTY**

A history of colonial Florida under the Spanish and English. Florida as an area of discovery, colonization, and imperial conflict; the emergence of Florida within the regional setting.

## **AMH 3423 Modern Florida (3) AS HTY**

An historical survey of Florida from the territorial period to the modern era. An examination of the social, political, and economic changes occurring in Florida between 1821 and the 1980s.

## **AMH 3500 American Labor History (3) AS HTY**

A study of American workers from the colonial period to the present. Examines the changing nature of work, its effects on workers (including minorities and women), and their responses as expressed in strikes, unions, and political action.

## **AMH 3512 U.S. Foreign Relations (3) AS HTY**

U.S. relations with the world, 1776-present. Includes diplomatic, economic, cultural, and military relations. The course also examines immigration and other global influences on U.S. domestic history and analyzes changes in internationalist thought.

## **AMH 3530 Immigration History (3) AS HTY**

A study of the composition and character of the "American" people with emphasis on the period from 1840s to the 1920s. Examines old world backgrounds of immigrants and their responses to the new world's social, economic and political conditions.

## **AMH 3545 War and American Empire (3) AS HTY**

The U.S. evolved in 200 years from 13 colonies to the number one power in the world. To achieve this goal we utilized war to achieve empire. This course will examine the link between American War and empire from the Revolution through Viet Nam.

## **AMH 3561 American Women I (3) AS HTY**

A study of women in the evolution of American society from European origins to 1877. Women's roles in the family, economy, politics, wars, and reform movements will be examined.

## **AMH 3562 American Women II (3) AS HTY**

A study of women in the evolution of American society from 1877 to the present. Women's roles in the family, economy, politics, immigration, wars, religion and reform movements will be examined.

## **AMH 3571 African American History to 1865 CAHU HHCP (3) AS AFA**

This course surveys the history of people of African-descent in the U.S. from the beginning of the Atlantic Slave Trade to 1865. Major topics include the rise & fall of slavery, ethnic & racial identities, resistance, gender, culture, and community.

## **AMH 3572 African American History since 1865 CAHU HHCP (3) AS AFA**

This course explores the history of African Americans since 1865. Major topics include the struggle for equality, class and gender dimensions of the Black freedom struggle, and the varied approaches in the fight against oppression and inequality.

## **AMH 3630 American Environmental History (3) AS HTY**

History of the American Environment and the ways in which different cultural groups have perceived, used, managed and conserved it, from Colonial times to present.

## **AMH 4940 Early American History and Archaeology (6) AS HTY**

This course is a five week long summer practicum in early American historical archaeology. The class brings together historical research, material culture studies, and historical archaeology methods within a professional historical archaeology setting.

## **AML 3031 American Literature From the Beginnings to 1860 (3) AS ENG**

A study of representative works from the period of early settlement through American Romanticism, with emphasis on such writers as Cooper, Irving, Bryant, Hawthorne, Emerson, Melville, Thoreau, and Poe, among others.

## **AML 3032 American Literature From 1860 to 1912 (3) AS ENG**

A study of representative works of selected American Realists and early Naturalists, among them Whitman, Dickinson, Twain, James, Howells, Crane, Dreiser, Wharton, Robinson, Dunbar, and Johnson.



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**AML 3051 American Literature From 1912-1945 (3) AS ENG**

A study of poetry, drama, and fiction by such writers as Pound, Stein, Fitzgerald, Hemingway, Faulkner, Porter, Toomer, Cummings, Williams, Anderson, Steinbeck, Wright, West, Stevens, Henry Miller, and others.

**AML 3413 Historical Perspectives in Early American Literature (3) AS ENG**

Examines American literature from the Colonial Period to the Civil War as a manifestation of geographical, political, social, and intellectual forces. Will not be counted toward the English major.

**AML 3604 African American Literature WRIN 6AC (3) AS ENG**

A study of black American literature from the nineteenth century to the present, including the works of such writers as W.E.B. DuBois, Jean Toomer, Langston Hughes, Richard Wright, Ralph Ellison, LeRoi Jones, and Nikki Giovanni.

**AML 3630 U.S. Latino/Latina Literature in English (3) AS ENG**

PR: ENC 1101 and ENC 1102  
This 3000-level literature course surveys American English literature by Latino/Latina writers (with Spanish American ancestry). Authors may include Piri Thomas, Sandra Cisneros, Esmeralda Santiago, Luis Valdéz, Tomás Rivera, Oscar Hijuelos, etc.

**AML 4111 Nineteenth-Century American Novel (3) AS ENG**

A study of the American novel from its beginnings through 1900, including such novelists as Cooper, Hawthorne, Melville, James, Twain, Crane, and Dreiser, among others.

**AML 4121 Twentieth-Century American Novel (3) AS ENG**

A study of major trends and influences in American prose fiction from 1900 to the present, including works by such writers as Hemingway, London, Wharton, Fitzgerald, Faulkner, West, Mailer, Bellow, Ellison, Donleavy, Updike, Vonnegut, and others.

**AML 4261 Literature of the South (3) AS ENG**

A study of the major writers of the Southern Renaissance, including writers such as Faulkner, Wolfe, Caldwell, Hellman, McCullers, O'Connor, Warren, Styron, Tate, Davidson, and Dickey.

**AML 4300 Selected American Authors (3) AS ENG**

The study of two or three related major authors in American literature. The course may include such writers as Melville and Hawthorne, Hemingway and Faulkner, James and Twain, Pound and Eliot, Stevens and Lowell, etc. Specific topics will vary. May be taken twice for credit with different topics.

**AML 4624 Black Women Writers 6AC (3) AS AFA**

Black women writers focuses on the literature of women of Africa and the African Diaspora. It examines the social, historical, artistic, political,

economic, and spiritual lives of Africana women in context of a global community.

**AMS 2030 Introduction to American Studies CAHU HHCP (3) AS HCS**

An overview of American Studies, the interdisciplinary study of American culture. Analysis of the arts and literature, including music; social issues; popular culture; material culture; cultural diversity; and social change.

**AMS 2201 Colonial American Culture (3) AS HCS**

An examination of cultural patterns in America as they developed between 1600 and 1780 with an emphasis on the texture of everyday life.

**AMS 2270 Twentieth-Century American Culture CAHU HHCP (3) AS HCS**

An examination of cultural patterns in America from 1900 to the present with emphasis on the texture of everyday life.

**AMS 2363 Issues in American Civilization (1-3) AS HCS**

An examination of selected topics such as natural environment and the quality of life, sports and American society, popular music, American communities, vigilante tradition, jazz music, role of the family, American success myth, youth in America. Topic varies.

**AMS 3001 American Culture 1880-1915 6AC (3) AS HCS**

Integration of major aspects of American life between the 1880s and World War I.

**AMS 3212 Nineteenth-century American Culture (3) AS HCS**

An examination of cultural patterns in America from 1776 to 1900 with an emphasis on the texture of everyday life.

**AMS 3230 America During the 1920s and 1930s 6AC (3) AS HCS**

Course provides an interdisciplinary examination of American culture during the turbulent interwar years, 1919 through 1941. Students will examine how the arts, advertising, fashion, and social behavior registered changing cultural values.

**AMS 3260 American Culture, 1830-1860 6AC (3) AS HCS**

Examines the patterns of American culture in the years leading up to the Civil War. Topics include religion and social reform, race relations, and the impact of industrialization.

**AMS 3302 Architecture and the American Environment (3) AS HCS**

By means of slides, lectures and discussion, this course examines 350 years of American architectural history. Architectural styles, aesthetics and the relation between a building and its social environment are stressed.

**AMS 3370 Southern Women: Myth and Reality WRIN 6AC (3) AS HCS**

This course will identify the myths surrounding Southern women, discern their sources and purposes, and contrast them with history.

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**AMS 3601 Material Culture and American Society (3) AS HCS**

By means of slides, lectures and student projects, examines connections between artifacts and American cultural attitudes from 17th century to present. Topics include: architecture, furniture, gravestones, toys, and the material subcultures of women, African-Americans and communal societies.

**AMS 3605 Working Class Culture in America CPST (3) AS HCS**

An interdisciplinary examination of the cultural identity of American working class families from WWII to present.

**AMS 3615 Film & American Society WRIN 6AC (3) AS HCS**

This course offers a broad introduction to American cinema history. Exploring the aesthetic and ideological consequences of a variety of genres and modes, it also asks how individual films engage historically specific socioeconomic and cultural context.

**AMS 3700 Racism in American Society CASB (3) AS AFA**

This course will help students understand the extent and causes of racism, anti-Semitism and prejudice in the U.S. They will learn how prejudice arises, the roots of racism, and its effects on society using lectures and videos.

**AMS 3930 Selected Topics in American Studies (1-3) AS HCS**

Offerings include Cultural Darwinism in America, America Through Foreign Eyes, and The Female Hero in American Culture.

**AMS 4210 Regions of America (3) AS HCS**

The pattern of American culture as revealed through an examination of selected writings and other pertinent materials dealing with selected American regions. Topic varies.

**AMS 4305 Photography and American Society (3) AS HCS**

A survey of photography as an art and a craft in America since the mid-nineteenth century. Attention devoted to technological innovations, leading personalities, major movements, and memorable icons. Open to majors and non-majors.

**AMS 4804 Major Ideas in America CPST (3) AS HCS**

Investigates the role of one or more influential ideas in American culture, for example: individualism, identity, community, dissent, reform, utopianism, democracy. Emphasizes the critical analysis of a variety of primary texts. Topic varies.

**AMS 4910 Individual Research (1-4) AS HCS**

The content of the course will be governed by student demand and instructor interest. Instructor approval required prior to registration.

**AMS 4930 Selected Topics in American Studies (1-3) AS HCS**

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) AS HCS**

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 CPST (3) AS HCS**

PR: HUM 3804, HUM 4331 and AMS 4936  
The American Studies Senior Seminar focuses on the writing of a substantial research paper. Topic varies.

**AMS 4936 American Studies Pro-Seminar (3) AS HCS**

PR: HUM 3804

A course emphasizing the analysis of primary works in relation to cultural contexts, the integration of secondary sources, and the construction of a written argument. Topic varies.

**AMS 4940 Internship in American Studies (1-3) AS HCS**

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) AS ANT**

This class will examine the major dimensions of visual anthropology with an emphasis on the visual means of presenting anthropology to the discipline and general public. The course will focus on visual documentation and study of visual images.

**ANG 5486 Quantitative Methods in Anthropology (3) AS ANT**

This course is an introduction to quantitative methods for the anthropologist covering both classical statistical approaches and exploratory data analysis, using computers with statistical software.

**ANG 5901 Directed Reading (1-4) AS ANT**

Individual guidance in concentrated reading on a selected topic in Anthropology. Contract required prior to registration.

**ANG 5910 Individual Research (2-4) AS ANT**

Individual guidance in selected research project.

**ANG 5937 Seminar In Anthropology (2-4) AS ANT**

Topics to be chosen by students and instructor.

**ANT 2000 Introduction to Anthropology CASB SGES (3) AS ANT**

The cross-cultural study of the human species in biological and social perspective. Surveys the four major branches of anthropology: physical anthropology, archaeology, linguistic anthropology, and cultural anthropology.

**ANT 2410 Cultural Anthropology CAGC (3) AS ANT**

Students are exposed to methods and concepts for cross cultural study of the world's peoples. Case studies demonstrate variations in human

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adaptation and encourage an understanding of and appreciation for diverse cultures and their values.

**ANT 2464 Global Health from a Social Science Perspective CAGC (3) AS ANT**

Using global health as a lens, this course will introduce students to critical interdisciplinary challenges that will shape the world in the future. It combines classroom and experiential learning while accessing the extraordinary resources of London.

**ANT 2511 Biological Anthropology CANL (3) AS ANT**

CR: ANT 2511L

This is an overview of biological anthropology. It covers areas such as evolutionary theory and genetics (critical thinking and scientific process), human variation (diversity), and epidemiology (environment). It also has a historical component.

**ANT 2511L Biological Anthropology Laboratory (1) AS ANT**

CR: ANT 2511

This is a lab companion to an overview of biological anthropology. The students will be doing laboratories which are relevant to the class topics covered in the lecture hall in ANT 2511.

**ANT 3005 The Anthropological Perspective (3) AS ANT**

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 CAGC HHCP (3) AS ANT**

Focuses on critical thinking about the past, archaeological research. Methods, theory, web resources, and scientific analysis in the study of world prehistory, from human origins to modern times.

**ANT 3610 Anthropological Linguistics (3) AS ANT**

The comparative study of language in its cultural context, especially emphasizing the role of language in the cultural interpretation of physical and social reality.

**ANT 4012 Fantastic Archaeology (3) AS ANT**

Mysteries including the Lost Continent of Atlantis, Ancient Astronauts, Piltdown Man, Psychic Archaeology, Noah's Ark, and the Shroud of Turin will be examined, while emphasizing skills in critical thinking that have much wider practical applications.

**ANT 4014 Anthropology of American Culture (3) AS ANT**

PR: ANT 2410

This course examines American culture from an anthropological perspective. Various sources and methods will be used in formulating our portraits including readings, films, fieldwork, and personal experiences.

**ANT 4034 Theories of Culture (3) AS ANT**

The major concepts that form the anthropological view of humanity are viewed in historical perspective. Basic ideas of the western philosophical tradition are analyzed from the Greeks to the 19th century when they became incorporated into the new discipline of anthropology. 20th century anthropological developments on these themes are considered.

**ANT 4142 Old World Archaeology (3) AS ANT**

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) AS ANT**

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) AS ANT**

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) AS ANT**

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) AS ANT**

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) AS ANT**

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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) AS ANT**

PR: ANT 3101

Describes and analyzes the sequence of cultural development in prehistoric South America. Cultures such as the Inca, Chavin, Mochica, Wari, Chimu are included. Emphasis on the environmental setting and the relationship between cultural ecology and the growth of civilization.

## **ANT 4172 Historical Archaeology 6AC (3) AS ANT**

PR: ANT 3101

A survey and analysis of archaeology focused on the historic period. Laboratory research with data recovered from historic sites in addition to class work.

## **ANT 4180 Laboratory Methods in Archaeology (3) AS ANT**

PR: ANT 3101

Data and materials recovered from archaeological survey and excavation are processed in the laboratory; includes artifact cleaning, cataloguing, identification, and analysis; soil flotation; reconstruction and conservation of artifacts, mapmaking, etc. May be offered as part of a summer (or other semester) field session. May be combined with Florida Archaeology and Field Methods in Archaeology.

## **ANT 4181 Museum Methods (3) AS ANT**

PR: ANT 3101

Design, preparation and installation of exhibits in the Department of Anthropology Teaching Exhibit Gallery. Emphasis on theory, research, design, and construction. Discussion of museum-related issues such as administration and curation.

## **ANT 4183C Archaeological Science (4) AS ANT**

PR: ANT 3101

This course focuses on the application of scientific methods of analysis to archaeological materials including bone, stone, pottery, and metal. Methods include absolute dating, remote sensing, optical and SEM microscopy, elemental and isotope analysis. Laboratory sections provide hands-on experience with a variety of archaeological materials and analytical methods.

## **ANT 4185 Ancient Diets (3) AS ANT**

PR: ANT 3101

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.

## **ANT 4241 Anthropology of Religion WRIN 6AC (3) AS ANT**

PR: ANT 2000, ANT 2410

The cross-cultural study of the social and cultural aspects of religion will be explored. Religious activities in traditional and modern societies will be discussed. Ritual behavior, religious practitioners, and symbols of belief will be considered.

## **ANT 4243 The Middle East and North Africa (3) AS ANT**

PR: ANT 2410

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.

## **ANT 4260 Ancient Trade (3) AS ANT**

PR: ANT 3101

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.

## **ANT 4285 Oral History (3) AS ANT**

PR: ANT 2410

A survey of the history, methods, and current applications of oral history research, primarily in the anthropological study of culture, but with reference to allied disciplines. Students will become familiar with oral history through intensive analysis of selected case studies as well as guided field projects.

## **ANT 4302 Gender in Cross-Cultural Perspective CPST HHCP (3) AS ANT**

PR: an anthropology or a women's studies class  
Examines roles of women, men, other genders and social, economic, and political aspects of sex and gender, from a biocultural, 4-field anthropological perspective, emphasizing non-Western societies and cross-cultural comparison in past and present.

## **ANT 4312 North American Indians (3) AS ANT**

PR: ANT 2410

An examination of the evidence for the origin and antiquity of human beings in North America and of patterns of regional development until the period of contact with European colonists. Emphasis on varieties of ecological adaptation, social, political and religious systems, enculturation and worldview, folklore and visual art.

## **ANT 4316 Ethnic Diversity in the United States (3) AS ANT**

PR: ANT 2410

Special concerns include ethnic diversity in American society, historical and contemporary diversity in values, experiences, and lifestyles, and an examination of policies and problems affecting ethnic groups in the United States.

## **ANT 4323 Mexico and Central America (3) AS ANT**

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- PR: ANT 2410  
Focuses on the history, contemporary values and interpersonal relationships, and patterns of rural and urban life in Mesoamerica. Guatemala and Mexico are emphasized.
- ANT 4340 The Caribbean 6AC (3) AS ANT**  
PR: ANT 2410  
Main themes include: the depopulation of the aboriginal population and the resettlement of the area via slavery, indenture, and migration; contemporary ethnic heterogeneity; economic problems of Third World microstates; development of a modern social and political consciousness. Religious diversity, music, the graphic arts, and the literature of the contemporary Caribbean will also be surveyed.
- ANT 4390 Visual Anthropology (3) AS ANT**  
PR: ANT 2410  
The use of photographic techniques for the cross-cultural recording and analysis of human activities. The study of ethnographic photography as both art and science, and the production of an anthropological study that expresses the goal of "visual literacy." Review and evaluation of the uses of visual techniques and the evidence they provide to the social scientist.
- ANT 4401 Exploring Cross-Cultural Diversity CPST (3) AS ANT**  
This course will address a variety of challenging issues related to the general topic of cross-cultural diversity in contemporary American life.
- ANT 4403 Environmental Anthropology (3) AS ANT**  
PR: ANT 2410  
Explores cultural, social, political, and economic dimensions of contemporary environmental problems. Emphasis placed on the links between local-level environmental degradation and broader regional and global forces.
- ANT 4432 The Individual and Culture 6AC (3) AS ANT**  
PR: ANT 2410  
The relationship between the individual and society is studied cross-culturally. Main themes include child-rearing practices, psychosomatic illness and curing. Discussion of theories and models of personality development with special reference to their applicability to the emerging field of cross-cultural mental health planning.
- ANT 4442 Urban Life and Culture (3) AS ANT**  
PR: ANT 2410  
The cross-cultural study of urbanization, urbanism and human problems associated with metropolitan environments. Emphasis on the ethnography of city life and its relationship to the practical applications of urban research.
- ANT 4462 Health, Illness, and Culture (3) AS ANT**  
PR: ANT 2410  
The study of health and human behavior in cross-cultural perspective. Main themes include: the impact of disease on the development of human culture; comparative studies of curing practices; medical systems in their relationship to ideology. Emphasis on understanding the role of medicine, and the behavior of both practitioners and patients in modern societies.
- ANT 4465 The Anthropology of Food (3) AS ANT**  
PR: ANT 2000 or ANT 2410  
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.
- ANT 4472 Work and Migration in the Americas (3) AS ANT**  
PR: ANT 2410  
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.
- ANT 4475 Anthropology of Childhood (3) AS ANT**  
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.
- ANT 4495 Methods in Cultural Research (3) AS ANT**  
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.
- ANT 4516 Human Variation (3) AS ANT**  
PR: ANT 2511  
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.
- ANT 4520C Forensic Anthropology (4) AS ANT**  
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) AS ANT**  
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.

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## **ANT 4532 Anthropology of Infectious and Contagious Diseases (3) AS ANT**

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) AS ANT**

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) AS ANT**

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. Biosocial patterns and cultures of the past are also covered.

## **ANT 4593 Evolution and Health (3) AS ANT**

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 6AC (3) AS ANT**

PR: ANT 3610

Examines the relationships between language and culture in cross-cultural perspective. Explores the extent to which languages shape the world views of their speakers. Emphasis on the nature and degree of fit between linguistics and other cultural systems of knowledge.

## **ANT 4701 Applied Anthropology (3) AS ANT**

PR: ANT 2410

A review of approaches applying the anthropological perspective to contemporary human problems. Particular emphasis placed on public policy issues in United States society. Discussion of the historical development of applied anthropology, problems of economic development of the Third World, and the ethics of applied research and intervention.

## **ANT 4750 Language and Social Interaction 6AC (3) AS ANT**

PR: ANT 3610

Examines the role of language and other modes of communication in the social settings of speech communities. Student field projects focus on the cross-cultural description and analysis of patterns of communication in ethnographic contexts.

## **ANT 4824 Archaeological Field Methods (4-12) AS ANT**

PR: ANT 3101

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) AS ANT**

Individual guidance in concentrated reading on a selected topic in anthropology. Contract required prior to registration.

## **ANT 4905 Individual Research (2-4) AS ANT**

Individual guidance in a selected research project. Contract required prior to registration.

## **ANT 4930 Special Topics in Anthropology (1-3) AS ANT**

PR: Variable depending on topic

Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

## **ANT 4932 Honors Seminar (3) AS ANT**

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 6AC (3) AS ANT**

This course is the senior seminar in anthropology. The objectives are to reflect upon and integrate major material covered in previous courses, to reflect upon the status on the discipline of anthropology, and to allow students to determine where they see themselves within the discipline. We will reflect upon the four fields of anthropology and ethics, as well as key issues such as evolution, race, and culture, and students are encouraged to integrate their knowledge from previous classes.

## **ANT 4940 Directed Internship Including Practicum (2-4) AS ANT**

Individual guidance in a selected internship.

Contract required prior to registration. Majors and non-majors. May be repeated for credit; max 6 total hours.

## **ANT 4970 Honors Thesis (3) AS ANT**

PR: ANT 4932

The student under the supervision of a faculty member will formalize, conduct, analyze, and report in writing a research project in anthropology.

## **APK 3110 Exercise Physiology I (3) MD ATH**

A study of the effects of physical activity on the body. Topics include acute and chronic adaptation of the cardiovascular, muscular, metabolic, hormonal, and energy systems to exercise. Open to non-majors.

## **APK 3120 Exercise Physiology (3) ED EDP**

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,

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cardiovascular, respiratory, neuromuscular, and endocrine systems.

**APK 4136 Exercise Prescription for Strength & Conditioning (3) ED EDP**

PR: APK 3110

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

**ARA 1120 Modern Arabic I (4) AS WLE**

An intensive study of basic skills: pronunciation, listening comprehension, speaking and some composition.

**ARA 1121 Modern Arabic II (4) AS WLE**

PR: ARA 1120 or its equivalent

A continuation of ARA 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

**ARA 2220 Modern Arabic III (4) AS WLE**

PR: ARA 1121 or the equivalent.

For language students who intend to attain basic proficiency.

**ARA 2221 Modern Arabic IV (4) AS WLE**

PR: ARA2220 or the equivalent.

Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

**ARA 4905 Directed Study (1-5) AS WLE**

Permits study options in Arabic not available in regularly scheduled curriculum at departmental discretion.

**ARA 4930 Selected Topics (1-3) AS WLE**

Course permits classes in Arabic not available in the regularly scheduled curriculum at departmental discretion.

**ARC 2112L Architectural Freehand Drawing Methods (4) FA ARC**

This course provides an introduction to basic freehand drawing with an emphasis on observational drawing, mapping, gesture, and drawing as a means of orientation. The student is introduced to a wide range of drawing methods, media and concepts.

**ARC 2131C Introduction to Architectural Design and Graphics (4) FA ARC**

An introduction to fundamental "critical thinking" and graphic communication skills in architecture.

**ARC 2135C Introduction to Architectural Design & Graphics II (4) FA ARC**

PR: ARC 2131.

This course explores fundamental issues of space-making and perception of space, scale and habitation. In addition, this course builds on the skills and knowledge developed in the first introductory course through analysis and interpretation of specific works.

**ARC 2211 Introduction to Architecture CAHU HHCP (3) FA ARC**

An introduction to the analysis and interpretation of the architecture and urban design of various cultures.

**ARC 2701 Architectural History I (3) FA ARC**

Overview of the built environment from prehistory through the Middle Ages. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological and economic context.

**ARC 2702 Architectural History II (3) FA ARC**

Overview of the built environment from the Middle Ages to the present. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological and economic context.

**ARC 2931 Selected Topics (1-3) FA ARC**

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) FA ARC**

The course introduces the basic processes necessary for large scale projects and developments. Numerous professions are explained from varying points of view to allow participants to better understand how buildings get built and land developed.

**ARC 4784 The City 6AC (3) FA ARC**

This course examines the history of the city, as both idea and reality, with a particular focus on Western cities, and the 20th century. The course is open to undergraduates and students in the Graduate Architecture Program.

**ARC 4884 Sustainable Neighborhood Development (3) FA ARC**

This course will focus on understanding and evaluating sustainable neighborhood development strategies, using multiple concepts, practices and approaches.

**ARC 4931 Selected Topics in Architecture and Community Design (1-3) FA ARC**

Variable topics will be offered for pre-professional studies for students in the Liberal Studies Major/ALA Degree Program and as electives for other undergraduates.

**ARC 5175 Computer Technology (3) FA ARC**

Introduction to the application of computer technology in current architectural practice. The exploration of available software, programs, and computer services for word processing, information handling, specification writing, feasibility analysis, cost estimating, economic performance and life cycle cost analysis, project management (network programming and analysis), computer graphics, computer aided design and drafting.

**ARC 5216 The Building Arts (3) FA ARC**

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

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roles and specialization of the experts involved the process, and in the various academic courses that prepare the architect for practice.

## **ARC 5256 Design Theory (3) FA ARC**

Survey of major schools of thought in design theory, methods of design and problem-solving, and design research. The nature of the design activity and its recurring difficulties. The nature and different types of problems. Traditional approaches to problem-solving and design in architecture; recent systematic as well as intuitive approaches to problem-solving based on developments in other fields. Scientific method; the systems approach and design.

## **ARC 5361 Core Design I (9) FA ARC**

First of two semester Design Fundamentals/Design Graphics sequence focusing on design abstractions and analysis of the factors influencing conceptual design. Emphasis is placed on ordering principles, pattern recognition and utilization, and figure-ground relationships. Development of craftsmanship, drawing as a means to design, and perceptual acuity are stressed.

## **ARC 5362 Core Design II (9) FA ARC**

Second of a two semester Design Fundamentals/Design Graphics sequence focusing on synthesis of design concepts and application of ordering principles in architectural design. Emphasis is placed on developing an understanding and awareness of architectural elements and compositions. Students examine the work of significant architects and use it as a basis for design exploration. Graphic documentation, diagramming, and model studies are stressed.

## **ARC 5363 Core Design III (6) FA ARC**

PR: ARC 5362, ARC 5467, ARC 5587, ARC 5731  
CR: ARC 5689

Study of the various phases of the building delivery and design process, and of different approaches to ordering that process in a systematic fashion. The student will use one such systematic approach in the investigation and development of design solutions for a project of moderate scale and complexity. Studies of built form ordering principles, mass/void relationships, scale and proportion, color, texture, contextual relationships, meaning/imagery, and building technology (awareness of structural organization, services networks, construction processes and materials). Aspects of human behavior as design determinants.

## **ARC 5364 Advanced Design A (6) FA ARC**

PR: ARC 5363.  
CPR: ARC 5588, ARC 5467  
Application of orderly design processes to building projects of moderate complexity and scale. Continued investigation of the relationship between human behavior and the environment. Analysis and integration of site relationships into

the development of design solutions. Legal aspects of zoning, building codes, and regulations regarding access for accessibility, fire escape, etc.

## **ARC 5365 Advanced Design B (6) FA ARC**

PR: ARC 5363  
CPR: ARC 5588, ARC 5467.  
Investigation of the interaction between user requirements, environmental determinants, site and urban context conditions, technological factors, and design intentions in the development of design solutions for projects of medium scale and complexity. The analysis, design, and coordination of the various resulting systems, including structural, circulation, service networks, space zoning and use, environmental control systems at the interface between interior and exterior of a building. Representation of these relationships and systems in diagrams and models, and their manifestation in design and construction details.

## **ARC 5366 Advanced Design C (6) FA ARC**

PR: ARC 5363  
CPR: ARC 5588, ARC 5467.  
Design of multi-purpose buildings of medium to large scale and complexity. Issues of community and neighborhood design as they relate to the design of buildings. Restoration and adaptive reuse of existing historic buildings. Focus on thinking through as well as documenting the complete building system and process.

## **ARC 5467 Materials and Methods of Construction (3) FA ARC**

PR: ARC 5470  
Overview of properties of primary construction materials and systems that make up building structures and enclosures. Emphasis on elements and assemblies relative to various climates, technologies, costs, building codes, and craftsmanship.

## **ARC 5470 Introduction to Technology (3) FA ARC**

Introduction to architectural technology, including structures, materials and methods of construction, and environmental controls. Overview of building systems and components and their integration into architectural design projects.

## **ARC 5587 Structures I (3) FA ARC**

PR: Calculus, Physics, and ARC 5470  
Review of static and mechanical principles of materials. Analysis and evaluation for appropriate selection of structural systems and elements. Analysis and design of timber and steel structures, based on moment, shear, and deflection. Fundamentals of wind and seismic design as they apply to wood and steel construction. Truss analysis, beam and column behavior.

## **ARC 5588 Structures II (3) FA ARC**

PR: ARC 5587  
Introduction to the concepts and theories of structural analysis and design of reinforced concrete systems and elements, including practical application in building construction.



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- Prestressing, post-tensioning, hybrid assemblies.  
Fundamentals of wind and seismic design.  
Formwork, placement, and assembly techniques.
- ARC 5689 Environmental Technology (3) FA ARC**  
PR: ARC 5467 and ARC 5470  
Comprehensive overview of mechanical systems for buildings including: water and waste: fire protection and suppression; heating, cooling and controls; electric power distribution and illumination; communications; transportation systems, and acoustics.
- ARC 5731 Architectural History I (3) FA ARC**  
Overview of the built environment from prehistory through the Middle Ages. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological and economic context. Varieties of methodological approaches to the analysis of historical architecture. The focus will be on the built environment of Europe and the Mediterranean basin.
- ARC 5732 Architectural History II (3) FA ARC**  
Overview of the built environment from the Renaissance to the present. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological, and economic context. Study of various methodological approaches to the analysis of historic architecture, and development of student's own approach. Emphasis will be on the built environment of Europe and America.
- ARC 5789 Modern Architecture History (3) FA ARC**  
Exploration of the philosophic, economic, aesthetic, social, historical and moral imperatives used by modern architects and historians in their attempt to design the appropriate physical environment for a new social order. The course will investigate the writings and works of the proponents of the modern style of architecture and study the "New Architecture" as defined by those who broke tradition and expressed the new era using modern construction materials and techniques.
- ARC 5793 History Abroad (3) FA ARC**  
Summer study abroad. Location and description varies from year to year.
- ARC 5794 Florida Architectural History (3) FA ARC**  
An examination of the environmental, sociological, technological, political, economic, cultural, and other factors that influenced the discovery, growth, and urbanization of Florida as manifested by its architecture.
- ARC 5920 Architectural Design Studio Abroad (5) FA ARC**  
Summer study abroad. Location and description varies from year to year.
- ARC 5931 Special Studies in Architecture (1-5) FA ARC**  
Variable titles offered on topics of special interest.
- ARE 4341 Art Teaching Strategies II (3) FA ART**  
Media and the learning process will be explored through photographic arts, cinematography and video systems. Teaching strategies and media criticism for application at elementary and secondary levels.
- ARH 2000 Art and Culture CAHU 6AC SGEH (3) FA ART**  
This course offers students an enhanced appreciation and understanding of art. Student will critically evaluate a broad range of imagery, media, artists, movements and historical periods in the visual arts.
- ARH 2050 History of Visual Arts I CAHU HHCP (3) FA ART**  
Survey of World Art to AD 1300. Introduction to problems of analyzing and interpreting the art of various cultures without making the Western perspective a privileged one.
- ARH 2051 History of Visual Arts II CAHU HHCP (3) FA ART**  
Survey of World Art since 1300. Introduction to problems of analyzing and interpreting the art of various cultures without making the Western perspective a privileged one.
- ARH 3001 Introduction To Art CAFA HHCP (3) FA ART**  
This online course investigates the histories of art, asking a range of questions about periods, cultures, styles of art making. We explore the experience of viewing art, inquiring into its many forms and definitions, historically and in the present.
- ARH 4115 Ancient Egyptian and Near Eastern Art (3) FA ART**  
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) FA ART**  
A comprehensive study of ancient Greek sculpture, painting, architecture, and other artistic media from the Bronze Age through the Hellenistic period.
- ARH 4151 Roman Art (3) FA ART**  
A comprehensive study of ancient Roman sculpture, painting, architecture, and other artistic media from the founding of Rome through the reign of Constantine.
- ARH 4170 Greek and Roman Art (3) FA ART**  
A comprehensive study of Aegean, Mycenaean, Etruscan, Greek and Roman painting, sculpture and architecture.
- ARH 4200 Medieval Art (3) FA ART**  
A comprehensive study of early Christian, Byzantine and Medieval painting, sculpture, architecture and manuscript illumination.
- ARH 4301 Renaissance Art (3) FA ART**  
A comprehensive study of Renaissance and Mannerist painting, sculpture and architecture in Italy and Northern Europe.
- ARH 4310 Early Italian Renaissance (3) FA ART**  
PR: ARH 2050 or ARH 2051

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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) FA ART**

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) FA ART**

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) FA ART**

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) FA ART**

A comprehensive study of the painting, sculpture and architecture in France, Italy, Spain and the Netherlands in the seventeenth and early eighteenth centuries.

**ARH 4430 Nineteenth Century Art (3) FA ART**

PR: ARH 2051

A comprehensive study of nineteenth century painting, sculpture and architecture in America and Europe. Gender/multicultural issues and methodologies in 19th century art are emphasized.

**ARH 4450 Twentieth Century Art (3) FA ART**

PR: ARH 2051

A comprehensive study of painting, sculpture and architecture from Cezanne to the present in Europe and the United States. Required of all art majors.

**ARH 4455 Modern Political Iconography (3) FA ART**

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) FA ART**

PR: ARH 4450

A study of the principles and techniques of educational measurement as applied to the teaching of physical education; study of the functions and techniques of measurement in the evaluation of student progress toward the objectives of physical education.

**ARH 4520 African Art (3) FA ART**

A combination of survey, comparative study and in-depth analysis of African sculpture, mainly from West and Central Africa. Emphasis on diversity of

forms and contexts, functions, symbolism and meanings.

**ARH 4530 Asian Art (3) FA ART**

An introduction to concepts of the arts of China, Japan and other Far Eastern countries.

**ARH 4557 Chinese Art (3) FA ART**

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 WRIN HHCP 6AC (3) FA ART**

PR: ARH 2051

Comprehensive overview of the history of photography from its inception to the present day with an emphasis on the relationship of photography to the visual arts and popular culture.

**ARH 4721C History of Printmaking 6AC (3) FA ART**

The history of Western printmaking from the Middle Ages to contemporary times, with an emphasis on artmaking technology and research, cultural perspectives and theoretical/critical analytical capabilities. The course is open to majors and non-majors. It is not repeatable for credit.

**ARH 4744 Selected Topics In The History of Film (3) FA ART**

In-depth investigation of a selected period, development, or school in the history of film as art.

**ARH 4800 Critical Studies In Art History 6AC (3) FA ART**

PR: Two advanced Art Histories

Specialized intensive studies in art history. Specific subject matter varies. To be announced at each course offering.

**ARH 4890 Paris Art History (3) FA ART**

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) FA ART**

Lecture/discussion course designed to offer areas of expertise of visiting scholars or specific interests of resident faculty.

**ARH 5451 Cultural and Intellectual History of Modern Art (4) FA ART**

A course in which theories of modern artists and of critics and historians of Modernism are treated as a part of general cultural and intellectual history.

**ARH 5813 Methods of Art History (4) FA ART**

This course introduces students to various methods which art historians have used to analyze the form and content of individual works

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- of art, and to various modes of historical explanation.
- ARH 5836 Collection and Exhibition Management (3) FA ART**  
This class will introduce students to the basic principles of collections care and management and to the intellectual and practical tasks of preparing an exhibition. Sessions will include art handling, registration and condition reporting, preparing works of art for transit, environmental standards for collections storage and exhibition, and the professional responsibilities of the curator.
- ART 2201C Concepts and Practices I CAFA (3) FA ART**  
Introduce students to diverse art studio practices and concepts where topics include forms of communication, sourcing inspiration, and critical theory. Studio projects are augmented by lecture, discussion, reading, writing and critical analysis.
- ART 2203C Concepts and Practices II CAFA (3) FA ART**  
PR: ART 2201.  
Continuation of ART 2201 building on diverse art studio practice and concepts including crafting an artistic self, measuring success, and examining the artists role. Art projects are augmented by lecture, discussion, reading, writing and critiques.
- ART 2301C Beginning Drawing (3) FA ART**  
Projects exploring the methods, media, and concepts of drawing.
- ART 2400C Beginning Printmaking (3) FA ART**  
This course is designed as an introduction to the medium of printmaking. It concentrates on the technical production of various print media including: intaglio, relief, monoprint and serigraphy (screen printing).
- ART 2500C Beginning Painting (3) FA ART**  
Projects in painting with emphasis on the exploration of methods and media and the development of individual concepts.
- ART 2701C Beginning Sculpture (3) FA ART**  
Projects in sculpture with emphasis on contemporary theory and issues, the development of individual concepts and the exploration of materials, tools and processes.
- ART 2750C Beginning Ceramics (3) FA ART**  
An introduction to the use of ceramic materials as a means of self expression and critical exploration.
- ART 2930 Selected Topics In Art (1-3) FA ART**  
The content of this course will be determined by student demand and instructor interest. Open University offerings under this number may not be counted for degree credit for art majors.
- ART 3310C Intermediate Drawing (3) FA ART**  
PR: ART 2301C  
An extension of the skills and concepts introduced in Beginning Drawing with an emphasis on individual experimentation and the development of advanced critical and technical skills in the discipline. Repeatable up to 15 hours.
- ART 3380C Selected Topics in Drawing (3) FA ART**  
PR: ART2203C, 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) FA ART**  
PR: ARH 2050, ARH 2051, ART 2301C, ART 2201C, ART 2203C, ART 3310C, ART 2400C.  
This course concentrates on developing intermediate skills in printmaking with particular emphasis on conceptual topics The course is intended for majors. Repeatable up to 15 hours.
- ART 3461C Selected Topics in Printmaking (3) FA ART**  
PR: ART2203C, 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) FA ART**  
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) FA ART**  
PR: ART2203C, 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) FA ART**  
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) FA ART**  
PR: ART 3612C.  
Exploration of 3D digital modeling techniques for the creative arts. Provides study in the history, theory, and practices of 3D digital modeling. Students model, texture, and light models in a 3D environment. Restricted to majors and is not repeatable.
- ART 3612C Beginning Video, Animation and Digital Arts (3) FA ART**  
An introductory exploration of the use of video, animation, and digital art as media for making contemporary art. Emphasis is on all levels of

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production, concept development, and the history and theory of media, moving image, sound, and animation.

## **ART 3613C Live Action Filmmaking (3) FA ART**

PR: ART 3612C.

Students develop a comprehensive understanding of Independent Cinema by producing short film projects. Topics include scriptwriting, professional production tools and practices, and exhibition. Non-repeatable. For majors and non-majors with prerequisite.

## **ART 3616C 2D Animation (3) FA ART**

PR: ART 3612C

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.

## **ART 3635 Selected Topics in Video, Animation & Digital Arts (3) FA ART**

PR: ART2201C, ART2203C, ART2301C, ART3310C, ART3612C, ART3613C, ARH 2050, ARH2051.

Selected Topics in VADA is an intermediate course providing focused exploration on content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

## **ART 3709C Intermediate Sculpture (3) FA ART**

PR: ART 2201C, ART 2203C, ART 2301C, ART 2701C, ART 3310C, ARH 2050, ARH 2051.

This course expands upon the principles and processes introduced in Beginning Sculpture, developing a higher level of technical competence and critical sophistication. Repeatable up to 15 hours.

## **ART 3712C Multiples, Molds, and Bronzecasting (3) FA ART**

PR: ART 2701C and ART 3704C

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.

## **ART 3735 Selected Topics in Sculpture (3) FA ART**

PR: ART2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ART 2701C, ART 3704C.

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.

## **ART 3761C Intermediate Ceramics (3) FA ART**

PR: ART 2201C, ART 2203C, ART 2301C, ART 2750C, ART 3310C, ARH 2050, ARH 2051.

Intermediate problems in ceramics and emphasis on the exploration of methods and media and the development of individual concepts. Repeatable up to 15 hours.

## **ART 3781C Selected Topics in Ceramics (3) FA ART**

PR: ART2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ART 2750C, ART 3761C.

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.

## **ART 3843C Site, Installation, and Performance (3) FA ART**

PR: ART 2701C and ART 3704C.

Continued studies and projects in sculpture with an emphasis on site-specific sculpture, installation and performance. A critical and cultural awareness of contemporary issues and media in sculpture will be developed through studio projects assigned readings, discussions, critiques and demonstrations. The course may not be repeated for credit.

## **ART 3939 RealWorld (3) FA ART**

PR: ART 3838

Offers studio students the opportunity to analyze their experiences as art majors and explore options available to visual artists upon completion of their degree.

## **ART 4320C Advanced Drawing (3) FA ART**

PR: ART 3939, ARH 4450, ARH 4475C

Continued projects in drawing.

## **ART 4402C Advanced Printmaking (3) FA ART**

PR: ART 3939, ARH 4450, ARH 4475C

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.

## **ART 4520C Advanced Painting (3) FA ART**

PR: ART 3939, ARH 4450, ARH 4475C,

Continued projects in painting.

## **ART 4614C Advanced Video, Animation and Digital Arts (3) FA ART**

PR: ART 3939, ARH 4450, ARH 4475C

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.

## **ART 4634C Visual Design for the Internet (3) FA ART**

This upper level course builds upon the concepts students encountered in the introductory level graphic design courses and focuses upon web content creation and animation techniques.

## **ART 4710C Advanced Sculpture (3) FA ART**

PR: ART 3939, ARH 4450, ARH 4475C

Continued problems in sculpture. Repeatable.

## **ART 4782C Advanced Ceramics (3) FA ART**

PR: ART 3939, ARH 4450, ARH 4475C

Continued problems in ceramics.

## **ART 4806 Theme Studio (3) FA ART**

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PR: All preparation courses plus course in Studio Workshop I.

**ART 4814 Paris Art Studio (3) FA ART**

PR: ART 2201C or equivalent.

This course will explore contemporary and historic Paris as a subject and source for artmaking, drawing upon a range of concepts and strategies that emphasize imaginative encounters with its space, streets, museums, architecture and people.

**ART 4900 Directed Reading (1-4) FA ART**

A course of reading and study in an area of special concern governed by student demand, instructor interest and/or department requirements. Registration is by contract only. Repeatable.

**ART 4905 Directed Study (1-4) FA ART**

Independent studies in the various areas of Visual Arts. Course of study and credits must be assigned prior to registration. Repeatable.

**ART 4925 Media Workshop: Design Production (3) FA ART**

This upper level technology course will develop in-depth understanding of graphic software and print production techniques. Students will review software programs, file preparation requirements, and print production standards.

**ART 4930 Selected Topics In Art (1-3) FA ART**

The content of this course will be determined by student demand and instructor interest. Open University offerings under this number may not be counted for degree credit for art majors. Repeatable.

**ART 4940 Extended Studies (1-4) FA ART**

Extended Studies requires students to engage in art-related activities that expand upon their traditional academic experience. It is by contract and may involve internship and/or foreign studies. The course is restricted to majors. Not repeatable.

**ART 5390C Drawing (4) FA ART**

PR: ART 4320C

Advanced problems in various drawing techniques. Emphasis on individual creative expression. Repeatable.

**ART 5448C Intaglio (4) FA ART**

Investigations into more complex intaglio processes including photoengraving and color printing procedures. Emphasis on personal conceptual development in graphic media.

**ART 5580C Painting (4) FA ART**

Research in painting

**ART 5740C Sculpture (4) FA ART**

PR: ART 2701C

Advanced problems in the various techniques of sculpture. Emphasis on individual creative expression. Repeatable.

**ART 5790C Ceramics (4) FA ART**

PR: ART 2750C

Advanced problems in the various ceramic techniques, including throwing and glaze calculation. Repeatable.

**ART 5910 Research (1-4) FA ART**

**ASH 2270 Southeast Asian History CAHU HHCP (3) AS HTY**

This course examines the origins and development of Southeast Asian history over the past two millennia. Southeast Asia is comprised of Burma, Thailand, Laos, Cambodia, Vietnam, Malaysia, Singapore, Brunei, Indonesia, the Philippines, and East Timor.

**ASH 3404 Modern China (3) AS HTY**

Political, economic, and social history of China from the time of the first major Western contacts (17th-18th Centuries) through the consolidation of socialism in the late 1950's, and the Great Leap Forward.

**ASL 2140C Basic American Sign Language (4) BC CSD**

Introduction to American Sign Language (ASL) as used in the deaf community. General discussion of ASL structure and introduction to various manual communication systems and philosophies. Emphasis on building a basic vocabulary. One hour of laboratory course work is included. Open to all majors.

**ASL 2150C Intermediate American Sign Language (4) BC CSD**

PR: ASL 2140C

A continuation of the basic course which expands the student's signing skills and introduces American Sign Language (ASL) idioms. Provides a greater opportunity for skill development in ASL structure and idiomatic usage. One hour of laboratory course work is included.

**ASL 3324 Advanced ASL Discourse (3) BC CSD**

PR: INT 3270.

This course will focus solely on developing language skills within ASL, which are preliminary steps for interpretation, and will also address the development of student's ability to segment information and perform various cognitive tasks intralingually.

**ASL 3514 American Deaf Culture (3) BC CSD**

PR: ASL 4161C.

An overview to American Deaf Culture, including its norms, values and belief systems. This course will also provide insight to deaf history in North America, and the importance of ASL to the culturally Deaf community.

**ASL 4161C Advanced American Sign Language (3) BC CSD**

PR: ASL 2150C

A continuation of the study of American Sign Language (ASL) at the advanced skill level. Added emphasis on idioms, body language, and facial expression as an integral part of ASL. An hour of laboratory course work is included.

**ASL 4201C American Sign Language 4 (3) BC CSD**

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- PR: ASL 4161C  
This course is a continuation of the study of American Sign Language (ASL) at the highly advanced level. It provides added emphasis on skill development of the language, including storytelling and poetry. One-hour laboratory course work is included.
- ASL 4301C Structure of Sign Language (3) BC CSD**  
PR: ASL 4161C  
This course is a basic introduction of semiotic and linguistic consideration of American Sign Language (ASL). It includes aspects of phonology, morphology, syntax, semantics, and discourse of ASL. A one-hour laboratory is incorporated into the coursework.
- ASL 4405 Sign Language Codes (3) BC CSD**  
A review of the sign systems (SEE I, SEE II, LOVE, and Signed English) used to code messages through the use of sign. The student will have the opportunity to practice one of the sign systems.
- ASL 4435 Fundamentals of Fingerspelling (2) BC CSD**  
A concentrated study of technique in fingerspelling emphasizing clarity and rhythm in expression as well as receptive understanding.
- ASL 4700 ASL Literature (3) BC CSD**  
This course will explore the role of ASL literature (such as visual-spatial stories, plays, poetry, etc.) used and created by culturally Deaf individuals so as to understand its purpose and importance within the Deaf community.
- ASN 3012 Japan Today (3) AS GIA**  
Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic, anthropological, and sociological analysis in dealing with salient features and current problems.
- ASN 3014 China Today (3) AS GIA**  
Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic, anthropological, and sociological analysis in dealing with salient features and current problems.
- ASN 3030 The Middle East (3) AS GIA**  
Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic, anthropological, and sociological analysis in dealing with salient features and current problems.
- ASN 3201 East Asian Cinema (3) AS WLE**  
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) AS WLE**  
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 CANP SGEN (3) AS PHY**  
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 CANP (3) AS PHY**  
AST2004 is an introduction and overview of the Stellar astronomy and Cosmology. It is designed to complement AST2003 to give a comprehensive overview of the science of Astronomy.
- AST 3033 Contemporary Thinking in Astronomy (3) AS PHY**  
Seminar designed to assist the layman, with no scientific background, in comprehending contemporary developments in Astronomy. Necessary background material is provided by the instructor and a text. Topics covered in recent years include the space program, pulsars, x-ray astronomy, black holes, extra-terrestrial life, interacting galaxies, cosmology.
- AST 3044 Archaeoastronomy (3) AS PHY**  
Astronomical concepts and observational techniques used by prehistoric/ancient peoples for detecting change of seasons, constructing calendars, predicting eclipses, etc. Particular attention is given to Stonehenge, and to works of N.A. Indians, the Maya and Aztecs, and the Egyptians. Lec.-Lab.
- AST 3652 Navigation (3) AS PHY**  
PR: Some knowledge of geometry, algebra, and trigonometry.  
Timekeeping, use of sextant, constellations, celestial navigation with minimum equipment, spherical astronomy.
- AST 3930 Selected Topics in Astronomy (1-3) AS PHY**  
Course content will depend upon the interest of the faculty member and student demand.
- ATR 1000 Introduction to Athletic Training (3) MD ATH**  
The purpose of this course is to familiarize students with the field of athletic training and the preparation necessary to become an athletic trainer.
- ATR 2010C Care and Prevention of Physical Injuries (3) ED EDP**  
Principles and techniques of conditioning athletes for competition; prevention and care of injuries in physical education and athletic activities.
- ATR 3102C Athletic Training Techniques (3) MD ATH**

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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) MD ATH**

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) MD ATH**

A study of the structure and function of the skeletal and muscular systems and of mechanical principles related to psycho-motor performance. Open to non-majors.

## **ATR 3202 Measurement and Evaluation in Athletic Training (3) MD ATH**

This course is an introduction to the study and practice of measurement and evaluation techniques used in the assessment and rehabilitation of orthopaedic injuries. AT majors only. Credit not repeatable.

## **ATR 3212C Upper Extremity Assessment (3) MD ATH**

The study and practice of techniques used when assessing athletic injuries to the upper extremity, head and spine.

## **ATR 3213C Lower Extremity Assessment (3) MD ATH**

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) MD ATH**

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) MD ATH**

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) MD ATH**

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) MD ATH**

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) MD ATH**

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) MD ATH**

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) MD ATH**

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) MD ATH**

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 WRIN 6AC (3) MD ATH**

PR: ATR 4432.

The advanced study, writing, reflection and discussion of current athletic training issues. Emphasis is on professional preparation, scientific inquiry, credentialing, governance, employment practices, ethics, and scope of practice issues.

## **ATR 4832L Clinical Experience in Athletic Training III (3) MD ATH**

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.

## **ATR 4842L Clinical Experience in Athletic Training IV (3) MD ATH**

PR: ATR 4832L

Continuation of clinical experience utilizing new skills under the direction of an NATABOC

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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) MD ATH**

S/U Only. Specialized independent study determined by the student's needs and interests. Repeatable 1 time.

## **ATR 5105C Athletic Training Techniques (3) MD ATH**

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) MD ATH**

By way of laboratory prosection 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) MD ATH**

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) MD ATH**

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) MD ATH**

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) MD ATH**

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) MD ATH**

This course will provide an overview of manual therapy techniques, including myofascial release, joint mobilization, and traction as they are

incorporated into a therapeutic rehabilitation program.

## **ATR 5319 Rehabilitation Considerations for Children (3) MD ATH**

Addresses the principles of rehabilitation for children. This course will entail advanced anatomical, physiological and psychological aspects of sports injury in the youth population.

## **ATR 5346C Health and Wellness Promotion Across the Lifespan I (3) MD ATH**

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) MD ATH**

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) MD ATH**

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) MD ATH**

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) MD ATH**

Takes a unique look at the current issues facing the profession of athletic training. Historical perspectives, current implications, and futuristic opportunities and threats are discussed.

## **ATR 5515 Administration of Injury Prevention Programs (3) MD ATH**

Discusses the development and implementation of injury prevention programs for youth sports. Issues such as research, budgeting, marketing, and measuring effectiveness are identified.

## **ATR 5534 Documentation in Athletic Training (1) MD ATH**

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) MD ATH**

Key issues in epidemiology, injury etiology, risk factors related to both internal and external variables, and the efficacy and effectiveness of



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- preventive measures in regard to youth sport injury will be analyzed and discussed.
- ATR 5612 Evidence Based Medicine in Athletic Training (2) MD ATH**  
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 (3) MD ATH**  
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 (3) MD ATH**  
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.
- BCH 3023L Basic Biochemistry Laboratory (2) AS CHM**  
CR: BCH 3023  
Practical work in determination and characterization of important biomolecules. Lec.-lab.
- BCH 3053 General Biochemistry (3) AS CHM**  
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) AS CHM**  
PR: CHM 2211 and BSC 2010  
Introduction to the chemistry and intermediary metabolism of biologically important substances.
- BCH 4034 Advanced Biochemistry II (3) AS CHM**  
PR: BCH 3023  
An advanced undergraduate course emphasizing such topics as metabolic regulation, DNA and RNA structure and function, receptors, channels, antibodies, and contraction.
- BCH 5045 Biochemistry Core Course (3) AS CHM**  
PR: Either CHM 2211, CHM 2211L, and CHM 3400 or CHM 4410  
A one-semester survey course in biochemistry for graduate students in chemistry, biology, and other appropriate fields and for particularly well-qualified undergraduates.
- BCH 5105 Biochemistry Laboratory Rotations (1-3) AS CHM**  
A course in which first year graduate students rotate through selected professor's laboratories to learn techniques, become familiar with ongoing research in the Department and facilitate the selection of a mentor.
- BME 4100 Biomedical Engineering (3) EN ECH**  
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, biomedical imaging, neuroengineering, cardiovascular systems, engineering ethics and product dev.
- BME 4332 Cell and Tissue Engineering (3) EN EGR**  
PR: EGN 3343 and EGN 3365 or EMA 4003  
Engineering principles and molecular cell biology are applied to develop a fundamental understanding of property-function relationships in cells and tissues and exploit them in the rational design of tissue replacements.
- BME 4406 Engineering of Biological Systems (3) EN ECH**  
PR: CHM 2210  
This course is designed to convey the basics of biological systems and the roles that engineers play in industrial biology to engineering students (primarily) and to students that are majoring in other sciences. Not repeatable for credit. For majors and non-majors.
- BME 4440 Introduction to Bioastronautics (3) EN EGR**  
PR: EGN 3343  
This course will discuss the space environment, impacts of microgravity on human physiology, countermeasures, human factors in spacesuit and spacecraft design, astronaut training, life support systems, mission planning, and private space flight.
- BME 5040 Pharmaceutical Engineering (2) EN ECH**  
Introduction to pharmaceutical engineering, including dosage forms (tablets, capsules, powders, liquids, topical forms, and aerosols), excipients, regulatory issues, clinical studies, and good manufacturing practices.
- BME 5320 Theory and Design of Bioprocesses (3) EN ECH**  
Introduction to biotechnology, including applied microbiology, enzyme technology, biomass production, bioreactor design, and transport processes in biosystems.
- BME 5748 Selected Topics in Biomedical Engineering (1-3) EN ECH**  
Selected topics in biomedical engineering, including biomedical engineering, biomedical materials, biodynamics of circulation, separation processes in biomedical systems, and artificial organ systems.
- BME 5910 Directed Research in Bioengineering (1-3) EN ECH**  
Directed research in an area of biomedical engineering or engineering biotechnology.
- BME 5937 Selected Topics in Biomedical Engineering (1-3) EN ECH**

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Selected topics in biomedical engineering, including biomedical engineering, biomedical materials, biodynamics of circulation, separation processes in biomedical systems, and artificial organ systems. May be taken by non-engineering students with CI. Repeatable as subjects vary.

## **BMS 4406 Principles of Human Pharmacology (3) MD MSG**

Pharmacodynamics (effects), pharmacokinetics (absorption, distribution, metabolism, excretion) and side effects/toxicity of drugs. Designed to provide basic understanding of mechanism of drug action resulting from modifying biologic processes.

## **BMS 5005 Professions of Medicine: Foundations of Doctoring (1-19) MD MSG**

This three-week course placed at the beginning of the medical school curriculum will introduce the students to principles that will be used through the entire medical school education and beyond. Basic scientists and clinicians present information in an integrated approach. Topical areas include: use of information resources (library/computer), the medical article, intro to evidence based medicine, effective study techniques, intro to the physical exam, cultural diversity, ethics and professionalism, and state of the art presentation. The course will use both large and small group learning techniques and students will demonstrate achievement of knowledge.

## **BMS 5015 Clinical Diagnosis and Reasoning (var.) MD MSG**

This course aims to provide the student with the opportunity to "think like a physician." It will provide the venue to integrate clin diagnosis/reasoning strategies with complementary aspects of clin problem solving/phys diagnosis/evidence based medicine.

## **BMS 5190 Anatomy by Diagnostic Testing (1-20) MD MSG**

Describing normal human anatomy in three dimensions (frontal, coronal, and axial), using contrast medical and imaging modalities available for diagnostic radiologists. Course will be oriented to organ systems describing anatomy of the organ and its vasculature and topographic anatomy. It will include didactic lecture series and a standing display of images for self-studies. Plain radiographs, contrast studies of gastrointestinal and urinary tract, arteriograms, computed tomograms, magnetic resonance, and ultrasound scans of body organs will be displayed.

## **BOT 3152C Field Botany (3) AS BIN**

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course or STA 2023.  
CPR: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712.

A field course emphasizing Identification and classification of native and naturalized flowering plants of Florida including historical, climatic, and

floristic aspects of plant communities. Fieldwork required. Lecture and Laboratory.

## **BOT 3373C Vascular Plants: Form and Function (4) AS BIN**

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course or STA 2023  
CPR: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712.

Introduction to morphology, physiology and evolution of vascular plants, integrating form and function to understand diversity. Lecture and Laboratory.

## **BOT 3850 Medical Botany (3) AS BCM**

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2210, MAC 1105 or higher-level MAC course or STA 2023.  
CPR: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712.

Study of agents that are produced by plants and that are toxic or psychoactive in human beings or are useful as remedies. Lecture only.

## **BOT 4434C Mycology (3) AS BCM**

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 4601 Plant Ecology (3) AS BIN**

PR: PCB 3043, BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2045 and CHM 2046.  
This course covers plant ecology on a number of different scales, from that of individuals and their physiology, to those of populations, communities, landscapes, and biomes. The course will emphasize critical thinking and writing skills.

## **BOT 4810C Economic Botany (3) AS BIN**

PR: BOT 3373C.  
Study of the uses of plants by man for food, chemicals, fibers, and medicines.

## **BOT 4851 Plants and Human Health (3) AS BIN**

PR: BSC 2010 / C- OR BSC 2011 / C-  
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.

## **BSC 1005 Biological Principles for Non Majors CANL SGEN (3) AS BIN**

A comprehensive introduction to living systems, including the scientific basis of biology, cell structure and function, genetic mechanisms, human anatomy and physiology, and ecological and evolutionary processes.

## **BSC 1020 The Biology of Humans CANL (3) AS BCM**

This non-science majors course deals with the principles and applications of human biology. Topics include: scientific literacy, cell structure and

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- function, anatomy and physiology, genetics, infectious diseases, and biotechnology.
- BSC 2010 Cellular Processes CANL SGEN (3) AS BCM**  
CR: BSC 2010L.  
This course deals with biological systems at the cellular and subcellular levels. Topics include an introduction to biochemistry, cell structure and function, enzymes, respiration, mitosis and meiosis, genetics and gene expression.
- BSC 2010L Cellular Processes Laboratory (1) AS BCM**  
CR: BSC 2010.  
Laboratory portion of Biology I Cellular Processes relating to cellular and subcellular structure and function. Mitosis, meiosis, and Mendelian genetics will be stressed.
- BSC 2011 Biodiversity CANL (3) AS BIN**  
CR: BSC 2011L  
Biodiversity is an analysis of biological systems at the organismal level: evolution, speciation, history of life, and ecology.
- BSC 2011L Biodiversity Laboratory (1) AS BIN**  
CR: BSC 2011.  
Laboratory portion of Biology II Diversity relating to organismal structure and function. Microscopy, as well as, plant and animal development will be stressed.
- BSC 2025 Food: Personal and Global Perspectives (3) AS BIN**  
The application of basic biological principles to human nutritional problems; to learn how various cultures achieve adequate nutrition and how environmental changes impact both personal and global nutrition.
- BSC 2035 Sex and Today's World (3) AS BIN**  
The application of basic biological principles to female and male sexual behavior and reproduction; current social problems are treated from a biological perspective. May be taken by majors for free elective credit.
- BSC 2050 Environment CANL (3) AS BIN**  
A comprehensive introduction to the environment, including the scientific basis of ecology, population growth, community and ecosystem ecology, biodiversity, resource use and availability, energy production water, air and land pollution.
- BSC 2085 Anatomy and Physiology I for Health Professionals CANL SGEN (3) NR NUR**  
CR: BSC 2085L.  
Introduction to the normal structure, function and selected pathological conditions for physiologic systems. Focus on understanding how the body functions in preparing for careers in nursing or health-related professions.
- BSC 2085L Anatomy and Physiology Lab I for Nursing and other Healthcare Professionals (1) NR NUR**  
CR: BSC 2085.  
Laboratory exercises and virtual dissections linked to the basic content of Anatomy & Physiology I for Health Professionals.
- BSC 2086 Anatomy and Physiology II for Nursing and other Healthcare Professionals CANL (3) NR NUR**  
PR: BSC 2085 and BSC 2085L.  
CR: BSC 2086L.  
Introduction of normal structure, function and selected pathological conditions for physiologic systems. Focus on understanding how the body functions in preparing for careers in nursing or health-related professions.
- BSC 2086L Anatomy and Physiology Lab II for Nursing and other Healthcare Professionals (1) NR NUR**  
PR: BSC 2085 and BSC 2085L.  
CR: BSC 2086.  
Laboratory exercises and virtual dissections linked to the basic content of Anatomy & Physiology II for Health Professionals.
- BSC 2093C Human Anatomy and Physiology I (4) AS BIN**  
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L and CHM 2045.  
Basic biochemistry, cell structure and function, tissues, anatomical terminology, anatomy and physiology of the integumentary, skeletal, muscular, and nervous systems. Lecture and Laboratory.
- BSC 2094C Human Anatomy and Physiology II (4) AS BIN**  
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) AS BIN**  
The course content will depend on student demand and instructor's interest.
- BSC 2933 Honors Seminar II: Philosophy And Ethics Of Science (3) AS BIN**  
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) AS BIO**  
PR: BSC 2933  
The course will begin to familiarize students with the process of conducting scientific research.
- BSC 2938 Honors Seminar I (1) AS BIO**  
PR: BSC 2010, BSC 2010L & CHM 2045.  
CR: BSC 2011, BSC 2011L.  
Enrollment is limited to Department of Biology Honors students. Course is designed to introduce

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- 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) AS BCM**  
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) AS BIN**  
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course, or STA 2023.  
CPR: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712.  
A survey of the marine environment, the types of organisms found inhabiting a variety of marine habitats, and the adaptations of the organisms to those habitats. Emphasis is placed on shallow water Florida environments. Lecture only.
- BSC 3813 Life Science Fundamentals for Teachers (4) AS BIN**  
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 4057 Environmental Issues (3) AS BIN**  
Study of biological, economic, ethical, legal, political and social issues relating to current environmental problems.
- BSC 4313C Advanced Marine Biology (4) AS BIN**  
PR: BSC 3312C  
A detailed analysis of marine environment in the Tampa Bay or surrounding area. Field and laboratory work will provide direct experience with the system.
- BSC 4333 Ecology Of Aquatic Vascular Plants (3) AS BIN**  
PR: BSC 2010/C- OR BSC 2011/C- OR BOT 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) AS BCM**  
PR: PCB3063.  
CPR: PCB3023  
This lecture-based, nonrestrictive course covers basics of molecular bioscience data management/analysis. Focus is on general computational methods, their bio-basis, and how to evaluate analysis results. Qualitative algorithm descriptions are included.
- BSC 4444L Genomics Laboratory (1) AS BIN**  
Laboratory exercises linked to the Genomics lecture course.
- BSC 4905 Independent Study (1-3) AS BIN**  
Specialized independent study determined by the student's needs and interests. The written contract required by the Department of Biology specifies the regulations governing independent study.
- BSC 4910 Undergraduate Research (1-4) AS BIN**  
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 2211.  
S/U only. Junior standing and 3.0 GPA required. Individual investigation with faculty supervision. Written contract by Department is necessary prior to registration.
- BSC 4932 Honors Seminar IV (1) AS BIO**  
PR: BSC 2934 and BSC 4910 or MCB 4910;  
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.
- BSC 4933 Selected Topics In Biology (1-4) AS BIN**  
The course content will depend on student demand and instructor's interest.
- BSC 4937 Seminar in Marine Biology (2) AS BIN**  
PR: BSC 3312C and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023.  
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.
- BSC 4940 Biology Internship (3) AS BIN**  
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.
- BSC 4970 Biology Honors Thesis (1-3) AS BIN**  
PR: BSC 2934 and either BSC 4931 or BSC 4932.  
A thesis based on independent research carried out by the student.
- BSC 5425 Genetic Engineering and Recombinant DNA Technology (3) AS BCM**  
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.
- BSC 5931 Selected Topics in Biology (1-4) AS BIN**
- BUL 3320 Law And Business I (3) BA ACC**

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- This course covers the nature of legal and societal institutions and environments, and major aspects of public, private, UCC and related business law.
- BUL 3321 Law And Business II (3) BA ACC**  
PR: BUL 3320.  
Legal problems in marketing of goods, nature of property, sales of personal property, securing of credit granted, nature and use of negotiable instruments.
- BUL 5332 Law and the Accountant (3) BA ACC**  
PR: BUL 3320  
A comprehensive study of commercial law as it affects the practice of accounting.
- CAP 4034 Computer Animation Fundamentals (3) EN ESB**  
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) EN ESB**  
PR: COP 4530.  
Analysis, design, and development of software that operates on web servers and web browsers, supporting multiple concurrent users.
- CAP 4401 Image Processing Fundamentals (3) EN ESB**  
PR: COP 4530.  
Practical introduction to a range of fundamental image processing algorithms. Extensive programming, with emphasis on image analysis and transformation techniques. Image transformation and manipulation.
- CAP 4410 Computer Vision (3) EN ESB**  
PR: COP 4530.  
Introduction to topics such as image formation, segmentation, feature extraction, matching, shape recovery, texture analysis, object recognition, and dynamic scene analysis.
- CAP 4662 Introduction to Robotics (3) EN ESB**  
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) EN ESB**  
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) EN ESB**  
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) EN ESB**  
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 5771 Data Mining (3) EN ESB**  
PR: Undergraduate Statistics.  
An introductory course to mining information from data. Scalable supervised and unsupervised machine learning methods are discussed. Methods to visualize and extract heuristic rules from large databases with minimal supervision is discussed.
- CBH 4004 Comparative Psychology (3) AS PSY**  
PR: PSY 3213 with a grade of C or better  
The study of the evolution of behavior, similarities, and differences in capacities for environmental adjustment and for behavioral organization among important types of living beings.
- CCE 4031 Construction Management (3) EN EGX**  
PR: EGN 3613C.  
Fundamentals of construction management. Topics include: general definitions, organizational roles, types of contracts, analysis of labor and equipment, cost estimating, contractor cash flow analysis, planning and scheduling, project control, construction administration, quality and safety management, and use of computer software in construction management.
- CCE 5035 Construction Management & Planning (3) EN EGX**  
PR: EGN 3613C.  
Fundamentals of construction management. Topics include: general definitions, organizational roles, types of contracts, analysis of labor and equipment, cost estimating, contractor cash flow analysis, planning and scheduling, project control, construction administration, quality and safety management, and use of computer software in construction management.
- CCJ 3014 Crime and Justice in America CASB (3) BC CJP**  
This course is a non-technical survey of the nature of crime in the United States and the ways in which our society seeks to deal with juvenile and adult offenders and victims of crime.
- CCJ 3024 Survey of the Criminal Justice System (3) BC CJP**  
An introduction to the structure and operation of law enforcement, prosecution, the courts, and corrections. Also includes brief coverage of major reported crimes.
- CCJ 3117 Theories of Criminal Behavior (3) BC CJP**  
PR: CCJ 3024

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Provides a basic understanding of the complex factors related to crime, with concentration on principal theoretical approaches to the explanation of crime.

## **CCJ 3621 Patterns of Criminal Behavior (3) BC CJP**

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) BC CJP**

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) BC CJP**

To provide a critical examination of the current functioning of the American criminal justice system and to discuss how procedures used by police, prosecutors, defense attorneys, judges, and corrections agents potentially produce miscarriages of justice.

## **CCJ 4361 Death Penalty (3) BC CJP**

The primary purpose of this class is to provide a critical examination of capital punishment in the United States. It will also delve into the key dimensions of the death penalty debate and justifications for the death penalty and arguments for abolition.

## **CCJ 4450 Criminal Justice Administration (3) BC CJP**

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) BC CJP**

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) BC CJP**

An upper-level course designed to provide students with an overview of the interdisciplinary field of psychology and law. The course explores how the disciplines of psychology and law can benefit from an exchange of ideas, and thus improve both fields.

## **CCJ 4651 Drugs and Crime (3) BC CJP**

The objective of this course is to provide the student a comprehensive understanding of the dynamics of drug use in American society.

## **CCJ 4662 Race and Crime (3) BC CJP**

The course focuses on race (racial bias, racial inferiority, cultural norms and adaptations) and social class (structural deficiencies, economic deprivation, economic exploitation, social capital) as they relate to one another, crime and life in general.

## **CCJ 4681 Domestic Violence (3) BC CJP**

This course is designed to examine the criminal justice systems response to domestic violence by focusing on the interactions between battered persons and the individual components of the criminal justice system.

## **CCJ 4690 Sex Offenders (3) BC CJP**

This course is designed to cultivate a psychological, criminological, and legal understanding of sex crimes and sex offenders. This course will provide an overview of current theoretical and clinical issues related to sexual offenders and sexual offenses.

## **CCJ 4700 Statistical Research Methods in Criminal Justice II (3) BC CJP**

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) BC CJP**

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) BC CJP**

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

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any combination of the two will be accepted toward the minimum number of hours required for the major. This course is designed to provide students with a research experience in which they will work closely with faculty on the development and implementation of research projects in the area of criminal justice.

**CCJ 4930 Critical Issues in Policing (3) BC CJP**

PR: CCJ 3024 or CJE 4114

Focuses on some of the most critical issues in law enforcement today including: understanding and controlling police use of deadly force; police deviance; police prejudice and discrimination; violence-prone police officers; substance abuse by police officers; and administrative review of alleged police brutality.

**CCJ 4933 Selected Topics in Criminology (3) BC CJP**

PR: CCJ 3024, CCJ 3621, CCJ 3117

Lecture course. Topic varies and is designed to address a wide variety of issues in criminology and criminal justice. Open to non-majors with Cl.

**CCJ 4934 Seminar in Criminology CPST 6AC (3) BC CJP**

PR: a grade of C or better (a grade of C- is not acceptable) in CCJ 3701.

These variable topic seminars are used for the in-depth study and discussion of the relationships among culture, gender, ethics, age, society, and criminal behavior. Such examinations may include the options the criminal justice does (or does not) have to deal with these interactions, and the ethics and efficacy of the system's response. Open to non-majors with Cl.

**CCJ 4940 Internship For Criminal Justice Majors (3) BC CJP**

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) BC CJP**

PR: CCJ 4934 (honors section), CCJ 4910

The student, under the direction of a faculty member, will formalize, conduct, analyze, and report in writing a research project in the Department of Criminology. The course is not repeatable. Majors only.

**CDA 3101 Computer Organization for Information Technology (3) EN ESB**

PR: Any Physics course and CGS 3303

Elements of the computer are discussed in terms of the physical and conceptual design of memory,

processors, busses and I/O elements.

Organization of the system is cast in a meta-language that captures the logical and physical nature of the computer.

**CDA 3103 Computer Organization (3) EN ESB**

PR: 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.

**CDA 3201 Computer Logic and Design (3) EN ESB**

PR: CDA 3103 (grade of B or better) and COP 3514 (grade of B or better)

CR: CDA 3201L

CSE and EE majors. Others by special permission. Advanced coverage of Boolean Algebra, introduction to minimization of combinational logic circuits, analysis and synthesis of sequential circuits, testing of logic circuits and programmable logic devices.

**CDA 3201L Computer Logic and Design Lab (1) EN ESB**

CR: CDA 3201

Laboratory component of the Computer Logic and Design class.

**CDA 4203 Computer System Design (3) EN ESB**

PR: CDA 3201, CDA 3201L.

Design Methods, Top-Down design, Building Blocks, Instruction and addressing models, minicomputer design, interfacing.

**CDA 4203L Computer System Design Lab (1) EN ESB**

CR: CDA 4203.

This lab introduces the student to the concept of system design. Several projects are given including building timing circuits, memory-based and communication circuits, and microcomputer-based designs.

**CDA 4205 Computer Architecture (3) EN ESB**

PR: CDA 3201, CDA 3201L.

Principles of the design of computer systems, processors, memories, and switches. Consideration of the register transfer representation of a computer, ALU's and their implementation, control units, memory and I/O, and the hardware support of operation systems.

**CDA 4213 CMOS-VLSI Design (3) EN ESB**

PR: CDA 3201, CDA 3201L.

Covers analysis and design of CMOS processing technology, CMOS logic and circuit design, layout timing and delay, and power and thermal issues. CMOS transistor theory. VLSI system design, case studies and rapid prototype chip design.

**CDA 4213L CMOS-VLSI Design Lab (1) EN ESB**

PR: CDA 3201, CDA 3201L

CR: CDA 4213.

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

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- CMOS, combinational/sequential block layout, memory I/O design.
- CDA 4253 Field Programmable Gate Array System Design and Analysis (3) EN ESB**  
PR: CDA 3201, CDA 3201L.  
Covers analysis and design of digital systems using VHDL simulation. Provides experience with field programmable logic gates and gate arrays. Introduces the requirements for field programmable systems; testing of circuitry, and analysis of system design.
- CDA 4621 Control of Mobile Robots (3) EN ESB**  
PR: CDA 3201.  
Mobile Robotic Control Systems design and implementation. Includes microcontroller, sensor, and actuator control processes for localization and navigation. Team project development of software interface for robot control.
- CDA 4623 Advanced Mobile Robotics for Information Technology (3) EN ESB**  
PR: CDA 4622  
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.
- CDA 5416 Computer System Verification (3) EN ESB**  
PR: CDA 3201, COT 3100, COT 4400, COP 4530.  
This course introduces basic concepts of formal verification. Topics include formal specification, algorithms, and methodologies for scalable verification. It is only for CSE majors or non-majors with permission from the instructor, not repeatable.
- CEG 4011 Geotechnical Engineering I (3) EN EGX**  
PR: EGN 3353, EGN 3331.  
Fundamental and experimental concepts in soil mechanics with emphasis on soil properties, soil moisture, soil structure, and shearing strength.
- CEG 4011L Geotechnical/Transportation Laboratory (1) EN EGX**  
CR: CEG 4011.  
Demonstrates and experiments verifying theoretical bases of Geotechnical and Transportation Engineering. One hour lecture and two laboratory hours per week.
- CEG 4012 Geotechnical Engineering II (3) EN EGX**  
PR: CEG 4011.  
Design of retaining walls, earth slopes, foundations to control settlement, soil stabilization and foundations subjected to dynamic loads. Computer applications to soil mechanics will be covered.
- CEG 4850 Capstone Geotechnical/Transportation Design CPST (3) EN EGX**  
PR: CEG 4011, TTE 4004. CR: CEG 4012, CGN 4851, TTE 4005  
A capstone geotechnical/transportation design experience for seniors in Civil and Environmental Engineering. Design of embankment and pavement bases. Comprehensive surface streets, open highway intersection and site design, plan preparation.
- CEG 5115 Foundation Engineering (3) EN EGX**  
PR: CEG 4011  
Design of shallow foundations, cantilevered and anchored retaining walls, piling, drilled piers and special foundations. Computer applications to geotechnical engineering are covered.
- CEG 5205 Laboratory Testing for Geotechnical Engineers (3) EN EGX**  
PR: CEG 4011  
Both routine and advanced forms of soil testing are covered. Emphasis is placed on procedures and application of results to design.
- CEN 3722 Human Computer Interfaces for Information Technology (3) EN ESB**  
Human-Computer Interface is the study of people, computer technology and the ways these influence each other. The basic foundations of HCI in terms of psychology, computer systems and their integration into design practice are discussed in the course.
- CEN 4020 Software Engineering (3) EN ESB**  
PR: COP 4530.  
An overview of software engineering techniques for producing high quality software. Student will participate in a software development team.
- CEN 4031 Software Engineering Concepts for Information Technology (3) EN ESB**  
PR: EEL 4854  
Concepts associated with production of high quality software through the use of software engineering concepts and practices are covered. In addition to conceptual presentations, students are required to participate in software development team projects.
- CEN 4072 Software Testing (3) EN ESB**  
PR: COP 2510, COP 4530.  
The course provides the fundamental principles and tools for testing and validating large-scale software systems. The course is open to majors as well as non-majors.
- CEN 4721 User Interface Design (3) EN ESB**  
PR: COP 4530.  
An examination of factors influencing the usability of a computer system. Topics include input and output devices, graphic and multi-media interfaces, formats for interaction/communication between computer and user, and the evaluation of usability.
- CES 3102 Structures I (3) EN EGX**  
PR: EGN 3331  
Analysis of simple structural systems, both determinate and indeterminate. Moment area theorems; influence lines; introduction to steel design.
- CES 4141 Finite Element Analysis I (3) EN EGX**  
PR: CES 3102.



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- Introduction to the finite element method. Application of the method to one-dimensional structural problems. Virtual work principles. Analysis of trusses and frames using the displacement method and the force method. Energy principles. Matrix methods for computer analysis. Programming methods for finite elements implementation.
- CES 4561 Computer Aided Structural Design (3) EN EGX**  
PR: CES 4141.  
Computer aided structural analysis and design using existing finite element program, static dynamic loading.
- CES 4605 Concepts of Steel Design (3) EN EGX**  
PR: CES 3102.  
Introduction to steel design and AISC Manual of Steel Construction: Design of tension members; compression members; beams; beam columns; and bolted, welded, and riveted connections.
- CES 4702 Concepts of Concrete Design (3) EN EGX**  
PR: CES 3102.  
Introduction to concrete design and the ACI Building Code Requirements for reinforced concrete: Design of flexural reinforcement in beams and slabs, design of shear reinforcement, design of concrete columns.
- CES 4704 Capstone Structural/Materials Design (3) EN EGX**  
PR: EGN 3365, CES 4605, CES 4702.  
A Capstone Materials design experience for seniors in Civil and Environmental Engineering. This course will provide students with a focused design experience aimed to design for durability and reliability.
- CES 4750 Capstone Structural/Geotechnical/Material Design CPST (3) EN EGX**  
PR: EGN 3365, CES 4605, CES 4702, CEG 4011  
CPR: CGN 4851, CEG 4012 or TTE 4005.  
A capstone structural/ geotechnical/ materials design experience for seniors in Civil and Environmental Engineering. Design of structures and foundations made of steel and reinforced concrete.
- CES 4820C Timber and Masonry Design (3) EN EGX**  
PR: CES 3102, CES 4702.  
Fundamentals of timber design including beams, columns, connections and formwork. Introduction to masonry design including design of beams, walls, columns, and pilasters.
- CES 5105C Advanced Mechanics of Materials I (3) EN EGX**  
PR: EGN 3331, MAP 2302  
Analytical study of the mechanical behavior of deformable solids. Basic concepts, stress and strain transformations, special topics in beams, theory of elasticity, criteria of failure, beams on elastic foundation.
- CES 5209 Structural Dynamics (3) EN EGX**  
PR: CES 3102, EGN 3321.  
Behavior of structural components and systems when subjected to periodic dynamic loads.
- CES 5715C Prestressed Concrete (3) EN EGX**  
Fundamental principles of prestressing; calculation of losses; stress analysis and design of simple beams for flexure and shear. Examples of pressures applications.
- CGN 3021L Civil Engineering Laboratory (2) EN EGX**  
PR: CES 3102, EGN 3353, EGN 3365  
A laboratory experience in departmental facilities including the subject areas of materials, fluids, environmental engineering, and computer assisted data acquisition.
- CGN 4122 Professional and Ethical Issues in Engineering (1) EN EGX**  
The professional and ethical responsibility of engineers. The legal and ethical responsibilities of engineers in the preparation of contracts and specification. The ethics of engineer-client agreements.
- CGN 4851 Concrete Construction Materials (3) EN EGX**  
PR: EGN 3365  
Classifications and production of cements. Design and testing of concrete mixes to produce desired properties.
- CGN 4905 Independent Study (1-5) EN EGX**  
Specialized independent study determined by the students' needs and interests.
- CGN 4933 Special Topics in Civil and Environmental Engineering (1-3) EN EGX**  
New technical topics of interest to civil engineering students.
- CGN 5933 Special Topics in Civil Engineering and Mechanics (1-5) EN EGX**  
New technical topics of interest to civil engineering students.
- CGS 1540 Introduction to Databases for Information Technology (3) EN ESB**  
An introduction to database concepts with topics including query languages, data organization, architecture, and data modeling. Emphasis on relational databases with SQL. Applications to Information Technology. Requires no programming experience.
- CGS 2034 Computers and Impact on Society CASB (3) EN ESB**  
This course surveys current technology, and its application to various other disciplines. The course includes technical descriptions and protocols for computers. The course compares interdisciplinary applications between fields using technology.
- CGS 2060 Introduction to Computers and Computer Programming CAQR 6AM (3) EN ESB**  
Introduction to computer programming using a modern high-level language and the application of computational methods to problem solving.

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Overview of computer systems and their application and role in society.

**CGS 2062 Computers And Society (3) EN ESB**

This computer literacy course covers the fundamentals of hardware, software, and programming languages, presents a broad overview of data processing concepts, problems and applications for students with little or no computing background.

**CGS 2094 Cyber Ethics CAGC (3) EN ESB**

Many ethical issues, e.g. privacy, freedom of speech, security, intellectual property, and workplace globalization, are impacted by computing and related technology. These issues are examined from theoretical, cultural, and geopolitical perspectives.

**CGS 2100 Computers In Business (3) BA QMB**

A study of the use and impact of computers in all areas of business organizations. Course includes hands-on experience and the use of software packages for business analysis.

**CGS 2935 Special Topics in General Computer Studies (1-3) EN ESB**

Courses are one-time topics in general computer studies, applicable to all students. Specific course titles will be specified when the course is posted on the schedule.

**CGS 3303 IT Concepts (3) EN ESB**

PR: CGS 1540

An introduction to the various facets of the field of Information Technology. Topics such as operating systems, networking, programming, hardware, and computation theory will be overviewed.

**CGS 3845 Electronic Commerce (3) EN ESB**

PR: COP 2510 or equivalent.

An overview of how E-Commerce evolved, what EC is; how it is being conducted and managed; its major opportunities, issues, and risks. Discussions include: The Internet, intranets, firewalls, etc. Exercises will use various Web and software and packages.

**CGS 3853 IT Web Design (3) EN ESB**

PR: COP 2510 or equivalent.

An overview of how the Internet and the WWW evolved, and how Electronic Commerce is supported by web pages. The student will do exercises relative to HTML, and how browsers show that code. The student will also learn to use web page development packages.

**CHI 1120 Modern Chinese I (4) AS WLE**

Mandarin. An intensive study of basic skills: pronunciation, listening, comprehension, speaking, and some composition.

**CHI 1121 Modern Chinese II (4) AS WLE**

PR: CHI 1120 or equivalent.

A continuation of CHI 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

**CHI 1955 Overseas Study in China (1-6) AS WLE**

PR: CHI 1121, CHI 1121

Intensive study of Chinese language in China involving classroom instruction and cultural excursions conducted in Chinese. Must be enrolled in Tier I of the USF Chinese Learning in the Culture program in Qingdao. Students from other institutions eligible.

**CHI 2220 Modern Chinese III (4) AS WLE**

PR: CHI 1121 or the equivalent.

For language students who intend to attain basic proficiency.

**CHI 2221 Modern Chinese IV (4) AS WLE**

PR: CHI 2220 or the equivalent.

Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

**CHI 3241 Advanced Chinese Conversation I (3) AS WLE**

PR: CHI 2221

This is the first of a two-course sequence in advanced spoken Mandarin Chinese at the third-year level. Particular emphasis is placed on student performance in commonly encountered contexts in Chinese culture, both formal and informal.

**CHI 3242 Advanced Chinese Conversation II (3) AS WLE**

PR: CHI 3241.

This is the second of a two-course sequence in advanced spoken Mandarin Chinese at the third-year level. Particular emphasis is placed on student performance in commonly encountered contexts in Chinese culture, both formal and informal.

**CHI 4443 Networking in China and America (3) AS WLE**

PR: CHI 2221

Intensive study of Chinese language and culture at the upper division. Focus on interaction skills necessary to interact in business and professional settings.

**CHI 4905 Directed Study (1-5) AS WLE**

Permits study options in Modern Chinese not available in the regularly scheduled curriculum at departmental discretion.

**CHI 4930 Special Topics (1-3) AS WLE**

Varied topics.

**CHM 2020 Chemistry for Liberal Studies I CANP SGEN (3) AP GEP**

This course is designed for liberal arts students to learn basic chemical principles. Students will learn about reactions, energy and the scientific method. The course will have an emphasis on the chemistry of global climate change.

**CHM 2023 Chemistry for Today (3) AS CHM**

PR: High school chemistry and mathematics including algebra are recommended.

An introduction to the principles and applications of modern chemistry including the properties of matter, structural view of matter and reactions, quantitative relations in chemical reactions, technological aspects and societal impact.

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## **CHM 2032 Introduction to General, Organic, and Biochemistry I CANP (3) AS CHM**

Fundamental concepts of general, organic, and biological chemistry.

## **CHM 2045 General Chemistry I CANP SGEN (3) AS CHM**

PR: 550 SAT Quantitative score or completion of MAC 1105 College Algebra with a C or better AND one year of high school chemistry or completion of CHM 2023 with a grade of C or better.

Principles and applications of chemistry including properties of substances and reactions, thermochemistry, atomic-molecular structure and bonding, periodic properties of elements and compounds.

## **CHM 2045L General Chemistry I Laboratory (1) AS CHM**

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 CANP (3) AS CHM**

PR: CHM 2045 and CHM 2045L with a C or better or equivalent.

Principles and applications of chemistry including solutions, chemical thermodynamics, kinetics, equilibria, aqueous chemistry, electrochemistry, and nuclear chemistry.

## **CHM 2046L General Chemistry II Laboratory (1) AS CHM**

PR: CHM 2045L.

Laboratory portion of General Chemistry II. Continuation of chemistry laboratory.

## **CHM 2210 Organic Chemistry I (3) AS CHM**

PR: CHM 2046, CHM 2046L with a C or better.

Fundamental principles of organic chemistry. Lecture.

## **CHM 2210L Organic Chemistry Laboratory I (2) AS CHM**

CPR: CHM 2200 or CHM 2210.

Laboratory portion of Organic Chemistry I. Introduction of organic laboratory principles and techniques. Lec.-lab.

## **CHM 2211 Organic Chemistry II (3) AS CHM**

PR: CHM 2210 with a C or better.

Continuation of organic chemistry.

## **CHM 2211L Organic Chemistry Laboratory II (2) AS CHM**

PR: CHM 2210L

CR: CHM 2211.

Continuation of organic chemistry laboratory.

## **CHM 3120C Elementary Analytical Chemistry (4) AS CHM**

PR: CHM 2046, CHM 2046L.

Fundamentals of gravimetric, volumetric, spectrophotometric analysis. Lec.-lab.

## **CHM 3415C Physical Chemistry Methods (4) AS CHM**

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) AS CHM**

PR: CHM 2046, CHM 2046L.

Fundamental principles of inorganic chemistry including atomic structure, bonding theories and structural consequences, transition metal chemistry and illustrative laboratory work.

## **CHM 3610L Intermediate Inorganic Chemistry Laboratory (1) AS CHM**

PR: Two semesters of general chemistry lecture and lab

CR: CHM 3610.

Illustrative laboratory work concerning the fundamental principles of inorganic chemistry including atomic structure, bonding, transition metal chemistry, structural consequences and spectroscopic methods.

## **CHM 3941 Peer Leading in Chemistry (3) AS CHM**

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) AS CHM**

PR: CHM 2045, CHM 2046, CHM 2210, CHM 2211.

Discussions and assignments using abstracts, bibliographies, indices, encyclopedias, journals, patent files, electronic databases, and other information sources to obtain chemical and technical material and including written and oral presentations. Career information and opportunities also discussed.

## **CHM 4070 Historical Perspectives in Chemistry 6AC (3) AS CHM**

PR: One year of college chemistry

A study in depth of the historical and philosophical aspects of outstanding chemical discoveries and theories. Lec.-dis.

## **CHM 4130C Methods of Instrument Analysis (4) AS CHM**

PR: CHM 3120C, CHM 2211, CHM 2211L, CHM 4060, CHM 4410.

Theory and applications of instrumental methods in chemical research, chemical synthesis and analysis; electrochemical and calorimetric techniques, separation methods, spectroscopy, statistical analysis of data, computer data handling, and individual projects. Lec.-lab.

## **CHM 4131C Methods of Chemical Investigation II (4) AS CHM**

PR: CHM 4130C.

Continuation of CHM 4130C. Lec.-lab.

## **CHM 4230 Spectroscopic Analysis of Organic Compounds (3) AS CHM**

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- PR: CHM 2211  
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.
- CHM 4274 Introduction to Drug Discovery (3) AS CHM**  
PR: BSC 2010 and CHM 2211  
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.
- CHM 4300 Biomolecules I (3) AS CHM**  
PR: CHM 2211.  
Nature, structure, elucidation, synthesis and (in selected cases) organic chemical mechanisms of biochemical involvement of the major classes of organic compounds found in living systems.
- CHM 4307 BioOrganic Chemistry (3) AS CHM**  
PR: BCH 3023 or BCH 4033  
Discussion of current research directions in the field of chemical biology.
- CHM 4410 Physical Chemistry I (4) AS CHM**  
PR: CHM 2046, MAC 2242 or MAC 2282 or MAC 2312, and PHY 2054 or PHY 2049.  
Thermodynamics, the state of matter and solutions are presented. The course includes a recitation.
- CHM 4410L Physical Chemistry Laboratory (1) AS CHM**  
PR: CHM 4410.  
A physical chemistry laboratory with emphasis on modern techniques and instruments. Lab.
- CHM 4411 Physical Chemistry II (4) AS CHM**  
PR: CHM 2046, MAC 2242 or MAC 2282 or MAC 2312, and PHY 2054 or PHY 2049.  
Introduction to quantum mechanics and molecular spectroscopy. Chemical Kinetics and statistical mechanics are also presented. The course includes a recitation.
- CHM 4413 Biophysical Chemistry (3) AS CHM**  
PR: CHM 2046, CHM 4410, MAC 2242 or MAC 2282 or MAC 2312, and PHY 2054 or PHY 2049.  
This course will cover spectroscopy, bonding and kinetics with emphasis placed on biological molecules and biochemical reactions.
- CHM 4455 Chemistry of High Polymers (3) AS CHM**  
PR: CHM 2210  
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.
- CHM 4611 Advanced Inorganic Chemistry (3) AS CHM**  
PR: CHM 4410, CHM 2046, MAC 2242 or MAC 2282 or MAC 2312 and PHY 2054 or PHY 2049.  
An advanced descriptive and theoretical treatment of inorganic compounds.
- CHM 4905 Independent Study (1-3) AS CHM**  
Specialized independent study determined by the student's needs and interests. The written contract required by the College of Arts and Sciences specifies the regulations governing independent study.
- CHM 4932 Selected Topics in Chemistry (1-3) AS CHM**  
The course content will depend on the interest of faculty members and student demand.
- CHM 4970 Undergraduate Research (1-3) AS CHM**
- CHM 5225 Intermediate Organic Chemistry I (3) AS CHM**  
PR: CHM 2211, CHM 2211L, or equivalent  
This course will extend organic chemistry beyond the undergraduate level and will emphasize concepts of stereochemistry and reaction mechanisms.
- CHM 5226 Intermediate Organic Chemistry II (3) AS CHM**  
PR: CHM 5225  
An introduction to synthetic organic chemistry for graduate students and advanced undergraduates. Semester II.
- CHM 5452 Polymer Chemistry (3) AS CHM**  
PR: Either CHM 2211, CHM 2211L, and CHM 3400 or CHM 4410  
Fundamentals of polymer synthesis, structure, properties, and characterization.
- CHM 5621 Principles of Inorganic Chemistry (3) AS CHM**  
PR: CHM 4411, CHM 4610  
Chemical forces, reactivity, periodicity, and literature in organic chemistry; basic core course.
- CHM 5931 Selected Topics in Chemistry (1-3) AS CHM**  
The following courses are representative of those that are taught under this title: Natural Products, Stereochemistry, Reactive Intermediates, Photochemistry, Instrumental Electronics, Advanced Lab Techniques, Heterocyclic Chemistry, etc.
- CHS 2440 General Chemistry for Engineers (3) AS CHM**  
PR: 550 SAT Quantitative score or completion of MAC 1105 College Algebra with a grade of C or better AND one year of high school chemistry or completion of CHM 2023 with a grade of C or better.  
Introduction to important concepts and principles of chemistry with emphasis on areas considered most relevant in an engineering context.
- CHS 2440L General Chemistry for Engineers Lab (1) AS CHM**  
CR: CHS 2440.

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- Laboratory portion of General Chemistry for Engineers. Introduction to laboratory techniques, study of properties of elements, synthesis and analysis of natural and commercial materials.
- CHS 4300 Fundamentals of Clinical Chemistry (3) AS CHM**  
PR: BCH 3023.  
Theoretical and practical aspects of the analysis of various body fluids, with emphasis on the medical significance.
- CHS 4301L Clinical Laboratory (2) AS CHM**  
PR: BCH 3023 and CHM 3120C  
Laboratory experience in some of the most important clinical determinations. Lec.-Lab.
- CHT 3110 Traditional Chinese Literature in Translation (3) AS WLE**  
This course is a general survey of traditional Chinese literature from the beginnings to the Qing Dynasty (1911). Major genres including philosophical texts, poetry, fiction, drama, and prose are explored in English translation.
- CHT 3124 Modern Chinese Literature in Translation (3) AS WLE**  
An introductory survey of modern Chinese literature in translation. The course begins with the end of the Qing Dynasty (1644-1911) and extends into contemporary China. Taught in English and open to all majors. The course is not repeatable.
- CHT 3500 Introduction to Chinese Culture (3) AS WLE**  
An introductory survey of Chinese cultural traditions with an emphasis on themes important to successful interaction in contemporary Chinese society. The language of instruction is English.
- CHT 3512 Contemporary Chinese Language and Society (3) AS WLE**  
An introductory survey of modern Chinese language and society taught in English and open to all majors. Course activities revolve around developing an understanding of Chinese language and society in the Reform Era (1976-present).
- CHT 3520 Chinese Film (3) AS WLE**  
A survey of Chinese film taught in English and open to all majors. This course traces the development of Chinese film and the Chinese film industry from its beginnings in the early 1900s through the contemporary period.
- CIS 3360 Principles of Information Security (3) AS LIS**  
Board review of Information Security and related elements. Includes terminology, history of the discipline, overview of information security program management. Suitable for IS, criminal justice, political science, accounting information systems students
- CIS 3362 Cryptography and Information Security (3) AS LIS**  
PR: MAD 2104  
This course examines classical cryptography, entropy, stream and block ciphers, public key versus symmetric cryptography, one-way and trap-door functions, plus other specific tools and techniques in popular use.
- CIS 3367 Architecting Operating System Security (3) AS LIS**  
PR: CIS 3360  
This course examines tools and techniques for securing Windows and Linux operating systems. Students will acquire knowledge and skills to perform audit assessments and implement enterprise-wide operating system security.
- CIS 3932 Special Topics for Information Technology (1-3) EN ESB**  
Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.
- CIS 4250 Ethical Issues and Professional Conduct CPST 6AC (3) EN ESB**  
A capstone course for Department majors only, this course introduces students to ethical issues arising in the computer sciences, through written analysis and oral presentations of technical situations which involve ethical conflicts.
- CIS 4253 Ethics for Information Technology 6AC (3) EN ESB**  
This course will cover issues that arise from the world of online communication and its impact on our daily lives through education, processes, and information. Class discussions cover various technologies and issues that are shaping our society.
- CIS 4361 Information Technology Security Management (3) EN ESB**  
An overview of information security management techniques and concerns is presented. Topics include: Access control systems, telecommunications and network security, security management practices, application and systems development security, cryptography, disaster recovery planning, legal and ethical issues, and physical security.
- CIS 4364 Cryptology and Information Security (3) EN ESB**  
PR: COP 4530  
CPR: COP 4600.  
Covers the fundamentals of computer security. The following topics are addressed: Network Security, Cryptography, Access Control, Security Architecture and Models, Applications and Systems Development, Vulnerability Assessment.
- CIS 4365 Computer Security Policies and Disaster Preparedness (3) EN ESB**  
PR: CIS 3360.  
When an organization's functioning is interrupted by disasters, accidents, or natural events, a loss of data and/or productivity may occur. The impact on the organization is determined by how prepared it is for dealing with these disruptions.
- CIS 4412 Information Technology Resource Management (3) EN ESB**  
An overview of the information resource management function, with emphasis on

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information systems management, is covered.

Topics include planning, organizing and controlling user services, managing information system development process, and the fundamentals of EDP auditing.

## **CIS 4510 I.T. Project Management (3) AS LIS**

This course covers the general aspects of project management and emphasizes the important, special considerations which apply to information technology projects. Supporting software is used extensively.

## **CIS 4900 Independent Study in Computer Science (1-5) EN ESB**

PR: COP 4530 and CDA 3201

Specialized independent study determined by the needs and interests of the student.

## **CIS 4910 Computer Science Project (2) EN ESB**

PR: COP 4530

Offers a focused team-based design experience incorporating appropriate engineering standards and multiple realistic constraints. Projects are proposed by industry and/or other partners and are completed within a defined development process.

## **CIS 4915 Supervised Research in Computer Science (1-5) EN ESB**

PR: COP 4530 and CDA 3201

Supervised research determined by the needs and interests of the student.

## **CIS 4930 Special Topics in Computer Science I (1-3) EN ESB**

PR: COP 4530 and CDA 3201

Special topics in computer science and computer engineering.

## **CIS 4932 Special Topics for Information Technology (1-3) EN ESB**

Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

## **CIS 4935 Senior Project in Information Technology CPST (3-5) EN ESB**

Capstone project for Information Technology majors. Requires students to design, implement, and deliver a complete IT solution leveraging discipline-specific, critical thinking, and communication skills they acquired in the BS in IT program.

## **CIS 4940 Industry Internship (0-6) EN ESB**

PR: COP 4530 and CDA 3201

Individual study as practical computer science and/or computer engineering work under industrial supervision with a faculty approved outline and end-of-semester report.

## **CJC 4010 American Correctional Systems (3) BC CJP**

PR: CCJ 3024 or CCJ 3117

Analysis of the different treatment philosophies and techniques currently in use in the field, with special attention to experimental and demonstration programs.

## **CJC 4166 Alternatives to Incarceration (3) BC CJP**

PR: CCJ 3024 or CCJ 3117

This course explores a variety of alternatives to imprisoning the offender, including probation, parole, diversion, and other community-based intervention and treatment approaches.

## **CJE 4010 Juvenile Justice System (3) BC CJP**

PR: CCJ 3024 or CCJ 3117

Provides coverage of the juvenile and family courts, their clientele, and the complex of human services agencies and facilities that contribute to efforts at juvenile correctional intervention.

## **CJE 4114 American Law Enforcement Systems (3) BC CJP**

PR: CCJ 3024 or CCJ 3117

This course provides a comprehensive examination of the American law enforcement system at the federal, state and local levels and an assessment of career opportunities within the community.

## **CJE 4610 Criminal Investigation (3) BC CJP**

PR: CCJ 3024 or CCJ 3117

Covers the major components of criminal investigation, with special attention to the scientific aspects of criminal investigation and the management of major cases.

## **CJL 3110 Substantive Criminal Law (3) BC CJP**

PR: CCJ 3024, CCJ 3117

Examines the historical basis of the American criminal law system, the substantive elements of the crime, and court procedures.

## **CJL 4115 Environmental Law and Crime (3) BC CJP**

PR: CCJ 3024

The course provides students with an introduction to issues in the area of environmental crime and environmental law.

## **CJL 4410 Criminal Rights and Procedures (3) BC CJP**

PR: CCJ 3024

Emphasizes the Constitutional issues and rules that are applied and enforced by the courts while processing criminal cases.

## **CLA 3103 Daily Life in Ancient Greece CAHU 6AC (3) AS WLE**

This course surveys the major social, political, and cultural aspects of the ancient Greek world, examined both topically and chronologically across the centuries of the Ancient Greece, c. 1400 to 146 BCE.

## **CLA 3124 Daily Life in Ancient Rome CAHU (3) AS WLE**

This course surveys the major social, political, and cultural aspects of the ancient Roman world, topically and chronologically, from 753 B.C.E to 476 CE, through the literary, historical, and artistic records of the Romans.

## **CLA 3435 The Hellenistic World (3) AS HCS**

A comprehensive look at the Greek-speaking world after Alexander the Great, from Italy to India. Emphasis is on the social, intellectual and

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- aesthetic changes brought about by colliding cultures.
- CLA 3930 Selected Topics (3) AS WLE**  
An examination of various aspects of Greek and Roman Culture, based on ancient sources, literary and archaeological. Repeatable as topics vary.
- CLA 4501 Women in Antiquity 6AC (3) AS WLE**  
Women in Antiquity surveys the social, political, and cultural life of women in the ancient Mediterranean world, historically and thematically, through lecture, reading, video, and slide presentations.
- CLP 2001 Psychology of Adjustment (3) AS PSY**  
Genetic, organic, and learned factors involved in the processes of personal adjustment; applications of mental health principles to everyday living.
- CLP 4143 Abnormal Psychology (3) AS PSY**  
PR: PSY 3213 with a grade of C or better  
Descriptions, theoretical explanations, research evidence, and treatment of maladaptive behavior.
- CLP 4414 Behavior Modification (3) AS PSY**  
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.
- CLP 4433 Psychological Tests and Measurement (3) AS PSY**  
PR: PSY 3213 with a grade of C or better  
A consideration of the instruments for intellectual and personality assessment including their applications, development, and potential abuses.
- CLT 2044 Wordpower from Latin and Greek (3) AS WLE**  
Study of Greek/Latin elements as a means of building English vocabulary. Examination of Greek/Latin-based terminology from various scientific fields, its adoption into English and current usage. Attention given to Greek/Latin stems, prefixes, suffixes.
- CLT 3040 Scientific and Medical Terminology (3) AS WLE**  
A course in the Greek and Latin word elements used in science and technology.
- CLT 3103 Epic Battles and Dramatic Reversals in Greek Thought WRIN 6AC (3) AS WLE**  
This class investigates the most important texts of the Archaic and Classical Greek world, which are analyzed in both in a chronological sequence (c. 700 to 399 BCE) and by genre (epic poetry, philosophy, lyric, history, and drama).
- CLT 3123 Voyages and Metamorphoses in Roman Imagination WRIN 6AC (3) AS WLE**  
This course surveys the major literary texts of the ancient Roman world, examined through both the chronological order of their production (from the 3rd century B.C.E to the 2nd century C.E) and their classification into various literary genres.
- CLT 3370 Gods, Heroes, and Monsters in the Ancient World CAHU (3) AS WLE**  
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.)
- CLT 3511 Fictional Rome in American Film (3) AS WLE**  
Fictional Rome surveys filmic representations of ancient Rome in Hollywood, to illustrate the imaginative power of cinema to shape our perceptions of the Roman past, and exploitation of them in the context of contemporary American history and culture.
- CNT 3403 Network Security and Firewalls (3) EN ESB**  
PR: EEL 4782.  
This course surveys network security standards and emphasizes applications that are widely used on the Internet and for corporate networks. This course also examines Firewalls and related tools used to provide both network and perimeter security.
- CNT 4004 Computer Networks I (3) EN ESB**  
PR: COP 3331  
CPR: 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) EN ESB**  
PR: COP 2000  
CR: CNT 4104L  
Introduction to the design and analysis of Information Technology computer communication networks; e.g. application layer protocols, Internet protocols, network interfaces, local and wide area networks, wireless networks, bridging and routing.
- CNT 4104L Computer Information Networks Laboratory for IT (1) EN ESB**  
PR: COP 2000  
CR: CNT 4104  
This lab provides a hand-on introduction to computer networking, including wide area networks (WANs), local area networks (LANs) and the protocols used to coordinate and control communications on them.
- CNT 4411 Computing and Network Security (3) EN ESB**  
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 4504 Computer Networks II (3) EN ESB**  
PR: CNT 4004

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- CPR: 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.
- COM 2000 Introduction to Communication (3) AS SPE**  
Introduction to the roles, contexts, and issues in contemporary human communication. Required of Communication majors.
- COM 3014 Communication, Gender and Identity (3) AS SPE**  
PR: COM 2000 with C- or above  
Examines the communicative origins and implications of gender roles.
- COM 3051 Analyzing Culture and Media (3) AS SPE**  
PR: SPC 2541.  
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) AS SPE**  
PR: SPC 2541, COM 3051.  
Application of theories and methods of Cultural Studies to communication research. Emphasis on critical analysis of processes by which culture is produced, circulated, and negotiated. Majors only; nonmajors by permit only. May not be repeated for credit.
- COM 3110 Communication For Business and the Professions (3) AS SPE**  
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.
- COM 3120 Organizational Communication (3) AS SPE**  
PR: COM 2000 with C- or above  
A survey of communication concepts which impact upon organizational effectiveness.
- COM 3122 Interview Communication (3) AS SPE**  
A study of communication theory relative to persuasive interviewing with an emphasis on career interview situations.
- COM 3413 Communication and Visual Culture (3) AS SPE**  
PR: COM 2000.  
Examines the nature and practices of seeing as fundamental to communication with special emphasis on cultural and rhetorical implications of visual practices in aesthetic, political, and social arenas.
- COM 4016 Public Memory (3) AS SPE**  
PR: COM 2000, SPC 2541.  
Exploration of collective memory as public communication. Examines public memory as created and communicated in memorials, museums, mediated history, nostalgia, and story. For majors; non-majors by permit. Not repeatable for credit.
- COM 4020 Communicating Illness, Grief, and Loss 6AC (3) AS SPE**  
PR: COM 2000 with C- or above  
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.
- COM 4021 Family Communication and the End of Life (3) AS SPE**  
PR: COM 2000, SPC 3301.  
Explores theories and practices of family communication at end-of-life through language, relationships, bioethics, and case analysis techniques. For majors; non-majors by permit only. May not be repeated for credit.
- COM 4022 Health Communication (3) AS SPE**  
PR: COM 2000 with C- or above  
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.
- COM 4030 Women and Communication WRIN 6AC (3) AS SPE**  
Examines women's patterns of communication in a variety of contexts. Also offered under Women's Studies.
- COM 4050 Globalization and Democratic Discourse (3) AS SPE**  
PR: COM 2000, SPC 2541.  
Examines rhetoric of globalization and democracy from communication perspectives, especially the discourses of war, terrorism, nationalism, and security. For majors; non-majors by permit only. Not repeatable for credit.
- COM 4104 Communication, Tourism, and Travel (3) AS SPE**  
PR: COM 2000  
Focuses on cultural, experiential, and performative practices and meanings of travel and tourism as sites of communication inquiry. Majors only; non-majors by permit. Not repeatable for credit.
- COM 4124 Communication and Organizational Change (3) AS SPE**  
PR: COM 2000 with C- or above and COM 3120  
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.



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## **COM 4128 Integrated Organizational Communication (3) AS SPE**

PR: COM 3120.

Explores theories, practices, and functions of integrated communications strategies and tactics in organizational contexts. For Communication majors; non-majors by permit only. May not be repeated for credit.

## **COM 4151 Communication and Working Life in Cont Orgs (3) AS SPE**

PR: COM 3120.

Explores workers and organizations through socialization, self-presentation, technologies, identity issues, and work-family balance. Majors only; non-majors by permit. May not be repeated for credit.

## **COM 4225 Global & Cultural Issues in Health Communication (3) AS SPE**

PR: COM 4022.

Explores issues in global health, culture, and communication in health care initiatives. For majors; nonmajors by permit only. May not be repeated for credit.

## **COM 4414 Race and Gender in Popular Film and Television (3) AS SPE**

PR: SPC 2541, COM 3051.

Explores representations of race and gender in contemporary TV and film and utilizes feminist and critical race theories to interrogate social inequalities. Majors only. Non-majors by permit only. May not be repeated for credit.

## **COM 4490 Communication and Love (3) AS SPE**

PR: SPC 3301.

Examines concepts, philosophy, and theories of love in connection with communication skills. Majors only; others by permission of instructor.

## **COM 4530 Influencing Public Opinion (3) AS SPE**

PR: COM 2000, SPC 2541.

Explores foundations, history, measurement techniques, and persuasive strategies of public opinion research and practice from rhetorical perspectives. Not repeatable for credit.

## **COM 4702 Communication, Language, and Mental Illness (3) AS SPE**

PR: COM 2000, SPC 3301.

Explores intersection of mental illness and communication as language, talk-in-interaction, and discourse as social practice. For majors; non-majors by permit. May not be repeated for credit.

## **COM 4710 Writing Lives 6AC (3) AS SPE**

Emphasizes writing stories about our lives and the lives of others as a way to understand, cope with and communicate social experiences.

## **COM 4931 Special Topics in Media Analysis (3) AS SPE**

PR: SPC 2541, COM 3051.

Selects contemporary topics in media, media genres, and forms to examine how social issues are reflected and changed. Majors only; non-majors by permit only. May be repeated for credit as topics change for 9 total credits.

## **COM 4942 Communication Intern Seminar (3) AS SPE**

Seminar provides students with an opportunity to put into practice concepts and skills acquired in their study of communication. Weekly seminar sessions augment intern experience. Application for seminar must be submitted one semester prior to seminar offering.

## **COM 4958 Communication Senior Capstone CPST (3) AS SPE**

PR: COM 2000, SPC 3301, ORI 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.

## **COM 5930 Topics in Communication Studies (3) AS SPE**

Topical issues in communication.

## **COP 1930 Special Topics for Information Technology (1-3) EN ESB**

Special topics course.

## **COP 2000 Programming Fundamentals for Information Technology (3) EN ESB**

An introduction to computer programming using a modern high-level language with applications to Information Technology. Topics include variables, types, expressions, and assignment, control structures, I/O, functions, and structured decomposition.

## **COP 2270 Programming in C for Engineers (3) EN ESB**

PR: MAC 2281, MAC 2311 or MAC 2241.

This class prepares students to use the C programming language and the MATLAB environment to develop solutions to small scale scientific and engineering problems.

## **COP 2510 Programming Concepts (3) EN ESB**

PR: MAC 2281 or equivalent.

An examination of a modern programming language emphasizing programming concepts and design methodology.

## **COP 2930 Special Topics for Information Technology (1-3) EN ESB**

Special topics course.

## **COP 2931 Special Topics for Information Technology (1-3) EN ESB**

Special topics course.

## **COP 3257 JAVA for Experienced Programmers (3) EN ESB**

PR: COP 3514 or equivalent.

Program design and development using the JAVA programming language. Comparison of program design in a procedural language (C recommended) versus design in the JAVA language. Application development using advanced programming techniques.

## **COP 3331 Object Oriented Software Design (3) EN ESB**

PR: COP 3514

CPR: CDA 3103

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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 3514 Program Design (3) EN ESB**

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 Program Design for Information Technology (3) EN ESB**

PR: COP 2510

Concepts associated with the design and implementation of computer programs are studied, with emphasis on creation of programs to be developed and maintained in a variety of environments from small to large information technology organizations.

## **COP 3931 Special Topics for Information Technology (1-3) EN ESB**

Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

## **COP 4020 Programming Languages (3) EN ESB**

PR: COP 4530.

An introduction to the specification, design, and analysis of programming languages. Topics include syntax, operational semantics, type systems, type safety, lambda calculus, functional programming, polymorphism, side effects, and objects.

## **COP 4313 Symbolic Computations in Mathematics 6AM (3) AS MTH**

PR: MAS 3105 and MAP 2302.

Students will write programs to solve problems in various areas of mathematics including calculus and linear algebra with symbolic programming systems such as Maple, Mathematical, or Macsyma.

## **COP 4365 Software System Development (3) EN ESB**

PR: COP 4530.

Analysis, design, and development of software systems using objective methodology with object oriented programming and advanced software development tools (such as integrated development environments).

## **COP 4530 Data Structures (3) EN ESB**

PR: COT 3100 and COP 3331 and CDA 3103

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.

## **COP 4600 Operating Systems (3) EN ESB**

PR: COP 4530.

Introduction to systems programming. Design of operating systems. Concurrent processing, synchronization, and storage management policies.

## **COP 4610 Operating Systems for Information Technology (3) EN ESB**

PR: EEL 4854

Introduction to concepts and practices of modern operating systems. Topics include process, parallelism, memory management, resource allocation and file systems. Algorithms are used to understand many of the concepts associated with operating systems.

## **COP 4610L Operating Systems Laboratory for Information Technology (1) EN ESB**

PR: EEL 4854

Implementation and evaluation of models discussed in the lecture part of the course. Students implement operating system algorithms in stand-alone mode, and modify real operating system code. Students implement and test algorithms in a lab environment.

## **COP 4620 Compilers (3) EN ESB**

PR: COP 4530

Introduction to techniques for compiling software; lexical, syntactic, and semantic analyses; abstract syntax trees; symbol tables; code generation and optimization.

## **COP 4656 Software Development for Mobile Devices (3) EN ESB**

PR: COP 4530

This course covers software development for mobile devices, mainly cellular phones. The primary goal of the course is to teach students how to design, develop, and deploy complete market-ready applications for mobile devices.

## **COP 4703 Database Systems for Information Technology (3) EN ESB**

CR: EEL 4854

Fundamentals of database management systems are presented, covering relational, CODASYL, network, hierarchical, and object-oriented models. Topics include basic design concepts, analysis of efficiency as well as actual implementations of such systems.

## **COP 4710 Database Design (3) EN ESB**

PR: COP 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) EN ESB**

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) EN ESB**

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) EN ESB**

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 Advanced Java Programming for Information Technology (3) EN ESB**

PR: CEN 4031

Concepts of object-oriented programming in Java and Java foundation classes. Topics include classes, inheritance, interfaces, graphic user interfaces, event-driven programming, exception handling, and networking.

## **COP 4930 Information Technology Seminar (1-3) EN ESB**

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) EN ESB**

Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

## **COP 5016 Introduction to Unix and C (3) EN ESB**

Unix operating system. Internet resources. Netscape, WWW and HTML. ANSI C language, syntax. Arrays and pointers. Iterations and recursions. Header files and macros. C libraries. Structuring data. File I/O.

## **COT 3100 Introduction to Discrete Structures (3) EN ESB**

PR: MAC 2281 or equivalent.

Introduction to set algebra, propositional calculus and finite algebraic structures as they apply to computer systems.

## **COT 4115 Advanced Discrete Structures with Cryptology (3) EN ESB**

PR: COP 4530, COT 3100.

Advanced topics in discrete mathematics: number theory, groups, rings and fields, finite fields, and combinatorics, as applied to computer systems. Theoretical application of mathematic concepts to coding theory and cryptology.

## **COT 4210 Automata Theory and Formal Languages (3) EN ESB**

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) EN ESB**

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) EN ESB**

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) AS GIA**

Comparison and analysis of representative European and non-Western political systems.

## **CPO 4034 Politics of the Developing Areas (3) AS GIA**

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) AS GIA**

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) AS GIA**

Studies specific substantive areas in Comparative Politics, such as political economy or the politics of specific countries or regions.

## **CRW 2100 Narration and Description 6AC (3) AS ENG**

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 6AC (3) AS ENG**

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 6AC (3) AS ENG**

PR: CRW 2100 or CRW 3111.

An introduction to fiction writing, beginning with a practical study of the various elements of fiction and proceeding through the many processes of revision to arrive at a completed work of art.

## **CRW 3121 Fiction II 6AC (3) AS ENG**

PR: CRW 2100 or CRW 3111, CRW 3112.

A fiction workshop which provides individual and peer guidance for the student's writing and which encourages the development of critical skills.

## **CRW 3311 Form and Technique of Poetry (3) AS ENG**

An examination of the techniques employed in fixed forms from the couplet through the sonnet to such various forms as the rondel, ballad, villanelle,

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sestina, etc. Principles in the narrative, dramatic, and lyric modes are also explored.

## **CRW 3312 Poetry I (3) AS ENG**

PR: CRW 3311.

An introduction to poetry writing utilizing writing exercises employing poetic language and devices; the exercises progress to the writing of both rhymed and unrhymed metrical and non-metrical forms.

## **CRW 3321 Poetry II (3) AS ENG**

PR: CRW 3311, CRW 3312.

A poetry workshop which provides individual and peer guidance for the student's writing and which encourages the development of critical skills.

## **CRW 4120 Fiction III (3) AS ENG**

PR: CRW 2100 or CRW 3111, CRW 3112, CRW 3121.

An advanced fiction workshop in which works may be carried over from CRW 3121 or longer forms such as the novel may be begun.

## **CRW 4320 Poetry III (3) AS ENG**

PR: CRW 3311, CRW 3312, CRW 3321.

An advanced poetry workshop in which students are expected to create works exhibiting a firm knowledge of the principles explored in the preceding courses.

## **CRW 4930 Selected Topics in Creative Writing (1-3) AS ENG**

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 4805 Web Development Tools (3) EN ESB**

This course builds on web design concepts and extends them to build and maintain complete Web Sites using the current de facto industry-standard integrated web site development environment/applications.

## **CWR 4202 Hydraulics (3) EN EGX**

PR: EGN 3353.

Fundamental and applied aspects of pipe flow, free surface flow, and unsteady flow for hydraulic systems.

## **CWR 4540 Water Resources Engineering I (3) EN EGX**

PR: CWR 4202.

A study of the engineering principles involved in sustaining and managing the quantity and quality of water available for human activities with particular emphasis on surface water and ground water hydrology.

## **CWR 4541 Water Resources Engineering II (3) EN EGX**

PR: EGN 3353, CWR 4202.

The course is intended to be a technical elective for students specializing in water resources or environmental engineering. Material in the course covers subsurface hydrology including both soil

vadose zone processes and the ground water flow.

## **CWR 4812 Capstone Water**

**Resources/Environmental Design CPST (3) EN EGX**

PR: ENV 4001, CWR 4540

CR: ENV 4417, CEG 4012 or TTE 4005.

A capstone water resources design experience for seniors in Civil and Environmental Engineering. A design-oriented course to design both industrial and domestic water treatment and water transport systems and hydraulic systems.

## **DAA 2100 Fundamentals Of Modern Dance (2) FA DAN**

A studio class for students with a serious interest in concert modern dance. Emphasis upon correct alignment, development of strength, rhythmic and dynamic activity, as well as spatial and locomotor patterns. May be repeated up to six credit hours.

## **DAA 2104 Modern Dance I (2) FA DAN**

A studio class for students with a serious interest in concert modern dance. Further emphasis on correct alignment, development of strength, rhythmic and dynamic activity as well as spatial and locomotor patterns. May be repeated up to 8 credit hours.

## **DAA 2200 Fundamentals Of Ballet (2) FA DAN**

A studio class for students with a serious interest in Ballet. Emphasis on correct alignment of the body and a progressive development of positions and barre exercises as well as the application of combinations in center work using classical Ballet vocabulary (French terms). May be repeated.

## **DAA 2204 Ballet I (2) FA DAN**

A studio class for students with a serious interest in Ballet. Further emphasis on correct alignment of the body and a progressive development of positions and barre exercises as well as the application of combinations in center work using classical Ballet vocabulary (French terms). May be repeated.

## **DAA 2500 Fundamentals Of Jazz Dance (2) FA DAN**

A basic movement course in Jazz Dance involving dance vocabulary, alignment, styles and simple rhythmic patterns. May be repeated up to 6 credits.

## **DAA 2504 Jazz Dance (2) FA DAN**

PR: DAA 2500

A technique class for the intermediate level dancer to become acquainted with the dance styles and forms of musical theatre and concert jazz dance. Emphasis is on highly stylized movement with a strong rhythmic base. May be repeated.

## **DAA 2570 Jazz Theatre Dance (3) FA DAN**

PR: 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.

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## **DAA 3108 Modern Dance II (3) FA DAN**

Study of principles of modern dance technique. Practical work in exercises and movement phrases, utilizing changing rhythms and dynamics. Concert and performance attendance required. May be repeated.

## **DAA 3109 Modern Dance III (2-3) FA DAN**

Continuation of DAA 3108. Further emphasis on style and phrasing. Work on projecting mood and quality by dancing and rehearsing in more advanced choreography, leading to performance. May be repeated.

## **DAA 3209 Ballet III (1-3) FA DAN**

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 (3) FA DAN**

Positions and barre exercises. Emphasis on correct alignment of the body and the application of simple step combinations in centre work. The use of ballet vocabulary (French terms). Material is covered almost totally as practical work in class with a few outside projects. Concert and performance attendance required. May be repeated.

## **DAA 3294 Ballet Variations (1) FA DAN**

PR: DAA 3209

This course provides instruction in various forms of ballet. Semester courses include: Pointe technique, Men's Class, Character Dance, Spanish Dance and Partnering. BFA Ballet concentration students are required to complete two semester hours. May be repeated.

## **DAA 3395 World Dance Topics (1) FA DAN**

Students will experience fundamental knowledge of dance representing various world cultures. In addition to a dance/movement component, a connection will be made to historical, spiritual/religious, ethnological and environmental indigenous aspects of people involved in dance as a cultural experience. May be repeated.

## **DAA 3614 Choreography I (2) FA DAN**

PR: DAN 3614

CR: DAA 3108

BFA students must be concurrently enrolled in Modern III/IV and Ballet III. Study and execution of basic principles of composition. Preparation of studies in theme and variations, breath phrases and metric phrases.

## **DAA 3615 Choreography II (2) FA DAN**

PR: DAA 3614

Preparation of studies in rhythm, dynamics, form and motivation.

## **DAA 3624 Dance Improvisation (2) FA DAN**

For majors and non-majors. Exploring various methods of spontaneously creating dance movement in individual and group situations. Structured and unstructured approaches will be explored. May be repeated.

## **DAA 3654 Repertory I (1) FA DAN**

The development and performance of solo and/or group dances.

## **DAA 3684 Repertory II (1) FA DAN**

The development and performance of solo and/or group dances.

## **DAA 3686 Junior Performance Project (1) FA DAN**

Required for junior dance majors. Involves rehearsal and performance of work presented by a senior dance major in the dance program. Open to all university students proficient in dance techniques and concurrently enrolled in technique courses. Repeatable.

## **DAA 4110 Modern Dance IV (3) FA DAN**

Intense work on the growth of personal performance styles. Equal emphasis will be given to training the body in the development of technical excellence. May be repeated.

## **DAA 4211 Ballet IV (1-3) FA DAN**

Perfecting the execution of barre work. Intensification of centre work. More stress on aesthetic quality of movement and phrasing. Students expected to be proficient in pointe work. Outside projects, concerts, and performances are required. May be repeated.

## **DAA 4616 Choreography III (2) FA DAN**

PR: DAA 3615

CR: DAA 3109 or above

Work directed toward duets and group dances. The students will submit choreographic ideas for instructor's approval, then proceed with rehearsals. Lec-lab., reading. Rehearsal hours to be arranged.

## **DAA 4617 Choreography IV (2) FA DAN**

PR: DAA 4616

The student will prepare studies based on free form, minimal art, and chance methods. Lec-lab., reading.

## **DAA 4687 Performance (1-2) FA DAN**

Open to all university students proficient in dance techniques and concurrently enrolled in Technique. Involves rehearsal and performance of works presented by the department. May be repeated.

## **DAA 4694 Senior Choreography Project (1-5) FA DAN**

The creation of an original group work and solo within the senior's major concentration-ballet or modern. To be performed and presented with the concurrence of a faculty advisor.

## **DAA 4930 Dance Studies (1-3) FA DAN**

Dance Major status. Individual study to extended competency in technique and performance of Dance through participation in special workshops.

## **DAE 4340 Dance Pedagogy: Secondary Curriculum (3) FA DAN**

This course is designed to meet the needs of students in Dance Education to understand the scope and sequence of dance curriculum design and teaching methods appropriate to the secondary student.

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## **DAE 4394 Senior Seminar In Dance Education (2)**

### **FA DAN**

CR: DAE 4940

This course represents a synthesis of the teacher candidates courses and is required concurrently with the internship.

## **DAN 2100 Introduction To Dance 6AC (3) FA DAN**

For majors and non-dance majors, a study of the art and language of dance through lectures, discussions, concert attendance, and studio practice. Designed to develop awareness and insight of this art form through discussion, observation, writing, and movement experience.

## **DAN 2160 Entry Seminar (2) FA DAN**

This is a study of dance-related career opportunities through lectures, assigned reading and video viewing. This course will aid majors in understanding dance as an aesthetic art form through discussion and critical evaluation.

## **DAN 3584 Technical Theatre in Dance (2) FA DAN**

An introductory course in technical production including lighting, sound, scenic, stage management/production and front of house. Requires load-in hours/crew assignments during USF Fall and Spring Dance Concerts.

## **DAN 3614 Music For Dance (2) FA DAN**

Development of musical skills in movement studies. Continued study of the inter-relationship of music and dance through movement experiences, observations, video, and writing.

## **DAN 3615 Music For Dance II (2) FA DAN**

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.

## **DAN 3714 Dance Kinesiology (3) FA DAN**

This course will give the student an understanding of basic human anatomy and how it functions in relation to movement, injury prevention, teaching and performance. Individual structural differences and how these affect movement potential will also be studied. There will be an emphasis on the kinesiological analysis of movement with the goal of increased efficiency, enhanced performance and injury prevention.

## **DAN 4134 Ballet History WRIN 6AC (3) FA DAN**

This is a lecture course in dance history stemming from its roots in Renaissance court dance through the mid-20th century focusing primarily on the history of ballet as an art form.

## **DAN 4135 20th Century Dance History CPST HHCP (3) FA DAN**

Designed for majors and non-majors, this course will trace the development of dance as an art form in the 20th Century. It is designed to develop awareness and insight through lecture, discussion, video, observation and writing. Students will be required to attend at least two dance performances.

## **DAN 4162 Research in Dance (2) FA DAN**

Course will introduce basic research methodologies for conducting research in the dance genre, and will serve the student in preparing for future research based study in the field of dance. Students will conduct library, internet, and field research.

## **DAN 4180 Dance Senior Seminar (2) FA DAN**

A study of career opportunities in performance, teaching, research, design, and choreography. To aid majors in self-appraisal as artists and develop methods to further their potential in the professional world. Discussion, critical evaluation and projects.

## **DAN 4434 Laban Movement Analysis (3) FA DAN**

Specialized study in movement theories, body alignment, and movement patterns focusing on the scientific and analytical basis of movement in dance with consideration for developmental processes, technique, creative expression, and performance.

## **DAN 4906 Directed Study (1-5) FA DAN**

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) FA DAN**

The content of the course will be governed by student and instructor interest. May be repeated by majors.

## **DEP 2004 The Life Cycle (3) BC GEY**

An examination of individuals and the physical, cognitive, personality, and social changes which occur throughout the entire life span.

## **DEP 3103 Child Psychology (3) AS PSY**

Developmental and psychosocial aspects of childhood, including hereditary, maturational, psychological, and social determinants of child behavior.

## **DEP 4053 Developmental Psychology (3) AS PSY**

PR: PSY 3213 with a grade of C or better  
Survey of methods, empirical findings, and theoretical interpretations in the study of human development.

## **DEP 4220 Autism Spectrum Disorders (3) AS PSY**

PR: PSY 3213

Overview of research; information about causes of disorder; historical and philosophical views; biological & psychological research; efforts to help individuals live productive & independent lives; recent controversies; integrative approach to treatment.

## **DIE 3310 Community Nutrition (3) PH CFH**

PR: HUN 2201

An introduction to federal, state, and local nutrition intervention programs and their impacts. Emphasis is placed on diagnostic tools used in community nutrition and programs as well as methods used to address community nutrition issues. Course is not restricted to majors. It is not repeatable for credit.

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## **EAB 4715 Supervised Practicum and Field**

### **Experience in Applied Behavior Analysis (1-6) AS PSY**

PR: PSY 4933 with a grade of B or better.  
Field experience in Behavior Analysis in applied settings. Under the supervision, involves the design, implementation and evaluation of behavior analysis methods in applied settings. Includes both field practicum and didactic components. May be repeated for a maximum of 6 hours.

## **EAP 1850 English for International Students I (6) AS WLE**

This course supports the development of academic English for international students, with an emphasis on processing, analyzing, and integrating information from academic texts and lectures, and applying pragmatic skills in university interactions.

## **EAP 1851 English for International Students II (6) AS WLE**

This course supports the development of academic English for international students, with an emphasis on researching and producing papers and presentations in a variety of academic genres with appropriate academic language use.

## **EAS 4121 Hydro and Aerodynamics (3) EN EGR**

PR: EML 3701, MAP 2302.  
Advanced fluid dynamics, ideal and viscous flows, applications to flow around immersed bodies.

## **EBD 4011 Introduction to Behavior Disorders (3) ED EDS**

PR: EEX 4012, or equivalent  
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) ED EDS**

To extend competency in teaching field.

## **EBD 4941 Undergraduate Supervised Practicum in Behavior Disorders (1-6) ED EDS**

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 & Biomedical Engineering (3) EN ECH**

PR: PHY 2048, CHM 2046, MAC 2282 OR MAC 2312

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) EN ECH**

PR: PHY 2049, MAC 2283, CHM 2046, ECH 3022, ECH 3854

CPR: EGN 3343

Integration of previous knowledge into the definition of reactors and separation processes, through the hierarchical use of material balance, phenomenological and energy balance equations. Representation of streams as arrows and processes as black boxes in Box Flow Diagrams, BFD. Application of degree of freedom analysis.

## **ECH 3240L Chemical Engineering Laboratory I (3) EN ECH**

PR: ECH 3023, ENC 3246, EGN 3443.

Laboratory experiments in mass and energy balances, transport phenomena and chemical engineering thermodynamics. Accompanied by lectures on safety, data analysis, obtaining information, practice of chemical engineering and professional preparation.

## **ECH 3266 Transport Phenomena I (3) EN ECH**

PR: EGN 3343, ECH 3023, MAP 2302 OR EGN 3433

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) EN ECH**

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 Chemical & Biomedical Engineering Computations (3) EN ECH**

PR: PHY 2048, CHM 2046, MAC 2282 OR MAC 2312

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) EN ECH**

PR: ECH 3023, EGN 3343, MAP 2302 or EGN 3433

Correlation of thermodynamic properties of real systems and solutions. Description of multicomponent, multiphase systems in equilibrium. Applications to separation processes and reactor design.

## **ECH 4241L Chemical Engineering Laboratory II (3) EN ECH**

PR: ECH 4265C, ECH 3240L

Laboratory experiments in reaction engineering, process control, heat and mass transfer. Lectures on theoretical concepts explored, sensors and data acquisition, data analysis, uncertainty analysis and experimental design.

## **ECH 4244L Chemical Engineering Lab III (1) EN ECH**

PR: ECH 4415C, ECH 4243L

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- Chemical Engineering Processes laboratory experiments: fluid flow, heat transfer, reacting systems, and process control. Majors only. Not repeatable for credit.
- ECH 4264 Transport Phenomena (4) EN ECH**  
PR: MAP 2302, EGN 3343  
Mathematical description and solution of fundamental problems in heat, mass and momentum transfer. Estimation of transport coefficients. Application in fluid flow and heat exchange.
- ECH 4265C Mass Transfer Operations (4) EN ECH**  
PR: ECH 4845, ECH 4264, ECH 4123  
Integration of phase equilibria with the principles of fluid mechanics, heat and mass transfer in the description of separation processes. Selection of the number of stages and limiting operating conditions in cascades -- NTU and HTU. Sizing of partial condensers and pressure differential in columns. Transfer to single particles.
- ECH 4267 Transport Phenomena II (3) EN ECH**  
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 4323C Process Dynamics and Control (3) EN ECH**  
PR: ECH 3702, ECH 4265C  
Modeling of process dynamics. Simulation of dynamic systems. Analysis and synthesis of feedback control systems. Stability. Design of feedback control systems. Concepts of advanced control systems.
- ECH 4415C Reaction Engineering (4) EN ECH**  
PR: CHM 2210, ECH 4265C  
Integration of chemical equilibrium and kinetics, heat transfer and fluid mechanics into the hierarchical description of reacting systems. Analysis and selection of operating conditions and contacting models. Sizing. Restricted to department majors.
- ECH 4418 Separation Processes (3) EN ECH**  
PR: ECH 3266 and ECH 4123 and ECH 4846  
CR: ECH 4267  
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) EN ECH**  
PR: CHM 2210  
CPR: ECH 4418, ECH 4267  
The course introduces design of commercial chemical reactors, emphasizing synthesis of chemical kinetics and transport phenomena.
- ECH 4605 Product and Process Systems Engineering (3) EN ECH**  
PR: ECH 4264, ECH 4265C, ECH 4845  
Methods of process and product cost estimation, profitability analysis, selection among alternatives, and optimization. Uncertainty and risk analysis. Safety. Batch process design and operation. Introduction to process synthesis and product design.
- ECH 4615 Product and Process Design CPST (3) EN ECH**  
PR: 4415C, ECH 4605  
CR: ECH 4323C  
Synthesis and analysis of economically feasible and environmentally acceptable chemical processing routes; Design of safe chemical production and treatment facilities; Chemical product design; Computer Aided-Design; Case studies and Design Project.
- ECH 4644 Process Equipment and Safety (3) EN ECH**  
PR: ECH 4264, ECH 4123  
CPR: ECH 4265  
Design, sizing, selection and preparation of equipment specifications for the process industry in accordance with process safety management guidelines and OSHA requirements.
- ECH 4846 Numerical Methods in Chemical Engineering (3) EN ECH**  
PR: ECH 3023, EGN 3343, EGN 3433 or MAP 2302.  
Computer usage in chemical engineering. Use of computer methods to solve chemical engineering problems. Solution of linear and nonlinear algebraic and differential equations that arise in chemical engineering. Optimization methods.
- ECH 4905 Independent Study (1-4) EN ECH**  
Specialized independent study determined by the student's needs and interests. Students must have contract with instructor.
- ECH 4931 Special Topics in Chemical Engineering II (1-3) EN ECH**
- ECH 4936 Undergraduate Seminar (1) EN ECH**  
CPR: ECH 3023  
Introduction to the profession. Career development. Information sources for Chemical Engineers. Professional organizations. Ethics in the profession. Safety and Chemical Engineering. Lifelong learning. Leadership in the profession. Legal issues.
- ECH 4944 Industry Internship (1-6) EN ECH**  
PR: ECH 3023  
Individual study as practical chemical and biomedical engineering related work under industrial supervision with a faculty approved outline and end-of-semester report.
- ECH 5320 Chemical Process Engineering I (4) EN ECH**  
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.



# COURSE DESCRIPTIONS

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- Computer software will be used to obtain solutions to many problems.
- ECH 5321 Chemical Process Engineering II (4) EN ECH**  
Basic concepts of fluid mechanics, including viscous fluids, pipe flow with minor losses, simple fluid machinery, momentum and external flow. Steady state conductive and convective heat transfer. Not available for chemical engineering students.
- ECH 5322 Chemical Process Engineering III (4) EN ECH**  
Basic concepts of fluid phase equilibrium, chemical equilibrium, separation processes, and chemical reactors. Not available for chemical engineering students.
- ECH 5324 Automatic Process Control II (3) EN ECH**  
PR: ECH 4323C  
The course covers the root locus and frequency response methods to study stability of control loops. The techniques of ratio, cascade, feed forward, selective, override, and multi-variable control techniques are discussed in detail and shown how to utilize to design control systems, z-transforms and discrete controllers including PID, Dahlin and deadline compensation.
- ECH 5327 Chemical Process Control (4) EN ECH**  
Basic concepts of feedback control, process dynamics, process controllers (PID) including tuning, control loop stability, cascade, ratio, selective, override, feedforward, and multivariable control. Not available for chemical engineering students.
- ECH 5740 Theory and Design of Bioprocesses (3) EN ECH**  
Introduction to biotechnology, including applied microbiology, enzyme technology, biomass production, bioreactor design, and transport processes in biosystems.
- ECH 5747C Selected Topics in Chemical Engineering Biotechnology (1-3) EN ECH**  
Selected topics in engineering in biotechnology, including cell separation technology, immobilized enzymes and cells, food engineering, biohazardous waste, and bioseparations.
- ECH 5748 Selected Topics in Biomedical Engineering (1-3) EN ECH**  
Selected topics in biomedical engineering, including biomedical engineering, biomedical materials, biodynamics of circulation, separation processes in biomedical systems, and artificial organ systems.
- ECH 5785 Sustaining the Earth: An Engineering Approach (3) EN ECH**  
An approach of global perspective on ecological principles revealing how all the world's life is connected and sustained within the biosphere and how engineering provides the tools to design solutions engaging materials science & environmental ethics.
- ECH 5786 Green Engineering (3) EN ECH**  
Synthesis and design of green chemical, biological and energy conversion processes and products. Environmental impact analysis; green chemistry and materials; life cycle analysis; industrial ecology; systematic methods and real-life examples.
- ECH 5930 Special Topics III (1-4) EN ECH**
- ECH 5931 Special Topics IV (1-4) EN ECH**
- ECO 1000 Basic Economics CASB (3) AS ECN**  
Survey of economic principles and issues. Scarcity, choice, markets, prices, the monetary system, unemployment, inflation, international trade and finance.
- ECO 2013 Economic Principles (Macroeconomics) CASB SGES (3) AS ECN**  
ECO 2013 introduces students to basic economic terminology, definitions and measurements of macroeconomic data, simple macroeconomic models, fiscal and monetary policy, and international macroeconomic linkages.
- ECO 2023 Economic Principles (Microeconomics) (3) AS ECN**  
Introduction to the theory of price determination. How an economy decides what to produce, how to produce, and how to distribute goods and services.
- ECO 2052 Analytical Tools for Economists (3) AS ECN**  
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) AS ECN**  
Topics selected by department. May be repeated if topics vary.
- ECO 3101 Intermediate Price Theory (3) AS ECN**  
PR: ECO 2023 and MAC 2233 or MAC 2311 or equivalent.  
The price system and allocation of scarce resources between competing uses. May not receive credit for both ECP 3703 and ECO 3101.
- ECO 3203 Intermediate Macroeconomics (3) AS ECN**  
PR: ECO 2013 and ECO 3101 or ECP 3703 with a grade of  
Determination of income, employment, prices, and interest rates. Aggregate demand and aggregate supply.
- ECO 3622 American Economic History (3) AS ECN**  
PR: ECO 2013 and ECO 2023.  
Growth and evolution of American economic institutions from Colonial times to the present.
- ECO 3703 International Economics (3) AS ECN**  
PR: ECO 2013 and ECO 2023.  
Role of international trade in the U.S. economy. Gains from trade, balance of payments, exchange

# COURSE DESCRIPTIONS

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rate determination, balance of payments stability, and international commercial policy.

## **ECO 4105 Advanced Price Theory (3) AS ECN**

PR: ECO 3101 or ECP 3703 with a grade of B or better

An advanced survey of special topics in microeconomics: borrowing and saving, decision making under uncertainty, markets for capital and labor, game theory, production and exchange efficiency, social welfare, and efficiency consequences of market and non-market allocation.

## **ECO 4201 Advanced Macroeconomic Theory (3) AS ECN**

PR: ECO 3203 with a grade of B or better

An advanced analysis of a particular topic or topics in macroeconomics. Areas of study include the theories of money, growth, and business cycles. Discussions of how such theories accord with the data are also presented.

## **ECO 4270 Economic Growth (3) AS ECN**

PR: ECO 3101 or ECP 3703.

This course provides an introduction to the theory of economic growth, the process whereby the level of real output per capita increases over time. Emphasis is on the role of factor accumulation and productivity growth and their underlying fundamentals.

## **ECO 4303 History of Economic Thought (3) AS ECN**

PR: ECO 2013 and ECO 2023.

Development of economic thought from Plato to Marshall.

## **ECO 4323 Radical Political Economy (3) AS ECN**

PR: ECO 1000 or ECO 2013 or ECO 2023

The radical (left) and Marxist schools of thought in economics. Application of radical theory to problems of advanced capitalist and socialist societies.

## **ECO 4400 Game Theory and Economic Applications (3) AS ECN**

PR: ECO 2013 and ECO 2023

This course is an introduction to game theory, the study of strategic behavior among parties having opposed, mixed or similar interests.

## **ECO 4401 Introduction to Mathematical Economics (3) AS ECN**

PR: ECO 2013 and ECO 2023, and MAC 2241 or MAC 2233

Mathematical models of optimizing behavior and economic equilibrium.

## **ECO 4421 Introduction to Econometrics (3) AS ECN**

PR: ECO 3101 or ECP 3703, and QMB 3200 with a grade of B or better

Survey of basic econometric techniques. Regression analysis employed to estimate consumption, investment, demand, cost, and production functions. Examines problems of auto-correlation, heteroscedasticity, multicollinearity, and specification errors.

## **ECO 4504 Public Finance (3) AS ECN**

PR: ECO 3101 or ECP 3703 with a grade of B or better

The public sector and its contribution to economic welfare. Government expenditures and revenues. Resource allocation, income distribution, stabilization, and economic growth.

## **ECO 4704 International Trade and Policy (3) AS ECN**

PR: ECO 3101 or ECP 3703 with a grade of C or better

Advanced analysis of international trade theory and commercial policy, international economic integration, multinational enterprise.

## **ECO 4713 International Macroeconomics (3) AS ECN**

PR: ECO 3101 or ECP 3703 with a grade of C or better

Advanced analysis of international macroeconomic relationships. Foreign exchange market, international monetary system balance of payments.

## **ECO 4905 Independent Study (1-3) AS ECN**

Specialized independent study determined by the student's needs and interests. May be repeated up to 6 hours.

## **ECO 4914 Independent Research (1-3) AS ECN**

Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 6 hours.

## **ECO 4935 Selected Topics in Economics (1-3) AS ECN**

Topics to be selected by the instructor or instructors on pertinent economic issues.

## **ECO 4970 Economics Honors Thesis (3) AS ECN**

This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to develop explanations or solutions to academically interesting business problems or opportunities.

## **ECP 3125 Economics of Inequality (3) AS ECN**

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.

## **ECP 3201 Economics of Women and Work (3) AS ECN**

PR: ECO 1000 or ECO 2013 and ECO 2023

Survey of research on women, men and work in the labor market and the household. Focuses on the economic status of women. Includes historical perspective, examination of the family as an economic unit, changing work roles, and gender differences in occupation and earnings.

## **ECP 3203 Labor Economics (3) AS ECN**

PR: ECO 3101 or ECP 3703 with a grade of C or better

Determinants of wage and employment levels; occupational, industrial and geographical wage

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- differentials; union and public policy effects on labor markets; the economics of discrimination; inflation, and unemployment.
- ECP 3302 Environmental Economics (3) AS ECN**  
PR: ECO 2023  
An economic analysis of environmental issues. The economics of resource use and pollution control are examined using the concepts of externalities, cost-benefit analysis, public goods, and property rights.
- ECP 3403 Industrial Organization (3) AS ECN**  
PR: ECO 3101 or ECO ECP 3703.  
Behavior of firms and market structure when the standard assumption of perfect competition in the market is violated. Existence of market power, how firms create and maintain it, implications of market power, and related public policy issues.
- ECP 3413 Economics of Regulation and Antitrust (3) AS ECN**  
PR: ECO 2013 and ECO 2023  
Economic analysis of the rationale and performance of government regulation and antitrust policy. Examination of antitrust issues such as price fixing, mergers, and monopolization, and issues regulating electric utilities, airlines, trucking, consumer product safety, product quality, and the environment.
- ECP 3530 Economics of Health (3) AS ECN**  
PR: ECO 3101 or ECP 3703 with a grade of C- or better  
Application of economic methods to health care topics such as demand for medical care, public and private health insurance, physician and hospital supply of medical care, government regulations, and national healthcare systems.
- ECP 3613 Urban Economics (3) AS ECN**  
PR: ECO 3101 or ECP 3703  
The role of space in understanding urban areas and their problems. Economic forces determining where people and firms locate within urban areas. Urban economic growth and development, land-use regulation, urban sprawl, transportation, urban government.
- ECP 3623 Regional Economics (3) AS ECN**  
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.
- ECP 3703 Managerial Economics (3) AS ECN**  
PR: ECO 2023  
Application of microeconomic theory to problems in business decision making with a special focus on price determination. May not receive credit for both ECP 3703 and ECO 3101. Formerly ECO 3100.
- ECP 4006 Economics of Sports (3) AS ECN**  
PR: ECO 3101 or ECP 3703  
This course teaches economics using sports as a backdrop. Topics covered include the economics of labor markets, exploitation, discrimination, monopoly, monopsony, game theory, bargaining, and cartels. No particular knowledge of sports is required.
- ECP 4451 Law and Economics (3) AS ECN**  
PR: ECO 2013 and ECO 2023  
Advanced analysis of the economic impact of tort, criminal, property, and contract law as well as in the formation and adjudication of law.
- ECP 4505 Economics of Crime (3) AS ECN**  
PR: ECO 2013 and ECO 2023  
Application of economic theory to the analyses of criminal behavior, crime prevention, law enforcement, sanctions, and corrections.
- ECP 4510 Economics of Education (3) AS ECN**  
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) AS ECN**  
PR: ECO 3101 or ECP 3703  
This course examines strategies businesses can employ to improve their abilities to compete profitably. Employs game theory to examine horizontal and vertical boundaries of firm, strategic diversification, pricing, and entry deterrence.
- ECS 3013 Economic Development (3) AS ECN**  
PR: ECO 2013 and ECO 2023  
Economic development in emerging nations.
- ECS 4003 Comparative Economic Systems (3) AS ECN**  
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) AS ECN**  
PR: ECO 1000, or BOTH ECO 2013 and ECO 2023  
The course examines key aspects of economic reform efforts in Latin America and the Caribbean and the challenges facing the region at the beginning of the 21st century.
- ECT 4905 Independent Study: Industrial-Technical Education (1-4) ED EDV**  
Specialized independent study determined by the student's needs and interests.
- ECT 4909 Directed Study: Industrial-Technical Education (1-3) ED EDV**  
To extend competency in teaching field.
- ECT 4936 Senior Seminar in Industrial-Technical Education (2) ED EDV**  
CR: EVT 4940.  
Synthesis of teacher candidate's courses in complete college program.

# COURSE DESCRIPTIONS

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## **ECT 5386 Preparation and Development for Teaching (4) ED EDV**

The development of selected instructional materials, use of new educational media, performance evaluation instruments, and counseling techniques.

## **ECW 5315 Program Management: Diversified Cooperative Training (3) ED EDV**

Organization, coordination, and budgeting of adult, cooperative, and special programs.

## **EDE 4223 Creative Experiences for the Child (3) ED EDR**

Provides students with critical understanding of visual arts, music, movement, and drama in K-6 curriculum. Students will develop knowledge and strategies to incorporate creative expression into integrated curriculum. Restricted to majors. Not repeatable.

## **EDE 4301 Instructional Planning for Diverse Learners (3) ED EDR**

This course examines the legal issues affecting classroom/school management, school safety, professional ethics and elementary school methods. The course explores the current knowledge of best practices of a variety of teaching and management strategies and methods deemed appropriate for a diverse elementary classroom setting including ESOL students and other exceptionalities.

## **EDE 4504 Creating and Differentiating Learning Environments (3) ED EDR**

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 WRIN 6AC (3) ED EDR**

CR: EDE 4940

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) ED EDR**

Specialized independent study determined by the student's needs and interests.

## **EDE 4909 Directed Study: Elementary Education (1-3) ED EDR**

To extend competency in teaching field.

## **EDE 4940 Internship: Elementary Education CPST (3-12) ED EDR**

PR: EDE 4941 and EDE 4942

CR: EDE 4936

Teacher candidate required to demonstrate professional competencies during full day internship in a public or private elementary school.

## **EDE 4941 Childhood Education Internship Level I (3) ED EDR**

CR: RED 4310, EDG 4620

Students spend six hours per week in a supervised in-school experience and attend weekly seminar.

## **EDE 4942 Childhood Education Internship Level II (3-6) ED EDR**

PR: EDE 4941, RED 4310, EDG 4620, EDF 3122, LAE 4314, EDE 4301, MAE 4310, SCE 4310, LAE 4414, SSE 4313, EME 2040.

Students spend two days per week in a supervised internship experience in classroom settings and attend a weekly seminar. Course is restricted to Elementary Education majors. Course is repeatable for credit, for a total of 6 credit hours.

## **EDE 4943 Alternative Setting Field Experience (3) ED EDR**

PR: EDE 4942.

This alternative setting field experience course provides Undergraduate Teacher Candidates with opportunities to work with children in non-traditional, diverse settings and integrate course and field experiences to facilitate learning.

## **EDE 4944 Childhood Education Internship Level III (3) ED EDR**

PR: EDE 4942.

This internship experience complements foundational coursework expected in the Elementary Education program. Students spend two full days per week in an internship experience in K-6 classrooms. The classroom experiences are supplemented by a weekly seminar.

## **EDF 2005 Introduction to the Teaching Profession (3) ED EDC**

Introductory survey course required for admission into the College of Education. A broad overview of the history, sociology and philosophy of education in the United States focuses on education as a field of study and teaching as a profession. Includes lecture and field experience.

## **EDF 2085 Introduction to Diversity for Educators (3) ED EDC**

PR: EDF 2005

Introductory survey course required for admission into the College of Education. Places schools and teaching within the context of the U.S. as a pluralistic society. Topics include: the demographics of diversity; prejudice; elements of culture; American heritage of diversity and its value; and barriers to cultural understanding. Includes lecture and field experience.

## **EDF 3122 Learning and the Developing Child (3) ED EDF**

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) ED EDF**

PR: General Psychology

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- 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 6AC (3) ED EDF**  
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 CASB HHCP (3) ED EDF**  
History of childhood, education, and schooling in the U.S. from early European and African contact to the present.
- EDF 3604 Schools and Society WRIN 6AC (3) ED EDF**  
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) ED EDF**  
An introduction to child development and learning from an educational and psychological perspective. Emphasis is on the application of relevant constructs as they would reflect developmentally appropriate practices in early childhood learning settings.
- EDF 4131 Learning And The Developing Adolescent (3) ED EDF**  
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) ED EDQ**  
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) ED EDQ**  
Studies in Research Design introduces students to the logic and dynamics of the research process.
- EDF 4905 Independent Study: Educational Foundations (1-4) ED EDF**  
Specialized independent study determined by the student's needs and interests.
- EDF 4909 Directed Study: Educational Foundations (1-3) ED EDF**  
To extend competency in teaching field.
- EDF 5607 Trends in Education Politics (3) ED EDF**  
Contemporary education politics in the U.S. with interdisciplinary social-science perspectives.
- EDG 2701 Teaching Diverse Populations and Field Experience (3) ED EDC**  
Introductory survey course required for admission into the College of Education. Places schools and teaching within the context of the U.S. as a pluralistic society. Topics include: the demographics of diversity; prejudice; elements of culture; American heritage of diversity and its value; and barriers to cultural understanding. Includes lecture and field experience.
- EDG 4620 Curriculum and Instruction (3) ED EDC**  
An introduction to the field of curriculum and instruction. Emphasis is placed on principles of curriculum development and use of instructional strategies. Students will develop, implement, and evaluate a variety of lesson plans.
- EDG 4909 Directed Studies (1-4) ED EDC**  
To extend competency in teaching field.
- EDM 3403 Middle Level Education (3) ED EDI**  
Middle level teacher candidates will learn the tenets of middle level education for today's young adolescent learner, with an emphasis on the developmental needs of young adolescent learners and the latest trends and issues in middle level education.
- EDM 3620 Teaching the Young Adolescent Learner (3) ED EDI**  
Middle level teacher candidates will learn about the links between the developmental needs of young adolescents, learning theories, middle level curriculum, middle level instructional strategies, ethical behavior and professional competence.
- EDM 4406 Contemporary Issues in STEM Education CPST (3) ED EDI**  
CR: MAE 4942 or SCE 4942  
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.
- EDP 3271 Child Development within a School Context (1) ED EDF**  
An introductory course designed to acquaint students with cognitive developmental theories and research that can be applied within a school context. Emphasis on the elementary school years. Restricted to Elementary or Special Education major.
- EDP 3272 Learning within a School Context (1) ED EDF**  
An introductory course designed to acquaint students with brain development and learning that can be applied within a school context. Emphasis on the elementary school years. Restricted to Elementary or Special Education majors.
- EDP 3273 Learning and Development within the School Context (3) ED EDF**  
An introductory course designed to acquaint students with developmental theories and research that can be applied within a school context. This course is required and restricted for the undergraduate elementary education program.
- EDP 4275 Enhancing Children's Learning and Development within a School Context (1) ED EDF**  
A course that helps students to design instruction while considering individual differences & theories

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and research in child development and learning. Emphasis on the Elementary School years. Restricted to elementary or Special Education majors.

**EEC 4008 Teaching Literature and Writing in Early Childhood WRIN 6AC (3) ED EDR**

This course is designed to provide pre-service teachers with the skills necessary to implement a coordinated literature program and an integrated writing curriculum.

**EEC 4203 Programs for Young Children (3) ED EDR**

Develops students' understanding of historical and social foundations of early childhood education, establishing professional beliefs regarding teaching young children, and developing an appropriate learning environment.

**EEC 4211 Science for Young Children (3) ED EDR**

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) ED EDR**

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) ED EDR**

Develops students' understandings of young children's creative expression through art, music, movement, play and drama. Emphasizes how to plan, implement, and evaluate appropriate learning experiences as well as selection of appropriate instructional materials.

**EEC 4307 Cognitive Experiences for Young Children (3) ED EDR**

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) ED EDR**

The purpose of this course is for pre-service teachers in the Early Childhood Program to apply research-based learning theories to plan and teach math effectively in the Early Childhood classroom.

**EEC 4408 Child, Family & Teacher Relations (3) ED EDR**

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) ED EDR**

CR: LAE 4414, EEC 4408, RED 4310.

This course for early childhood education majors explores the current knowledge of guidance procedures and techniques for managing classrooms for children ages 3 to 8 years old.

**EEC 4706 Language and Emerging Literacy (3) ED EDR**

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) ED EDR**

Specialized independent study determined by the student's needs and interests.

**EEC 4909 Directed Study: Early Childhood Education (1-3) ED EDR**

To extend knowledge in teaching field.

**EEC 4936 Senior Seminar in Early Childhood Education CPST (3) ED EDR**

CR: EEC 4940

This course focuses on helping the student synthesize university coursework and experiences in a full-time Pre-K and primary teaching placement. Emphasis is placed on planning and implementing developmentally appropriate teaching-learning experiences.

**EEC 4940 Internship: Early Childhood (10) ED EDR**

CR: EEC 4936

Teacher candidate is required to demonstrate professional competencies during one semester of full-day internship in a public or private elementary school.

**EEC 4941 Field Experience I (3) ED EDR**

Field placement with three and four year olds where teacher candidates have opportunities to apply knowledge and skills in authentic situations and become objective observers of young children's development. Weekly seminars are conducted in conjunction with the field experience which provide teacher candidates an opportunity for reflection on their understandings.

**EEC 4942 Field Experience II (3) ED EDR**

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

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development for program planning for both typical and atypical children.

## **EEC 4943 Field Experience III (3) ED EDR**

Field placement in kindergarten or primary grade where teacher candidates have opportunities to apply knowledge and skills in authentic situations. Focus on developing deeper understanding of growth and development and relationship to curriculum planning with an emphasis on self-evaluation of knowledge, skills, and dispositions essential for teaching.

## **EEE 3302 Electronics I (3) EN EGE**

PR: EGN 3373 with a minimum grade of B.  
A course in the physical principles of electronic devices with emphasis on semi-conductor electronics. Includes the analysis and design of amplifiers and switching circuits.

## **EEE 3394 Electronic Materials (3) EN EGE**

PR: CHM 2045, PHY 2049.  
This course provides electrical engineering students with a background in material science and quantum physics as these apply to electrical/electronic material properties.

## **EEE 4274 MEMS I: Chemical/Biomedical Sensors and Microfabri (3) EN EGE**

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) EN EGE**

PR: EEE 3302.  
Provides further study in electronic circuits. Includes feedback and frequency response techniques in amplifier design.

## **EEE 4305 Communications Electronics (3) EN EGE**

PR: EEE 4301  
Provides the basic principles of RF communications circuits including oscillators, mixers, high frequency amplifiers, etc. Requires the design and implementation of a short range communications link including a transmitter and a superheterodyne receiver.

## **EEE 4351C Semiconductor Devices (3) EN EGE**

PR: EEE 3394.  
An introduction to the fundamentals of semiconductor materials and semiconductor device operation.

## **EEE 4359 Analog CMOS/VLSI Design (3) EN EGE**

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.

## **EEE 4410 System on a Chip (3) EN EGE**

PR: EGN 3373  
This course addresses the newly emerging area of "system on a chip", 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) EN EGE**

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) EN EGE**

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) EN EGE**

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 5357 Analog CMOS/VLSI Design (3) EN EGE**

PR: EEE 4301  
Design of analog circuits for CMOS/VLSI design. Op amps, comparators, D to A and A to D converters. Switched capacitor filters. Analog simulation.

## **EEE 5382 Physical Basis Of Microelectronics (3) EN EGE**

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 Electrical Engineering Computer Methods (3) EN EGE**

Use of computers to perform analysis, simulation, and design of Electrical Engineering systems. Use of computer systems, including Internet resources. Use of analytical software. Computer programming in C++ for the solution of Electrical Engineering problems.

## **EEL 3100 Network Analysis and Design (3) EN EGE**

PR: EGN 3420 with a minimum grade of C and EGN 3374 with a minimum grade of B.  
A third course in linear circuit analysis and design. Transient and steady-state responses of passive RLC networks to various functions.

## **EEL 3115L Laboratory I (1) EN EGE**

PR: EGN 3373 with a minimum grade of B.  
Basic circuit theory applications; computer-aided design tools, electrical measurement techniques.

## **EEL 3116L Laboratory II (1) EN EGE**

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PR: EEL 3115L and EEE 3302.

This laboratory is designed to introduce electrical engineering students to the design, building and testing of active electronic networks. Computer Aided Design tools and computer data acquisition strategies are examined in greater detail.

## **EEL 4030 Electrical Systems Environments (3) EN EGE**

PR: MAP 2302 and PHY 2049

Dynamics, vibration, thermodynamics, and heat transfer in electrical, electronic, and electromechanical systems and their environments.

## **EEL 4102 Linear Systems Analysis (3) EN EGE**

PR: EGN 3420 with a minimum grade of C and EGN 3374 with a minimum grade of B.

Provides further study in the analysis of linear networks and systems. Includes time and frequency domain points of view. Laplace, Fourier and superposition integrals.

## **EEL 4243 Switching Power Supply Design (3) EN EGE**

PR: EEE 4301

Provides the basic principles of switching power supply circuits: magnetic circuits, power semiconductors, Buck, Boost, and Flyback configurations, dc to dc converters, dc to ac inverters. Requires the design and construction of a switching power supply.

## **EEL 4283 Sustainable Energy (3) EN EGE**

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 4420 RF & Microwave Measurements (2-3) EN EGE**

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.

## **EEL 4421 RF/Microwave Circuits I (3) EN EGE**

PR: EEL 3100, EEL 4471.

Introduction to passive microwave circuit design. Investigate the characteristics of transmission lines used in modern microwave systems, the tools used for analysis, and some common circuit topologies for matching, filtering and power distribution. Part one of a two-part sequence. EE majors only. Not available on an S/U basis.

## **EEL 4422 RF/Microwave Circuits II (3) EN EGE**

PR: EEL 4421.

Introduction to active RF/Microwave circuit design. Investigate the characteristics of amplifiers and oscillators used in modern microwave systems,

the tools used for analysis, and some common circuit topologies for biasing and matching. Substantial coverage of stability analysis, constant gain methods and noise figure. Part two of a two-part sequence. EE majors only. Not available on an S/U basis.

## **EEL 4423L Wireless Circuits & Systems Design Laboratory (2) EN EGE**

PR: EEL 4471.

An extensive hands-on introduction to wireless radio frequency and microwave circuits and systems, involving modern measurements, fabrication and computer-aided design experiences at both component and sub-system levels. Not available on an S/U basis.

## **EEL 4471 Electromagnetics (3) EN EGE**

PR: MAP 2302 or EGN 3433, PHY 2049, PHY 2049L and EGN 3373 with a minimum grade of B. Electromagnetic field theory, including static and dynamic electromagnetic fields; applications; environmental effects (effects of radiation, magnetic fields).

## **EEL 4512C Introduction to Communication Systems (3) EN EGE**

PR: EEL 3100 and EEL 4102

Provides an introduction to the fundamental principles and techniques of analog and digital communication systems. Theory is put into practice by investigating a variety of applications. Lectures and projects develop understanding of modern communication systems design and analysis.

## **EEL 4567 Electro-Optics (3) EN EGE**

PR: EEL 3115L, EEL 3116L, EEL 4471.

An introduction to the field of electro-optics, including visible and infra-red sources and detectors, radiometry, optical and electronic components, and fiber optics.

## **EEL 4595 Mobile and Personal Communication (3) EN EGE**

Providing the students with a comprehensive knowledge of most technical aspects, operations, and applications of second/third/fourth generations and future cellular mobile and personal communication technology.

## **EEL 4657 Linear Control Systems (3) EN EGE**

PR: EEL 3100.

Introduction to analysis and design of linear feedback control systems. Covers block diagram, flow charts, Bode, Nyquist, and root locus techniques.

## **EEL 4657L Linear Controls Laboratory (1) EN EGE**

PR: EEL 3100

CR: EEL 4657

This laboratory introduces students to the techniques needed for the design and implementation of automatic industrial control systems. Students will learn the basics of the software and hardware used for the design and implementation of control systems.

## **EEL 4705 Logic Design (3) EN EGE**



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- Binary number systems; truth functions; Boolean algebra; canonical forms; minimization of combinational logic circuits; synchronous logic circuits in computers.
- EEL 4705L Logic Laboratory (1) EN EGE**  
PR: EEL 4705  
Develop designs and demonstrate logic concepts. Schematic capture for design implementation, simulation and design verification.
- EEL 4727C Digital Signal Processing with Field Programmable (3) EN EGE**  
PR: EEL 4102 and EEL 4512C  
Development of real-time digital signal processing systems from algorithm to hardware using DSP, FPGA and hybrid DSP/FPGA rapid prototyping platforms. The course has both lecture and laboratory components.
- EEL 4743L Microprocessor Laboratory (1) EN EGE**  
CR: EEL 4744.  
Application of microprocessors and microcontrollers for data entry, processing, display and real time signal input/output and control.
- EEL 4744 Microprocessor Principles and Applications (3) EN EGE**  
PR: EEL 4705.  
Functional Description. Arithmetic and Logic capabilities. Control and Timing. Interrupts and priority systems. Software design and documentation. Distributed function processing.
- EEL 4756 Digital Signal Processing (3) EN EGE**  
PR: EEL 4102  
Sampling and quantization of signals; frequency-domain representations, transforms; digital filtering filter structures; DFT, FFT; multi-rate processing, Special analysis.
- EEL 4781C Distributed Process & Computer Networks (3) EN EGE**  
PR: EEL 4851C.  
Design and analysis of distributed processing systems. Covers communication hardware and software, network operating systems, and reliability enhancement techniques.
- EEL 4852C Data Base Systems (3) EN EGE**  
PR: EEL 4851C.  
Fundamentals of data base management systems. Codasyl, network, hierarchical, and relational data base systems are analyzed, and typical applications are presented.
- EEL 4854 Data Structures and Algorithms for Information Technology (3) EN ESB**  
PR: COP 3515  
Representing data for manipulation by the computer is studied. Design and analysis of well-known data structures and algorithms to manipulate them, are studied. Program efficiency, clarity and speed are considered in various structures and algorithms.
- EEL 4905 Independent Study (1-5) EN EGE**  
Specialized independent study determined by the students' needs and interests.
- EEL 4906 EE Design 1 (3) EN EGE**  
CR: EEE 4301, EEL 4512C, EEL 4657, EEL 4744.  
An introduction of engineering design with applications specific to practical engineering problems. Included are discussion of real-world issues as economics, safety, ethics and the environment.
- EEL 4914 EE Design 2 CPST (3) EN EGE**  
PR: EEL 4906  
Students apply the knowledge acquired in the classroom to design a system which meets a predetermined set of specifications. Students work individually or in small groups with a faculty member (project director) in their area of interest. (Majors only.)
- EEL 4935 Special Electrical Engineering Topics I (1-3) EN EGE**
- EEL 4936 Special Electrical Engineering Topics II (1-3) EN EGE**
- EEL 4937 Special Electrical Engineering Topics III (1-3) EN EGE**
- EEL 5250 Power System Analysis (3) EN EGE**  
PR: EGN 3375.  
Analysis and design technique for AC power systems.
- EEL 5462 Antenna Theory (3) EN EGE**  
PR: EEL 4471  
Antenna theory beginning with fundamental parameter definitions and continuing with mathematical concepts, elemental antennas and arrays.
- EEL 5594L Wireless Circuits and Systems Laboratory (2) EN EGE**  
PR: EEL 4471.  
This class will provide introductory tutorial learning, plus hands-on experience in analysis, design and measurement in the field of wireless communications.
- EEL 5771 Introduction to Computer Graphics I (3) EN ESB**  
PR: COP 4530  
An introduction to the evolution of computer graphics including point-plotting, line drawing, two-dimensional transformations and graphics software packages.
- EEL 5935 Special Electrical Engineering Topics I (1-3) EN EGE**
- EEL 5936 Special Electrical Engineering Topics II (1-3) EN EGE**
- EEL 5937 Special Electrical Engineering Topics III (1-3) EN EGE**
- EEX 4012 Foundations of Special Education (3) ED EDS**  
Characteristics and needs of children who have learning disabilities, emotional disabilities, hearing impairments, mental retardation, physical

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handicaps, speech impairments, visual limitations, and who are gifted and talented.

## **EEX 4054 Perspectives on Learning and Behavioral Differences (3) ED EDS**

PR: EEX 4012

The purpose of this course is to introduce students to the historical and theoretical perspectives on educating students with learning and behavioral differences, develop a critical understanding of current practices in service delivery systems, and examine professional issues and trends that impact the future of the field.

## **EEX 4070 Integrating Exceptional Students in the Regular Classroom (2-3) ED EDS**

## **EEX 4201 Young Children With Special Needs (3) ED EDS**

Focuses on developing an understanding of the wide range of needs and services for young children with special needs

## **EEX 4202 Context and Foundations (6) ED EDS**

CR: EEX 4942

This course is restricted to majors and forms the foundation for understanding the context of schools including curriculum, characteristics of students with disabilities, the nature of special education, and the role of the special education teacher.

## **EEX 4221 Educational Assessment of Exceptional Students (3) ED EDS**

PR: EDF 3214, EDF 4430 and EEX 4012

CR: EEX 4941 and EEX 4894

Introduction to assessment of exceptional students through formal and informal techniques. Emphasis placed on the interpretation of information for educational programming and individualization of instruction.

## **EEX 4240 Beginning to Teach (6) ED EDS**

PR: EEX 4202, EEX 4942

CR: EEX 4942.

This course is second in a sequence that focuses on Beginning to Teach in Special Education, allowing teacher candidates to use their understandings think critically and to solve problems.

## **EEX 4241 Creating Effective Learning Environments (3) ED EDS**

PR: EEX 4240, EEX 4942

CR: EEX 4942

This course is third in a sequence for majors and focuses on Creating Effective Learning Environments in Special Education allowing teacher candidates to apply their understandings in a variety of school contexts with a small group of students.

## **EEX 4242 Enhancing Expertise in Teaching and Instructional Decision Making (6) ED EDS**

PR: EEX 4241, EEX 4942

CR: EEX 4942

This course is fourth in sequence for majors and focuses on Enhancing Expertise in Teaching and Instructional Decision-Making.

## **EEX 4243 Education of Exceptional Adolescents and Adults (3) ED EDS**

PR: EEX 4012 or equivalent

Procedures for implementing educational programs for exceptional adolescents and adults. Topics include service delivery, curriculum, academic remediation, advocacy, utilization of ancillary services, alternative programs and community resources.

## **EEX 4244 Becoming a Special Education Teacher (3) ED EDS**

PR: EEX 4242, EEX 4942

CR: EEX 4944

This course is designed to allow teacher candidates to demonstrate mastery of instructional planning, implementation of instruction, and data-based instructional decision-making during their final internship.

## **EEX 4604 Behavior Management for Special Needs and At-Risk Students (3) ED EDS**

PR: EEX 4012

CR: EEX 4941, ELD 4941, or EMR 4941

Techniques to prevent, analyze, and manage challenging and disruptive classroom behavior as well as teaching social skills.

## **EEX 4742 Narrative Perspectives on Exceptionality: Cultural and Ethical Issues CPST 6AC (3) ED EDS**

This course is designed to offer students a meaningful way to interpret and understand exceptionalities.

## **EEX 4894 Clinical Teaching in Special Education (3) ED EDS**

PR: EEX 4012

CR: EEX 4941

Effective teaching principles, instructional management procedures, and specialized teaching techniques for exceptional students.

## **EEX 4905 Independent Study: Exceptional Student Education (1-3) ED EDS**

Specialized independent study determined by the student's needs and interests.

## **EEX 4909 Directed Study: Exceptional Student Education (1-3) ED EDS**

To extend competency in teaching field.

## **EEX 4936 Senior Seminar in Exceptional Student Education (1) ED EDS**

CR: EEX 4940

Synthesis of teacher candidate's courses in complete college program.

## **EEX 4940 Internship: Exceptional Student Education (1-12) ED EDS**

CR: EEX 4936

One full semester of internship in an accredited public or private school.

## **EEX 4941 Practicum in Exceptional Student Education (1-4) ED EDS**

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- CR: Sem I: EEX 4012; Sem II: EEX 4604; Sem III: EEX 4221 and EEX 4894.  
Designed to provide teacher candidates with carefully planned and supervised clinical experiences with exceptional students populations in a variety of settings. Candidates demonstrate the ability to apply concepts, theories and research. Repeatable up to six credit hours.
- EEX 4942 Practicum in Exceptional Teacher Candidate Education (1-4) ED EDS**  
PR: EEX 4202, EEX 4942, EEX 4240, EEX 4241.  
Each practicum is linked to a specific course and provides opportunities for teacher candidates to apply what they are learning in the field. Practicum is restricted to majors.
- EEX 4944 Final Internship (1-12) ED EDS**  
PR: EEX 4942  
CR: 4244
- EEX 5705 Seminar in Preschool Handicapped (2) ED EDS**  
Intended to familiarize the education student with the wide range of needs and services of the preschool children with disabilities and their families and how they coordinate with educational services.
- EEX 5752 Working With Families: A Pluralistic Perspective (3) ED EDS**  
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 4941 Undergraduate Supervised Practicum in Gifted Student Education (1-6) ED EDS**  
Organized, supervised experiences with gifted children. Specific experiences may be either a combination of observation and assistance with gifted children or individualized projects.
- EGI 5051 Nature and Needs of the Gifted (3) ED EDS**  
This survey course examines the characteristics and educational needs of children and youth who are gifted, including those from special populations. Emphasis is on giftedness as defined historically, nationally and locally. The course also explores changing views of intelligence and talent development related to policy and practice in gifted education as well as the processes of identification and programming.
- EGI 5307 Theory and Development of Creativity (3) ED EDS**  
Exploration of the concept of creativity, its factors, measurement, and application to education. Opportunities are given to work with children in a laboratory setting and to prepare materials to be used with small groups of children.
- EGN 1113 Introduction to Design Graphics (3) EN EGB**  
The student learns how to graphically represent technical designs using sketches, traditional drawing tools, and AutoCAD. The lab features twenty Pentium II computers running AutoCAD R14.
- EGN 2080 Light and the Arts: A Quantitative Approach (3) EN EGB**  
Physical and aesthetic aspects of light. Elementary physics of light sources, waves and photons, human vision. Color and intensity effects in well-known paintings, photographs, films. Theatrical lighting. Holography.
- EGN 2081 Circuit Mathematics and Physics (2) EN EGB**  
Remedial work on the mathematical and physical concepts that are necessary for EGN 3373. Differentiation and integration, complex numbers, phasors, vectors, the physical laws for resistors, capacitors, and inductors.
- EGN 2082 History of Electrotechnology (3) EN EGB**  
Highlights of the history of electrotechnology and its relation to the development of civilization. The contributions of Volta, Faraday, Morse, Bell, Hertz, Marconi, Franklin, etc. in the context of the development of western civilization. The impact of communications, electronics and computers in the twenty-first century.
- EGN 3000 Foundations of Engineering (0-3) EN EGB**  
Introduction to the USF College of Engineering disciplines and the engineering profession. Course will provide you with knowledge of resources to help you succeed. Course topics include academic policies and procedures, study skills, and career planning.
- EGN 3000L Foundations of Engineering Lab (1-3) EN EGB**  
PR: MAC 1147 with a grade of C or better STI2 650 or EAC2 29 or AP66 3 or AP68 3 or AP69  
CR: EGN 3000  
Introduction to engineering and its disciplines incorporating examples of tools and techniques used in design and presentation. Laboratory exercises will include computer tools, engineering design, team projects, and oral and written communication skills.
- EGN 3311 Statics (3) EN EGB**  
PR: PHY 2048.  
Principles of statics, mechanical equilibrium, forces, moments, plane trusses. Lec.-pro.
- EGN 3321 Dynamics (3) EN EGB**  
PR: EGN 3311  
Dynamics of discrete particles; kinematics and kinetics for rigid bodies. Lec.
- EGN 3331 Mechanics of Materials (3) EN EGB**  
PR: EGN 3311, EGN 4427  
CPR: CGN 4933

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- Stress, strain, Hooke's Law; torsion, beam, column analysis; combined stresses; inelastic effects, limit design. Lec.
- EGN 3331L Mechanics of Materials Laboratory (1) EN EGB**  
PR: EGN 3311  
CR: EGN 3331  
Experiments in mechanics of deformable bodies with integrated materials component. Lab.
- EGN 3343 Thermodynamics I (3) EN EGB**  
PR: PHY 2048, PHY 2049, MAC 2283 or MAC 2313, all with a grade of C or better (not C-)  
Axiomatic introduction to thermodynamic concepts of energy, entropy, work and heat. Properties of ideal and real substances. Applications: power production and refrigeration, phase equilibria.
- EGN 3353 Basic Fluid Mechanics (3) EN EGB**  
PR: EGN 3311, EGN 4427  
CR: EGN 3321  
CPR: CGN 4933  
Fundamental and experimental concepts in ideal and viscous fluid theory; momentum and energy consideration, introduction to hydraulics, pipe flow. Lecture.
- EGN 3365 Materials Engineering I (3) EN EGB**  
PR: CHM 2045  
CR: EGN 3311  
Structure and property relationships in engineering materials, i.e., metal, ceramic and polymer systems. Environmental effects are also treated.
- EGN 3373 Introduction to Electrical Systems I (3) EN EGB**  
PR: PHY 2049, PHY 2049L  
CR: MAP 2302  
A course in AC and DC linear circuit analysis. Transient and steady-state analysis. Polyphase circuits.
- EGN 3374 Introduction to Electrical Systems II (3) EN EGB**  
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.
- EGN 3375 Electromechanical Systems (3) EN EGB**  
PR: EGN 3374, with a minimum grade of B.  
Analysis of electromechanical device performance: transformers, transducers, DC motors and generators, AC motors and alternators.
- EGN 3420 Engineering Analysis (3) EN EGB**  
PR: MAC 2282.  
Introduction to aspects of matrix algebra and complex algebra which are essential in engineering: simultaneous equations, connection matrices, basic eigenvalue theory, the complex exponential.
- EGN 3433 Modeling and Analysis of Engineering Systems (3) EN EGB**  
PR: MAC 2283, PHY 2049.  
Dynamic analysis of electrical, mechanical, hydraulic and thermal systems; Laplace transforms; numerical methods; use of computers in dynamic systems; analytical solution to first and second order ODEs. Restricted to majors.
- EGN 3443 Probability and Statistics for Engineers (3) EN EGB**  
PR: MAC 2282.  
An introduction to the basic concepts of statistical analysis with special emphasis on engineering applications.
- EGN 3615 Engineering Economics with Social and Global Implications CASB (3) EN EGB**  
Presents basic economic models used to evaluate engineering activities and an understanding of the social and ethical implications of financial decisions in a multicultural environment through lectures, case studies and current readings.
- EGN 3940 Professional Engineering Internship (0) EN EGB**  
Professional or interdisciplinary work period in engineering or career-related field. Enrollment limited to one semester and/or one summer per academic year. Offered on a S/U basis only. Restricted to engineering majors.
- EGN 4366 Materials Engineering II (3) EN EGB**  
PR: EGN 3365.  
Applications and structure property relationships of commonly used engineering materials. Steel, nonferrous alloys and their welding, heat treatment and processing. Introduction to ceramic and polymeric materials.
- EGN 4450 Introduction to Linear Systems (2) EN EGB**  
PR: MAC 2282.  
Study and application of matrix algebra, differential equations and calculus of finite differences.
- EGN 4453 Numerical & Computer Tools I in Civil & Env Eng (3) EN EGB**  
PR: MAC 2281, PHY 2048  
EXCEL spreadsheet operations, computer basics, computer programming operations, flow charts, developing simple computer programs, vector and matrix algebra, equation solving techniques.
- EGN 4454 Numerical & Computer Tools II in Civil & Env Eng (3) EN EGB**  
PR: EGN 4427  
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) EN EGB**  
Specialized independent study determined by the students' needs and interests.

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## **EGN 4930 Special Topics in Engineering (0-3) EN EGB**

New technical topics of interest to engineering students.

## **EGN 5421 Engineering Applications for Vector Analysis (3) EN EGB**

Vector methods in electromagnetism and fluid mechanics. Vector operators, line and flux integrals, potential and transport theorems, applications.

## **EGN 5422 Engineering Applications of Partial Differential Equations (3) EN EGB**

Power series solutions for ordinary differential equations, Sturm-Liouville theory, special functions. Vector methods with generalized coordinates. Separation of variables for partial differential equations. Green's functions. Calculus of variations. Numerical methods.

## **EGN 5423 Neural Networks and Mathematics for Communication (3) EN EGB**

Advanced matrix algorithms: LU and QR factorizations, least-squares, pseudoinverse. Techniques for optimization.

## **EGN 5424 Engineering Applications of Complex Analysis (3) EN EGB**

Analytic functions, conformal mapping, residue theory, Laurent series, transforms. Applications to various problems in engineering and physics.

## **EGN 5940 Professional Engineering Internship (0-6) EN EGB**

Professional or interdisciplinary work period in engineering or career-related field.

## **EGS 2031 History of Technology (3) EN EGB**

Covers the evolution of technology and its influence on society from pre-historic man to the modern day. Topics include: seven technological ages of man, methods of producing power, materials, transportation, communication and calculation, and technology and society.

## **EGS 3720 Globalization and Technology CAGC HHCP (3) EN EGB**

In this course the student will learn to apply financial analyses to engineering projects. In addition the student will learn the effects (ramifications) of the changing global economy. He/she will apply the tools to business and personal situations.

## **EIN 3241 Ergonomics I (3) EN ESB**

Using the fundamentals of the design process, this course demonstrates the critical importance of ergonomic tools and underlying physical human capacities.

## **EIN 4142 Project Management (3) EN EGS**

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) EN EGS**

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) EN EGS**

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) EN EGS**

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) EN EGS**

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) EN EGS**

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) EN EGS**

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) EN ESB**

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 6AC (3) EN EGS**

Design of man-machine systems, by taking into consideration both human and machine capabilities and limitations.

## **EIN 4312C Work Analysis (3) EN EGS**

PR: EGN 3613C or EGN 3615, EGN 3443.

Operation analysis and workspace design, work measurement, standard data, ergonomics, and labor costing.

## **EIN 4333 Production Control (3) EN EGS**

PR: ESI 4312.

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Planning and control of production systems. Includes: forecasting and inventory control models, scheduling and sequencing, MRP, CPM/PERT, and resource requirements.

## **EIN 4352 Engineering Cost Analysis (3) EN EGS**

PR: EGN 3615.

This is a non-repeatable course restricted to Industrial Engineering majors. It provides students with the principles and techniques for the cost analysis, estimation and evaluation of engineering design in service and manufacturing organizations.

## **EIN 4364 Facilities Design and Cost Analysis (3) EN EGS**

PR: EIN 4312C

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) EN EGS**

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) EN EGS**

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) EN EGS**

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.

## **EIN 4601C Automation and Robotics (3) EN EGS**

PR: EIN 4621.

Introduction to the practices and concepts of automation as applied to material handling, inventory storage, material transfer, industrial processes and quality control.

## **EIN 4621 Manufacturing Processes (3) EN EGS**

PR: EGS 1113.

The study of basic manufacturing processes and precision assembly. CAD/CAM including NC programming.

## **EIN 4891 Capstone Design CPST (3) EN EGS**

PR: EIN 4364.

Teams of students work on the design of a product/service company and performed tasks that range from product/service definition (and assessment of market needs) to production and evaluation of economic/financial feasibility. The product/service design will use existing prototype(s) that need revisions, improvements

and enhancements considering design, usability, producibility/manufacturability, and delivery.

## **EIN 4933 Special Topics in Industrial Engineering (1-3) EN EGS**

Special topics related to economic analysis, optimization, human factors, manufacturing and automation aspect of industrial systems. Repeatable up to 5 credit hours.

## **EIN 5174 Total Quality Management Concepts (3) EN EGS**

This course will examine the methodology and procedures that companies use to improve quality and its operational benefits, including the management transformation (paradigm shift) that is evolving. Unrestricted. Nonrepeatable for credit.

## **EIN 5182 Principles of Engineering Management (3) EN EGS**

Introduction to the fundamentals of planning, organizing and leadership as needed by engineers, scientists, and other professionals considering managerial positions.

## **EIN 5201 Creativity in Technology (3) EN EGS**

Designed to aid engineers, and others, re-open the creativity within themselves. It is focused on the student and his/her interests in technology and innovation. Graduate students and senior undergraduates.

## **EIN 5275 Work Physiology and Biomechanics (3) EN EGS**

Human physiological limitations encountered in design, analysis and evaluation of man-machine systems.

## **EIN 5350 Technology and Finance (3) EN EGS**

A course for technical managers that focuses on how financial and economic principles are utilized to make technical investments and manage technical enterprises.

## **EIN 5452 Engineering a Lean Enterprise (3) EN EGS**

Engineering the Lean Enterprise introduces you to one of the most successful strategies in operations: lean manufacturing, as seen at Toyota and other companies. Lean manufacturing is a philosophy that applies both on and off the factory floor.

## **EIN 5510 Manufacturing Systems Analysis (3) EN EGS**

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) EN ECH**

PR: ECH 4123

Introduction to the main families of materials and principles behind their design, selection, development, and behavior. Relationship of properties to structure and processing of materials. Not repeatable for credit. Majors and non-majors.

# COURSE DESCRIPTIONS

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## **EMA 4324 Corrosion of Engineering Materials I (3) EN EGX**

Principles of electrochemical corrosion and the representation of corrosion processes by polarization diagrams. Origin and prevention of the localized forms of corrosion and approaches to corrosion control.

## **EMA 5326 Corrosion Control (3) EN EGX**

PR: EGN 3365.  
Provide understanding of corrosion fundamentals. Introduce design for corrosion detection, protection, and control. Acquire research project experience.

## **EME 2040 Introduction to Technology for Educators (3) ED EDI**

Designed as an introduction to computer technology and its role in teaching and learning processes. Topics include educational software, ethical and social issues, hardware, interactive multimedia, models for integrating technology into instruction, productivity tools and telecommunications.

## **EME 5403 Computers in Education (3) ED EDI**

A survey course designed to introduce practicing teachers to microcomputer technology and its function in the classroom to augment the teaching and learning processes. Objectives include the use and evaluation of educational software, classroom use of computers, instructional computing research, generic applications software (word processors, database managers, etc.), programming, disk operating systems, and microcomputer hardware.

## **EML 3022 Computer Aided Design and Engineering (3) EN EGR**

This course is intended for developing graphics design concepts in undergraduate students. Learning engineering drawing fundamentals, design views, design and analysis of mechanical engineering power transmission components using computer aided software.

## **EML 3035 Programming Concepts for Mechanical Engineers (1) EN EGR**

PR: MAC 2281, PHY 2048  
Solution of engineering and science problems using programming language such as Visual Basic or Maple. Topics include fundamentals of programming, controlling program flow and arrays. Restricted to majors; not repeatable for credit.

## **EML 3041 Computational Methods (3) EN EGR**

PR: MAP 2302 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) EN EGR**

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) EN EGR**

PR: EGN 3443  
CR: EML 3701, EML 3500  
Engineering laboratory measurements. Use of the library and the writing of technical reports. Experiments in the measurement of temperature, pressure, fluid flow, psychrometrics, concentration, viscosity. Mass-energy balances of simple systems.

## **EML 3500 Mechanics of Solids (3) EN EGR**

PR: EGN 3311  
Stress and deflection analysis of machine parts, variable loads, endurance limits, fasteners, bearings, power transmission, code consideration of pressure and vacuum vessels, elements of design.

## **EML 3701 Fluid Systems (3) EN EGR**

PR: EGN 3343 (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) EN EGR**

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) EN EGR**

PR: EML 3701, EML 3041  
Conduction, convection and radiant heat transfer; thermal properties of materials; role of fluid flow in convective heat transfer; design and selection of heat exchangers.

## **EML 4141 Thermal Management of Electronic Systems (3) EN EGR**

PR: EML 4123  
Introduction to principles of thermal management for controlling heat dissipation in electronics systems. Passive & active thermal management techniques for electronic systems & components are considered with regard to fundamental heat transfer modes.

## **EML 4220 Vibrations (3) EN EGR**

PR: EML 3262, EML 3041 (Grade of C- required)

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Natural frequency, damping and resonance in single-degree-of-freedom systems. Vibration isolation and absorption. Lagrange's equations. Multi-degree of freedom systems. Introduction to vibration of continuous systems and predictive maintenance.

## **EML 4230 Introduction to Composite Materials (3) EN EGR**

PR: EML 3500 and EML 3041.

The course introduces manufacturing types and applications of advanced composites. Students study micromechanical and macromechanical behavior of a lamina and analyze and design a laminated structure made of advanced composite materials.

## **EML 4246 Tribology (3) EN EGR**

PR: EML 3500, EML 3701 and EML 4501.

Introduction to friction, lubrication and wear. Contact of real surfaces, mechanics of friction, surface failures, boundary lubrication fluid properties, thin film lubrication, thick film lubrication, bearing and lubricant selection.

## **EML 4284 Compliant Mechanisms (3) EN EGR**

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) EN EGR**

PR: EML 3303.

Continuation of EML 3303 with emphasis on material and energy balances, stress analysis and vibrations. Lec.-lab. The Team-Project-Time Approach.

## **EML 4310 Microcontrollers (3) EN EGR**

CR: EML 4312.

To introduce students to microcontroller technology, and to provide them with an understanding of the concepts and principles used to interface input and output devices to microcontrollers, program microcontrollers, and to develop applications.

## **EML 4312 Mechanical Controls (3) EN EGR**

PR: EGN 3321, EGN 3373.

Introduces the concept of dynamic systems. Modeling of dynamic systems. Laplace Transforms. Transfer Functions. Block Diagrams. Characteristic equation. Time response of first and second order systems. Stability of dynamic systems. Routh stability criterion. Frequency response of dynamic systems. Polar plots and Bode plots. Introduction to state space model.

## **EML 4325 Mechanical Manufacturing Processes (3) EN EGR**

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) EN EGR**

PR: EML 3500 and EML 4325.

Advanced materials processing focuses on the fundamental principles of solidification, deformation, additive and subtractive processes. Integrated process modeling will lead to optimized performance through processing - structure - property relationships.

## **EML 4395 Motor Selection and Control (3) EN EGR**

PR: ENG 3373

Standard electrical voltages; power wiring in industrial plants; NEMA motor designs and their uses; techniques for estimating motor starting times and temperature rise; motor selection, starting, and operating safety interlocks; conventional starting and control systems; programmable controllers; electrical code requirements for conductors and protective devices.

## **EML 4414 Power Plant Engineering (3) EN EGR**

PR: EML 4106C.

The study of large scale thermo-electric power conversion for utility systems. Combustion of hydrocarbon fuels, furnace, steam generated auxiliary system design. Topics include control of our emissions, design and performance of combined power facilities.

## **EML 4419 Propulsion I (3) EN EGR**

PR: EML 3701, EML 3500

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 4450 Alternative & Renewable Energy (3) EN EGR**

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) EN EGR**

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) EN EGR**

PR: EML 4501

This course integrates sustainability into the design of engineered products. Topics include



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- materials selection and function performance, design for the 4 Rs, end-of-life concerns and product life cycle assessment methods.
- EML 4551 Capstone Design CPST (3) EN EGR**  
PR: EML 4501 (minimum grade: C-), and EML 4106C (minimum grade: C-), and EML 3701 (minimum grade: C-)  
Comprehensive design or feasibility project requiring application of previously acquired engineering knowledge; use of ANSYS, CAD AND Pro/E.
- EML 4552 Senior Mechanical Design (3) EN EGR**  
Comprehensive design or feasibility study project. In some cases may be a continuation of EML 4551.
- EML 4575 Principles of Fracture Mechanics (3) EN EGR**  
PR: EML 3500, EGN 3343, and MAC 2311 or equivalent.  
Introduction to failure and fracture of linear and nonlinear engineering materials, as well as designing against fracture in modern materials.
- EML 4593 Haptics (3) EN EGR**  
PR: EML 3041; EML 4312  
Course covers the theory and implementation of haptic interfaces and rendering, teleoperation, modeling, control and stability of feedback for robotic systems and virtual environments, and the related human haptic sensing capabilities.
- EML 4601 Air Conditioning Design (3) EN EGR**  
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) EN EGR**  
PR: EGN 3343, EGN 3321 and EML 3701  
The Fluid Dynamics II course is a senior level technical elective for Mechanical Engineering Students. The goal of the course is develop an advanced understanding of fluid dynamics applied to mechanical engineering as well as to other related fields.
- EML 4703 Mechanics of Compressible Fluids (3) EN EGR**  
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) EN EGR**  
Specialized independent study determined by the student's needs and interests.
- EML 4930 Special Topics in Mechanical Engineering (1-3) EN EGR**
- EMR 4011 Mental Retardation and Developmental Disabilities (3) ED EDS**  
PR: EEX 4012 or equivalent.
- This course is designed to provide students with a broad introduction to the area of mental retardation and developmental disabilities with particular emphasis on the educational aspects. This course is required by the State for certification in mental retardation.
- ENC 1101 Composition I CAEC HHCP SGEC 6AC (3) AS ENG**  
This course helps prepare students for academic work by emphasizing expository writing, the basics of library research, and the conventions of academic discourse.
- ENC 1102 Composition II CAEC 6AC (3) AS ENG**  
PR: ENC 1101 (or the equivalent, i.e. passing the CLEP exam).  
This course emphasizes argument, research, and style. As students engage in creative and critical thinking, they learn to support assertions based on audience and purpose; students apply library research, strategies for revision, and peer response.
- ENC 1130 Improving College-Level Writing (3) US RLS**  
This class approaches writing as a process and utilizes prewriting, drafting, revising, and editing. Through intensive reading and writing practice, the curriculum will address grammar, mechanics, punctuation, word usage, and essay structure.
- ENC 2210 Technical Writing 6AC (3) AS ENG**  
PR: ENC 1101 and ENC 1102 or ENC 1121 and ENC 1122.  
Effective presentation of technical and semi-technical information. Will not count toward the English major.
- ENC 3242 Technical Communication for Majors (3) AS ENG**  
PR: ENC 1101 & 1102 or ENC 1121 & 1122.  
The study of the range of possible careers for technical communicators with special emphasis on the issues that professional writers face in various workplace contexts and on the skills needed in word processing.
- ENC 3246 Communication for Engineers WRIN 6AC (3) AS ENG**  
Focuses on writing concerns of engineers. Deals with the content, organization, format, and style of specific types of engineering documents. Provides opportunity to improve oral presentations.
- ENC 3249 Communication for IT Professionals WRIN 6AC (3) AS ENG**  
PR: ENC 1101 and ENC 1102 or Honors English.  
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 WRIN 6AC (3) AS ENG**  
PR: ENC 1101 and ENC 1102 or ENC 1121 and ENC 1122.

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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 WRIN 6AC (3) AS ENG**

PR: ENC 1101 and ENC 1102 or ENC 1121 and ENC 1122.

This is a course that teaches the techniques for writing effective prose, (excluding fiction), in which student essays are extensively criticized, edited, and discussed in individual sessions with the instructor and with peers.

## **ENC 3371 Rhetorical Theory for Technical Communication (3) AS ENG**

This course provides undergraduates exposure to key rhetorical theorists and concepts, placing special emphasis on the relationships between rhetor, audience, context, and medium. This course is open to all students and is not restricted or repeatable.

## **ENC 3416 New Media for Technical Communication (3) AS ENG**

PR: ENC 1101 and ENC 1102 or ENC 1121 and ENC 1122.

The study and production of digital media with special emphasis on emergent and evolving applications.

## **ENC 3435 Rhetoric and Gaming (3) AS ENG**

This course applies different theoretical lens to broaden students' 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) AS ENG**

PR: ENC 1101 and ENC 1102 or ENC 1121 and ENC 1122.

The study and production of visual rhetoric with special emphasis on print and digital document design and technical graphics.

## **ENC 4260 Advanced Technical Writing (3) AS ENG**

PR: ENC 2210, or ENC 3310

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) AS ENG**

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) AS ENG**

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.

## **ENC 4940 Professional/Technical Communications Internship (3) AS ENG**

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.

## **ENG 3014 Introduction to Literary Methodology (3) AS ENG**

PR: ENC 1101 and ENC 1102.

This course prepares English majors and minors with the basic critical and technical skills and understanding for subsequent literary study in 3000- and 4000-level courses towards the major. Substantial writing. Required of LIT majors. Recommended during first 2 semesters of LIT major.

## **ENG 3113 Film as Narrative Art (3) AS ENG**

This course will examine the role of narrative as it appears in national and international cinema and study different theoretical and historical perspectives of cinematic narrative and cinematic techniques and interpretation.

## **ENG 4013 Literary Criticism (3) AS ENG**

A study of the works of major literary critics from Aristotle to the present, with emphasis on their meaning, their implied world view, and their significance for our own time and literature. Required for Literature majors. Recommended before 4000-level literature courses.

## **ENG 4060 History of the English Language (3) AS ENG**

The evolution of language from Anglo-Saxon through Middle English to Modern English. Development of the English lexicon. Changes in the pronunciation, syntactic, and semantic systems; discussion of the forms which influenced them.

## **ENG 4674 Film and Culture CPST WRIN 6AC (3) AS ENG**

Students will be introduced to key concepts and techniques of Film Studies, including the history of film; an examination of film genres; an overview of foreign cinema; and the study of issues of class, race, gender, and sexuality.

## **ENG 4906 Individual Research (1-4) AS ENG**

Directed study in special projects.

## **ENG 4907 Directed Reading (3) AS ENG**

Readings in special topics.

## **ENG 4935 Honors Seminar I (3) AS ENG**

CR: ENG 4936.

Variable topics. Students will be expected to participate in class discussion, make formal presentations, and complete a major research project.

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## **ENG 4936 Honors Seminar II (3) AS ENG**

CR: ENG 4935

Variable topics. Students will be expected to participate in class discussion, make formal presentations, and complete a major research project.

## **ENG 4970 Honors Thesis (3) AS ENG**

PR: ENG 4935, ENG 4936.

For students writing English Honors theses.

## **ENL 3015 British Literature to 1616 (3) AS ENG**

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.

## **ENL 3016 Studies in 17th and 18th Century British Literature (3) AS ENG**

This is a topics course focusing on 17th and 18th century British literature. It satisfies a historical distribution requirement for the English major, LIT, and may be taken more than once for credit.

## **ENL 3017 Studies in 19th Century British Literature (3) AS ENG**

This is a topics course focusing on British Literature primarily of the years 1800-1900. It satisfies a historical distribution requirement for the English major, LIT, and may be taken more than once for credit.

## **ENL 3026 Studies in Twentieth-Century Literature (3) AS ENG**

This is a topics course focusing on Twentieth-Century Literature (British; American; and/or World). It satisfies a historical distribution requirement for the English major, literature track, and may be taken more than once for credit.

## **ENL 3230 British Literature 1616-1780 (3) AS ENG**

A survey of 17th Century and Neoclassical Literature, including such figures as Donne, Herbert, Crashaw, Vaughan, Marvell, Milton, Pope, Swift, Johnson, Boswell, and Goldsmith.

## **ENL 3251 British Literature 1780-1900 (3) AS ENG**

The poetry and poetics of the Romantic figures, with attention to the continuing importance of Romantic thinking in contemporary affairs and letters; a survey of representative figures of the Victorian and Edwardian periods, including poetry, prose, and drama.

## **ENL 3273 British Literature 1900-1945 (3) AS ENG**

Survey of poetry, drama, and fiction of such writers as Eliot, Yeats, Thomas, Conrad, Shaw, Joyce, Lawrence, Huxley, Woolf, Forster, Waugh, Owen, Auden, O'Casey, and others.

## **ENL 3331 Early Shakespeare (3) AS ENG**

A study of from five to eight of Shakespeare's comedies, histories, and early tragedies, ending with *Hamlet*. Special attention to developing the student's ability to read and interpret the text.

## **ENL 3332 Late Shakespeare (3) AS ENG**

A study of from five to eight of Shakespeare's problem plays, major tragedies, and late

romances. Special attention to developing the student's ability to read and interpret the text.

## **ENL 3334 Shakespeare from an Historical Perspective CAHU HHCP 6AC (3) AS ENG**

This course introduces students to at least six of Shakespeare's plays. The course will focus on artistic elements of the plays; the political, social, and intellectual milieu of the period; as well as issues of class, race, and gender. Will not count toward English major.

## **ENL 4112 Eighteenth-Century British Novel (3) AS ENG**

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.

## **ENL 4122 19th Century British Novel (3) AS ENG**

Study of the 19th-century British novel, including works by novelists such as Thackeray, Dickens, Eliot, Hardy, Trollope, and others. Analysis of the characteristics of the novels and their historical, social, cultural, and political contexts.

## **ENL 4132 British Novel: Conrad to the Present (3) AS ENG**

A critical study of British fiction from 1900 to the present, with emphasis on such writers as Conrad, Lawrence, Joyce, Woolf, Huxley, Orwell, Burgess, Murdoch, Golding, and others.

## **ENL 4203 Introduction to Old English (3) AS ENG**

This course will give students a reading knowledge of the Old English language and introduce them to its literature.

## **ENL 4303 Selected British Authors (3) AS ENG**

The study of two or three major figures in British Literature. The course may include such writers as Fielding and Austen, Keats and Yeats, Joyce and Woolf. Specific topics will vary. May be taken twice for credit with different topics.

## **ENL 4311 Chaucer (3) AS ENG**

An intensive study of *The Canterbury Tales* and major critical concerns.

## **ENL 4338 Advanced Studies in Shakespeare (3) AS ENG**

PR: ENL 3331 or ENL 3332

Intensive study of selected plays of Shakespeare, with special attention to significant critical issues and to the Elizabethan and Jacobean cultural setting.

## **ENL 4341 Milton (3) AS ENG**

Study of the poetry and major prose of John Milton, with special emphasis on *Paradise Lost*.

## **ENL 4501 Studies in Medieval and Early Modern Literature (3) AS ENG**

This course will examine specific eras, genres, and authors within medieval and early modern literature.

## **ENL 4931 Studies In British Literature And Culture (3) AS ENG**

PR: ENC 1102

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This course examines a particular topic or theme, varying with individual selection, in the British literary tradition.

**ENT 3003 Principles of Business in Entrepreneurship (3) BA MKT**

Introduction to business principles in entrepreneurship for non-business and non-industrial engineering students. Provides basic foundation in entrepreneurship, finance and accounting. Helps students to understand the role of entrepreneurship in society.

**ENT 4014 New Venture Formation (3) BA MKT**

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.

**ENT 4024 Small Business Management - Entrepreneurship (3) BA MAN**

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.

**ENT 4424 Fundamentals of Venture Capital and Private Equity (3) BA MKT**

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.

**ENV 2073 Global Warming: Science and Politics of a Contemporary Issue CANP (3) EN EGX**

Non-technical introduction to the greenhouse effect and how human activities purportedly affect the global climate. Investigation of the relationship between science and the political process. Proposed policies to address global warming.

**ENV 4001 Environmental Systems Engineering (3) EN EGX**

CR: EGN 3353.  
An introduction to various aspects of environmental problems faced by today's society. Topics covered are: air pollution, water pollution, noise pollution, solid waste management, ionizing radiation, disease transmission, and food protection.

**ENV 4004L Environmental/Hydraulics Engineering Lab (1) EN EGX**

PR: EGN 3353  
CR: ENV 4001  
Laboratory experience in the measuring of environmental and hydraulic parameters.

**ENV 4351 Solid Waste Engineering (2) EN EGX**

Introduction to the principles of integrated municipal solid waste management; waste minimization, recycle and disposal options. Design

of landfill disposal systems. Course restricted to Civil and Environmental Engineering majors.

**ENV 4417 Water Quality and Treatment (3) EN EGX**

PR: EGN 3353  
An introduction to municipal water supply and waste water treatment. Topics include water requirements and waste volumes, water quality, physical and chemical treatment processes, and advanced wastewater treatment processes.

**ENV 4552C Environmental Unit Operations and Processes (3) EN EGX**

PR: ENV 4001, ENV 4417  
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 5103 Air Pollution Control (3) EN EGX**

PR: EGN 3353.  
Behavior and effects of atmospheric contaminants and the principles of making measurements in the air environment. Basic concepts of meteorology and control technology are discussed. Regulatory aspects and air pollution standards are covered.

**ENV 5334 Hazardous Waste Management and Remedial Action (3) EN EGX**

PR: ENV 5345 and one of the following: ENV 6347, ENV 6519, ENV 6558;  
Introduction to hazardous waste management and remediation: RCRA regulatory concepts, definitions, aspects of hazardous waste management from within the plant to final disposal. History of hazardous waste cleanup leading to CERCLA and its amendments, site investigations; site control; those aspects of treatment that are unique to remedial action.

**ENV 5345 Solid Waste Control (3) EN EGX**

Introduction to solid waste management, including its definition as an umbrella for hazardous waste: regulatory concepts; waste types, quantities, and characterization; collection and recycling; facility siting; disposal; thermal treatment.

**ENV 5504C Environmental Engineering Processes (3) EN EGX**

PR: ENV 4001, ENV 4004L, ENV 4417  
Theory, experimental investigation, and modeling of operations and processes in engineered and natural systems. Laboratory evaluation of unit operations and process used in water and wastewater treatment including chlorination, activated carbon adsorption, biological treatment, gas/liquid mass transfer, filtration, coagulation, flocculation, and settling. This course is restricted

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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) AS BIN**

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course, or STA 2023.

CPR: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712.

An introduction to general aspects of insect morphology, development, and classification. The identification of local forms will be emphasized. Fieldwork required. Lecture and Laboratory.

## **ENY 5505C Aquatic Entomology (4) AS BIN**

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) ED EDS**

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) ED EDS**

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 CANP SGEN (3) AS SGS**

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) AS SGS**

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) AS SGS**

An in-depth look at how geology has affected the politics, history and culture of Africa. Units include the Nile and hydropolitics, deserts and climate, rifting and hominid evolution, and mining and politics.

## **ESE 4322 Classroom Management for Diverse School and Society (3) ED EDI**

Focuses on classroom management in secondary schools including classroom climate, specific strategies to address management issues, school

safety, violence, diversity, ethics, and educational law.

## **ESE 5342 Teaching the Adolescent Learner (3) ED EDI**

Emphasis is placed on adolescent developmental and learning needs linking them to practices in the classroom appropriate to the diverse secondary education population (ESOL, special education, multicultural, at-risk, etc.) in preparation for planning responsive standards-based instruction.

## **ESE 5344 Classroom Management for a Diverse School and Society (3) ED EDI**

This course covers practical, theoretical, philosophical and ethical aspects of school and society, the education profession, and secondary schools with particular focus on classroom management, school violence, school safety, educational law and other critical social issues.

## **ESI 2009 Introduction to Engineering Programming (3) EN EGS**

PR: MAC 2281 with a minimum grade of C (C- not accepted).

A problem based approach to describing programming concepts using Visual Basic for Applications and MS Excel.

## **ESI 4221 Statistical Quality Control (3) EN EGS**

PR: EGN 3443.

This course will present the theory and methods of quality monitoring including process capability, control charts, acceptance sampling, quality engineering, and quality design.

## **ESI 4244 Design of Experiments (3) EN EGS**

PR: EGN 3443.

Activity forecasting models and control. Design and use of inventory control models, both designs applicable to engineering analyses. Analysis of variance and regression.

## **ESI 4312 Deterministic O.R. (3) EN EGS**

PR: COP 2510, EGN 4450.

An introduction to operations research techniques with particular emphasis on deterministic models. Linear programming, dynamic programming, goal programming, integer programming, and PERT/CPM networks are considered.

## **ESI 4313 Probabilistic O.R. (3) EN EGS**

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) EN EGS**

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) EN EGS**

PR: ESI 4313.

# COURSE DESCRIPTIONS

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- A study of the development and analysis of computer simulation models: Monte Carlo, time-slice, and next-event. Introduction to special purpose simulation languages.
- ESI 4606 Engineering Analytics I (3) EN EGS**  
PR: EGN 3443, ESI 4312.  
Engineering Analytics I covers the leading techniques that help to identify and manage key data from business processes. Topics covered include techniques for understanding the meaning of data; cleaning up data; transforming data into information.
- ESI 4607 Engineering Analytics II (3) EN EGS**  
PR: ESI 4606.  
Engineering Analytics II covers important techniques that help to identify and manage key data from industrial engineering processes. Topics covered include data exploration; data visualization; and large-scale engineering system decomposition.
- ESI 4620 Design of Industrial Information Systems (3) EN EGS**  
PR: EGN 3443 and ESI 2009 or COP 2510, or equivalent.  
The objective of this course is to introduce students to the design and implementation of information systems, with special emphasis on the integration of information flows and databases with the control of manufacturing and service type systems.
- ESI 4905 Independent Study (1-5) EN EGS**  
Specialized independent study determined by the student's needs and interests.
- ESI 5219 Statistical Methods For Engineering Managers (3) EN EGS**  
Study of statistical methods applied to engineering management problems involving estimation and prediction under conditions of uncertainty.
- ESI 5236 Reliability Engineering (3) EN EGS**  
PR: ESI 5219 or equiv., EGN 3443 or equivalent.  
Fundamental concepts of reliability. Estimation of reliability of systems and components. Measures of availability, maintainability and reliability.
- ESI 5306 Operations Research For Engineering Management (3) EN EGS**  
PR: ESI 5219 or equiv.  
Linear programming, non-linear programming, queuing, inventory, network analysis.
- ESI 5522 Computer Simulation (3) EN EGS**  
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) EN ESB**  
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) EN ESB**  
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) EN ESB**  
Selected Topics in Technology I is repeatable for 12 credit hours.
- ETG 3934 Selected Topics in Technology II (1-3) EN ESB**  
Selected Topics in Technology II is repeatable for 12 credit hours.
- ETG 4930 Special Topics in Information Technology (1-3) EN ESB**  
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) EN ESB**  
Special Topics in Technology.
- ETG 4932 Special Topics in Technology II (1-3) EN ESB**  
Special Topics in Technology.
- ETI 4116 Industrial Quality Control (3) EN ESB**  
PR: STA 2023  
This course teaches the students the fundamental concepts of managing a quality assurance system.
- EUH 2011 Ancient History I CAHU HHCP (3) AS HTY**  
An introductory survey of ancient history. EUH 2011 treats the ancient Near East, Egypt and Greece from the origins of civilization to the Hellenistic kingdoms following the death of Alexander the Great.
- EUH 2012 Ancient History II CAHU HHCP (3) AS HTY**  
An introductory survey of ancient history. EUH 2012 deals with Rome through the Regal, Republican, and Imperial periods, from the beginnings of civilization in Italy to the division of the Roman Empire, A.D. 285.
- EUH 2021 Byzantine Empire (3) AS HTY**  
A thematic survey of the history of the medieval Byzantine Empire and neighboring civilizations from ca. 284-1453.
- EUH 2022 The Medieval West CAHU HHCP (3) AS HTY**  
An introductory survey of medieval history. EUH 2022 examines the European and Mediterranean worlds, exploring the evolution and transformation of beliefs, institutions and social structures, ca. 500-1500.
- EUH 2030 Modern European History I CAHU HHCP (3) AS HTY**  
A thematic survey of Europe in the modern age. EUH 2030 treats the period from the Renaissance to the French Revolution.
- EUH 2031 Modern European History II CAHU HHCP (3) AS HTY**

# COURSE DESCRIPTIONS

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This course explores the social, political and economic forces which have shaped Europe over the past two hundred and fifty years.

**EUH 3142 Renaissance and Reformation (3) AS HTY**

A history of Europe from the Renaissance to the Thirty Years' War (1400-1618). The cultural, social, and economic characteristics will provide the framework for artistic, philosophical, religious, and political developments.

**EUH 3181 Medieval Culture (3) AS HTY**

A survey of thought, culture, and art in the Middle Ages. Medieval attitudes as manifested in literature, art, philosophy, education, and religion; with emphasis upon Medieval man's changing perception of himself and his world.

**EUH 3185 Viking History (3) AS HTY**

The role of the Vikings in the shaping of Western history. A comprehensive survey of their institutions, outlook and daily life. Viking expansion into Europe and North America.

**EUH 3188 Medieval Society (3) AS HTY**

A study of the daily life and attitudes of the medieval nobleman, peasant, townsmen, and the agrarian-urban economy and society which affected their lives.

**EUH 3189 Medieval Politics (3) AS HTY**

An inquiry into the nature, distribution, and use of political power during the Middle Ages, in such institutions as feudalism, monarchy, cities, and the church.

**EUH 3202 History of 17th and 18th Century Europe (3) AS HTY**

A history of Europe from the beginning of the Thirty Years' War to the outbreak of the French Revolution. Political and intellectual developments will be assessed in the light of society and the economy.

**EUH 3205 History of Nineteenth Century Europe (3) AS HTY**

A comparative study of economic, political, social, and intellectual developments in nineteenth century Europe.

**EUH 3206 History of Twentieth Century Europe (3) AS HTY**

A comparative study of economic, political, social, and intellectual developments in twentieth century Europe.

**EUH 3401 Classical Greece (3) AS HTY**

A study of ancient Greece focusing on the brilliant period following the Persian Wars, but embracing as well the formative Bronze, Middle and Archaic ages, and the decline culminating in the conquest of Greece by Philip II of Macedon in 338 B.C.

**EUH 3402 Age of Alexander (3) AS HTY**

A study focusing on the career of Alexander the Great and on the Greek and Macedonian conquest of Imperial Persia. Also treated are the great hellenistic kingdoms prior to Rome's conquest of the eastern Mediterranean.

**EUH 3412 Roman Republic (3) AS HTY**

A study of the Roman Republic from 509 B.C. to the assassination of Julius Caesar in 44 B. C., with a prelude treating Rome's early development under royal rule. Political growth and change provide the framework for the treatment.

**EUH 3413 Roman Empire (3) AS HTY**

A study of Imperial Roman from the assassination of Julius Caesar in 44 B.C. to the death of the emperor Constantine in A.D. 337. Emphasized is Rome's government of a vast Mediterranean empire including much of the near East and Europe.

**EUH 3462 German History 1870 to the Present (3) AS HTY**

A political, social, and cultural approach to the history of the German Empire from 1870 through the 1970's. The nation's two attempts to try for world power status are highlighted, as well as the Weimar Republic, prototype of the embattled democracy.

**EUH 3501 British History to 1688 (3) AS HTY**

A study of major developments in British history from the 15th century to 1688.

**EUH 3502 British History 1688 to Present (3) AS HTY**

A study of the major themes of British history since the Glorious Revolution, including social, political, and economic developments leading to the creation of the modern demographic welfare state.

**EUH 3575 History of Imperial Russia, 1689-1917 (3) AS HTY**

A survey of social, political, economic, and cultural development in the Russian Empire from Peter the Great to Nicholas II. Topics include the expansion and modernization of the Empire, the culture of the Imperial court, peasant rebellions, social and legal reforms, the role of the West, and the collapse of the Romanov dynasty.

**EUH 3576 History of the Soviet Union, 1917-1991 (3) AS HTY**

A study of Soviet society under communism from the Revolution to the collapse of the USSR. Topics include the origins and development of revolutionary socialism, the Bolshevik seizure of power, Stalinism and the Great Terror, popular dissent and resistance, the treatment and experience of ethnic minorities, Gorbachev and the dissolution of the Soviet Union.

**EUH 3676 History of Orthodox Religion (3) AS HTY**

This course provides an overview of the history and theology of Orthodox Christianity. It examines the rise of the early Christian church in the first century AD and explores the eastern Christian Orthodox through the fifteenth century AD.

**EUS 3000 Europe (3) AS GIA**

Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic,

# COURSE DESCRIPTIONS

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- anthropological, and sociological analysis in dealing with salient features and current problems.
- EUS 3022 Russia (3) AS GIA**  
Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic, anthropological, and sociological analysis in dealing with salient features and current problems.
- EVR 2001 Introduction to Environmental Science CANP SGEN (3) AP GEP**  
An introductory lecture course linking the human and physical/biological world. The course will develop an understanding of population and resource interactions.
- EVR 2001L Environmental Science Lab (1) AS SGS**  
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 CANP (3) EN ECH**  
PR: MAC 1105  
A critical analysis of energy sources, distribution and consumption using scientific methodology. Attributes of commonly used energy sources including environmental impact. Social, political and economic implications from a global perspective.
- EVR 2861 Introduction to Environmental Policy (3) AS SGS**  
An introduction to environmental policy using class lectures, student projects, and independent readings. Emphasis will be placed on understanding basic policy mechanisms and major policy actions relating to environmental issues at the local, national and international level.
- EVR 4027 Wetland Environments CPST (3) AS SGS**  
Study of the general properties and ecology of wetlands, examination of the distribution and functions of wetlands, and consideration of wetland conservation and policies.
- EVR 4033 Environmental Regulation (3) AS SGS**  
PR: EVR 2861  
An in-depth review of the federal environmental regulatory structure of the United States, governing air and water quality, waste disposal, safety, and natural resource use and conservation.
- EVR 4051 Environmental Field Methods (3) AS SGS**  
PR: STA 2023 or QMB 2100  
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.
- EVR 4104 Karst Environments (3) AS SGS**  
PR: EVR 2001  
The objective is to provide an understanding of the scientific principles pertaining to karst environments in Florida and around the world. Both physical processes and human interactions/impacts will be examined. Not restricted to majors and not repeatable.
- EVR 4114 Climate Change CPST (3) AS SGS**  
PR: EVR 2001  
The objective is to provide an understanding of the scientific principles pertaining to global and regional climate change. Both mechanisms causing the change and human impacts on climate will be examined. Not restricted to majors and not repeatable.
- EVR 4218 Research Methods in Wildlife Ecology (3) AS SGS**  
Research Methods in Wildlife Ecology will review the ways in which data are collected, analyzed, and reported, so that informed decisions about wildlife management and conservation can be made. The course will have both classroom and field components.
- EVR 4807 Sustainable Healthy Environments (3) AS SGS**  
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.
- EVR 4900 Directed Readings (1-6) AS SGS**  
To provide advanced students with interdisciplinary research experience in areas of specific interest.
- EVR 4905 Independent Study (1-6) AS SGS**  
To provide advanced students with the opportunity for independent study in areas of specific interest.
- EVR 4910 Environmental Science and Policy Project (3-12) AS SGS**  
Environmental science project consisting of research in a field related to environmental science/environmental policy. Supervised by a faculty member. Contract and report required.
- EVR 4921 Environmental Science and Policy Seminar (1) AS SGS**  
A topical reading and discussion seminar focusing on the interdisciplinary nature of environmental science and environmental policy.
- EVR 4930 Selected Topics (1-3) AS SGS**  
Each topic is a course under the direction of a faculty member with the content depending on the interests of the students and faculty involved. All areas of Environmental Science, Policy, Ethics and Law included.
- EVR 4940 Environmental Science Internship (3-12) AS SGS**  
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.



# COURSE DESCRIPTIONS

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**EVT 4651 Equity in Schools and the Workplace  
CPST 6AC (3) ED EDV**

Examine equity issues related to gender, race, culture, economics in schools/workplaces. Explore legal, ethical, psychological, social perspectives including stereotyping, prejudice and discrimination for personal implications and systems change.

**EVT 4940 Internship: Industrial-Technical  
Education (1-12) ED EDV**

CR: EVT 4936

One full semester of internship in a public or private school. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9-12 semester hours.

**EVT 4946 Supervised Field Experience: Industrial-  
Technical Education (1-6) ED EDV**

Planned supervised functions in the area of specialization and coordinated with selected schools, government, offices, social agencies, businesses and industries on site.

**EXP 4104 Sensory Processes (3) AS PSY**

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) AS PSY**

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) AS PSY**

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) AS PSY**

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) AS PSY**

PR: PSY 3213

Historical survey of relations between psychology and linguistics leading to the emergence of psycholinguistics as a field of study. The current status of theory and research in the field will be covered.

**EXP 4680C Cognitive Psychology (3) AS PSY**

PR: PSY 3213 with a grade of C or better

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 CAHU HHCP  
(3) AS HCS**

Students will be introduced to key concepts and techniques of Film Studies, including the history of

film; an examination of film genres; an overview of foreign cinema; and the study of issues of class, race, gender, and sexuality.

**FIL 3011 The Film As Mass Com II: Rhetor & Stylis  
(3) AS COM**

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) AS  
HCS**

PR: FIL 1002

Offering an advanced introduction to the first 65 years of international film history, this course joins questions of aesthetic and narrative practice to explorations of various film genres, film movements, and national cinemas.

**FIL 3077 Contemporary Film & New Media (3) AS  
HCS**

PR: FIL 1002

Offering an advanced introduction to global motion picture practice after 1959, this course explores the aesthetics of film and new media across various genres, movements, and national contexts.

**FIL 3427C Beginning Film (3) FA ART**

Intermediate problems in film with emphasis on the exploration of materials and media and the development of individual concepts.

**FIL 3854 Film Art WRIN 6AC (3) FA ART**

The course is an in-depth study of film language and history, focusing on its unique social, political and cultural significance. Students explore the heterogeneous nature of film by examining its role in popular culture and visual art discourse.

**FIL 4050 Social History of the Film, 1945 to the  
Present (3) AS COM**

PR: MMC 2100 and MMC 3602

The development of the film from 1945 to the present.

**FIL 4433C Advanced Film (3) FA ART**

PR: FIL 3845

More advanced projects in filmmaking to further develop works both technically and conceptually.

**FIL 5469C Cinematography (4) FA ART**

PR: PGY 4520C

Advanced studio work using black and white, color and sound as technical and aesthetic factors in visual, artistic productions.

**FIN 2100 Personal Finance CAQR (3) BA FIN**

Survey of the problems and techniques of personal financial planning. Includes consumer credit, insurance, home ownership, and personal investing, with attention given to current economic and legal constraints.

**FIN 3005 Fundamentals of Business Finance (3)  
BA FIN**

PR: ACG 3074

Designed for non-business majors introducing basic financial concepts. The course provides an understanding of the basic concepts and techniques that are required to make informed

# COURSE DESCRIPTIONS

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- decisions about how the funds generated by a firm are used.
- FIN 3233 Money and Banking (3) BA FIN**  
PR: ECO 2013.  
Examines the structure and operations of the U.S. monetary system, commercial banking, central banking, money, and capital markets, and provides an introduction to monetary theory and policy.
- FIN 3403 Principles of Finance (3) BA FIN**  
PR: ACG 2071, ECO 2013, and ECO 2023.  
Study of the processes, decision structures, and institutional arrangements concerned with the use and acquisition of funds by a firm. Includes the management of the asset and liability structure of the firm under certain and risky situations. The financial decision process will include and recognize the international as well as domestic aspects of financial management.
- FIN 3604 International Finance (3) BA FIN**  
PR: FIN 3403.  
Study of factors affecting international business, assessment of risks, international managerial finance, institutions and instruments of international business finance.
- FIN 4303 Financial Institutions and Markets (3) BA FIN**  
PR: FIN 3403.  
A study of financial institutions and their roles in the capital markets; includes the savings allocation, investment, and financial decision making processes.
- FIN 4324 Bank Management (3) BA FIN**  
PR: FIN 3403.  
Application of traditional finance concepts to the management of commercial banks with emphasis on decision making and problem-solving techniques to major problem areas in banking.
- FIN 4412 Working Capital Management (3) BA FIN**  
PR: FIN 3403.  
An examination of short-term financial management - that is, policies and decisions related to managing the current operations of a firm. Topics to be covered include cash management, credit and collection policy, inventory decisions, and sources of short-term financing.
- FIN 4414 Advanced Corporation Finance (3) BA FIN**  
PR: FIN 3403.  
An examination of the financial policies of corporations, with special reference to dividend policy, financial structure, capital expenditures, acquisitions, mergers, and reorganizations.
- FIN 4443 Financial Policies and Strategies (3) BA FIN**  
PR: FIN 4414.  
A senior seminar for majors in Finance. Primarily a case course examining financial policies and the application of financial analysis to alternative strategies.
- FIN 4461 Financial Statement Analysis (3) BA FIN**  
PR: FIN 3403.  
Provides an understanding of the relationship between financial statements produced in accordance with GAAP and the informational content such statements provide. After completing the course, the student should have a better understanding of the usefulness of published financial statements to various users in a variety of circumstances.
- FIN 4504 Principles of Investments (3) BA FIN**  
PR: ECO 2013 and FIN 3403.  
Survey of the risks and returns of investment media in relation to the investment objectives of individual and institutional investors. Includes an examination of the capital markets, information flows, and analytical techniques in terms of their impact on the valuation process.
- FIN 4514 Advanced Investment Analysis and Management (3) BA FIN**  
PR: FIN 4504.  
A comprehensive study of security analysis and portfolio management. The course will utilize a quantitative approach to investment selection and management.
- FIN 4533 Financial Option & Futures (3) BA FIN**  
PR: FIN 4504.  
This course covers financial futures and options markets, the fundamental properties and pricing principles of these instruments, as well as hedging and risk management strategies using such instruments. The course is not repeatable for credit.
- FIN 4560 Applied Securities Analysis (3) BA FIN**  
PR: FIN 4504.  
In this course students manage a portfolio of real money, which provides them hands-on experiences in stock analyses, decision making, and effective communication. Students also network with investment professionals. Repeatable for up to 6 credit hours.
- FIN 4905 Independent Study (1-3) BA FIN**  
Specialized independent study determined by the student's needs and interests.
- FIN 4915 Independent Research (1-3) BA FIN**  
The research project will be mutually determined by the student and instructor.
- FIN 4934 Selected Topics in Finance (1-3) BA FIN**  
Topics to be selected by instructor and department chairperson on pertinent finance issues.
- FIN 4940 Finance Internship (3) BA FIN**  
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.
- FIN 4970 Finance Honors Thesis (3) BA FIN**  
This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to

# COURSE DESCRIPTIONS

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- develop explanations or solutions to academically interesting business problems or opportunities.
- FLE 4290 Technology in the Foreign and Second Language Classroom (3) ED EDI**  
This course prepares pre-service and in-service teachers to infuse technology into foreign language and ESOL instruction. Students will develop technology skills and knowledge based on sound pedagogical principles that reflect research and theory in Second Language Acquisition and will apply this practical and theoretical knowledge to K-16 Foreign Language/ESOL instructional situations.
- FLE 4314 Methods of Teaching Foreign Languages and ESOL in the Elementary School (3) ED EDI**  
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) ED EDI**  
PR: FLE 4317.  
Overview of applied Second Language Acquisition theory and the components of language, linking them to methods and techniques of providing comprehensible instruction and supporting the development of oral proficiency and literacy skills for (LEP) children.
- FLE 4317 Teaching Students with Limited English Proficiency (3) ED EDI**  
This course is designed to prepare preprofessional teachers to provide linguistically and culturally appropriate instruction, assessment, and learning opportunities for students with Limited English Proficiency.
- FLE 4333 Methods of Teaching Foreign Languages and ESOL in the Secondary School (3) ED EDI**  
PR: FLE 4314  
Methods of teaching foreign languages within a communicative framework. Includes examination and practice of current instructional techniques in listening, speaking, reading and writing skills, testing, error correction, and computer assisted language instruction. The emphasis is on teaching foreign languages and teaching for cultural understanding at the secondary level 7-12.
- FLE 4370 Practicum in Foreign Language Teaching in the Secondary School (3) ED EDI**  
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.
- FLE 4936 Senior Seminar in Foreign Language Education CPST (3) ED EDI**  
Synthesis of teacher candidate's courses in complete college program.
- FLE 4940 Internship: Foreign Language Education (1-12) ED EDI**  
One full semester of internship in a public or private school.
- FLE 5145 Language Principles, Acquisition and Teaching (3) ED EDI**  
PR: FLE 5345  
Restricted to Education majors and not repeatable for credit. Overview of applied SLA theory and components of language. Methods & techniques of comprehensible instruction and the development of oral proficiency and literacy skills for LEP children.
- FLE 5291 Technology in the Foreign Language Classroom (3) ED EDI**  
PR: FLE 5313 and FLE 5331.  
This course is intended to prepare foreign/second language teachers to provide pedagogically sound and technologically enhanced instruction for foreign language and second language students in the K-16 realm. Basic computer literacy is recommended.
- FLE 5313 Methods of Teaching Foreign Language and ESOL in the Elementary School (3) ED EDI**  
This course is designed to provide training in the theory and methods of teaching foreign languages and ESOL in the elementary school (FLES) to both pre- and in-service teachers.
- FLE 5331 Methods of Teaching Foreign Language and ESOL in the Secondary School (3) ED EDI**  
PR: FLE 5313  
This course provides for the development of knowledge and skills necessary to prepare students to assume roles as foreign language (FL) and ESOL teachers at the secondary school level. It represents the second part of a sequence of methods courses.
- FLE 5345 Teaching English Language Learners K-12 (3) ED EDI**  
This course is restricted to Education majors and is not repeatable for credit. It is designed to prepare preprofessional teachers to provide linguistically and culturally appropriate instruction, assessment, and learning opportunities for LEP students.
- FLE 5366 ESOL Education in Content Areas (3) ED EDI**  
Enables participants to meet the special linguistic & cultural educational needs of limited English proficient (LEP) students in content area classes. Provides a theoretical & practical foundation for ESOL competencies in courses include ESOL infusion.
- FLE 5895 Dual Language Education (3) ED EDI**  
This course is for teachers who are interested in bilingual education. The aim is to deconstruct the philosophical, theoretical, political, social and educational underpinning of instruction (K-16) when it is delivered through two languages.
- FLE 5946 Practicum in Foreign Language/ESOL Teaching (3) ED EDI**  
PR: FLE 5313  
CR: FLE 5331

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- This course prepares students for their internship by providing a structured pre-internship experience while meeting regularly in a university class. Opportunity to see teachers in action.
- FOL 2100 General Foreign Language I (1-4) AS WLE**  
A general purpose course that may be used for transfer of credit, credit by examination, and similar matters; may also be used for formal courses in less commonly taught languages or in professional translation.
- FOL 4101 General Foreign Language II (1-3) AS WLE**  
A general purpose course that may be used for transfer of credit, credit by examination, and similar matters; may also be used for formal courses in less commonly taught languages or for workshops in professional interpreting.
- FOL 4905 Directed Study (1-3) AS WLE**  
Departmental approval required.
- FOL 5906 Directed Study (1-3) AS WLE**  
PR: FOL 4101 or equivalent.
- FOS 4041 Food Quality and Composition (3) PH CFH**  
PR: HUN 2201  
Introduction to food quality; the chemical, physical, qualitative changes with storage, preservation, processing, and production; techniques and instrumentation used to determine composition of foods; and importance of food safety. Course is not restricted to majors and is not repeatable for credit.
- FRE 1120 Beginning French I (4) AS WLE**  
The first course in the study of elementary French. Emphasis on the development of basic skills in comprehension, speaking and reading.
- FRE 1121 Beginning French II (4) AS WLE**  
PR: FRE 1120 or equivalent.  
A continuation of FRE 1120.
- FRE 1170 Overseas Study-Elem. French (4) AS WLE**  
Elementary-level French taught in France. In lieu of FRE 1120 and FRE 1121.
- FRE 2200 French III (3) AS WLE**  
PR: FRE 1121 or equivalent.  
A review of the basic structure of French.
- FRE 2201 French IV (3) AS WLE**  
PR: FRE 2200 or equivalent.  
Readings in French on the intermediate level.
- FRE 2240 Intermediate Spoken French in Cultural Context (3) AS WLE**  
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) AS WLE**  
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) AS WLE**  
PR: Two semesters of university-level French
- FRE 3234 Reading in French Literature and Culture (3) AS WLE**  
PR: FRE 2201 or equivalent.  
This course is designed to build reading skills in French while giving students a broad background in French culture.
- FRE 3420 Written French in Cultural Context (3) AS WLE**  
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) AS WLE**  
PR: FRE 2200 or equivalent.  
An introduction to the French language in ordinary business transactions.
- FRE 3470 Overseas Study (1-6) AS WLE**  
An intensive study-travel project in France.
- FRE 3500 French Civilization CPST (3) AS WLE**  
Readings and discussion on the cultural history of France.
- FRE 3502 The Francophone World: A Global Culture (3) AS WLE**  
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 4392 African Images in Francophone Film (3) AS WLE**  
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) AS WLE**  
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 4471 Advanced Overseas Study (1-6) AS WLE**  
PR: FRE 3470  
Intensive language study in France.
- FRE 4700 French Linguistics (3) AS WLE**  
PR: LIN 3010 and FRE 2201 or equivalent.

# COURSE DESCRIPTIONS

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- An introduction to the phonological, morphological and syntactic structure of French.  
**FRE 4905 Directed Study (1-3) AS WLE**
- FRE 4930 Selected Topics (1-3) AS WLE**  
Study of an author, movement or theme.
- FRE 5425 Advanced Written Expression (3) AS WLE**  
PR: FRE 4421, or equivalent.  
Course is designed to give advanced training in free composition in French.
- FRE 5566 Contemporary France (3) AS WLE**  
PR: FRE 3500 or equivalent  
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 WRIN 6AC (3) AS WLE**  
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 WRIN 6AC (3) AS WLE**  
PR: ENC 1101 and 1102 or their equivalent.  
A survey of the major literary works of France, tracing not only literary but also intellectual and cultural history from the Middle Ages to the present.
- FRW 4100 The French Novel (3) AS WLE**  
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) AS WLE**  
PR: FRE 3234.  
A study of the history of drama and poetry. Will include medieval drama, Racine, Corneille, Moliere, Anouilh, Sartre, Ionesco and others. Will also include Villon, Ronsard, DuBellay, Lamartine, Hugo, Vigny, Musset, Baudelaire, Mallarme, Rimbaud, Valery, Peguy, Eluard, Apollinaire, Char, and others. Course content may vary from year to year. Course taught in French.
- FRW 5222 Classical Prose and Poetry (3) AS WLE**  
PR: FRW 4101.  
Emphasis on Malherbe, Descartes, Pascal, La Fontaine, and Boileau.
- FRW 5226 20th Century Poetry and Theatre (3) AS WLE**  
PR: FRW 4101.  
Valery, Claudel, Anouilh, Motherland, Sartre, Ionesco.
- FRW 5286 The 20th Century Novel (3) AS WLE**  
PR: FRW 4100.  
Proust, Gide, Mauriac, Malraux, Camus, Robbe-Grillet.
- FRW 5314 Classical Drama (3) AS WLE**  
PR: FRW 4101.  
Corneille, Moliere, and Racine.
- FRW 5415 Literature of the Middle Ages (3) AS WLE**  
PR: FRW 4100 or FRW 4101.  
Major genres, including epics, Arthurian romances, drama and lyric poetry. Reading in modern French translation.
- FRW 5425 Literature of the Renaissance (3) AS WLE**  
PR: FRW 4100 or FRW 4101.  
A study of Renaissance French humanism including Rabelais, Montaigne, and Pleiade poets.
- FRW 5445 18th Century Literature (3) AS WLE**  
PR: FRW 4100.  
The classical tradition and the new currents of thought in the Age of Enlightenment.
- FRW 5535 Romanticism and Early Realism (3) AS WLE**  
PR: FRW 4101.  
A study of the romantic and early realistic movements with emphasis on Lamartine, Vigny, Musset, Hugo, and Balzac.
- FRW 5556 Naturalism and Realism (3) AS WLE**  
PR: FRW 4100 or FRW 4101.  
A detailed study of realism and naturalism with emphasis on Flaubert, Zola, les Goncourt, Maupassant, and Daudet.
- FRW 5745 French Literature of Quebec (3) AS WLE**  
Overview of the main representative literary works in French from Quebec in all genres (poetry, drama, novel, short story) as well as a survey of the main traits of Quebec history & culture. Open to non-majors. Not repeatable for credit. Taught in French.
- FRW 5755 African and Caribbean Literature (3) AS WLE**  
An overview of the main representative literary works in French from North and SubSahara Africa as well as the Caribbean. Open to non-majors and not repeatable for credit. Course taught in French.
- FRW 5829 An Introduction to Modern French Literary Criticism (3) AS WLE**  
A graduate elective 3 credit course entirely taught in French, which offers a survey of the main trends and methods in 20th Century literary criticism, the French having been at the avant-garde of the field.
- FRW 5934 Selected Topics (1-3) AS WLE**  
Study of an author, movement or theme.
- GEA 2000 World Regional Geography CAGC (3) AS SGS**  
Comparison and analysis of representative regions of the world, with emphasis on cultural, political, economic, environmental, and physical diversity.

# COURSE DESCRIPTIONS

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## **GEA 3194 Regional Geography (3) AS SGS**

Variable title course to systematically study and compare special regions identified by the instructor.

## **GEA 3405 Geography of Latin America 6AC (3) AS SGS**

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 6AC (3) AS SGS**

Systematic geographic analysis of the European world region, with emphasis on its cultural, political, economic, environmental, and physical diversity.

## **GEA 3703 Geography of Asia (3) AS SGS**

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) BA QMB**

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) BA QMB**

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) BA GBA**

This course introduces the student to: 1) the nature of international business; 2) the framework of international organizations and the monetary system within which international business functions; 3) forces affecting international business, and 4) management responses to problems caused by international environments.

## **GEB 2935 Selected Topics in Business (1-3) BA GBA**

Topics to be selected by department chairs.

## **GEB 4094 Professional Development: Career Transition (2) BA GBA**

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) BA GBA**

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 CPST (3) BA GBA**

PR: FIN 3403, MAN 3025, MAR 3023.

This capstone course focuses on helping students develop a top-level executive perspective on managing a business, and requires students to integrate the theoretical and functional area concepts, principles, and skills learned in previous coursework.

## **GEB 4905 Independent Study (1-3) BA GBA**

Specialized independent study determined by the student's needs and interests.

## **GEB 4915 Independent Research (1-4) BA GBA**

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) BA GBA**

The content and organization of this course will vary according to the current interests of the faculty and needs of students.

## **GEB 4970 General Business Honors Thesis (3) BA GBA**

This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to develop explanations or solutions to academically interesting business problems or opportunities.

## **GEO 1930 Geography of Current Events (3) AS SGS**

Application of basic geographic principles to the analysis of contemporary events in various parts of the world.

## **GEO 2200 Introduction to Physical Geography CANP (3) AS SGS**

This course explores the principles of physical geography; maps; earth sun relationships; meteorological, hydrological, pedagogical, aeolian, and glacial processes, and resulting landforms.

## **GEO 2200L Introduction to Physical Geography Lab (1) AS SGS**

CR: GEO 2200.

Laboratory portion of Introduction to Physical Geography (GEO 2200).

## **GEO 2400 Human Geography CAGC (3) AS SGS**

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) AS SGS**

# COURSE DESCRIPTIONS

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- Topics are at the discretion of the instructor. This course will offer lower level topics to attract new majors.
- GEO 3164C Research Methods in Geography (3) AS SGS**  
PR: STA 2023 or STA 2122 or QMB 2100.  
Statistical analysis in geographic research.
- GEO 3602 Urban Geography (3) AS SGS**  
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) AS SGS**  
PR: GIS 3006 and GEO 3164C  
Selected topics in various geographic techniques and methodologies and their application.
- GEO 4204C Topics in Physical Geography (3) AS SGS**  
PR: GEO 2200  
Intensive study of a topic selected from physical geography.
- GEO 4210 Process Geomorphology (3) AS SGS**  
PR: GEO 2200 or GLY 2010  
Origin, evolution, and distribution of the landforms of North America.
- GEO 4244 Tropical Meteorology (3) AS SGS**  
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) AS SGS**  
PR: GEO 2200  
A systematic study of soil genesis and classification with a focus on North American and Florida soils.
- GEO 4280C Hydrology (3) AS SGS**  
PR: GEO 2200  
Introduction to the general principles that govern hydrologic processes. Approaches to hydrologic measurements and the application of hydrologic analyses to water-resource management issues are examined.
- GEO 4284 Water Resources Management (3) AS SGS**  
Geographic perspectives on water resources management at the global, national and local scale, including political, socio-economic, technical and scientific aspects.
- GEO 4300 Biogeography (3) AS SGS**  
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) AS SGS**  
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 6AC (3) AS SGS**  
The distribution, exploitation, and conservation of physical and human resources, ecology.
- GEO 4379 Geographic Perspectives on Environment (3) AS SGS**  
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) AS SGS**  
PR: GEO 2400  
The interrelationships of culture and nature, from ancient times to the present.
- GEO 4471 Political Geography (3) AS SGS**  
PR: GEO 2400  
The geographic factors underlying political decisions and influencing their outcome; the geographic consequences of these decisions; geopolitics.
- GEO 4502 Economic Geography (3) AS SGS**  
PR: GEO 2400  
The spatial organization of economic production, consumption, and exchange systems.
- GEO 4604 Topics in Urban Geography (3) AS SGS**  
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) AS SGS**  
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) AS SGS**
- GEO 4910 Individual Research (1-4) AS SGS**
- GEO 4930 Selected Topics (1-3) AS SGS**  
Topics are at the discretion of the instructor. This course will offer upper level, advanced topics in all aspects of Geography. Course can be repeated for credit as long as the title is different, for up to 8 credits.
- GEO 4933 Geography Colloquium (1) AS SGS**  
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) AS WLE**

# COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

- Development of basic skills in listening and reading comprehension, speaking and writing of German.
- GER 1121 Beginning German II (4) AS WLE**  
PR: GER 1120 or equivalent.  
Continued development of basic skills in listening and reading comprehension, speaking and writing German.
- GER 2200 German III (3) AS WLE**  
PR: GER 1121 or equivalent.  
A review of the basic structure of spoken and written German. May be taken concurrently with GER 2201.
- GER 2201 German IV (3) AS WLE**  
PR: GER 1121 or equivalent.  
Readings in German on the intermediate level. May be taken concurrently with GER 2200.
- GER 2240 Conversation I (3) AS WLE**  
PR: GER 1121.  
For development of basic conversational skills.
- GER 3333 German Language & Culture through Film (3) AS WLE**  
PR: GER 2200 or above.  
This is a German conversation course which allows students to improve upon their German speaking, reading, and listening skills. German films will be used as the basis for oral communication practice. The language of instruction is German. German speaking, reading, and listening skills. German films will be used as the basis for oral communication practice. The language of instruction is German.
- GER 3420 Composition I (3) AS WLE**  
A fundamental course for students who have completed GER 2200 or GER 2201.
- GER 3440 German for Business and International Trade (3) AS WLE**  
PR: GER 2200  
An introduction to the German language in ordinary business transactions.
- GER 3500 German Civilization (3) AS WLE**  
PR: GER 2200 or GER 2201.  
Readings in German on the cultural history of Germany.
- GER 3573 Cultural Observations in Germany (3) AS WLE**  
This course allows students to experience Germany from a cultural/historical perspective and gives them insights into a city's significance within Germany as a whole. It also includes an emphasis on German language use and cultural practices.
- GER 4410 Conversation II (3) AS WLE**  
Free conversation based on the current German idiom.
- GER 4421 Composition II (3) AS WLE**  
Practical training in modern German usage and differences of style.
- GER 5605 Goethe (3) AS WLE**  
Selected novels, poems: Werther, Wahlverwandtschaften, Wilhelm, Meister, Westostlicher, Divan.
- GER 5845 History of the German Language (3) AS WLE**  
A diachronic approach to the study of the German language. The course traces the history and development of the language from Indo-European through Germanic, Old, Middle, and New High German.
- GET 3103 German Literature in English Translation (3) AS WLE**  
Analysis and interpretation of selected major works of German literature, to be read in English, with regard to their thought content and relevance to our thoughts and actions.
- GET 3522 Fantastic Films of Early German Cinema (3) AS WLE**  
An overview of early 20th century German films with emphasis on horror, science fiction, and fantasy films. Course offers insights into Germany's artistic, intellectual, and social history, as well as general film history and criticism. Taught in English.
- GET 3524 German Popular Film (3) AS WLE**  
Overview of films with significant popular success at German box office from 1920s to present. Films will be discussed in the context of Germany's artistic, intellectual, and social history as well as general film history and criticism. Taught in English.
- GET 4523 New German Cinema to Present (3) AS WLE**  
An overview of post-1945 Ger films with emphasis on films from New Ger Cinema (1960s-early 80s) & its aftermath. Course offers insights into Germany's artistic, intellectual, and social history, as well as general film history and criticism. Taught in Eng.
- GET 4528 German Directors in Hollywood CPST HHCP (3) AS WLE**  
This course examines films by German émigré directors produced in Hollywood throughout the twentieth and twenty-first centuries.
- GEW 4100 Survey of German Literature I (3) AS WLE**  
Course will examine a variety of texts from the 9th to the early 19th century, exposing significant moments in German literature and thought and exploring diverse perspectives on German culture and society. Course taught in German. Not repeatable.
- GEW 4101 Survey of German Literature II (3) AS WLE**  
Course will examine a variety of texts from the 19th century to the present, exposing significant moments in German literature and thought and exploring diverse perspectives on German culture and society. Course taught in German. Course not repeatable.
- GEW 4750 Women in Contemporary German Literature and Film (3) AS WLE**  
PR: GER 2200 or above



# COURSE DESCRIPTIONS

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- This course serves as an introduction to contemporary literary works and films by women writers and directors from German speaking countries. It will examine the works based on feminist literary and cultural theory.
- GEW 4900 Directed Study (1-3 ) AS WLE**
- GEW 4930 Selected Topics (1-3 ) AS WLE**  
Study of an author, movement or theme.
- GEW 5606 Faust (3) AS WLE**  
Sources, form, content, and literary significance of Urfaust and Faust.
- GEW 5615 Schiller (3) AS WLE**  
Selected dramas, philosophical, and aesthetical writings.
- GEW 5934 Selected Topics (1-3) AS WLE**  
Study of an author, movement or theme.
- GEY 2000 Introduction to Gerontology CASB (3) BC GEY**  
This course is designed to be an introduction to the study of aging. The aging process is viewed from a multi-disciplinary perspective including the biological, psychological, and sociological aspects of aging.
- GEY 3323 Community Resources for the Older Adult (3) BC GEY**  
This class is designed to introduce students to services available to older adults and to careers in the field of Aging Services. Content includes theoretical and practical issues, as well as exposure to opportunities for service and employment.
- GEY 3601 Physical Changes and Aging (3) BC GEY**  
A survey of normal and pathological physical changes occurring from middle age through older age. Course emphasis will be on basic age-related changes and their implications for behavior in older age.
- GEY 3625 Sociological Aspects of Aging CASB (3) BC GEY**  
Consideration of human aging in a broad sociocultural context. Course emphasis will be on historical, philosophical, and demographic aspects of aging, theories of social gerontology, attitudes toward aging and the aged, and cross-cultural perspective.
- GEY 4101 Aging in Special Populations (3) BC GEY**  
This course explores how special populations (centenarians; the severely mental ill, homeless older adults; LGBT older adults; older adults with HIV/AIDS; and older offenders) age differently with specific attention paid to their health care needs.
- GEY 4102 Aging in Modern Literature and Film (3) BC GEY**  
This class focuses on late 20th century and early 21st century literature and film to explore gender, ethnicity, creativity, social class, caregiving, and many other critical aging issues. Not restricted to majors.
- GEY 4231 Elder Abuse and Neglect (3) BC GEY**  
The purpose of this class is to provide students with a basic understanding of the problem of elder abuse and neglect found within the community and in congregate facilities. Interdisciplinary approaches to intervention are emphasized.
- GEY 4322 Gerontological Case Management (3) BC GEY**  
This course examines the role and function of case management in meeting the care needs of the older adult. All aspects of case management practice are covered, including the elements of the case management process as well as ethical and legal issues.
- GEY 4360 Gerontological Counseling (3) BC GEY**  
An introduction to the study of the major mental health problems of the elderly. Current approaches to counseling the elderly in community and institutional settings are discussed.
- GEY 4401 Research Methods in Gerontology (3) BC GEY**  
PR: STA 2122 or equivalent with a grade of C or better.  
Methods and techniques of social research in gerontology. Design of gerontological studies, collection and analysis of data, interpretation of results, and preparation of reports.
- GEY 4475 Program Evaluation in an Aging Society (3) BC GEY**  
Students develop knowledge of the purposes of evaluation research and the approaches and methodologies necessary to evaluate aging services programs and organizations
- GEY 4507 Understanding Policies and Practices of Long Term Care CPST (3) BC GEY**  
PR: GEY 2000  
This course provides principles for managing disability in a variety of settings. Topics include historical context, experience of disability, and challenges of providing care for disabled persons. Course is repeatable and not restricted to GEY majors.
- GEY 4508 Health Care Operations (3) BC GEY**  
PR: GEY 4507, ACG 2021, each with a grade of C or better.  
This course addresses the health care operations of long-term care facilities. This course is for students in the BS in long-term care administration, but not limited to GEY majors. The course is repeatable for credit.
- GEY 4509 Regulatory and Clinical Operations (3) BC GEY**  
PR: GEY 4508, ACG 2021, each with a grade of C or better.  
This course will familiarize the student with the basic aspects of nursing home administration through the practical application of management

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- theory and concepts. The course is not repeatable and not restricted to GEY majors.
- GEY 4520 Legal Aspects of Health Care Administration (3) BC GEY**  
This web-based course presents an overview of the legal issues facing the health care industry and provides special emphasis on long-term care settings. It provides students with a basic working knowledge of legal system and court processes.
- GEY 4608 Alzheimer's Disease Management (3) BC GEY**  
PR: GEY 2000 or GEY 3326.  
This course will provide instruction on effective approaches for providing care to persons with Alzheimer's Disease and related disorders in residential and home care settings. The major dementing disorders and typical behaviors presented by patients are presented along with strategies for successful behavior management. Building a dementia program and building dementia care teams are also covered.
- GEY 4612 Psychology of Aging CASB (3) BC GEY**  
A comprehensive overview of psychological aspects of aging. Topics will include age-related changes in sensation/perception, cognition, and personality, as well as application to late-life psychopathology.
- GEY 4628 Race, Ethnicity and Aging (3) BC GEY**  
This course addresses how people of different ethnic and racial groups age, in the physical, psychological, and social context. Topics include cultural competence and sensitivity. Not restricted; not repeatable.
- GEY 4629 Women and Aging (3) BC GEY**  
Because of longer life expectancy and other factors, women make up a disproportionate share of older adults in the United States. This course examines older women from a feminist perspective, is open to all majors, and is not repeatable for credit.
- GEY 4635 Business Management in an Aging Society CPST (3) BC GEY**  
This course provides students with an interdisciplinary perspective that addresses both business management and the impact of our aging society on business.
- GEY 4641 Death and Dying CASB (3) BC GEY**  
A broad overview of the basic concepts and psychosocial issues relating to the meaning of loss and death, the process of death, and the experience of grieving. Health care practices are considered along with community resources.
- GEY 4647 Ethical and Legal Issues of Aging CPST (3) BC GEY**  
A consideration of the major ethical and legal issues in aging and their implications for policies, priorities, and services.
- GEY 4690 Senior Seminar in Gerontology (3) BC GEY**  
In this senior level capstone course, students discuss important scientific and professional issues in the field of gerontology, integrating work from prior courses, and practicing professional skills. Restricted to majors. Not repeatable for credit.
- GEY 4900 Directed Readings (1-3) BC GEY**  
A reading program with topics in gerontology conducted under the supervision of a faculty member.
- GEY 4917 Directed Research (1-4) BC GEY**  
This course will provide Undergraduate Students with an opportunity to engage in an agreed upon research project under the supervision of a professor. The course is open to any major and is repeatable for credit.
- GEY 4935 Special Topics in Gerontology (3) BC GEY**  
Courses on topics such as preretirement, mental health, human services organization, nursing home administration, the older woman, and elder abuse will be offered.
- GEY 4945 Field Placement (1-9) BC GEY**  
Internship in an agency or community setting. A full-time assignment to an agency or organization, engaged in planning or administering programs for older people if in the BA program (6 hours), or to a nursing home if in the BS program (9 hours).
- GEY 5476 Program Evaluation in an Aging Society (3) BC GEY**  
Students develop knowledge of the purposes of evaluation research and the approaches and methodologies necessary to evaluation aging services programs and organizations.
- GEY 5501 Health Care Operations in Long Term Care (3) BC GEY**  
Addresses the health care operations of long term care facilities with a special emphasis on nursing homes and assisted living facilities. Specifics include leadership management of people resources physical plant and quality improvement.
- GEY 5620 Sociological Aspects Of Aging (3) BC GEY**  
Examines, within a sociological frame of reference, the interrelationships between the aged (or aging) and the structure and function of the social system and its major institutionalized subsystems.
- GEY 5630 Economics and Aging (3) BC GEY**  
Examines basic economic systems as they impact the aged. Emphasis is on applied aspects of economic planning, pensions, insurance, social security and other support systems.
- GEY 5642 Perspectives on Death and Dying (3) BC GEY**  
Study of the various psychological, medical, legal, and religious problems caused by dying and death, and how individuals and groups have responded in the past and present.
- GIS 2010C Map Interpretation (3) AS SGS**  
Analysis and synthesis of various types of maps and map projections.
- GIS 3006 Computer Cartography (3) AS SGS**

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An introduction to the concepts underlying modern, computer-based mapping and to the collection and storage of digital spatial data.

**GIS 4035C Remote Sensing of the Environment (3) AS SGS**

PR: GIS 3006 and GEO 3164C

Analysis of satellite images and aerial photographs for studies of the environment.

**GIS 4043C Geographic Information Systems (3) AS SGS**

PR: GIS 3006 and GEO 3164C

An introduction to the concepts underlying Geographical Information Systems, with an emphasis on analytical capabilities of such systems in both raster and vector domains.

**GIS 4302C GIS for Sustainability (4) AS SGS**

PR: GIS 3006, with a minimum grade of C or better

Focus on the application of GIS for sustainable planning and development; policymakers & planning agencies increasingly use spatial data/methods to aid in their decisions; this course is relevant to anyone interested in issues for sustainable development.

**GIS 5049 GIS for Non-Majors (3) AS SGS**

An introduction to the concepts underlying digital thematic mapping and geographical information systems (GIS) for non-geography majors and non-geography graduate students.

**GIS 5075 Global Positioning Systems (3) AS SGS**

PR: GIS 5049

Examination of the theory, operation and application of Global Positioning Systems (GPS).

**GLY 2000 Earth and Environmental Systems (3) AS SGS**

This course examines the geology of the earth and the environment, using an earth systems approach that looks at interactions between the lithosphere, hydrosphere, atmosphere, and biosphere. Students will learn general principles of geology, travel world-wide on the internet, and participate in discussions on topics ranging from the scientific method to the latest geologic discoveries. Open University course; taught via internet and TV. Open University course; taught via internet and TV.

**GLY 2000L Essentials of Geology Laboratory (1) AS SGS**

Fundamental concepts and skills of modern geology, including rock and mineral identification, analysis of geologic maps, field analysis, and applications of computers in Geology. Required field trip.

**GLY 2010 Dynamic Earth: Introduction to Physical Geology CANP (3) AS SGS**

A first course in geology emphasizing the Earth's composition, structure, and dynamics. Lectures/activities include but are not limited to plate tectonics, earthquakes, volcanism, glaciation, global warming, shorelines, and natural resources.

**GLY 2030 Hazards of the Earth's Surface: Environmental Geology CANP (3) AS SGS**

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.

**GLY 2051 Origins: From the Big Bang to the Ice Age (3) AS SGS**

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.)

**GLY 2073 Global Climate Change: A Geoscience Perspective CANP (3) AS SGS**

A geoscience perspective on global climate change science. Examination of the geophysics of climate, geologic history of climate change, physical factors that influence climate, and global climate modeling. Open to all students.

**GLY 2100 History of Life CANL (3) AS SGS**

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.

**GLY 2100L Earth History Laboratory (1) AS SGS**

Laboratory study of the history of the earth and life. Required for Geology majors; open to non-majors.

**GLY 2160 Geology of the National Parks CANP (3) AS SGS**

This course is delivered over the internet through blackboard and recitation meetings. It introduces the nature of geologic processes including plate tectonics, earthquakes, volcanism, and glaciation drawing on examples from our nation's Parks.

**GLY 2930 Selected Topics in Geology (1-3) AS SGS**

Topical courses in geology of general interest.

**GLY 3311C The Solid Earth: Petrology and Geochemistry (4) AS SGS**

PR: GLY 2000L; CHM 2045, MAC 2281.

Igneous and metamorphic rocks of modern and ancient tectonic environments. Rock-forming processes at plate margins and intraplate sites. Essentials of hand specimen and microscopic mineralogy. Required field trip. Lec-lab. May not be repeated for credit.

**GLY 3402C The Solid Earth: Plate Tectonics and Earth Structure (4) AS SGS**

PR: GLY 2000L; MAC 2312 or equivalent; PHY 2048.

Plate tectonic theory and its implication re: the formation of structural features on outcrop and regional scales. Field and geophysical tools for structural analysis. Required field trip. Lec-Lab.

# COURSE DESCRIPTIONS

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## **GLY 3552C Sedimentary Record 1: Sedimentary Processes and Petrology (4) AS SGS**

PR: GLY 2000L, CHM 2045, MAC 2281  
CR: GLY 3311C.

A lecture and laboratory class that discusses sedimentary processes, formation and classification of sedimentary rock, and the sedimentary rock record. Examination of the rock record to solve problems in sedimentary geology.

## **GLY 3720C The Fluid Earth (4) AS SGS**

PR: GLY 2000L; MAC 2311 and MAC 2312 or equivalent; CHM 2045 and CHM 2046; PHY 2048 and PHY 2048L.

Physical, chemical and biological processes affecting fluids of the lithosphere, oceans and atmosphere. Water as a geologic medium and global entity. A systems approach. Lecture/Lab.

## **GLY 3850 Geology For Engineers (3) AS SGS**

An examination of geologic materials and processes designed for engineering students; classification and properties of earth materials, surface processes, site investigation techniques, applications of geology to the solution of engineering problems.

## **GLY 4045 Moons, Planets, and Meteors: An Introduction to Planetary Science (3) AS SGS**

Solar System exploration, from Aristotle to NASA. Modern views on the origins of meteorites, the Moon, Mars, Venus, and other planetary bodies, and the methods of planetary study. Meteor impacts, their effects, future hazard. Space science as a tool in the study of the Earth. Field trips, lectures, Internet exercises.

## **GLY 4053 Theories and Arguments about the Earth (3) AS SGS**

PR: 2000 level geology course.  
History of thinking about the Earth: context - geologic controversies; emphasis - geologic reasoning.

## **GLY 4104C Sedimentary Record 3: Paleontology and Earth Evolution (4) AS SGS**

PR: GLY 2000L, GLY 3552C, BSC 2010.  
The study of "deep time", including how it is measured, how it is correlated over the Earth's surface, and how important physical, biologic, and chemical geologic processes have varied with time. Lec.-Lab.

## **GLY 4310 Petrology (3) AS SGS**

The formation of igneous and metamorphic rocks in varying tectonic environments. Emphasis is placed on the identification of igneous and metamorphic rocks in hand specimens and thin sections.

## **GLY 4324C Physical Volcanology (4) AS SGS**

PR: GLY 3311C, MAC 2241 or MAC 2311 or MAC 2281.  
Physical volcanology explores the nature of volcanism on Earth and nearby planets. Topics in magma production and ascent, eruption dynamics, volcanic hazards, and volcano

monitoring will be covered in lecture, laboratory, and independent exercises.

## **GLY 4462 Geomechanics (3) AS SGS**

PR: GLY 2010 or equivalent, PHY 2048 and 2049 or equivalent.

CPR: GLY 3402C (or an equivalent structural geology course).

Overview of the mechanical behavior of earth materials including general theory, an introduction to soil mechanics, and introduction to rock mechanics. Includes two field trips to observe geomechanical issues in Florida and modern methods of rock testing.

## **GLY 4480 Seismology (4) AS SGS**

PR: Introductory geology for majors, calculus and calculus-based physics as required for geology majors.

Comprehensive introduction to theoretical and observational seismology, use of seismic waves and earthquake patterns to study earth structure, seismic hazard and risk mitigation, earthquake prediction, and techniques for the analysis of seismic data.

## **GLY 4554C Sedimentary Record 2: The Earth's Surface (4) AS SGS**

PR: At least one course in Geology with lab.  
Principles of weathering, erosion, production, and transport of sediment on the earth's surface, and the resulting geomorphology. Modern sedimentary environments and the process-response systems that govern them. Lecture/lab.

## **GLY 4734 Beaches and Coastal Environments (3) AS SGS**

A comprehensive introduction to the nature of all coastal environments including beaches, dunes, tidal inlets, estuaries, reefs, and river deltas. Emphasis will be on the natural state of these environments and how human activities have and will impact them. Consideration of coastal management policies involving economics, ethics, policy, and environmental law.

## **GLY 4780 Geological Field Studies (1-3) AS SGS**

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.

## **GLY 4822C Fluid Earth 2: Hydrogeology (4) AS SGS**

PR: GLY 2000L, GLY 3720C, PHY 2048, MAC 2281.  
CR: MAC 2282.

Ground water flow systems, ground water geology, introduction to numerical and analytical models of ground water flow. Lec.-lab.-field trips.

## **GLY 4866 Computational Geology (3) AS SGS**

PR: One semester of calculus and physics.  
Geologic problems and problem-solving from a mathematical perspective. The intersection of

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- geology and math. Calculations and error analysis. Not available as S/U for geology majors; S/U available for others.
- GLY 4905 Independent Study (1-3) AS SGS**  
Specialized independent study determined by the student's needs and interests.
- GLY 4915 Undergraduate Research (1-3) AS SGS**  
Individual experimental investigations with faculty supervision.
- GLY 4920 Geology Colloquium (1) AS SGS**  
Weekly topical lectures by faculty, graduate students and invited speakers.
- GLY 4921 Scientific Communication WRIN 6AC (3) AS SGS**  
A writing-intensive FKL capstone course designed to develop students' skills in communicating scientific ideas through the written word, spoken word, and through graphical displays of information (graphs, diagrams).
- GLY 4930 Selected Topics in Geology (1-4) AS SGS**  
Each topic is a course under the direction of a faculty member with the content depending on the interests of the students and faculty involved. All areas of geology included.
- GLY 4946L Practical and Applied Geology: Teaching Experience (1) AS SGS**  
PR: 12 credit hours of Geology courses  
Hands-on course designed to give students experience in teaching geology. Topics vary widely, with several different offerings each semester. May be repeated for credit.
- GLY 4947L Practical and Applied Geology: Laboratory Experience (1) AS SGS**  
PR: 12 credit hours of Geology courses  
Hands-on course designed to teach the basic laboratory skills of a practicing geologist. Topics vary widely, with several different offerings each semester. May be repeated for credit.
- GLY 4948L Practical and Applied Geology: Field Experience (1) AS SGS**  
PR: 12 credit hours of Geology courses  
Hands-on course designed to teach the basic skills of a practicing field geologist. Topics vary widely, with several different offerings each semester. May be repeated for credit.
- GLY 4949L Practical and Applied Geology: Computational Experience (1) AS SGS**  
PR: 12 credit hours of Geology courses  
Hands-on course designed to teach the basic computational skills of a practicing geologist. Topics vary widely, with several different offerings each semester. May be repeated for credit.
- GLY 5752 Geological Field Excursion (2) AS SGS**  
Lectures and 2-3 week field excursion to study regional geology, structure and lithogenesis of geologically complex terrain. Mapping and outcrop description techniques are emphasized. Destination of trip varies. Trip requires camping and vigorous physical activity. Lec.-field trip.
- GLY 5865 Statistical Models in Geology (3) AS SGS**  
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.
- GLY 5932 Selected Topics in Geology (1-4) AS SGS**  
Each topic is a course under the direction of a faculty member. All areas of geology included.
- GRA 2206C Typography (3) FA ART**  
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.
- GRA 3104 Computer Graphics (3) FA ART**  
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.
- GRA 3110 Graphic Design I (3) FA ART**  
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.
- GRA 3193 Graphic Design I (3) FA ART**  
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.
- GRA 3735 Multimedia Systems I (3) FA ART**  
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.
- GRA 4930C Graphic Design: Senior Studio (3) FA ART**  
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.
- GRA 4940 Graphic Design: Internship (2) FA ART**  
On site supervised work experience in an educational, graphic studio, advertising agency, or corporate environment.
- GRA 4945 Graphic Design: Professional Practicum (3) FA ART**  
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.
- GRA 4955C Senior Project: Portfolio (3) FA ART**

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- 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.
- GRE 1120 Beginning Classical Greek I (4) AS WLE**  
An introductory course in classical Greek grammar with appropriate readings.
- GRE 1121 Beginning Classical Greek II (4) AS WLE**  
PR: GRE 1120 or equivalent.  
An introductory course in classical Greek grammar with appropriate readings.
- GRE 2140 New Testament Greek I (3) AS REL**  
An introduction to an intensive study of the koine Greek of the New Testament, for beginners; New Testament readings, composition, analysis of the structure of Greek of the New Testament.
- GRE 2141 New Testament Greek II (3) AS REL**  
PR: GRE 2140.  
Intermediate readings and grammar of the Greek New Testament.
- GRE 2220 Intermediate Classical Greek (4) AS WLE**  
PR: GRE 1121 or equivalent.  
Readings in Greek at an intermediate level.
- GRK 1120 Beginning Modern Greek I (4) AS WLE**  
An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.
- GRK 1121 Modern Greek II (4) AS WLE**  
PR: GRK 1120 or its equivalent  
A continuation of GRK 1120. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.
- GRK 2220 Modern Greek III (4) AS WLE**  
PR: GRK 1121 or the equivalent.  
For language students who intend to attain basic proficiency.
- GRK 2221 Modern Greek IV (4) AS WLE**  
PR: GRK 2220 or its equivalent.  
Continuation of GRK 2220. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.
- GRK 4905 Directed Study (1-5) AS WLE**  
Permits study options in Modern Greek not available in the regularly scheduled curriculum at departmental discretion.
- GRW 3502 Survey of Greek Literature: Plato's Republic (3) AS WLE**  
PR: GRE 2200 or equivalent.  
Plato's Republic' introduces students to Plato in the original Classical Greek language, providing the necessary transition from the Beginning and Intermediate courses to an Advanced level of proficiency in ancient Greek.
- GRW 4905 Directed Reading (1-4) AS WLE**
- GRW 5905 Directed Reading (1-4) AS WLE**
- GRW 5934 Selected Topics (1-4) AS WLE**  
Study of an author, movement or theme.
- HBR 1120 Modern Hebrew I (4) AS WLE**  
An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.
- HBR 1121 Modern Hebrew II (4) AS WLE**  
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.
- HBR 2220 Modern Hebrew III (4) AS WLE**  
PR: HBR 1121 or the equivalent.  
For language students who intend to attain basic proficiency.
- HBR 4905 Directed Study (1-5) AS WLE**  
Permits study options in Modern Hebrew not available in the regularly scheduled curriculum at departmental discretion.
- HIS 2931 Special Topics (3) AS HTY**  
This course emphasizes a selected historical problem or issue. A variety of instructional approaches will be taken, and topics may vary.
- HIS 3308 War and Society (3) AS HTY**  
An examination of the ways in which societies have organized themselves for war and how societies are changed by war. Also explores gendered expectations in war, and the changing conduct of war. Does not count for History major or minor credit.
- HIS 3930 Special Topics (3) AS HTY**  
This course is designed to emphasize a selected historical problem or issue that is meaningful and challenging to the student. A variety of instructional approaches will be taken to the material. Topics will be changed each semester.
- HIS 3938 Major Issues in History CPST HHCP (3) AS HTY**  
This course is an interdisciplinary examination of the historical relationship between (broadly) Asia and the West. It offers non-historians the opportunity to understand the dynamic between past and its interpretation.
- HIS 4104 Theory and Methods of History (3) AS HTY**  
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) AS HTY**  
Arrangement with instructor prior to registration. Readings in special topics.
- HIS 4920 Colloquium in History (2-4) AS HTY**  
Reading and discussion of selected topics in the various fields of history. The subject and scope of inquiry will be determined by the instructor for each section.

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**HIS 4936 Pro-Seminar in History CPST HHCP 6AC  
(4) AS HTY**

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) AS HTY**

Supervised field experience in a research and writing-related position that relates to the History major. Possible internship sites include historical societies and museums. Restricted to majors. Repeatable for 6 total credits.

**HLP 2081 Personal Wellness: A Lifetime Commitment (3) ED EDJ**

An examination of the bases for adopting a positive health lifestyle with a major emphasis on diet, weight management, physical fitness, stress management, and substance-abuse management.

**HLP 4722 Health and Physical Education for the Child (2) ED EDE**

The course helps elementary education majors understand the health, and developmental needs of K-6 children and to learn the role of the classroom teacher in providing health services, healthy environments, and health & physical ed. instruction.

**HSC 2000 Introduction to Health Professions (3) AS SPF**

This course will introduce students to the US healthcare system and provide an overview of the various careers available within that system.

**HSC 2017 Careers in Public Health (3) PH PHC**

Course provides students with an overview of public health occupations. After students complete self-assessments tools, the information is applied to personal interests and career goals. Guest speakers offer advice related to employment availability.

**HSC 2100 Contemporary Health Science CASB (3) PH PHC**

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 CASB (3) PH CFH**

This course explores the fundamental relationship between sexuality, decision making and health outcomes from a public health perspective. Students explore sexuality issues and learn tools that promote sexual health and healthy relationships.

**HSC 2400 First Aid (2) ED EDP**

Meets the American Red Cross certification requirements in standard and advanced first aid.

**HSC 2933 Selected Topics in Public Health (1-3) PH PHC**

Overview of major public health and health related issues of interest to undergraduates. Course explores a variety of health topics that are related to improving the health and health behaviors of

individuals, groups and communities. Specific topics may vary each semester. No prerequisites. Majors and non majors. May be repeated for up to 6 credits.

**HSC 3301 Health, Safety, Nutrition and Motor Skills for the Young Child (3) ED EDP**

Provide students with the knowledge to teach developmentally appropriate motor activities; to provide continuous health services; create and maintain a healthy learning environment; and sequence appropriate health instruction for Pre-K through 3rd grade students.

**HSC 3541 Human Structure and Function (3) PH CFH**

This course is designed to introduce the structural levels of the body beginning with chemicals and progressing through cells, tissues, organs and systems with emphasis on homeostasis, stress and feedback systems. Not restricted to majors.

**HSC 4134 Prevention of Mental Illness (3) PH PHC**

This course explores the contributions of prevention science and public health in impeding the development of mental disorders and the events that lead to mental disorders with the major developmental focus on childhood.

**HSC 4172 Women's Health: A Public Health Perspective (3) PH PHC**

From a public health perspective, this course will explore the multidimensional and multidisciplinary dimensions of women's health. The course will emphasize health promotion, disease prevention, and overall well-being.

**HSC 4211 Health, Behavior and Society (3) PH PHC**

This course focuses on an ecological perspective of the determinants of health including biology, individual behavior, social relationships, social stratification, institutions, neighborhoods and communities, environment, policies and globalization.

**HSC 4213 Environmental and Occupational Risk Analysis (3) PH EOH**

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) PH EOH**

This course provides a review of occupational health and safety. Regulatory guidance and compliance, and the underlying science that drives occupational safety regulations are covered. The roles of various health and safety professionals are explored.

**HSC 4504 Foundations of Public Health Immunology (3) PH PHC**

This course provides an overview of the principles of Immunology and an introduction to the applications of immunology and immunologic

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techniques used in the surveillance, prevention and control of diseases of public health importance.

## **HSC 4537 Medical Terminology (3) PH PHC**

This course provides a unique educational program to improve the student's medical vocabulary. The course includes medical and scientific content information, which students encounter in other health professional courses. Not restricted to any major.

## **HSC 4551 Survey of Human Diseases (3) PH PHC**

An overview of the nature, types, and mechanisms of diseases of the major body systems.

## **HSC 4573 Foundations of Food Safety (3) PH PHC**

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) PH PHC**

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) PH PHC**

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) PH PHC**

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 CPST 6AC (3) PH PHC**

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) PH PHC**

Content will be governed by student demand and instructor interest.

## **HSC 5036 Professional Foundations of Health Education (1) PH CFH**

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.

## **HUM 1020 Introduction to Humanities CAFA SGEH (3) AS HCS**

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 CAHU HHCP (3) AS HCS**

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 CAHU HHCP (3) AS HCS**

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 CAHU (3) AS HCS**

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) AS HCS**

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 CAGC (3) AS HCS**

This course examines the different ways Westerners have viewed, understood, and made sense of Asia since the 15th-century.

## **HUM 2466 Modern Latin America Cultures (3) AS HCS**

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 CAHU (3) AS HCS**

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 CAHU (3) AS HCS**



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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) AS HCS**

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 3231 The Renaissance (3) AS HCS**

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 3237 The Seventeenth Century (3) AS HCS**

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 3240 The Early Middle Ages: Early Christian Cultures (3) AS HCS**

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 3241 Central Medieval and Gothic Europe (3) AS HCS**

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) AS HCS**

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) AS HCS**

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) AS HCS**

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) AS HCS**

Material and intellectual culture of ancient Mesopotamia (Iraq) & Persia (Iran) from the fourth millennium BCE until the coming of Islam. Topics

include the Sumerian and the Assyrian in Mesopotamia; and the Achaemenid, Parthian, and Sasanian in Persia.

## **HUM 3457 Nineteenth Century American Arts and Letters (3) AS HCS**

This course explores American art, literature, and cultural life from the early republic through the Gilded Age. Works are studied in their historical context in order to understand how they transmitted important information about American identity.

## **HUM 3458 Twentieth-Century American Culture (3) AS HCS**

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) AS HCS**

PR: HUM 2210 or HUM 2230.

An overview of Pre-Columbian and Colonial Latin American Culture through 1700. Topics include literature, music, and art; ethnic diversity; political and religious tension; "high" versus "low" culture; and the clash of European and American cultures.

## **HUM 3804 Introduction to Cultural Studies (3) AS HCS**

PR: 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) AS HCS**

Courses offered under this number will always be interdisciplinary, treating more than one art media and relating them historically or in some other way. The interdisciplinary emphasis on literature and the arts, placing them in some larger context of culture or ideas, distinguished HUM courses from related courses offered in other departments of the university. Topics will vary; course may be repeated for credit with change of content.

## **HUM 4261 Cultural Periods and Styles (3) AS HCS**

Focuses on the relationships between a particular historical period and the cultural forms characteristic of it. An interdisciplinary examination of cultural texts as responding to social and political issues of the day. Topic varies. Repeatable to 6 cr.

## **HUM 4331 Humanities Pro-Seminar (3) AS HCS**

PR: HUM 3804 with a grade of B- or better  
A course emphasizing the analysis of primary works in relation to cultural contexts, the integration of secondary sources, and the

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construction of a written argument. Not restricted to majors. Offered only in fall semester.

## **HUM 4391 Places, Spaces, and Regions (3) AS HCS**

Focuses on relationships between geographical location and cultural dynamics. Emphases include the roles of natural environments, core-periphery relations, and local identities in the development of cultural practices. Topic varies. Repeatable to 6 cr.

## **HUM 4433 Ancient Greek Culture (3) AS HCS**

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) AS HCS**

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) AS HCS**

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) AS HCS**

Analysis of selected Latin American works of art in their cultural context, with emphasis on the period since the time of independence. The course will focus on a particular historical, geographical, or thematic topic within that period.

## **HUM 4581 Film and Media Theory (3) AS HCS**

PR: HUM 3583 or HUM 3584

This advanced introduction to film and media theory offers students sophisticated tools for thinking critically and creatively about motion pictures and the psychological, cultural, political, and historical meanings they engender.

## **HUM 4582 Film Auteurs (3) AS HCS**

Surveys the contributions to American culture of major films from the perspectives of genres and styles, critical methodologies and theories. Variable topics such as: region, subject, or period of time. Repeatable up to 9 credit hours with change of topic.

## **HUM 4824 Issues in Cultural Theory (3) AS HCS**

Focuses on a critical issue in cultural theory. Students will delve into an issue central to cultural study and develop their ability to apply cultural theory to the analysis of cultural forms. Topic varies. Repeatable up to 6 hours with change of topic.

## **HUM 4825 Identity and Power (3) AS HCS**

Focuses on the relationships between social power and individual or group identity. Emphasizes how discourses on race, class, gender, and/or nationality construct individual subjectivity and imagined communities. Topic varies. Repeatable to 6 credits.

## **HUM 4890 Genres and Media (3) AS HCS**

This course focuses on a particular aesthetic genre or media. Emphasis is on close readings of the media or genre in question, and on how media or generic paradigms shape ideas and identities.

## **HUM 4905 Directed Study (1-4) AS HCS**

Specialized individual study determined by the student's needs and interests

## **HUM 4930 Selected Topics in Humanities (1-3) AS HCS**

This course will deal with a recurrent theme in the arts as, for example, love or death, or will focus on artistic centers such as Renaissance Florence or Paris in the 1920s. Topics will vary.

## **HUM 4931 Seminar in Humanities CPST WRIN 6AC (3) AS HCS**

PR: HUM 3331

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 CPST (3) AS HCS**

The study of an important topical issue in the Humanities. Materials representing diverse views relating to that issue will be read, and works of art in different media that have relevance to the debate will be studied. Available to majors and non-majors.

## **HUM 4940 Internship in Humanities (1-3) AS HCS**

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) AS HCS**

The art of a culture will be examined during travel in groups, led by an instructor, to important cities or sites. Monuments, museums, architecture, plays, and/or concerts will be studied. Reading assignments and lectures. Not restricted.

## **HUN 2201 Nutrition (3) NR NUR**

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) PH CFH**

PR: HUN 2201

Exploration of the role of cultural diversity in formation of food habits with focus on changes in U.S. dietary patterns related to global cultural plurality. Course is not restricted to majors. The course is not repeatable.

## **HUN 3272 Sports Nutrition (3) PH CFH**

PR: HUN 2201

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This course explores nutrition in the enhancement of health and fitness. Discussion includes the nutrient requirements for attainment and maintenance of health, disease prevention and sports performance. The course is not restricted to majors and it is not repeatable for credit.

## **HUN 3296 Nutrition and Disease (3) PH CFH**

PR: HUN 2201

A nutrition course for those wishing to increase their nutrition knowledge in the areas of health care, diet and disease, and therapeutic nutrition. The course is not restricted to majors and is not repeatable for credit.

## **HUN 3403 Nutrition through the Life Cycle (3) PH CFH**

PR: HUN 2201

Nutritional needs and concerns throughout stages of the life cycle including pregnancy and lactation, infancy, adolescence, adulthood, and aging; socioeconomic, cultural and psychological influences on food and nutrition behavior.

## **HUN 3601 Nutrition Education & Counseling (3) PH CFH**

PR: HUN 2201

a nutrition course for those wishing to increase their nutrition knowledge in the areas of health care, diet and disease, and therapeutic nutrition. The course is not restricted to majors and is not repeatable for credit.

## **HUN 3932 Selected Topics in Nutrition (3) PH CFH**

The content of this course will be determined by student demand and instructor interest. Repeatable up to 3 times with different topics.

## **IDH 2009 Honors Discovery: People, Processes and Problems (3) HC HON**

An appreciation of the research process in multiple disciplines culminating in the production of a collaboratively developed research proposal.

## **IDH 2010 Acquisition of Knowledge CAHU HHCP (3) HC HON**

An appreciation of the problems of how human understanding proceeds through operations such as perception, classification, and inference, among others, as well as the open philosophical questions behind these operations.

## **IDH 2930 Selected Topics (0-3) HC HON**

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 3100 Arts/Humanities Honors CAHU HHCP (1-3) HC HON**

An introduction to western arts and letters from the perspectives of three periods (classicism, romanticism, and modernism), the relationship of ideas to art, the similarities among the arts of a given period, and important differences between periods. Repeatable for a maximum of six hours.

## **IDH 3350 Natural Sciences Honors CANP (3) HC HON**

An exploration of current knowledge concerning fundamental principles in the Sciences, their potential for application and attendant ethical and philosophical questions. Honors College students only. Repeatable up to 6 hours.

## **IDH 3400 Social and Behavioral Sciences Honors CASB (3) HC HON**

Introduction to the concerns of the Social and Behavioral Sciences, methods of inquiry, discovery, and validation of knowledge. A survey of the way various disciplines examine the question of how society is organized. Repeatable for up to 6 credits with change of topic.

## **IDH 3600 Seminar in Applied Ethics CASB (3) HC HON**

This course explores ethical issues related to selected topics such as Ethics of Technology, Ethics in Business, Bio-Medical Ethics, Personal Ethics Development.

## **IDH 4000 Honors Program Seminar: Major Works/Majors Issues (3) HC HON**

PR: IDH 2010.

This course explores major works and major issues in a variety of disciplines. Each section will be devoted to content in a different academic area.

## **IDH 4200 Geographical Perspectives Honors CAGC (3) HC HON**

PR: IDH 2010.

An introduction to African, Latin American, Middle Eastern, or Asian perspectives focusing on social, political and economic, artistic, cultural and intellectual subject matter. The material will be presented within a geographical, chronological, and humanities background. Repeatable for up to 6 credits with change of topic.

## **IDH 4910 Undergraduate Research (0-3) HC HON**

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) HC HON**

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) HC HON**

A program of independent research or study in areas of specific interest working under the supervision of a faculty mentor. Restricted to Honors College students.

## **IDH 4970 Honors Thesis (3) HC HON**

The development and public presentation of a senior thesis under the direction of a mentor. Course is taken for 2 semesters.

## **IDH 5956 Honors Project CPST (3) HC HON**

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- Advanced Honors Project. Repeatable up to 12 hours.
- IDH 5975 Honors Thesis WRIN 6AC (3) HC HON**  
Advanced Honors Thesis. Repeatable up to 12 hours.
- IDS 1505 Introduction to Research in Beh. & Com. Sciences (1) BC MHL**  
Overview of research problems in behavioral & community sciences, research ethics, and the 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) AS IAS**  
This course is an introduction to major concepts of biology, focusing on evolution as the unifying concept in the field. Non-majors only.
- IDS 2600 Applications of Research in Community Settings (1) BC MHL**  
Research in Community Settings introduces students to the principles of community-based participatory research and provides opportunities for students to observe and analyze the application of evidence-based practices in community settings.
- IDS 2664 Social Science Perspectives I (3) AS IAS**  
Provides an overview of the evolution and global expansion of Western Civilization. Examines global problems of economic growth and development; geopolitical relations among nations and states, food supply and hunger, and environmental change.
- IDS 2665 Social Science Perspectives II (3) AS IAS**  
Approaches the study of human behavior and society using the lens of various institutions. The course addresses issues of social stratification, economics, education, religion and social status. The course is not restricted to any major, has no lab section, and is not cross-listed.
- IDS 2666 Historical Perspectives I (3) AS IAS**  
Approaches the study of human history through a series of specific case-studies that focus on historical processes. The primary focus of the course is to understand the variety of ways that the past has been brought into and understood in the present, rather than a comprehensive survey of a limited time or place.
- IDS 2667 Historical Perspectives II (3) AS IAS**  
Approaches the study of human history through a series of specific exercises that focus on what historians do: produce histories. The primary focus of the course is to understand the variety of ways that the past can be emplotted in histories, rather than a comprehensive survey of a limited time or place. With this understanding, students will produce several of their own histories.
- IDS 2912 Undergraduate Research Experience (0-4) US DEA**  
Learning objectives determined by faculty and aligned with students career aspirations and/or academic program. May be repeated a maximum of four times. This course is open to all majors.
- IDS 2931 Selected Topics (1-3) AS IAS**  
Selected topics in liberal arts and sciences. A basic introduction to the substance and theory of contemporary topics in humanities, social science or natural science.
- IDS 3115 Values and Choices 6AC (3) ED EDF**  
An in-depth examination of values and their relationship to choices in contemporary society using historical perspective and inquiry of moral/ethical dilemmas. Available to majors or non-majors.
- IDS 3186 Scientific and Ethical Dimensions of Human Disease (3) AS IAS**  
An interdisciplinary perspective of the biological basis of human disease combined with critical thinking and medical ethics. Basic concepts of human disease are integrated with bioethical dimensions of patient choice, physician responsibility and current health care issues.
- IDS 3662 Arts Connections (3) FA FAI**  
This is an interdisciplinary course to the arts disciplines of music, dance, theatre, and art. Artists from the four disciplines will provide weekly presentations centered around issues and ideas that have formed the basis of their creative research. Influences of diversity, new technologies and community and public arts will be explored. This course will introduce students to the role the arts play in shaping their perceptions of the world as well as reflecting the underlying values and paradigms that form our culture(s).
- IDS 3668 Images of Contemporary Urban Culture 6AC (3) AS IAS**  
Offers multiple perspectives on the vision, theories, and practices of contemporary urban culture through the use of various literary genres. Examines the cultural realities of contemporary urban life, such as social stratification, discontinuity, anonymity and poverty; as well as its many potentials such as creative energy, diversity, and relational networks. Must have enough credit hours required for exit course admittance.
- IDS 3947 Cooperative Internship (0-6) US DEA**  
Learning objectives determined by faculty and aligned with experiences in the workplace setting related to student's career aspiration and/or academic program. May be repeated for a maximum of 6 credit hours. The internship course is open to all majors.
- IDS 3949 Cooperative Education, Parallel (0-2) US DEA**  
Part-time (10-25 hrs/wk) paid or for credit, career-related work experience. This course may be repeated up to 6 credit hours. Prerequisite: 45+ hours of credit, GPA 2.5+, a declared major and be accepted in Cooperative Education Program. S/U Only.
- IDS 4910 Community Research (1-4) AS CEL**

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- To provide students with a community related research experience.
- IDS 4914 Advanced Undergraduate Research Experience (0-4) US DEA**  
Learning objectives determined by faculty and aligned with students career aspirations and/or academic program. May be repeated a maximum of four times. This course is open to all majors.
- IDS 4930 Selected Topics (1-3) AS IAS**  
Course content determined by students' and instructor's interests and needs.
- IDS 4934 Senior Capstone for BSAS/BGS CPST WRIN 6AC (3) US DEA**  
This course affords students the opportunity to synthesize knowledge they have gained throughout their previous undergraduate coursework and identify how their integrated program of study provides real-world applicability and utility.
- IDS 4942 Community Internship (1-4) AS CEL**  
To provide students with a community internship experience.
- IDS 4949 Cooperative Education, Alternating (0-3) US DEA**  
Full-time (40 hrs/wk) paid or for credit, career-related work experience. This course may be repeated up to 6 credit hours. Prerequisite: 45+ hours of credit, GPA 2.5+, a declared major and be accepted in Cooperative Education Program.
- IDS 4955 International Community Research (1-4) AS CEL**  
To provide students with an international community research experience.
- IDS 4956 International Community Internship (1-4) AS CEL**  
To provide students with an international community internship experience. Repeatable up to 8 credits.
- IDS 5177 The Atelier, Its Management and History (3) FA ART**  
This class will consider the history of printmaking and other forms of collaborative art production through the prism of the atelier and its management.
- IDS 5178 Problems in Museum Studies (3) FA ART**  
This class is designed as both an academic and theoretical course to introduce students to the museum profession and develop critical thinking skills required to solve problems in the rapidly changing typography of museums. Students will develop managerial and administrative skills as they meet with and discuss the job descriptions of curators, educators, collection managers, marketing professionals, exhibit designers, registrars, and fundraisers.
- INP 2101 Applied Psychology (3) AS PSY**  
The application of psychological principles and the functions of psychologist in education, government, industry, and clinical practice.
- INP 4004 Industrial Psychology (3) AS PSY**  
PR: PSY 3213 with a grade of C or better
- Applications of psychological principles to industry. Topics include: selection, training, motivation, job satisfaction, supervision, decision-making.
- INR 1015 World Perspective (3) AS GIA**  
An interdisciplinary study of the international system, major world regions and problems.
- INR 2002 Introduction to International Relations (3) AS GIA**  
Concepts and analytical tools applied to events such as politics among nations, control of foreign policies, types of actors, war and peace.
- INR 3011 Globalization (3) AS GIA**  
Influence of globalization on political-economic and social systems around the world. International organizations involved with globalization processes are studied along with nations benefiting and suffering from the consequences of globalization.
- INR 3018 World Ideologies (3) AS GIA**  
A course which details and examines the ideologies of today's independent countries; analyzing them in their political, social, cultural and historical context.
- INR 3033 International Political Cultures (3) AS GIA**  
This course will explore ways in which culture influences the nature of government, economic success or failure, and constructive and destructive modes of self and social identification.
- INR 3038 International Wealth and Power (3) AS GIA**  
Introduction to the relationship between politics and economics, emphasizing the analysis of government policies in response to both domestic and international economic problems.
- INR 3081 International Issues and Actors (3) AS GIA**  
An examination of the most important issues in international affairs. The course analyzes the behavior of major foreign policy actors in the international arena, including nation states, non-governmental and international organizations.
- INR 3084 International Terrorism (3) AS GIA**  
A study of contemporary international terrorism and its causes, ranging from national liberation movements to networks of philosophical anarchists.
- INR 3102 American Foreign Policy (3) AS GIA**  
Analysis of the development and scope of United States foreign policy, emphasizing goals and objectives, policy formulation and implementation, themes and issues.
- INR 3141 Global Security Policy (3) AS GIA**  
A study of security issues, regional and global (such as proliferation, arms control, arms transfer) as they relate to contemporary international politics.
- INR 3202 International Human Rights (3) AS GIA**  
This courses explores the evolution of international rights from the Greeks to the present.

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It examines human rights issues in major regions of the world.

**INR 3336 Intelligence and U.S. Foreign Policy (3) AS GIA**

An examination of the role of intelligence and the intelligence community in U.S. foreign policy, with emphasis on the period since World War II.

**INR 3955 Overseas Study (1-6) AS GIA**

A program of individual or group research in a foreign country.

**INR 4035 International Political Economy (3) AS GIA**

Analysis of the development and politics of the international economic system, focusing on questions of cooperation and conflict in trade, aid, and investment relationships.

**INR 4083 Conflict In The World (3) AS GIA**

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.

**INR 4254 Africa in World Affairs (3) AS GIA**

An examination of Africa's place and role in world affairs, including an analysis of the impact of external forces, international relations in post-colonial Africa, the relations of African states with the major world powers, the U.N. and its agencies.

**INR 4403 International Law (3) AS GIA**

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.

**INR 4502 International Organizations (3) AS GIA**

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.

**INR 4900 Directed Readings (1-3) AS GIA**

A supervised program of intensive reading of interdisciplinary materials in areas of specific interest.

**INR 4910 Directed Research (1-3) AS GIA**

A supervised program of interdisciplinary research in areas of specific interest.

**INR 4931 Selected Topics (1-3) AS GIA**

Interdisciplinary studies with course content dependent on student demand and instructor's interest.

**INR 4936 Senior Seminar (3) AS GIA**

A variable topics seminar integrating concepts and analyses relating to the academic background of INT majors. Should be taken in the student's final semester.

**INR 4943 Internship in International Studies (3-6) AS GIA**

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) AS GIA**

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) AS GIA**

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) BC CSD**

PR: ASL 4201C.

This is a course of intralingual language exercises that introduces students to and provides practice in techniques of rephrasing and restructuring meaning in ASL and English. Students translate texts between English, ASL and English based sign language.

**INT 3110 Language and Cognitive Processing Skills in English (3) BC CSD**

PR: ASL 4201C

CR: INT 3111.

Students develop the cognitive processing and language skills within English that are preliminary steps for interpretation. It will develop student's ability to segment information to perform various cognitive tasks intralingually. For Majors only.

**INT 3111 Language and Cognitive Skills in ASL (3) BC CSD**

PR: ASL 4201C

CR: INT 3110

Students acquire cognitive processing and language development within ASL that are preliminary steps for performing simultaneous interpretation. This course also includes a service component by volunteering in various deaf communities. For majors only.

**INT 3112 Translation from English and from ASL (3) BC CSD**

PR: INT 3110, INT 3111.

This is a course of intralingual language exercises that introduces students to and provides practice in techniques of rephrasing and restructuring meaning in ASL and English. Students translate texts between English, ASL and English based sign language.

**INT 3205 Interpreting I (3) BC CSD**

PR: INT 3112, ASL 3324.

This course reinforces ASL and English skill development and the expressive and receptive skills of beginning interpreting through drill, practice and role play activities and focuses on translation and consecutive interpretation.

**INT 3270 Interpreting Process and Skill Development (3) BC CSD**

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Process-oriented approach for applying essential cognitive strategies to interpretation. Strategies include organizing and manipulating visual and spoken images, analyzing messages for meaning, and self-monitoring for message accuracy.

## **INT 3403 Issues in Educational Interpreting (3) BC CSD**

This course explores the role of the interpreter in the educational setting. Issues related to institutional policies, potential role conflicts, interpreter/faculty collaboration, and support service provision will be emphasized.

## **INT 3481 Specialized Terminology (3) BC CSD**

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) BC CSD**

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) BC CSD**

PR: INT 4250.

Students expand upon previously learned topics and discuss factors that will affect their profession. Topics include: professional organization, certification, ethics and discuss best practices and will produce a professional portfolio. For majors only.

## **INT 4206 Interpreting II (3) BC CSD**

PR: INT 3205.

This course provides advanced, in-depth discussion and application of techniques and principles as well as expanded concentration on intermediate expressive and receptive manual communication skills.

## **INT 4208 Interpreting III (3) BC CSD**

PR: INT 4206.

This course develops advanced competency in interpretation in complex settings. Hands-on practice using advanced interpreting skills, techniques and in-depth exploration of advanced ASL features such as non-manual markers, classifiers, and fingerspelling.

## **INT 4211 Transliterating (3) BC CSD**

PR: INT 4206.

Introduction to the transliteration process and development of expressive transliterating skills through presentation and class participation. Topics include types of consumers who use transliterating and issues that influence the transliteration process.

## **INT 4235 Advanced Receptive Voicing (3) BC CSD**

PR: INT 4206.

Advanced level students will strengthen interpreting skills from a signed message to a voiced English translation. Strategies and techniques include working from ASL to English interpretation, with a focus on fingerspelling and numbering.

## **INT 4250 Simultaneous Interpretation Monologic (3) BC CSD**

PR: INT 3004, INT 3112.

Students simultaneously interpret monologic talk from ASL and from English with target language beginning before the conclusion of the source utterance and continuing as the student listens to the continuing source utterance. For majors only.

## **INT 4251 Simultaneous Interpretation Dialogic (3) BC CSD**

PR: INT 4250.

Students interpret dialogues from ASL to English and from English to ASL with the target language production beginning before the conclusion of the source utterance and continuing as the student listens to the continuing source utterance. For majors only.

## **INT 4260 ASL to English Consecutive Interpretation (2) BC CSD**

PR: INT 3004, INT 3112

CR: INT 4261

Students consecutively interpret conversational discourse of planned and unplanned conversational language samples from ASL to English with delays of a few seconds after the source utterance is finished. For majors only.

## **INT 4261 English to ASL Consecutive Interpretation (2) BC CSD**

PR: INT 3004, INT 3112

CR: INT 4260.

Students consecutively interpret conversational discourse from English to ASL with delays from conversational language samples of various lengths ranging from single utterances to discourse units of several minutes duration. For majors only.

## **INT 4456 Interpreting: Specialized Settings and Populations (3) BC CSD**

Examines settings in which interpreters work (social service and rehabilitation, employment, religious, performing arts, legal, etc.) and the challenges of specific deaf and hard-of-hearing consumers and those with minimal language skills (MLS).

## **INT 4460 Video Interpreting (3) BC CSD**

Video Remote Interpreting (VRI) and Video Relay Service (VRS) are new settings for sign language interpreters. This course will explore differences between VRI and VRS, ethical considerations related to video interpreting, and required specialized skills.

## **INT 4490 Introduction to Cued Speech and its Applications (3) BC CSD**

This course covers the fundamentals of the Cued Speech system, including an overview of how it is

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typically used with children who are deaf. Common applications of cueing and other communication options and relevant research are discussed.

## **INT 4944 Practicum: Interpreting in the Schools (1-8) BC CSD**

This course provides practice sessions in school settings under supervision of an experienced interpreter and course instructor. Each practicum student will shadow an interpreter, and participate in discussion about the overall performance.

## **INT 4947 Interpreting Practicum II (3) BC CSD**

PR: INT 4206

This course provides practice sessions in school settings under supervision of an experienced interpreter and course instructor. Each practicum student will shadow an interpreter, and participate in discussion about the overall performance.

## **ISC 1004 Integrated Natural Sciences I: Science that Matters (3) AS IDS**

Discussion of integrative concepts in biology, chemistry, geology, and physics based on major knowledge strands of the Florida and Natural Science Education Standards. This course deals with current topics relevant to students, is inquiry based, and emphasizes development of higher order (critical thinking) skills through active learning strategies.

## **ISC 1005 Integrated Natural Sciences II: Science that Matters (3) AS IDS**

Discussion of integrative concepts in biology, chemistry, geology, and physics based on major knowledge strands of the Florida and Natural Science Education Standards. This course deals with current topics relevant to students, is inquiry based, and emphasizes development of higher order (critical thinking) skills through active learning strategies.

## **ISC 3403C Physical Science Fundamentals for Teachers (4) AS CHM**

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.

## **ISM 3011 Information Systems in Organizations (3) BA QMB**

PR: CGS 2100 or equivalent.

An introduction to the language, concepts, structures and processes involved in the management of information systems including fundamentals of computer-based technology and the use of business-based software for support of managerial decisions.

## **ISM 3113 Systems Analysis and Design (3) BA QMB**

PR: ISM 3011 with a grade of "C" or better (not C-).

The course presents concepts, procedures, and tools needed to build computer-based information systems. The objective is to develop project

management, data collection, analysis, design, testing and documentation skills.

## **ISM 3232 Business Application Development (3) BA QMB**

CPR: ISM 3011 with a grade of "C" or better (not C-).

Presentation of business application development using an object-oriented programming language. Good program design techniques are emphasized. Business applications are developed.

## **ISM 3431 Operations and Supply Chain Processes (3) BA QMB**

PR: QMB 2100, ACG 2071, both with a grade of C or better (not C-)

This course will provide a contemporary overview of operations management with special emphasis on supply chains and services. Both concepts for successful managers and common tools used to build, manage, and improve systems will be covered.

## **ISM 4141 Web Application Development/Java (3) BA QMB**

PR: ISM 3232 with a grade of "B" or better.

Java will be used to introduce object oriented concepts. Programming assignments cover a variety of application features including graphical user interface, database connectivity, multithreading, & client-server computing using Java and Java Server Pages.

## **ISM 4153 Information Systems in Organizations (3) BA QMB**

PR: ISM 4212 with a grade of "C" or better (not C-).

An introduction to the use, configuration and implementation of enterprise resource planning systems, and their application to key business processes. This course is restricted to business majors only.

## **ISM 4212 Database Design and Administration (3) BA QMB**

PR: ISM 3113 with a grade of "C" or better (not C-).

An introduction to the concepts and principles of database management. Provides potential designers, users and managers of database systems with an understanding of physical vs. logical representations, data modeling, implementation, and data management.

## **ISM 4213 Advanced Database Administration (3) BA QMB**

PR: ISM 3113, ISM 4212, with grades of "C" or better (not C-).

Essential concepts of database administration in a business environment are covered in order to prepare students to understand and deal with database administration issues and concepts. Students gain hands-on experience by administering a database environment and completing assignments that involve resource



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- management, data administration, security, backup, recovery and database tuning issues.
- ISM 4220 Business Data Communications (3) BA QMB**  
PR: ISM 3011 with a grade of "C" or better (not C-).  
Fundamentals of data communication, including network architectures, communication protocols, transmission standards, and internetworking. Basic concepts in distributed computing will also be covered.
- ISM 4233 Information System Interface Design (3) BA QMB**  
PR: ISM 3232 with a grade of "C" or better (not C-).  
An introduction to theories of human-computer interaction and the principles and practices of information system interface design, evaluation, and integration. Students develop programs utilizing various user interface design techniques.
- ISM 4234 Object-Oriented Design and Development (3) BA QMB**  
PR: ISM 3232 with a grade of "B" or better.  
This course presents an object-oriented approach to software development of business information systems. Students will learn to create object models of the business world and to develop information system designs based on these objects.
- ISM 4252 Mainframe Technologies (3) BA QMB**  
PR: ISM 3132 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) BA QMB**  
PR: ISM 4212 and ISM 4220, with grades of "C" or better (not C-).  
Current issues in information systems management focusing on managing computer resources and social issues such as ethics, privacy, and legal issues including intellectual property.
- ISM 4314 Project Management (3) BA QMB**  
PR: ISM 3113  
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) BA QMB**  
Senior standing, all majors. Introduction to information security and IT risk management in organizations. Covers essential IT general controls and frameworks to assess IT risk in a business environment.
- ISM 4382 Global Information Systems (3) BA QMB**  
PR: ISM 3011 with a grade of "C" or better (not C-).  
Role of information technology in global business organizations and challenges in building information systems to enable global operations.
- ISM 4400 Decision Support Systems (3) BA QMB**  
PR: QMB 3200, ISM 3011, with a grade of "C" or better (not C-).  
Study of quantitative analysis tools and their use in organizational decision making. Emphasis on a structured approach to making common business decisions, demonstrating several forms of mathematical modeling and other management science techniques.
- ISM 4402 Business Intelligence (3) BA QMB**  
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) BA QMB**  
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.
- ISM 4480 Electronic Commerce Systems (3) BA QMB**  
PR: ISM 3011 with a grade of "C" or better (not C-)  
Familiarize students with the opportunities and challenges associated with e-commerce and its business models, to explore the underlying technologies used in implementing e-commerce systems, and to develop the skills needed to manage effective Web sites.
- ISM 4905 Independent Study (1-6) BA QMB**  
Independent study as directed by designated faculty.
- ISM 4930 Selected Topics in MIS (1-3) BA QMB**  
Selected topics in MIS.
- ISM 4940 ISM Internship (3) BA QMB**  
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.
- ISM 4950 Independent Research (1-6) BA QMB**  
Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor.
- ISM 4970 Information Systems Honors Thesis (3) BA QMB**  
This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to

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develop explanations or solutions to academically interesting business problems or opportunities.

## **ISS 1101 Knowledge and Society (3) AS ISS**

Course introduces students to issues concerning the relationship between knowledge and society. Among the issues addressed are competing accounts of knowledge and the relationship between knowledge and other forms of human experience and different aspects of social life such as religion, morality, aesthetics, politics, and gender.

## **ISS 1102 Self and Society (3) AS ISS**

This course considers the history of the intellectual and social underpinnings of individualism. Why do we consider ourselves "selves," independent of social forces which we so readily recognize in others?

## **ISS 1103 Nature and Culture (3) AS ISS**

This course examines competing ideas and theories concerning the relationship between nature and culture. Among the issues and questions examined are the relationship between nature and our awareness of it; to what extent is nature transformable; should "nature" dictate the shape of social institutions; how does technology affect our society and environment.

## **ISS 3010 Introduction to the Social Sciences (3) AS ISS**

Integrates the range of social science fields into a global interdisciplinary perspective. Views social institutions and issues from perspectives of changing paradigms.

## **ISS 3930 Selected Topics in the Social Sciences (1-3) AS ISS**

Interdisciplinary studies of varying topics, with course content dependent on student demand and instructor's interest.

## **ISS 4151 Native American Women (3) AS ISS**

An interdisciplinary examination of lives of Native American Women, past and present. Topics include history, education, politics, family, etc.

## **ISS 4900 Directed Readings (1-3) AS ISS**

A supervised program of intensive reading of interdisciplinary materials in areas of specific interest.

## **ISS 4910 Directed Research (1-3) AS ISS**

A supervised program of interdisciplinary research in areas of specific interest.

## **ISS 4935 Seminar in the Social Sciences (3) AS ISS**

PR: ISS 3010

The seminar which caps the interdisciplinary major. Weds personal curiosity with the application of theoretical models to research on salient social issues.

## **ISS 5934 Selected Topics (1-3) AS AFA**

Interdisciplinary studies with course content dependent on student demand and instructor's interest.

## **ITA 1120 Beginning Italian I (4) AS WLE**

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) AS WLE**

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) AS WLE**

PR: ITA 1121 or equivalent.

Readings in Italian on the elementary level. A review of the basic structure of spoken and written Italian.

## **ITA 2201 Italian IV (3) AS WLE**

PR: ITA 2200.

This course marks the fourth level in the acquisition of Italian language. It continues to encourage students to speak, listen, read and write in the target language through frequent communicative activities.

## **ITA 2240 Italian Conversation (3) AS WLE**

PR: ITA 2200

This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

## **ITA 2241 Italian Conversation II (3) AS WLE**

PR: ITA 2241

This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

## **ITA 3234 Reading and Writing in Italian (3) AS WLE**

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) AS WLE**

A fundamental composition course for students who have completed ITA 2200.

## **ITA 3470 Overseas Study (1-6) AS WLE**

An intensive study-travel project in Italy.

## **ITA 4930 Special Topics (1-3) AS WLE**

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) AS WLE**

An overview of Italian culture from the Unification to the present. It aims at tracing the ways in which the concept of Italian culture has been defined according to different social, historical, and political perspectives. Taught in English

## **ITT 4505 Italy & the Italian-American Experience (3) AS WLE**

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- The focus of this course is on the representation of Southern Italy in a selection of novels, films, memoir writing, and music and on the history of the Italian diaspora – mainly made of Southerners migrated to the United States.
- ITT 4531 Italian Food in Film (3) AS WLE**  
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) AS WLE**  
The course aims at providing an introduction to the study of Italian Medieval and Renaissance literature and civilization. The course may be taught as a survey course or it may focus on any author, period, genre, or cultural theme.
- ITW 4101 Survey of Italian Literature II (3) AS WLE**  
The course aims at providing an introduction to the study of Italian Modern and Contemporary literature and civilization. The course may be taught as a survey course or it may focus on any author, period, genre, or cultural theme.
- ITW 4905 Directed Study (1-3) AS WLE**  
Selected topics in Italian literature.
- JOU 2100 Beginning Reporting (3) AS COM**  
PR: MMC 2100 and MMC 3602.  
Basic instruction in news judgment, sources of news, newsgathering, and newswriting techniques for various media. Typing ability is required.
- JOU 3101 Advanced Reporting (3) AS COM**  
PR: JOU 2100 or RTV 3301 (RTV majors only), PHI 1103 and POS 2041.  
CPR: JOU 4201  
Reporting and writing the more complex and specialized story. Techniques of investigative and analytical reporting, including ethical and legal considerations.
- JOU 3306 Critical Writing: Editorials, Reviews, Columns (3) AS COM**  
PR: JOU 3101 and JOU 4201.  
Interpretive and opinion writing for the mass media. Analysis and discussion of current events as a basis for critical thinking and editorial writing. Evaluation of editorial pages of leading newspapers. Study of journalistic techniques involved in writing reviews and personal columns.
- JOU 3308 Magazine Article and Feature Writing (3) AS COM**  
PR: CRW 2100 and JOU 2100.  
Planning, researching, writing, and marketing articles for general and special interest magazines and newspaper supplements. Experiences in developing article ideas and analysis of magazine articles.
- JOU 3940 Reporting Practicum (1) AS COM**  
PR: JOU 3101  
Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.
- JOU 4181 Public Affairs Reporting (3) AS COM**  
PR: JOU 3101 or RTV 3301 (RTV majors only), POS 2041 and POS 2112 or POS 3142.  
Covering city council meetings, courthouse, city hall, courts, society, and other special assignments. Emphasis is on coverage of major governmental units of all levels of government, including examination and interpretation of public documents and records.
- JOU 4201 News Editing I (3) AS COM**  
PR: ECO 1000, JOU 2100, and SYG 2010.  
Evaluating news and its display. Editing and rewriting copy for the mass media including new media, with emphasis on the daily newspaper. News judgment, headlines and makeup. Ethical problems. Introduction to theories of design and graphics.
- JOU 4206 Newspaper and News Publication Design (3) AS COM**  
PR: JOU 4201  
Theoretical and practical applications of newspaper and news publication design, including typography, graphics, graphics software and electronic picture editing. Exercises in design for newspapers and news publications in both print and electronic formats.
- JOU 4212 Magazine Design and Production (3) AS COM**  
PR: JOU 4201.  
Theoretical and practical application of design principles for magazines. Design software. Study of visual design, page architecture, typography, color and illustrations. Integration of design elements in the design of magazine covers. Design elements specific to magazine and production preparation.
- JOU 4941 Editing Practicum (1) AS COM**  
PR: JOU 4201  
Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.
- JOU 4944 Magazine Practicum (1) AS COM**  
Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.
- JOU 5105 Newswriting and Editing (3) AS COM**  
Introduction to the basics of gathering, writing, and editing the news, with an emphasis on practical assignments done under professional conditions and standards. Discussions, readings emphasize the larger context and implications of news.
- JOU 5116 Explorations In Newswriting (3) AS COM**  
Listed in catalog as jou 5305. Students work to develop writing styles, reporting on and creating stories about significant issues, events, and ideas. The course explores the notion that narrative style

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journalism can be accurate, thorough, fair, and compelling, effectively bringing readers into stories and giving them a bigger stake in the news. The focus is ongoing beyond traditional practices of reporting and writing news stories.

## **JOU 5305 Explorations in Newswriting (3) AS COM**

Students work to develop writing styles, reporting on and creating stories about significant issues, events, and ideas. The course explores the notion that narrative-style journalism can be accurate, thorough, fair, and compelling, effectively bringing readers into stories and giving them a bigger stake in the news. The focus is on-going beyond traditional practices of reporting and writing news stories.

## **JOU 5344 Multimedia Journalism (3) AS COM**

The course is designed to bring components of print, web and broadcast writing together to develop skills for and understanding of the multimedia environment. It is restricted to majors and not repeatable for credit.

## **JPN 1120 Modern Japanese I (4) AS WLE**

An intensive study of basic skills: pronunciation, listening comprehension, speaking, and some composition.

## **JPN 1121 Modern Japanese II (4) AS WLE**

PR: JPN 1120 or equivalent.

A continuation of JPN 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

## **JPN 2220 Modern Japanese III (4) AS WLE**

PR: JPN 1121 or equivalent.

Continuing study to attain basic proficiency in Japanese.

## **JPN 2221 Modern Japanese IV (4) AS WLE**

PR: JPN 2220 or equivalent.

Continuation of JPN 2200.

## **JPN 4905 Directed Study (1-5) AS WLE**

Permits study options in Japanese not available in regularly scheduled curriculum at departmental discretion.

## **JPN 4930 Selected Topics (1-3) AS WLE**

Course permits study options in Japanese not available in the regularly scheduled curriculum at departmental discretion.

## **LAE 4311 Teaching Print and Multimodal Texts in Elementary Education (3) ED EDR**

PR: LAE 4424.

The purpose of this course is to understand children's writing processes and effective instructional strategies for supporting composition.

## **LAE 4314 Teaching Writing in the Elementary School, Grades K-6 (3) ED EDR**

The purpose of this course is for students to understand children's writing development and to design and implement instructional strategies for teaching composition in an integrated Language Arts curriculum.

## **LAE 4323 Methods of Teaching English: Middle School (3) ED EDI**

Whole language methods of integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature-based program for middle school students.

## **LAE 4332 Traditional English Grammar for Teachers (3) ED EDR**

Prepares teachers to teach secondary English with an interactive approach to grammar instruction in which students learn, not only the basic elements of English grammar, but also pertinent and engaging classroom activities for teaching grammar.

## **LAE 4335 Methods of Teaching English: High School (3) ED EDI**

CR: LAE 4464.

Whole language methods of integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature-based program for high school students.

## **LAE 4414 Teaching Literature in the Elementary School, Grades K-6 WRIN 6AC (3) ED EDR**

This course involves the selection, evaluation, and use of fiction, nonfiction, and poetry for instructional, informational, and recreational purposes in childhood education.

## **LAE 4424 Teaching Children's Literature (3) ED EDR**

Building on an appreciation for children's literature, this class is for undergraduate teacher candidates to learn how to select quality literature for children and to demonstrate instructional strategies for developing children's engagement.

## **LAE 4464 Adolescent Literature for Middle and Secondary Students 6AC (3) ED EDI**

A study of the types of literature read by adolescents with an emphasis upon the criteria for the choice of good books and knowledge of available books and teaching materials.

## **LAE 4469 Teaching World Literature to Middle and Secondary Students (3) ED EDI**

World literature encompasses more than Western European literature. This course is designed to emphasize, but is not limited to, the study of Eastern literature. This course fulfills the world literature course requirement for teacher certification in English.

## **LAE 4530 Methods of Teaching English: Practicum (3) ED EDI**

This course provides students an opportunity to demonstrate their ability to plan, deliver instruction, and reflect upon the effectiveness of their teaching in secondary school English/Language Arts classrooms. Course is restricted to majors.

## **LAE 4936 Senior Seminar in English Education CPST (3) ED EDI**

Synthesis of teacher candidate's courses in complete college program.

## **LAE 4940 Internship: English Education (1-12) ED EDI**

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One full semester of internship in a public or private school. Intern takes Senior Seminar in English Education concurrently. In special programs where the intern experience is distributed over two or more semesters, student will be registered for credit which accumulates from 9 to 12 semester hours.

**LAE 5462 Young Adult and World Literature for New Teachers (3) ED EDI**

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) ED EDI**

Identifies characteristics of classroom communication environment; offers insights, info, instructional strategies designed to help you become effective classroom communication managers. Emphasis on role of media & non-print texts in students' lives.

**LAE 5932 Selected Topics in the Teaching of English (3) ED EDI**

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 CAGC HHCP (3) AS HTY**

This course introduces the principle historical events, trends, conflicts and outcomes that have shaped the Spanish and Portuguese Americas from the Pre-Columbian period (prior to 1492) to the present.

**LAH 2733 Latin American History in Film (3) AS HTY**

Through the use of films and readings, the course introduces the broad sweep of Latin American history from the pre-Columbian period to today. Emphasis is placed on the social-cultural context to understand the peoples and events that have shaped Latin America.

**LAH 3130 Colonial Latin America (3) AS HTY**

A study of the Spanish and Portuguese Colonial empires in the New World from 1492-1830.

**LAH 3200 Modern Latin America (3) AS HTY**

A study of the emergence of the Latin American states. The course will examine developments in Latin America during the nineteenth and twentieth centuries. Special attention is given to the Third World character of the region.

**LAH 3430 History of Mexico (3) AS HTY**

Mexican history from pre-Columbian cultures to the twentieth century. Emphasis falls on the colonial political economy, social development, the wars of independence, development of the 19th century Mexican state and the Mexican revolution.

**LAH 3470 History of the Caribbean (3) AS HTY**

A thematic study of the circum-Caribbean from pre-Columbian cultures to the twentieth century, emphasizing the development of the Caribbean political economy with emphasis on monoculture, plantation society, and colonial/neo-colonial relationships.

**LAH 3480 History of Cuba (3) AS HTY**

Cuban history from pre-Columbian cultures to the Cuban Revolution. Emphasis on colonization, the sugar economy, the struggles for independence, the political economy of the Republic, and the 20th century revolutionary process.

**LAH 3630 Modern Brazil (3) AS HTY**

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.

**LAH 3743 Spanish America in the Age of Revolution (3) AS HTY**

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) AS GIA**

Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic, anthropological, and sociological analysis in dealing with salient features and current problems.

**LAS 3116 Latin America Through Film (3) AS GIA**

This course will use film, video, selected readings, and lectures to teach the interested student about Latin America.

**LAS 4023 African Diaspora in Latin American and the Caribbean CAGC HHCP (3) AS AFA**

The class examines the development and history of the African Diaspora in Latin America and the Caribbean from colonization through the modern era. While primarily a history course, anthropological and sociological perspectives are also incorporated.

**LAS 4934 Selected Topics: Latin American Studies (1-3) AS GIA**

Latin America region will be analyzed through different specific topics to provide students analytical tools to understand hemispheric relations and the relevance of this complex region for the USA. Open to non-majors, repeatable up to 09 credits.

**LAS 4940 Internship in Latin American and the Caribbean (1-9) AS GIA**

Designed to complement other instruction focused on Latin America and the Caribbean. Open to all majors and is repeatable up to 9 hours.

**LAT 1120 Beginning Latin I (4) AS WLE**

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An introductory course in Latin grammar with appropriate readings.

**LAT 1121 Beginning Latin II (4) AS WLE**

PR: LAT 1120 or equivalent.

An introductory course in Latin grammar with appropriate readings.

**LAT 2220 Intermediate Latin (4) AS WLE**

PR: LAT 1121 or equivalent.

Readings in Latin at an intermediate level.

**LAT 2221 Intermediate Latin II (4) AS WLE**

PR: LAT 2220.

This class will introduce students to their first Latin author, and to the techniques and skills of intermediate work in Latin. It will also provide a comprehensive review of Latin Grammar. It is not restricted to majors, and not repeatable for credit.

**LDR 2010 Leadership Fundamentals (3) US LDR**

Covers a broad range of leadership topics from self-development and understanding of self, to group behavior, organizational design, ethics and teamwork. The potential of every individual to develop effective leadership skills is examined.

**LDR 3115 Contemporary Issues In Leadership (3) US LDR**

This course offers students interested in the dynamics of contemporary leadership the opportunity to explore relevant leadership trends and examine contemporary leadership theories.

**LDR 3214 Leadership in the Fraternal Movement (3) US LDR**

Leadership course designed for Greek Life board members, chairpersons of chapters, governing councils and auxiliary organizations. Study of group processes and applications for building and leading organizations from corporate and non-profit perspectives.

**LDR 3216 Leadership and Social Change (3) US LDR**

This course explores the role of leadership in movements of social change. Grand feats to small initiatives and even failed attempts will be analyzed in order to consider the common practices of those who seek to improve society.

**LDR 3263 Community Leadership Practicum (3) US LDR**

PR: LDR 2010 or LDR 3331, with a minimum grade of C-.

This course involves the transference of leadership theories into practice. It provides a practical forum for students to examine and develop personal leadership skills.

**LDR 3280 Leadership in the Political Context (3) US LDR**

This course offers students the dynamics of political leadership, exploring relevant leadership trends and examines leadership theory using articles, film/documentaries, short fiction, experiential activities, and role playing as the learning medium.

**LDR 3301 Strategic Leadership in the Public Sector (3) AS SPF**

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.

**LDR 3331 Leading in the Workplace (3) US LDR**

Explores the complex challenges of leadership through the examination of leaders and workforce situations. Designed to view leadership as a process focusing on the leader, the followers, and real-world workplace situations. Appropriate for working adults.

**LDR 3930 Selected Topics in Leadership (0-3) US LDR**

Course content will depend upon the interest of the faculty member and student demand. Repeatable up to 15 credits.

**LDR 4104 Theories of Leadership (3) US LDR**

PR: LDR 2010 or LDR 3331, with a minimum grade of C-.

Focuses on historical and modern views of leadership. It is designed to assist students analyzing and understanding the historical, social, political aspects of leadership theories and styles as well as the application of leadership theories in settings.

**LDR 4114 Survey of Leadership Readings (3) US LDR**

Survey of historical and contemporary writings on leadership skills and practices. Examines the contextual manner in which the leader functions.

**LDR 4164 Organizational Theories and Processes (3) US LDR**

PR: LDR 2010 or LDR 3331, with a minimum grade of C-.

Participants will delve into the nature of organizational dynamics, they will utilize concepts, generalizations, theories, and frames of reference to analyze organizations and leadership to understand and improve their function.

**LDR 4204 Ethics and Power in Leadership (3) US LDR**

Course reviews arguments for ethics in leadership as proposed by both contemporary and ancient leadership theories. It also examines theories of power and authority, and seeks answers to the apparent dilemmas through applied moral theory and psychology.

**LDR 4230 Global Leadership (3) US LDR**

A focus on historical and contemporary issues concerning the role, responsibilities and processes for leaders in the global environment. Addresses leadership concerns relating to social, cultural, ethical, political, economical, and environmental issues.

**LDR 4564 Images of Leadership in the Media (3) US LDR**

This course examines the historical development of leadership theory through contemporary times. Surveys literature and other media relevant to role

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- of the leader and to the development and application of leadership skills.
- LDR 4951 Leadership Capstone Seminar (3) US LDR**  
PR: LDR 4104  
This is the culminating course/experience for the Leadership minor assisting students in the integration of their study of leadership. Students will analyze and synthesize the concept of leadership using cultural, ethical, sociological, political, economic and historical perspectives addressed in prior Leadership courses.
- LIN 2002 Language, Culture & Film CAHU (3) AS WLE**  
Offers initial exposure to foreign languages and cultures. Through lecture, demonstration, discussion, and the viewing of full-length feature films, students are introduced to a variety of prominent modern and ancient languages and cultures.
- LIN 2670 English Grammar and Usage (3) AS ENG**  
A course in the basics of traditional English grammar designed as a complement to our composition and creative writing courses, as a review for those students who will take preprofessional exams, and as a basic course for students interested in improving their knowledge of English. Will not count toward the English major.
- LIN 3003 Language Matters (3) AS WLE**  
This course aims to encompass issues regarding language, culture, and myths, including the facts about language learning, cultural dynamics in relation to the use of language, and current cross-cultural issues in the aspect of language as a medium.
- LIN 3010 Introduction to Linguistics (3) AS WLE**  
Introduction to the basic principles of linguistic science; phonological and grammatical analysis and description; language change and genetic relationships.
- LIN 3801 Language and Meaning 6AC (3) AS WLE**  
A survey introduction for non-specialists to the basic principles of semantics and the way language conveys ideas. This course is also available on WUSF/TV Channel 16 by the O.U. Program.
- LIN 4350 Sound Systems in American English (3) AS WLE**  
A comprehensive overview of the phonology and phonetics of the English language with a focus on both research and pedagogy. Theoretical and practical introduction to pronunciation teaching.
- LIN 4671 Traditional English Grammar (3) AS ENG**  
A course primarily using the sentence diagram to present a detailed analysis of the parts of speech, verb tenses, sentence functions, and other basic grammatical classifications of traditional English grammar.
- LIN 4680 Structure of American English (3) AS ENG**  
An introductory survey of traditional, structural, and generative transformational grammars and their techniques for the analysis and description of linguistic structure in general, and contemporary American English, in particular.
- LIN 4701 Psycholinguistics (3) AS WLE**  
General introduction to the theory and methodology of psycholinguistics at the undergraduate level.
- LIN 4721 Second Language Acquisition (3) AS WLE**  
General introduction to second language acquisition theories at the undergraduate level including characteristics of learner language.
- LIN 4903 Directed Reading (1-3) AS WLE**  
Readings in special topics.
- LIN 4930 Selected Topics (1-3) AS WLE**  
Course content depends upon students' needs and instructor's interest and may range over the entire field of linguistics.
- LIN 5700 Applied Linguistics (3) AS WLE**  
Analysis of the phonological, morphological, and syntactic features of English as a basis for linguistic application to problems of English language acquisition by non-native speakers.
- LIS 2005 Library and Internet Research Skills CASB (3) AS LIS**  
This course covers the development of undergraduate research and critical thinking skills to identify, evaluate, and use appropriate information sources to address educational, research, and other information needs.
- LIS 2937 Selected Topics in Library/Information Science (1-3) AS LIS**  
Covers a variety of topics in the field of library/information science such as emerging technologies, administration and service, and current professional issues.
- LIS 3261 Introduction to Information Science (3) AS LIS**  
Foundations of the discipline, history, core theories and methodologies, and approaches to information science, with an emphasis on the critical role of information technology. Majors only or permission of instructor.
- LIS 3352 Interaction Design (3) AS LIS**  
PR: LIS 3353.  
Covers the process of interaction design with an emphasis on a user-centered approach. Major topics include cognition; user needs assessment, interface design, modeling, prototyping, usability testing, and evaluation. Majors only or permission of instr.
- LIS 3353 IT Concepts for Information Professionals (3) AS LIS**  
Covers the history, development, and current state of computer hardware and software. Also examines programming basics, networks, the internet and web, emerging technologies, information industries, and careers. Majors only or permission of instructor.

# COURSE DESCRIPTIONS

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**LIS 3361 World Wide Web Page Design and Management (3) AS LIS**

PR: LIS 2004.

Covers a variety of strategies in designing and maintaining effective World Wide Web pages for publication on the Internet.

**LIS 3783 Information Architecture (3) AS LIS**

PR: LIS 3103.

Covers design, organization, implementation, and maintenance of digital information spaces for human access, navigation, and use. Examines core concepts and dominating technologies in IA. Majors only or permission of instructor.

**LIS 4204 Information Behaviors (3) AS LIS**

PR: LIS 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 4365 Web Design Technologies (3) AS LIS**

PR: LIS 3361

Exploration of advanced applications of key Web Technologies. Majors only or permission of instructor.

**LIS 4414 Information Policy and Ethics (3) AS LIS**

Examines issues related to information use in today's society. Topics include governmental regulations and policies, information literacy, digital divide, information ethics, and intellectual property issues. Majors only or permission of instructor.

**LIS 4482 Networks and Communication (3) AS LIS**

PR: LIS 3353.

This course is designed to provide a solid foundation in data communication and networking. Topics include local area networks (LANs), wide area networks (WANs), protocols used to implement networks & management issues of IT professionals. Majors or PI.

**LIS 4930 Selected Topics in Information Studies (3) AS LIS**

Covers a variety of topics in the field of library/information science such as emerging technologies, administration and service, and current professional issues.

**LIS 5020 Foundations of Library and Information Science (3) AS LIS**

Introduction to the study of library and information science, history; organization; specialized literature; outstanding leaders; current trends, issues, and problems; the place of the information agency in society with its contributions to that society.

**LIS 5268 Microcomputer Applications Library and Information Centers (3) AS LIS**

Microcomputer hardware and software for libraries and their application in library/information settings. Projects using major applications for budgets,

databases, and telecommunications are undertaken.

**LIS 5315 Instructional Graphics (3) AS LIS**

Theoretical aspects, planning and production of instructional graphic material. The theory of graphic communications. Interpreting needs for instructional materials appropriate for given behavioral objectives.

**LIS 5333 TV in Schools and Libraries (3) AS LIS**

Small format video tape recordings and the utilization of open and closed broadcasts in schools and libraries.

**LIS 5418 Health Informatics for Medical Librarians (3) AS LIS**

PR: LIS 5020 or LIS 6620

CR: LIS 6475.

Introduction to the interdisciplinary field of medical informatics highlighting the underlying theories, and methods related to health information technology in support of decision-making, problem-solving, and other health information problems.

**LIS 5566 Multicultural Literature for Children and Young Adults (3) AS LIS**

Students will select and evaluate multicultural and special population materials for effective use in youth services and programs in public and school libraries.

**LIS 5937 Selected Topics in Library Studies (1-4) AS LIS**

Covers a variety of topics in such areas as collection development, reference services, technical services, and administration.

**LIT 2000 Introduction to Literature CAHU 6AC SGEH (3) AS ENG**

This course will introduce students to the three major literary forms of prose, poetry and drama as well as to various "schools" of literary criticism. Will not count toward the English major.

**LIT 2010 Introduction to Fiction CAHU 6AC (3) AS ENG**

A study of the short story and novel as literary forms; approached from an historical perspective though not restricted to any historical period. Will not count toward the English major.

**LIT 2020 Introduction to the Short Story CAHU HHCP 6AC (3) AS ENG**

Introduction to the formal elements of the short story, analysis and interpretation, application of major types of literary criticism, the history of the genre and its interaction with its social context. Will not count toward the English major.

**LIT 2030 Introduction to Poetry CAHU 6AC (3) AS ENG**

A study of the poem as literary form; approached from an historical perspective though not restricted to any historical period. Will not count toward the English major.

**LIT 2040 Introduction to Drama CAHU 6AC (3) AS ENG**



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- This course will introduce students to the literary form of drama as well as to the various "schools" of literary criticism. Will not count toward the English major.
- LIT 3022 Modern Short Prose (3) AS ENG**  
PR: ENC 1101 and ENC 1102.  
This course for English majors and minors explores modern short prose in World, British, and American literatures; genres include the short story, the long short story, the short novel, and the essay. Not repeatable.
- LIT 3031 Survey of Poetry (3) AS ENG**  
A chronological sampling of the major poems written in English from the Middle Ages to the present. Recommended as the first literature course in the CRW (Poetry emphasis) Option.
- LIT 3043 Modern Drama (3) AS ENG**  
A study of such modern and contemporary dramatists as Ibsen, Strindberg, Chekhov, Pirandello, Shaw, O'Neill, Pinter, Stoppard, Brecht, Beckett, and Ionesco.
- LIT 3093 Contemporary Literature (3) AS ENG**  
An introduction to the fiction, poetry, and drama written since 1945--American, British, Continental, or Multicultural. Focus may be on one, two, or all three genres or on works from any combination of nationalities.
- LIT 3101 Literature of the Western World Through the Renaissance (3) AS ENG**  
A study in English of the great works of Western Literature from its beginnings through the Renaissance, including the Bible, Homer, Sophocles, Plato, Euripides, Virgil, Cicero, Dante, Petrarch, Machiavelli, and Rabelais, among others.
- LIT 3102 Literature of the Western World Since the Renaissance (3) AS ENG**  
A study in English of the great works of Western Literature from the Neoclassic to the Modern Period, including such writers as Moliere, Racine, Voltaire, Dostoevsky, Chekhov, Ibsen, Kafka, Gide, Sartre, and Camus, among others.
- LIT 3103 Great Literature of the World WRIN 6AC (3) AS ENG**  
A survey of world literature including samples from the ancient and modern era, Western and Eastern traditions, male and female writers, and various ethnic cultures. Focus on values/ethics, race, ethnicity and gender; thinking and writing skills. Will not count toward the English major.
- LIT 3144 Modern European Novel 6AC (3) AS ENG**  
A study of the Modern European novel in translation as it developed from the nineteenth century to the present, including such writers as Dostoevsky, Flaubert, Kafka, Hesse, Camus, and Solzhenitsyn.
- LIT 3155 Twentieth-Century Literature WRIN 6AC (3) AS ENG**  
Examines major literary works of the 20th Century written in English and explores ways authors have expressed the age, its great issues and conflicts, in order to gain an historical perspective that will help relate the present to the recent past. Will not count toward the English major.
- LIT 3301 Cultural Studies and the Popular Arts WRIN 6AC (3) AS ENG**  
A study of American and international cultures as they are represented in the film, fiction, and other cultural artifacts of various ethnic groups and nationalities. Focuses on values/ethics, race, ethnicity and gender; thinking and writing skills. Will not count toward the English major.
- LIT 3374 The Bible As Literature WRIN 6AC (3) AS ENG**  
Major emphasis on literary types, literary personalities of the Old (Fall semester) and New (Spring semester) Testaments, and Biblical archetypes of British and American literary classics. 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 WRIN 6AC (3) AS ENG**  
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) AS ENG**  
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 WRIN 6AC (3) AS ENG**  
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.
- LIT 3930 Special Topics in English Studies (3) AS ENG**  
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) AS ENG**  
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 6AC (3) AS ENG**  
Survey of women's literary tradition in England and America from the seventeenth century to the present. Thematic focus includes self, marriage,

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- sexuality, madness, race and generations. Writing intensive.
- LIT 4804 Literature as Cultural Study (3) AS ENG**  
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) AS ENG**  
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
- LIT 4932 Selected World Authors (3) AS ENG**  
PR: ENC 1102  
Course examines selected world authors, beyond England and/or the United States, showing how the work of a particular writer, or group of writers, intersect with global, economic, social, and political concerns, as well as literary and cultural movements
- LIT 4933 World Literary Movements And Genres (3) AS ENG**  
PR: ENC 1102  
Examines in-depth a selected movement and/or genre of world literature (romanticism, postcolonialism, African fiction, etc.); building upon skills in survey courses, class requires intensive reading, a grasp of current scholarship, and rigorous writing.
- LNW 4501 Seneca and Roman Philosophy (3) AS WLE**  
Readings in the philosophic writings of Lucius Annaeus Seneca, together with an examination of Stoic, Epicurean, and Eclectic thought.
- LNW 4644 Cicero (3) AS WLE**  
Readings in the epistles of Cicero.
- LNW 4654 Horace (3) AS WLE**  
Readings in the Odes and Epodes of Horace; study of the Ode's tradition.
- LNW 4900 Directed Reading (1-4) AS WLE**
- LNW 4930 Selected Topics (3) AS WLE**  
Study of an author, movement, or theme.
- LNW 5900 Directed Reading (1-4) AS WLE**
- LNW 5934 Selected Topics (4) AS WLE**  
Study of an author, movement, or theme.
- MAA 4211 Intermediate Analysis I 6AM (3) AS MTH**  
PR: MAC 2313 and MAS 3105.  
Sequences, series, metric spaces, continuity, differentiation.
- MAA 4212 Intermediate Analysis II 6AM (3) AS MTH**  
PR: MAA 4211.  
Riemann-Stieltjes integration, uniform convergence, and related topics.
- MAA 4402 Complex Variables 6AM (3) AS MTH**  
PR: MAP 2302  
Complex numbers, Cauchy-Riemann equations, analytic and conformal functions, power series, Cauchy Theorem, Cauchy Integral Formula, residue theory.
- MAA 5306 Real Analysis I (3) AS MTH**  
PR: MAA 4211.  
Riemann-Stieltjes integrals, uniform convergence, Fourier series, Lebesgue measure and integration on  $\mathbb{R}$ .
- MAA 5307 Real Analysis II (3) AS MTH**  
PR: MAA 5306.  
Metric spaces, Banach spaces, and function spaces; measure and integration on abstract spaces.
- MAA 5405 Applied Complex Analysis (3) AS MTH**  
Complex numbers, analytic and harmonic functions. Series. Contour integrals, residue theory. Conformal mappings. (A survey course emphasizing techniques and applications.)
- MAC 1105 College Algebra CAMA 6AM SGEM (3) AS MTH**  
PR: C (2.0) or better in MAT 1033, or 490 or better SAT Math score, or 21 or better ACT Math score, or 90 or better Elementary Algebra CPT score, or 40 or better College-Level Math CPT score.  
Concepts of the real number system, functions, graphs, and complex numbers. Analytic skills for solving linear, quadratic, polynomial, exponential, and logarithmic equations. Mathematical modeling of real life applications. College Algebra may be taken either for General Education credit or as preparation for a pre-calculus course.
- MAC 1114 Precalculus Trigonometry 6AM (2) AS MTH**  
PR: C (2.0) or better in MAC 1105, or 550 or better SAT Math Score, or 24 or better ACT Math Score  
CPR: MAC 1140.  
Angles, trigonometric functions, properties and graphs of trigonometric functions, right triangles, laws of sines and cosines, polar coordinates.
- MAC 1140 Precalculus Algebra 6AM (3) AS MTH**  
PR: C (2.0) or better in MAC 1105, or 550 or better SAT Math Score, or 24 or better ACT Math Score.  
CPR: MAC 1114.  
Review of functions and graphs. Analytic geometry including conic sections and rotation of axes, systems of equations including matrix algebra and determinants, sequences and series including Binomial Theorem.
- MAC 1147 Precalculus Algebra and Trigonometry CAMA 6AM (4) AS MTH**  
PR: C (2.0) or better in MAC 1105, or 550 or better SAT Math score, or 24 or better ACT Math score, or 60 or better College-Level Math CPT score.  
This is an accelerated combination of MAC 1140 and MAC 1114; this course is best for students

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- who have already seen some trigonometry. See the descriptions of MAC 1140 and MAC 1114.
- MAC 2233 Business Calculus CAMA 6AM (3) AS MTH**  
PR: C (2.0) or better in MAC 1105, or C (2.0) or better in MAC 1140, or C (2.0) or better in MAC 1147, or 590 or better SAT Math score, or 26 or better ACT Math score, or 78 or better College-Level Math CPT score.  
Linear equations and functions, mathematics of finance, differentiation and integration of algebraic, exponential and logarithmic functions with applications to business, finance and economics.
- MAC 2241 Life Sciences Calculus I CAMA 6AM (3) AS MTH**  
PR: C (2.0) or better in MAC 1114, or C (2.0) or better in MAC 1147, or 650 or better SAT Math score, or 29 or better ACT Math score, or 90 or better College-Level Math CPT score  
No credit for math majors. Differentiation and integration of algebraic, trigonometric, exponential, and logarithmic functions with applications to life sciences.
- MAC 2242 Life Sciences Calculus II CAMA 6AM (3) AS MTH**  
PR: C (2.0) or better in MAC 2241.  
Techniques of integration, differential equations, functions of several variables, series and Taylor polynomials.
- MAC 2281 Engineering Calculus I CAMA 6AM (4) AS MTH**  
PR: C (2.0) or better in MAC 1114 and C (2.0) or better in MAC 1140, or C (2.0) or better in MAC 1147, or 650 or better SAT Math score, or 29 or better ACT Math score, or 90 or better College-Level Math CPT score  
Differentiation, limits, differentials, extremes, indefinite integral. No credit for mathematics majors.
- MAC 2282 Engineering Calculus II CAMA 6AM (4) AS MTH**  
PR: C (2.0) or better in MAC 2281.  
Definite integral, trigonometric functions, log, exponential, series, applications.
- MAC 2283 Engineering Calculus III 6AM (4) AS MTH**  
PR: C (2.0) or better in MAC 2282  
Techniques of integration, numerical methods, analytic geometry, polar coordinates, Vector algebra, applications.
- MAC 2311 Calculus I CAMA 6AM SGEM (4) AS MTH**  
PR: C (2.0) or better in MAC 1114 and C (2.0) or better in MAC 1140, or C (2.0) or better in MAC 1147, or 650 or better SAT Math score, or 29 or better ACT Math score, or 90 or better College-Level Math CPT score  
Differentiation, limits, differentials, extremes, indefinite integral.
- MAC 2312 Calculus II CAMA 6AM (4) AS MTH**  
PR: C (2.0) or better in MAC 2311  
Antiderivatives, the definite integral, applications, series, log, exponential and trig functions.
- MAC 2313 Calculus III 6AM (4) AS MTH**  
PR: C (2.0) or better in MAC 2312  
Integration, polar coordinates, conic sections, vectors, indeterminate forms and proper integrals.
- MAD 3107 Discrete Mathematics 6AM (3) AS MTH**  
PR: MAC 2281 or MAC 2311.  
An introduction to some of the aspects of discrete mathematics that are fundamental to digital computing. Topics include sets, numbers, algorithms, Boolean algebra, computer arithmetic, elementary combinatorics and an introduction to graph theory.
- MAD 4203 Introduction to Combinatorics (3) AS MTH**  
PR: MGF 3301  
Fundamental principles of counting. Topics include bijective proofs, arrangements and permutations, sets and multisets, the Principle of Inclusion-Exclusion, partitions, generating functions, recurrence relations, and the Polya theory of counting.
- MAD 4301 Introduction to Graph Theory (3) AS MTH**  
PR: MGF 3301  
Fundamental principles of Graph Theory, including isomorphism, trees and connectivity, Eulerian circuitry, Hamiltonicity, matching theory, planarity, graph colorings, Ramsey theory, and graph algorithms.
- MAD 4401 Numerical Analysis I 6AM (3) AS MTH**  
PR: MAP 2302 and MAS 3105.  
Numerical solution of algebraic and transcendental equations, interpolation and polynomial approximation, numerical differentiation and integration, numerical solution of differential equations.
- MAD 4402 Numerical Analysis II (3) AS MTH**  
PR: MAD 4401.  
Numerical linear algebra, approximation theory, eigenvalue approximation, systems of nonlinear equations, boundary value problems.
- MAD 4471 Introduction to Cryptography and Coding Theory (3) AS MTH**  
PR: MAS 3105 and MGF 3301  
Cryptology combines the studies of cryptography, the creating of masked messages, and cryptanalysis, the unraveling of masked messages. Coding theory is the study of coding schemes used to detect and correct errors that occur during the data transmission.
- MAD 4504 Theory of Computation 6AM (3) AS MTH**  
PR: MGF 3301 or MAD 3100.  
Mathematical aspects of alphabets and languages. Chomsky's hierarchy. Grammars. Regular languages, grammars and finite states machines. Context-free languages and grammars. Turing machines and languages. Decidability.

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Inductive definition of functions and basic computable functions. Introduction to computational complexity.

**MAD 5101 LISP: Programming With Algebraic Applications (3) AS MTH**

PR: MHF 5306 or MAD 6510 or MAS 5311  
Programming in LISP, functional languages, foundations of Lambda Calculus and algebraic applications (theorem proving and game playing).

**MAD 5305 Graph Theory (3) AS MTH**

PR: MAS 3105  
Brief introduction to classical graph theory (4-color theorem, etc.), directed graphs, connected digraphs, condensations, incidence matrices, Polya's Theorem, networks.

**MAE 3224 Middle School Mathematics Methods Course 1 (3) ED EDI**

This course provides prospective middle school teachers with initial skills to develop an inquiry-based learning environment that facilitates high academic achievement for all students, focusing on curriculum and learning at the task and lesson level.

**MAE 3225 Middle School Mathematics Methods Course 2 (3) ED EDI**

PR: Middle School Mathematics Residency Program Methods Course 1  
This course provides prospective middle school teachers with advanced skills to develop an inquiry-based learning environment that facilitate high academic achievement for all students, focusing on assessment and learning at unit and semester levels.

**MAE 3941 Practicum I: Middle School Mathematics Education (1-3) ED EDI**

The candidate will spend six hours a week in an assigned school, becoming acquainted with the middle grades classroom, and providing supervised one-on-one, small group and whole group instruction and will attend university seminars.

**MAE 3942 Practicum II: Middle School Mathematics Education (1-3) ED EDI**

Candidates will spend nine hours a week in an assigned school, in a grade level or subject area other than the one completed in Practicum I, providing supervised one-on-one, small group, and whole group instruction, and will attend university seminars.

**MAE 4310 Teaching Elementary School (K-6) Mathematics I (3) ED EDE**

PR: two college level mathematics courses  
Methods for teaching number ideas, computation skills, and mathematical reasoning in elementary (K – 6) classrooms.

**MAE 4320 Teaching Mathematics in the Middle Grades (3) ED EDI**

This course provides prospective middle school teachers the opportunity to develop concepts, skills, and pedagogical procedures for effective teaching of mathematics in grades 5-9.

**MAE 4326 Teaching Elementary School (K-6) Mathematics II (3) ED EDE**

PR: MAE 4310.  
Methods for teaching informal geometry, measurement, probability, statistics, and algebraic thinking for elementary school (K – 6) classrooms.

**MAE 4330 Teaching Senior High School Mathematics (3) ED EDI**

PR: MAE 4320  
The course is designed to prepare the student for a successful internship experience as well as an induction to teaching mathematics in the high schools of today. The experiences help bridge the perceived gap between theory and practice.

**MAE 4551 Reading the Language of Mathematics (3) ED EDI**

PR: MAE 4320  
This course provides an opportunity to develop concepts, skills and procedures for effective communication (reading, writing, listening and speaking) in the mathematics curriculum. The State DOE required preparation in basic reading is covered.

**MAE 4652 Technology for Teaching Secondary School Mathematics (3) ED EDI**

This course provides prospective teachers an opportunity to develop concepts, skills, and instructional procedures for integrating technology for teaching in secondary mathematics classrooms. The course is restricted to majors.

**MAE 4653 Technology for Teaching Secondary School Mathematics II (3) ED EDI**

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) ED EDI**

To extend competency in teaching field.

**MAE 4936 Senior Seminar in Mathematics Education CPST (3) ED EDI**

CR: MAE 4940  
Synthesis of teacher candidate's courses in complete college program.

**MAE 4940 Internship: Mathematics Education (1-12) ED EDI**

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) ED EDI**

Candidates will spend each day of the semester in an assigned school implementing acquired knowledge from Practicum I and II, with increased

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responsibility for planning instruction and assessing student learning, and will attend internship seminars.

**MAE 4942 Internship II: Middle School Mathematics Education (1-12) ED EDI**

Internship II is a continuation of Internship I. Candidates will spend each day of the semester co-teaching in the same school, with responsibility for planning instruction and assessing impact on student learning, and will attend internship seminars.

**MAE 4945 Practicum in Mathematics Education (3) ED EDI**

PR: MAE 4320 and MAE 4652.

This course provides students an opportunity to demonstrate their ability to plan, deliver instruction, and reflect upon the effectiveness of their teaching in secondary school mathematics classrooms. Course is restricted to majors.

**MAN 3025 Principles of Management (3) BA QMB**

Examines intrapersonal, interpersonal, group/team, organizational, and environmental (both stakeholder and societal) factors influencing the management task.

**MAN 3240 Organizational Behavior Analysis (3) BA QMB**

PR: MAN 3025.

The course covers research literature relevant to organizational functioning including behavioral effects of power and authority, formal organization, structural variation, leadership, motivation, and communication.

**MAN 3301 Human Resource Management (3) BA QMB**

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) BA QMB**

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) BA MKT**

PR: MAN 3025.

Examines moral and ethical responsibilities of managing organizations at the personal, interpersonal, and organizational level.

**MAN 4129 Theory and Practice of Management Skills (3) BA QMB**

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) BA QMB**

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) BA QMB**

PR: MAN 3240

The analysis and measurement of factors which influence organizational effectiveness and the quality of work life. Data based cases will be used by students to assess managerial and supervisory skills and to measure organizational functioning and work design.

**MAN 4402 Employment Laws (3) BA QMB**

Federal and state regulation of the employment relationship, including wage and hour laws; EEO; affirmative action programs; employee benefits; insurance; workers' compensation, safety, health, employee's personal rights; collective bargaining legislation.

**MAN 4430 Seminar in Negotiations and Administration of Labor Agreements (3) BA QMB**

Case studies in contract negotiation, administration, grievance settlement, and arbitration. Assumes familiarity with industrial relations system.

**MAN 4441 Negotiation and Conflict Resolution (3) BA QMB**

PR: MAN 3025, MAN 3240.

Examines what conflict is, how it occurs, and how it can be managed through negotiation, particularly in the workplace.

**MAN 4504 Operations Management: A Systems Approach (3) BA QMB**

PR: ISM 3431 or equivalent.

Studies the problems of "operations" in all types of enterprises in both the public and private sectors. Emphasis is placed on the application of various decision science methodologies to problem situations.

**MAN 4600 International Management (3) BA QMB**

PR: MAN 3025

Examines the effects of international cultural differences on business practices within and outside the United States and provides methods to build synergies and establish/enhance competitive advantage via those differences.

**MAN 4631 Global Perspectives and Management Choices (3) BA QMB**

PR: FIN 3403, MAN 3025, MAR 3023. Two upper-level international courses.

Capstone course for IB major. Integrates business core, International business, concentration, area studies & required overseas experience information. Synthesizes theoretical and practical aspects of doing business in an increasingly global environment.

**MAN 4702 Disaster Recovery and Business Continuity Planning (3) AS LIS**

# COURSE DESCRIPTIONS

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When organizations are interrupted by disasters, accidents, or natural events, a loss of money, data, and/or productivity occurs. The extent to which the loss affects the organization's health depends on its ability to deal with these disruptions.

## **MAN 4737 Integrated Management Applications (3) BA QMB**

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) BA MKT**

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) BA MKT**

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) BA QMB**

Specialized independent study determined by the student's needs and interests.

## **MAN 4930 Selected Topics in Management (1-3) BA QMB**

Topics to be selected by instructor and department chairperson for pertinent Management issues.

## **MAN 4931 Independent Research (1-4) BA QMB**

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) BA QMB**

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) BA QMB**

This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to develop explanations or solutions to academically interesting business problems or opportunities.

## **MAP 2302 Differential Equations 6AM (3) AS MTH**

PR: MAC 2283 or MAC 2313.

First order linear and nonlinear differential equations, higher order linear equations, applications.

## **MAP 4202 Optimization (3) AS MTH**

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) AS MTH**

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) AS MTH**

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) AS MTH**

PR: MAP 5316 and MAA 5307

Topics selected from fixed point theory, comparison theory, oscillation theory, Poincaré-Bendixson Theory, Lyapunov functions, eigenfunction expansions.

## **MAP 5345 Applied Partial Differential Equations (3) AS MTH**

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) AS MTH**

PR: MAP 2302

Sturm-Liouville theory, Fourier series, Green's functions, matrix methods for linear systems of ordinary differential equations, and topics from calculus of variations, control theory, numerical solutions of differential equations.

## **MAR 2931 Selected Topics in Marketing (1-3) BA MKT**

Topics to be selected by department chairman.

## **MAR 3023 Basic Marketing (3) BA MKT**

Survey of the marketing of goods and services within the economy. Attention is paid to the impact of marketing on other functional areas of business as well as society.

## **MAR 3400 Professional Selling (3) BA MKT**

PR: MAR 3023

A study of the stages of the professional selling process, and the role of sales in today's marketing environment. Emphasis on learning adaptive selling techniques and developing effective interpersonal communications skills. Sales careers are examined.

## **MAR 3613 Marketing Research (3) BA MKT**

PR: QMB 2100, MAR 3023.

# COURSE DESCRIPTIONS

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A study of research methods and techniques applicable to problem solving in marketing. Attention is also given to defining information needs, determining the value of information, interpreting and reporting information for use in marketing decision making.

**MAR 3823 Marketing Management (3) BA MKT**  
PR: MAR 3023.

An applications oriented study of the marketing function at an intermediate level. Emphasis upon techniques for analysis and problem-solving. Builds upon the principles and concepts learned in MAR 3023, and provides a strong foundation for the remaining courses in the marketing curriculum.

**MAR 4156 International Marketing (3) BA MKT**  
PR: MAR 3023.

A study of procedures and problems associated with establishing marketing operations in foreign countries. Includes the institutions, principles and methods involved in the solution of these business problems as well as the effects of national differences on business practices and buyer behavior.

**MAR 4213 Logistics and Physical Distribution Management (3) BA MKT**  
PR: MAR 3023

A study of logistics in the marketing of goods and services. Includes a description and analysis of the logistics environment as well as components of the physical distribution system with emphasis on information flows and the application of quantitative techniques used in establishing and controlling customer service levels.

**MAR 4231 Retailing Management (3) BA MKT**  
PR: MAR 3023

A comprehensive study of the retailing structure, institutions, and environment. Includes pertinent management theories and practices in analyzing, organizing, planning and controlling retail operations, both large and small.

**MAR 4333 Promotion Management (3) BA MKT**  
PR: MAR 3023

A study of the role of promotion in the marketing program of the firm, including the promotional tools available to the marketing manager and the various types of decisions made in the promotional area. Decision making process in development of a promotional program is emphasized.

**MAR 4403 Sales Management (3) BA MKT**  
PR: MAR 3023

A study of sales management and strategy as a subset of marketing management. Emphasis is placed on developing the problem-solving and decision-making skills required of the sales manager in the modern market-oriented company.

**MAR 4453 Business to Business Marketing (3) BA MKT**  
PR: MAR 3023

A study of the marketing of goods and services to the industrial and institutional sectors. Includes

characteristics of the markets and channels of distribution, sales, management, research and promotional practices, marketing policies and strategies.

**MAR 4503 Buyer Behavior (3) BA MKT**  
PR: MAR 3023

A study of the basic concepts of buyer behavior, including pre- and post-purchase attitudes and behavior patterns, information processing relating to the functional areas of marketing and the buyer's decision-making process. Managerial applications to marketing are emphasized.

**MAR 4824 Marketing Management Problems (3) BA MKT**  
PR: MAR 3613, MAR 3823, and MAR 3203 or MAR 4333

The integration of marketing knowledge applied to decision roles in managing the total marketing effort of firms, and coordination with other major functional areas on specific problems. Restricted to Marketing majors.

**MAR 4903 Independent Research (1-3) BA MKT**  
Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor.

**MAR 4905 Independent Study (1-3) BA MKT**  
Specialized independent study determined by the students' needs and interests.

**MAR 4933 Selected Topics In Marketing (1-3) BA MKT**  
Topics to be selected by instructor and department chairperson.

**MAR 4940 Marketing Internship/Practicum (3) BA MKT**

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) BA MKT**  
This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to develop explanations or solutions to academically interesting business problems or opportunities.

**MAS 3105 Linear Algebra 6AM (3) AS MTH**  
CPR: MGF 3301 and either MAC 2283 or MAC 2313.

Linear systems, matrix algebra, vector spaces, linear independence, inner product spaces, Gram-Schmidt algorithm, linear transformations and matrix representations, determinants, eigenvalues, diagonalization, quadratic forms.

**MAS 3108 Algebra Connections (3) AS MTH**  
PR: Calculus I.

This course will provide prospective teachers with experiences that will help them develop the specialized content knowledge needed to support the teaching of mathematics in middle level education.

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**MAS 3156 Vector Calculus 6AM (3) AS MTH**

PR: MAC 2313 or MAC 2283  
Implicit function and inverse function theorems, parameterized surfaces, submanifolds on Euclidean space, exterior calculus of differential forms, differentiation of vector fields, line and surface integrals, Stokes' Theorem, elementary continuous groups.

**MAS 3205 Number Concepts Connections (3) AS MTH**

PR: Calculus I.  
This course will provide prospective teachers with experiences in number theory that will help them develop the specialized content knowledge needed to support the teaching of mathematics in middle level education.

**MAS 4214 Elementary Number Theory 6AM (3) AS MTH**

PR: MAC 2312.  
Divisibility, prime numbers, Fundamental Theorem of Arithmetic, Diophantine equations, the algebra of congruencies, number functions and other selected topics.

**MAS 4301 Elementary Abstract Algebra 6AM (3) AS MTH**

PR: MAS 3105.  
An introduction to the basic algebraic structures; groups, rings, integral domains, and fields; homeomorphisms and isomorphisms.

**MAS 4302 Elementary Abstract Algebra II (3) AS MTH**

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) AS MTH**

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-adjoint operators and quadratic forms.

**MAS 5215 Number Theory (3) AS MTH**

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) AS MTH**

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.

**MAS 5312 Algebra II (3) AS MTH**

PR: MAS 5311

Continuation of MAS 5311. Finitely generated modules over a principal ideal domain, basic field theory, finite fields, Galois theory.

**MAT 1033 Intermediate Algebra (3) ED EDI**

PR: MAT 0024 with a grade of "C" or better or appropriate score on the Scholastic Aptitude Test, Mathematics (SATM)

This course provides students with an opportunity to develop algebraic knowledge needed for further study in several fields such as engineering, business, science, computer technology, and mathematics.

**MAT 1033L Intermediate Algebra Laboratory (1) ED EDI**

PR: MAT 0024 with a grade of "C" or better or appropriate score on the Scholastic Aptitude Test, Mathematics (SATM)

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 6AM (1-4) AS MTH**

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 6AM (1-3) AS MTH**

The course content will depend on the interest of faculty members and student demand.

**MAT 4937 Mathematics Majors Seminar 6AM (1) AS MTH**

PR: MAS 4301.

**MAT 4970 Mathematics Senior Thesis 6AM (3) AS MTH**

Course restricted to mathematics majors.

**MAT 5932 Selected Topics (1-4) AS MTH**

Each course covers a single topic outside the usual curriculum.

**MCB 2000 Microbiology for Nursing and other Healthcare Professionals (3) NR NUR**

Basics of microbiology for health professionals. Focus on disease states and the role of bacteria, viruses, fungi, rickettsiae and other pathogenic organisms.

**MCB 2000L Microbiology Lab for Nursing and other Healthcare Professionals (1) NR NUR**

PR: MCB 2000.

Basics of microbiology for health professionals. Focus on disease states and the role of bacteria, viruses, fungi, rickettsiae and other pathogenic organisms.

**MCB 3020 General Microbiology (3) AS BCM**

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023.



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- CPR: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712.  
Structure and function of bacteria, archaea, viruses, and eukaryotic microbes.
- MCB 3020L General Microbiology Laboratory (1) AS BCM**  
CR: MCB 3020  
The laboratory involves preparation of culture media, staining, pure culture methodology, isolation of microbes from nature, enumeration techniques, resistance to infectious disease.
- MCB 3410 Cell Metabolism (3) AS BCM**  
PR: BIO 2010 and BIO 2010L  
CR: CHM 2045  
This course will provide a broad framework and overview of major metabolic pathways that occur in living cells with emphasis on integration and regulation of those pathways. For majors and non-majors.
- MCB 4115 Determinative Bacteriology (3) AS BCM**  
PR: MCB 3020, CHM 2210, 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.  
Survey of bacterial classification; detailed examinations of bacteria important to man in agriculture, in industry and as pathogens.
- MCB 4115L Determinative Bacteriology Laboratory (2) AS BCM**  
CR: MCB 4115  
Laboratory associated with Determinative Bacteriology.
- MCB 4202 Ecology of Infectious Diseases (3) AS BIN**  
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2045, CHM 2046, and 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 4313 Industrial Microbiology and Biotechnology (3) AS BCM**  
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) AS BCM**  
PR: MCB 3020, PCB 3023, PCB 3063.  
Lecture based course building on principles from gen. microbiology to explore advanced topics in molecular microbiology. Emphasis is on: molecular genetics of bacteria and bacteriophages and genetic regulation of responses to the natural environment.
- MCB 4404 Microbial Physiology and Genetics (3) AS BIN**  
PR: MCB 3020 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and PHY 2053.  
CPR: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211.  
Physiological, metabolic, and genetic phenomena pertinent to understanding the growth, development, ecology, regulation, and reproduction of microorganisms. Emphasizes the interdependence of physiological and genetic approaches. Lecture only.
- MCB 4404L Microbial Physiology and Genetics Laboratory (1) AS BIN**  
CR: MCB 4404.  
Laboratory portion of Microbial Physiology and Genetics relating to biochemical characteristics and metabolic capabilities of bacteria. Laboratory only.
- MCB 4503 Virology (3) AS BCM**  
PR: MCB 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.  
The biology of viruses associated with plants, animals, and bacteria will be considered; the nature of viruses, mechanisms of viral pathogenesis, and interactions with host cells.
- MCB 4905 Microbiology Undergraduate Research (1-4) AS BCM**  
PR: CHM 2210 & MAC 1105 or higher-level MAC course or STA 2023 and 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) AS BCM**  
This course covers various topics in microbiology. The content varies depending on student demand and instructor interest.
- MCB 4934 Seminar in Microbiology (1) AS BCM**
- MCB 5206 Public Health and Pathogenic Microbiology (3) AS BCM**  
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) AS BCM**  
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.

# COURSE DESCRIPTIONS

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## **MCB 5655 Applied and Environmental**

### **Microbiology (3) AS BIN**

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) AS BCM**

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) AS SGS**

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.

## **MET 4002C Climatology (4) AS SGS**

PR: GEO 2200

An introductory survey of climatology. A qualitative study of the dynamics and general circulation of the atmosphere. Surface and upper level atmosphere linkages in the mid latitudes will be examined. Discussion of the regional climatic patterns and anomalies throughout the world. This course includes several integrated lab investigations.

## **MET 4012C Meteorology (4) AS SGS**

PR: GEO 2200

The earth's atmosphere and its processes; weather forecasting and analysis; instrumentation. Lecture/lab.

## **MET 4106C Climate Studies (4) AS SGS**

PR: GEO 2200 or MET 4012C or MET 2010.

Information will be provided on the climate system, the scientific principles that govern climate, its variability and change with implications for society and risk management strategies aimed at countering negative impacts of global climate change. This course includes several integrated lab investigations.

## **MGF 1106 Finite Mathematics CAMA 6AM SGEM (3) AS MTH**

PR: C (2.0) or better in MAT 1033, or 440 or better SAT Math score, or 19 or better ACT Math Score, or 72 or better Elementary Algebra CPT score. Concepts and analytical skills in areas of logic, linear equations, linear programming, mathematics of finance, permutations and combinations, probability, and descriptive statistics.

## **MGF 1107 Mathematics for Liberal Arts CAMA 6AM SGEM (3) AS MTH**

PR: C (2.0) or better in MAT 1033, or 440 or better SAT Math score, or 19 or better ACT Math Score, or 72 or better Elementary Algebra CPT score.

This terminal course is intended to present topics which demonstrate the beauty and utility of mathematics to the general student population. Among the topics which might be included are: Financial Mathematics, Linear and Exponential Growth, Numbers and Number Systems, Elementary Number Theory, Voting Techniques, Graph Theory, and the History of Mathematics.

## **MGF 3301 Bridge to Abstract Mathematics 6AM (3) AS MTH**

CPR: MAC 2313 or MAC 2283.

Techniques and logic of the construction of proofs. Topics will be selected from propositional logic, set theory, relations and functions, equivalence relations, Boolean algebra, cardinality, and limits.

## **MHF 4403 The Early History of Mathematics 6AM (3) AS MTH**

PR: MAC 2312

A study of the history and development of mathematics and its cultural impact from the formation of number systems to the Renaissance.

## **MHF 4406 The History of Modern Mathematics 6AM (3) AS MTH**

PR: MAC 2313.

Traces the development of mathematical ideas in Western culture.

## **MHF 5306 Mathematical Logic and Foundations I (3) AS MTH**

PR: MAS 4301

Two-course sequence covering: predicate calculus and classical model theory; transfinite set theory and the system ZFC; recursion theory and decidability.

## **MHF 5402 The Early History of Mathematics (3) AS MTH**

PR: MAC 2312

A study of the history and development of mathematics and its cultural impact from the formation of number systems to the Renaissance.

## **MHF 5405 History of Modern Mathematics (3) AS MTH**

PR: MAC 2313.

Traces the development of mathematical ideas in Western culture. Special emphasis is placed on those concepts which led to the Calculus. This course is open to majors and non-majors alike.

## **MHS 3062 Behavioral Healthcare Services for Older Adults (3) BC MHL**

This course provides an overview of behavioral health disorders, service sectors, service utilization, and evidence-based service delivery models for older adults with behavioral health issues.

## **MHS 3204 Fundamentals of Applied Behavior Analysis (3) BC CFS**

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.

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## **MHS 3411 Multidisciplinary Behavioral Healthcare Services (3) BC MHL**

Working in behavioral healthcare requires the application of specific knowledge and skills. This open enrollment course offers a practical multidisciplinary look at service delivery. Students will examine their career and educational goals in context.

## **MHS 4002 Behavioral Health Systems Delivery (3) BC MHL**

PR: MHS 3411

This course is designed to provide students with an understanding of the significant issues and trends in behavioral health delivery systems in America. Four major areas will be emphasized: 1) history and legislation; 2) systems delivery; 3) programs and policies; 4) selected at-risk populations. This course is not repeatable for credit and is open to non-minors in behavioral healthcare.

## **MHS 4022 Adult Psychopathology in the Community (3) BC MHL**

This course will review the experience of persons with mental illness in public service settings. Justice involvement, co-occurring disorders, funding streams, and evidence based practices will be discussed. Not restricted to majors; not repeatable.

## **MHS 4023 Recovery Oriented Mental Health Services (3) BC MHL**

This course describes the principles and practices of services that promote recovery and rehabilitation for individuals with severe mental illnesses, with special focus on integration of mental health consumers into meaningful community roles.

## **MHS 4052 Human Relations Skills in Counseling (3) ED EDF**

Introduction to the theory of human relations dynamics and development of skills required for effective interpersonal relations. Lecture sessions and experiential training.

## **MHS 4202 Behavioral Assessment and Intervention Planning (3) BC CFS**

PR: MHS 3204 or CLP 4414.

A course on how to identify functions of behavior; collect and analyze data; identify and conduct approaches for functional assessment; identify, select, and implement functional interventions; and identify monitoring procedures and ethical considerations.

## **MHS 4203 Practical Skills-Children's Behavioral Healthcare (3) BC CFS**

PR: MHS 4490

Students will apply system of care values and principles to children's behavioral health services in the assessment of family needs and strengths, working with teams to achieve goals, and development, implementation and evaluation of support plans.

## **MHS 4206 Applied Behavioral Analysis in Autism and Development Disabilities (3) BC CFS**

PR: MSH 4202.

ABA in Autism and Developmental Disabilities covers the history of autism and developmental disabilities, developmental milestones, skills assessment, developing programs, verbal behavior, and programming for generalization and maintenance.

## **MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment (3) BC MHL**

PR: MHS 3411

This course explores exemplary clinical practices in public behavioral health service delivery. Best or exemplary practices are defined as those that have both a track record and their efficacy has been empirically validated. Modules may begin with a historical perspective of the treatment of a specific population or a treatment strategy but will primarily focus on emerging methodologies.

## **MHS 4412 Research Methods and Ethical Issues in Behavior Analysis (3) BC CFS**

PR: MHS 4202.

How to identify ethical principles and practices in behavior analysis as well as how to implement various single subject research and group designs; write literature reviews and research proposals; and complete the IRB process.

## **MHS 4425 Field Experience in Behavioral Healthcare CPST (3) BC MHL**

PR: MHS 3411, MHS 4002, MHS 4408

This experiential class allows the student to observe and participate with multidisciplinary staff of a provider agency. The student will attend team meetings, observe individual, group, and case management services. Assignments will be made to maximize the student's time investment in the field. Observations and experiences will be discussed in biweekly class meetings. Students are required to spend 120 hours (an average of 8 hours per week for 15 weeks) in an agency. Advisor approval required two months in advance of semester.

## **MHS 4434 Behavioral Health and the Family (3) BC REH**

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) BC MHL**

This unrestricted course is designed to introduce the topic of co-occurring disorders, impart their knowledge and understanding, and teach skills needed to apply for and obtain employment in behavioral healthcare. It is not repeatable for credit.

## **MHS 4453 Applied Psychopharmacology in Drug Abuse and Dependency (3) BC MHL**

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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) BC MHL**

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) BC MHL**

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) BC CFS**

Students explore the psychological and social factors contributing to suicide-related behaviors. Lectures, group activities, and guest speakers help students better understand the dynamics of suicide and the processes of assessment and interventions.

## **MHS 4490 Behavioral Healthcare Issues for Children (3) BC CFS**

Students explore children's mental health field & systems of care for children and their families. Lectures, group activities, & guest speakers help examine children's mental health treatment, service delivery, case management, & wraparound processes.

## **MHS 4703 Legal, Ethical and Professional Issues in BHC (3) BC MHL**

Behavioral healthcare professionals are expected to adhere to professional codes and respect legal rights of clients. Course investigates legal and ethical issues that influence the practice and helps students develop skills in ethical decision-making.

## **MHS 4731 Writing for Research and Publication in Behavioral and Community Sciences WRIN 6AC (3) BC MHL**

This course is a writing intensive exit course that fulfills the Gordon rule requirement. Students will develop a research problem statement, complete a literature review, and learn to prepare manuscripts for publication.

## **MHS 4741 Applied Research Methods (3) BC MHL**

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) ED EDF**

Specialized independent study determined by the student's needs and interests.

## **MHS 4906 Directed Study (1-4) BC MHL**

Directed study. Student must have a contract with an instructor.

## **MHS 4912 Independent Research in Behavioral Health (1-4) BC MHL**

PR: 1 course in statistics; 1 course in research methods.

Students will conduct an independent research project in behavioral health (mental health and/or substance abuse) under the guidance of a faculty mentor. May be repeated for maximum of 8 credits.

## **MHS 4931 Selected Topics (1-3) BC MHL**

The course content will depend on student demand and instructor's interest. The course may be repeated for different topics up to 9 hours.

## **MHS 4943 Practicum Seminar in Applied Behavior (3) BC CFS**

CPR: MHS 4202 and Intervention Planning in ABA.

How to find a quality placement in the community in order to become certified as an Assistant Behavior Analyst, navigate the Behavior Analyst Certification Board process, and receive training on current ABA technologies.

## **MHS 5020 Foundations of Mental Health Counseling (3) BC REH**

A skill-building course on the utilization of one's self in mental health counseling relationships. Includes study of the origin, history, professional functions and current issues in the discipline of mental health counseling.

## **MHS 5480 Human Growth and Development (3) BC REH**

Human development theory as applied in psychotherapy and case management rehabilitation, mental health, and addiction settings.

## **MHS 5721 BRIDGE Proseminar I (2) BC MHL**

This course is designed to provide students with the necessary skills for successfully applying for and transitioning into a graduate training program in the social and behavioral sciences.

## **MHS 5722 BRIDGE Pro Seminar II (2) BC MHL**

Provide students with the skills for successfully transitioning to a graduate program in behavioral and social sciences. It will also provide knowledge that can be applied to the mentored research project being conducted as part of the BRIDGE certificate.

## **MHS 5745 Applied Qualitative Research Methods (3) BC MHL**

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.

## **MHS 5746 Applied Quantitative Research Methods (3) BC MHL**

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Reviews quantitative research methods while focusing on the application of such concepts in real research contexts preparing students to understand the nature assumptions processes and ethical application of quantitative methodology.

## **MHS 5889 BRIDGE Community Field Experience (2) BC MHL**

Provide students with the skills for successfully transitioning to a graduate program in behavioral and social sciences It will also provide knowledge that can be applied to the mentored research project being conducted as part of the BRIDGE certificate.

## **MHS 5905 Directed Studies (1-4) ED EDF**

Independent studies on a selected topic.

## **MLS 4038 Introduction to Medical Technology (1-2) AS CHM**

A hospital clinical course on principles and methods of medical technology, including professional ethics, safety regulations, quality control, phlebotomy, medical terminology, labor.

## **MLS 4860 Clinical Urinalysis and Body Fluids (2) AS CHM**

A hospital clinical course on laboratory methodology and diagnosis using urine and other fluids such as semen, spinal, pleural, peritoneal, and joint fluids.

## **MLS 4861 Clinical Immunology (2) AS CHM**

A hospital clinical course on the tissues, cells, and molecules of the human immune system, emphasizing the detection of serum antibodies and disease states.

## **MLS 4862 Clinical Hematology (6) AS CHM**

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.

## **MLS 4863 Clinical Microbiology (6) AS CHM**

A hospital clinical course emphasizing pathogens responsible for diseases in man, including morphology, physiology, and laboratory diagnosis of bacteria, fungi, parasites, and viruses.

## **MLS 4864 Clinical Chemistry (6) AS CHM**

A hospital clinical course on the analysis of chemical substances found in the body as related to the diagnosis of human disease, including topics such as instrumentation, electrophoresis, therapeutic drug-monitoring assays, tumor markers, and toxicology.

## **MLS 4865 Clinical Immunohematology (6) AS CHM**

A hospital clinical course on blood and tissue typing, including blood group systems, transfusion associated diseases, HLA testing, and preparation of blood and blood components for transfusion therapy.

## **MLS 4866 Clinical Laboratory Management and Education (1) AS CHM**

A hospital clinical course on concepts of laboratory management, including personnel

staffing, reimbursements, quality assurance, and regulatory issues, and clinical education techniques, including writing, lecture presentation, and evaluation.

## **MMC 2100 Writing for the Mass Media (3) AS COM**

PR: grade of "C" in ENC 1101, ENC 1102

An introduction to the basic skills of writing for the mass media with practice in library research, persuasive writing, and informational writing.

## **MMC 3140 Web Publishing (3) AS COM**

PR: JOU 2100, MMC 2100, MMC 3602, VIC 3001.

Course is intended for those with little previous Web design/publishing experience. Course will introduce students to the basic topics, nomenclature, pragmatics, and mechanics involved in Web publishing. Restricted to majors; not repeatable for credit.

## **MMC 3602 Mass Communications and Society CASB HHCP (3) AS COM**

A survey of the history, theory, processes, and philosophy of mass communications and the mass media in the United States, and their relationship to the other major institutions of American society.

## **MMC 4200 History and Principles of Communications Law (3) AS COM**

PR: MMC 2100 and MMC 3602.

Historical and constitutional backgrounds of freedom and control of expression, statutory enactments, major court decisions and administrative rulings which affect print media, telecommunications, advertising, public relations, and new media.

## **MMC 4203 Communication Ethics (3) AS COM**

PR: MMC 2100 and MMC 3602

A study of the fundamental principles and philosophies of ethics and their application to the decision-making process in the various professions of mass communications.

## **MMC 4420 Research Methods in Mass Communications (3) AS COM**

PR: MMC 2100 and MMC 3602.

An introduction to the theory and practice of quantitative and historical research methods as applicable to the study of media and mass communications. Emphasis on survey research, evaluation of data, and report writing.

## **MMC 4900 Directed Reading in Mass Communications (1-3) AS COM**

Reading and directed study in special topics.

## **MMC 4910 Individual Research in Mass Communications (1-3) AS COM**

The course provides means for a student to do independent study in an area not covered by a numbered course.

## **MMC 4936 Selected Topics in Mass Communications Studies (1-3) AS COM**

PR: MMC 2100, MMC 3602

Courses designed to meet current or specific topics of interest to instructors and students.

## **MMC 4945 Internship (1-3) AS COM**

# COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

Students work for an employer within the field of mass communication to practice skills and apply knowledge.

## **MSL 1001C Leadership and Personal Development (2) US MIS**

Introduces to personal challenges & competencies critical to effective leadership; teaches personal development life skills relative to leadership, officership, & Army profession; focuses on gaining understanding of ROTC Program & its purpose in Army.

## **MSL 1002C Introduction to Tactical Leadership (2) US MIS**

Presents leadership basics (eg: setting direction, problem-solving, listening, giving feedback & use of effective writing skills); explores dimensions of leadership values, attributes, skills & actions in context of practical hands-on exercises.

## **MSL 2101C Innovative Team Leadership (2) US MIS**

Explores creative & innovative tactical leadership strategies & styles. Develops knowledge of leadership values & attributes by understanding Army rank, structure, & duties. Broadens knowledge of land navigation & squad tactics.

## **MSL 2102C Foundations of Tactical Leadership (2) US MIS**

Examines challenges of leading tactical teams in complex current operating environment; highlights dimensions of terrain analysis, patrolling & operation orders; develops greater self-awareness, communication & team building skills.

## **MSL 2900 Army Physical Readiness (1) US MIS**

This course will train students in the unique role of Army physical readiness in sustaining military operations. It will also prepare students to plan, prepare, and conduct military fitness training. Repeatable for 8 semesters, but only 4 credit hours will be counted toward the program.

## **MSL 2901 Basic Leader Training (4) US MIS**

A 35 day internship at Fort Knox, Kentucky that incorporates a wide range of military subjects designed to develop/evaluate leadership and officer potential. The course is intentionally stressful and designed to build individual confidence through the accomplishment of tough and demanding training. Students completing the course may qualify for entry into the ROTC Advanced Course.

## **MSL 3201C Adaptive Team Leadership (3) US MIS**

Challenges to study, practice, & evaluate adaptive team leadership skills as demands of the ROTC LDAC are presented. Uses challenging scenarios to develop self-awareness & critical thinking skills. Provides specific feedback on leadership abilities.

## **MSL 3202C Leadership in Changing Environments (3) US MIS**

Challenges to study, practice, & evaluate adaptive leadership skills 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) US MIS**

Develops ability to plan, & assess complex operations, functioning as member of a staff; provides performance feedback to subordinates; gives opportunities to assess risk, make ethical decisions, & lead fellow cadets; prepares in becoming Army officer.

## **MSL 4302C Leadership in a Complex World (3) US MIS**

Explores dynamics of leadership in complex situations of current military operations in current operating environment; examines differences in courtesies, military law, principles of war & rules of engagement in face of international terror & more.

## **MSL 4930 Advanced Directed Study and Research (1-3) US MIS**

Intensive individual study in a particular aspect of military science that is not covered in regular course offerings. Request for enrollment must be made prior to registration in the form of a written proposal.

## **MTG 3207 Geometry Connections (3) AS MTH**

PR: Calculus I.

This course will provide prospective teachers with experiences in geometry that will help them develop the specialized content knowledge needed to support the teaching of mathematics in middle level education

## **MTG 3212 Geometry 6AM (3) AS MTH**

PR: MAC 2311

Emphasis on axiomatics, advanced Euclidean geometry, elements of projective geometry, non-Euclidean geometry.

## **MTG 4214 Modern Geometry 6AM (3) AS MTH**

CPR: MAS 4301

Topics will be selected from modern plane geometry. Mobius geometry, elliptic and hyperbolic geometry.

## **MTG 4254 Differential Geometry (3) AS MTH**

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 4302 Introduction to Topology 6AM (3) AS MTH**

PR: MAC 2313 and MAS 3105.

Metric spaces, completeness, topological spaces, subspaces, product spaces, continuity, homeomorphisms, connectedness, compactness, separation axioms, countability axioms.

## **MTG 5256 Differential Geometry (3) AS MTH**

PR: MAA 4211, MAS 3105.

Exterior calculus, differentiable manifolds, integration of differential forms, surfaces in 3-space, covariant derivative, curvature, matrix groups.

# COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

## **MTG 5316 Topology I (3) AS MTH**

PR: MAA 4211.

Topological spaces, continuity, homeomorphisms, connectedness, compact spaces, separation axioms, product spaces.

## **MTG 5317 Topology II (3) AS MTH**

PR: MTG 5316.

The fundamental group; elements of homotopy theory and homology theory.

## **MUC 1211 Freshman Composition and Instrumentation 1 (2) FA MUS**

Introduction to Composition is a skill-building course designed for freshman music composition majors. Students will study techniques to ideate, compose, orchestrate, notate and obtain documented performances of their music. (Majors only--not repeatable).

## **MUC 1212 Freshman Composition and Instrumentation 2 (2) FA MUS**

PR: MUC 1211.

Introduction to Composition is a skill-building course designed for freshman music composition majors. Students will study techniques to ideate, compose, orchestrate, notate and obtain documented performances of their music. (Majors only--not repeatable).

## **MUC 2221 Sophomore Composition and Instrumentation 1 (2) FA MUS**

PR: MUC 1212.

Students will complete two large-scale chamber works (continuing to learn to orchestrate for strings and winds), two business-oriented projects, lead a discussion based on the writing of a selected composer, and explore major pieces from the literature.

## **MUC 2222 Sophomore Composition and Instrumentation 2 (2) FA MUS**

PR: MUC 1212.

Sophomore Composition is a two-semester course which requires each student to complete two pieces per semester, two business-oriented projects, lead a discussion based on the writing of a selected composer, and explore major pieces from the literature.

## **MUC 2301 Introduction To Electronic Music CAFA (3) FA MUS**

History and repertory of electronic music; standard sound studio techniques; basic electronics as applied in electronic sound synthesis; mathematics for music, composition and electronic music.

## **MUC 3231 Junior Composition and Instrumentation 1 (2) FA MUS**

PR: MUC 2222.

A skill-building course designed for junior music composition majors. Students will compose music, notate and orchestrate it and obtain a performance of 2 large-scale pieces, one for large wind ensemble.

## **MUC 3232 Junior Composition and Instrumentation 2 (2) FA MUS**

PR: MUC 3231.

A skill-building course designed for junior music composition majors. Students will compose music, notate and orchestrate it and obtain a performance of it. Students will begin writing for large ensembles, e.g. wind ensemble and choir.

## **MUC 3401 Electronic Music-Analog Synthesis I (3) FA MUS**

PR: MUC 2301

Composition for tape medium with analog synthesizers; use of sound recording studio; repertory or analog music synthesis; technical basis of analog systems design and construction.

## **MUC 3402 Electronic Music-Analog Synthesis II (3) FA MUS**

PR: MUC 2301

Composition for tape medium with analog synthesizers; use of sound recording studio; repertory or analog music synthesis; technical basis of analog systems design and construction.

## **MUC 3441 Electronic Music-Digital Synthesis I (3) FA MUS**

PR: MUC 3401 or MUC 3402

Computer assisted composition for conventional instruments; composition for tape medium with computer controlled analog synthesizers; direct digital synthesis; digital systems design and construction.

## **MUC 3442 Electronic Music-Digital Synthesis II (3) FA MUS**

PR: MUC 3401 or MUC 3402

Computer assisted composition for conventional instruments; composition for tape medium with computer controlled analog synthesizers; direct digital synthesis; digital systems design and construction.

## **MUC 4241 Senior Composition and Instrumentation (2) FA MUS**

PR: MUC 3232.

A one-semester course which requires each student to complete two pieces, seven business-oriented projects, lead a discussion based on the writing of a selected composer, and explore major pieces from the literature.

## **MUC 4403 Electronic Music-Real-Time Performance I (3) FA MUS**

PR: MUC 3402 and MUC 3442 or equivalent.

Composition for analog/digital equipment, performance applications; sound synthesis, interfacing electronics with conventional instruments.

## **MUC 4404 Electronic Music-Real-Time Performance II (3) FA MUS**

PR: MUC 3402 and MUC 3442 or equivalent.

Composition for analog/digital equipment, performance applications; sound synthesis, interfacing electronics with conventional instruments.

## **MUC 4620 Jazz Composition (3) FA MUS**

PR: MUT 3354

# COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

Private instruction in original jazz composition. Required of All Jazz Studies Comp. majors, minimum six of hours.

**MUC 4950 Senior Recital/Project/Portfolio Presentation (2) FA MUS**

PR: MUC 4241.

This is course is a "capstone"-type of experience requiring 8th-semester senior to produce and promote 2 concerts: one of his or her own music (on campus), and one with other seniors to be held off campus. A portfolio/database presentation is also required.

**MUC 5625 Jazz Composition (2) FA MUS**

Private instruction in original composition.

**MUE 2090 Foundations of Music Education (3) FA MUS**

The course is designed to investigate music education practices in the schools. Through the experience and information offered in this course a student will be able to determine his/her commitment to professional music education.

**MUE 3414 Creative Performance Chamber Ensemble (1) FA MUS**

PR: MUE 2090.

CR: MUE 3424 or MUE 3425.

This course will provide students opportunities to apply concepts of informal learning, gained through various course work, in a non-traditional, student directed, music education performance setting. The course is repeatable for a total of four credits.

**MUE 3421 Choral Techniques (1) FA MUS**

A study of choral materials in a laboratory setting appropriate to elementary and secondary school music programs. Course content will change each semester.

**MUE 3422 Wind Techniques (1) FA MUS**

PR: MUG 3104

A two-semester sequence intended to equip music education students with basic performance, pedagogical, and rehearsal techniques, applicable to brass and woodwind instruments and ensembles.

**MUE 3423 String Techniques (1) FA MUS**

A study of orchestra materials, in a laboratory setting, appropriate to elementary and secondary school music programs. Course content will change each semester.

**MUE 3424 Progressive Music Education Methods I (3) FA MUS**

PR: MUE 2090

CR: Creative Performance Chamber Ensemble. This course will provide students a grounding in methods for music education settings outside the traditional general, band, choir and string programs.

**MUE 3425 Progressive Music Education Methods II (3) FA MUS**

PR: MUE 3424.

CR: MUE 3414.

This course will provide students a further grounding in methods for music education settings outside the traditional general, band, choir and string programs.

**MUE 3475 Percussion Techniques (1) FA MUS**

Introduction to percussion pedagogy for the music educator.

**MUE 3930 Music Education Forum (1) FA MUS**

Discuss MusEd professional organizations (MENC, CMENC, ISME, etc.). Students join CMENC and attend the FMEA conference. Add'l topics: classroom management, school safety, professional ethics, education law, and MusEd for special students. Required for MusEd majors 4 semesters @ 1 credit hour per term.

**MUE 4311 General Music Methods (3) FA MUS**

PR: MUE 2090

This course will consist of theoretical and practical training in teaching General Music Education K-12. It will include the study of philosophies, strategies and methodologies in contemporary General Music Education used in the USA and internationally.

**MUE 4331 Choral Methods (3) FA MUS**

Development and implementation of methods techniques for teaching secondary school choral music.

**MUE 4332 Instrumental Methods (3) FA MUS**

PR: MUE 2450, MUE 2460, MVP 1211.

Development and implementation of methods techniques for teaching secondary school instrumental music.

**MUE 4480 Special Ensemble Methods (2) FA MUS**

This course is restricted to majors and is repeatable for up to 6 credits.

**MUE 4936 Senior Seminar In Music WRIN 6AC (3) FA MUS**

CR: MUE 4940

Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

**MUE 4940 Internship: Music Education CPST (6-10) FA MUS**

CR: MUE 4936

One full semester of internship in public or private elementary and secondary schools. Restricted to majors. May not be repeated for credit.

**MUG 3104 Basic Conducting (2) FA MUS**

The study and practical application of basic conducting techniques. Development of skills related to the conducting of musical scores.

**MUG 3108 Advanced Conducting (2) FA MUS**

PR: MUG 3104.

Provides USF music education majors with a competency-based lab experience in conducting while placing an emphasis on developing advanced skills necessary to lead an ensemble in rehearsal and performance. Restricted to Music Education Majors.

**MUG 4302 Instrumental Conducting (2) FA MUS**

PR: MUG 3404



# COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

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 CAFA HHCP (3) FA MUS**

A study of the history of rock music: its roots, regions and countries of origin, evolution, styles, influences, social/cultural context, etc. Blues and rock are particularly American forms of music, but they reflect ancient practice as well.

**MUH 2051 Folk And Traditional Music Of World Cultures CAFA (3) FA MUS**

A comparative survey of the stylistic traits and functions of folk and traditional music, both sacred and secular, of diverse Western and non-Western cultures. For non-majors and music education majors; may be taken by applied music majors.

**MUH 2632 Music In The United States (3) FA MUS**

Designed for majors and non-majors, this course will use live performances, videotapes, and recordings to illustrate music as practiced in America from Colonial to present times. Included in the course will be study of the contributions of various ethnic/minority groups, and discussions of the relevant social issues connected with these contributions.

**MUH 3016 Survey Of Jazz CAFA (3) FA MUS**

This course introduces undergraduate students to Jazz music. Students will study historical, cultural and social issues associated with the evolution of jazz music and learn to hear and discern specific musical traits found in jazz music.

**MUH 3300 Music History/Medieval And Renaissance (2) FA MUS**

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) FA MUS**

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) FA MUS**

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) FA MUS**

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 WRIN 6AC (3) FA MUS**

This course explores works by twentieth-century composers that define aspects of American life. We will examine a diverse selection of pieces and genres ranging from traditional European art music forms to jazz, rock, and hip hop.

**MUH 4801 History Of Jazz (3) FA MUS**

PR: MUT 1112

An in-depth study of the historical development of Jazz, including the representative musical literature and sociological implications.

**MUL 2010 Music and Culture 6AC SGEH (3)**

This course is intended to expose students to a variety of music and musical experiences through lecture, discussion, and direct experience involving critical listening. Students will enhance their awareness of the various elements, origins, and developments in music, as well as enrich critical thinking skills related to evaluating music. Students will prepare critiques of music performances in writing. By the end of the course, the student should have the background for appreciating the major genres of music, as well as having an enhanced ability to appreciate the various primary elements of any musical creation and /or performance.

**MUL 2111 Introduction To Music Literature 6AC (3) FA MUS**

PR: MUT 1112

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 (2-3) FA MUS**

Lectures and live performances by artist faculty of significant works from the literature for the piano; analysis and illustration in performance of the abstract and aesthetic elements in music which vitally concern the artist-performer.

**MUL 3011 Western Art Music in Your Life CAFA (3) FA MUS**

A study in the art of music and its materials, designed to develop an understanding of basic principles of music and a technique for listening to music.

**MUL 3600 Vocal Literature - Undergraduate (2) FA MUS**

PR: Four terms of studio grade.

Open to all USF undergraduate vocal performance majors that have completed four terms of vocal study with a passing grade. Other students may petition to enroll with the approval of the instructor. Provides a survey of standard vocal literature.

**MUN 1100 University Pep Band and Winter Guard (1-3) FA MUS**

Auditions for Pep Band are required for students who did not march in the Fall. Auditions for Winter Guard are required for all members.

**MUN 1110 University Marching Band (1-3) FA MUS**

# COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

This course provides performance experiences with the Marching Band. The course is open to any major area.

## **MUN 1120 Concert Band (1) FA MUS**

The concert band provides music majors and non-major enthusiasts the opportunity to rehearse and perform quality wind band literature under the direction of multiple conductors. The course can be taken multiple years for one credit each time.

## **MUN 1439 Tuba-Euphonium Ensemble (1) FA MUS**

Course is a vital/required performance outlet for all USF tuba/euphonium majors. Repertoire & class size provide for personalized instruction/dynamic musical growth. Non-majors may enroll. Course is repeatable for credit- total 8 credits

## **MUN 3133 Symphonic Band (1) FA MUS**

The Symphonic Band fosters the highest performance standards of wind and percussion literature. Although made up primarily of music majors, the course is open to all university students by comprehensive auditions. It is repeatable for up to 8 credits.

## **MUN 3143 Wind Ensemble (1) FA MUS**

Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments.

## **MUN 3213 University Orchestra (1) FA MUS**

Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments.

## **MUN 3313 University Singers (1) FA MUS**

Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments.

## **MUN 3323 Bel Canto Women's Choir (1) FA MUS**

Open to all university students with the necessary proficiency in their performing media (singing); study and performance of treble-voice music and treble-voice music in combination with, string, woodwind, brass, or percussion instruments.

## **MUN 3333 Singing Stampede (1) FA MUS**

Open to all university students with the necessary proficiency in their performing media (singing); study and performance of male-chorus music and male-chorus music in combination with string, woodwind, brass, or percussion instruments.

## **MUN 3343 Chamber Singers (1) FA MUS**

Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

## **MUN 3383 University-Community Chorus (1) FA MUS**

Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments.

## **MUN 3411 String Quartet (1) FA MUS**

Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

## **MUN 3420 Saxophone Ensemble (1) FA MUS**

Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

## **MUN 3421 Flute Choir (1) FA MUS**

Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

## **MUN 3424 Woodwind Quintet (1) FA MUS**

Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

## **MUN 3427 Flute Choir (1) FA MUS**

Flute Choir will rehearse and perform new and standard repertoire for flute ensemble. Students will learn to perform on all members of the flute family including piccolo, C flute, alto and bass flute.

## **MUN 3431 Brass Quintet (1) FA MUS**

Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

## **MUN 3433 Brass Choir (1) FA MUS**

Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

## **MUN 3443 Percussion Ensemble (1) FA MUS**

Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

## **MUN 3444 Marimba Ensemble (1) FA MUS**

Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

## **MUN 3453 Piano Ensemble (1) FA MUS**

# COURSE DESCRIPTIONS

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Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments.

## **MUN 3474 Collegium Musicum (1) FA MUS**

Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

## **MUN 3713 Jazz Ensemble (1) FA MUS**

Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments.

## **MUN 3714 Jazz Chamber Ensemble (1) FA MUS**

Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

## **MUO 3503 Opera Workshop (1) FA MUS**

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.

## **MUS 2010 Recital Attendance (0) FA MUS**

This course is required whenever a student registers for applied music. The requirement for the successful completion of the course is attendance at ten (10) department-approved recitals/concerts throughout the semester.

## **MUS 2201 Language Diction For Singers (1) FA MUS**

Specialized study in Language Diction for Singers. Specific language varies, to be arranged at each course offering.

## **MUS 4801 Mind-Body Integration for Musicians (2) FA MUS**

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.

## **MUS 4905 Directed Study (1-4) FA MUS**

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) FA MUS**

The content of the course will be governed by student demand and instructor interest.

## **MUS 4931 Selected Studio Topics In Music (1-3) FA MUS**

The content of the course will be governed by student demand and instructor interest.

## **MUS 4935 Music Senior Seminar (1) FA MUS**

To aid majors to understand, appraise and perfect their own art through critical and aesthetic judgments of their colleagues.

## **MUS 5905 Directed Study (1-4) FA MUS**

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) FA MUS**

Open to non-music majors; development of skills in hearing and performing music and in basic notation. Will not count as degree credit for music majors.

## **MUT 1111 Music Theory I (3) FA MUS**

Required of music majors; development of skills in perceiving and writing music through the use of aural and visual analysis and examples from all historical periods of music literature.

## **MUT 1112 Music Theory II (3) FA MUS**

PR: MUT 1111

Required of music majors; development of skills in perceiving and writing music through the use of aural and visual analysis and examples from all historical periods of music literature.

## **MUT 1241 Aural Theory I (1) FA MUS**

CR: MUT 1111, MUT 1112.

Course designed to begin training in aural recognition and vocal realization of materials used in music composition. Includes rhythmic, melodic and harmonic dictation, and sight singing.

## **MUT 1242 Aural Theory II (1) FA MUS**

PR: MUT 1241

Course designed to begin training in aural recognition and vocal realization of materials used in music composition. Includes rhythmic, melodic and harmonic dictation, and sight singing.

## **MUT 2116 Music Theory III (3) FA MUS**

PR: MUT 1112

Required of music majors, continuation of MUT 1111 and 1112.

## **MUT 2117 Music Theory IV (3) FA MUS**

PR: MUT 2116

Required of music majors, continuation of MUT 1111, 1112, and 2116.

## **MUT 2246 Aural Theory III (1) FA MUS**

PR: MUT 1242

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 2247 Aural Theory IV (1) FA MUS**

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) FA MUS**

PR: MUT 1112

# COURSE DESCRIPTIONS

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- A study of jazz improvisational techniques and related jazz theory.
- MUT 2642 Jazz Theory And Improvisation II (2) FA MUS**  
PR: MUT 2641  
A study of jazz improvisational techniques and related jazz theory.
- MUT 3353 Jazz Composition and Arranging I (3) FA MUS**  
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) FA MUS**  
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) FA MUS**  
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) FA MUS**  
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) FA MUS**  
Intensive study and practice in scoring music for various combinations of instruments, including symphony orchestra, band, and smaller ensembles of string, woodwind, brass, and percussion instruments.
- MUT 4311 Orchestration II (2) FA MUS**  
PR: MUT 4310  
Intensive study and practice in scoring music for various combinations of instruments, including symphony orchestra, band, and smaller ensembles of string, woodwind, brass, and percussion instruments.
- MUT 4421 Eighteenth Century Practice (3) FA MUS**  
PR: MUT 2117  
An intensive study of the contrapuntal practice of the 18th century; development of skills in perceiving and writing music in the style of the period through the use of aural and visual analysis.
- MUT 4571 Twentieth Century Practice (3) FA MUS**  
PR: MUT 2117  
A study of 20th century theoretical concepts; development of skills in perceiving and writing music in contemporary styles through the use of aural and visual analysis.
- MUT 4611 Form and Analysis (3) FA MUS**  
PR: MUT 1111, MUT 1112, MUT 1241, MUT 1242, MUT 2116, MUT 2117, MUT 2246, MUT 2247  
This course teaches students to think critically, speak, and write fluently about music, music analysis, and how these processes relate to the work done in rehearsals or studios via various inquiry-based learning strategies.
- MVB 1211 Applied Trumpet (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
- MVB 1212 Applied French Horn (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
- MVB 1213 Applied Trombone (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
- MVB 1214 Applied Euphonium (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
- MVB 1215 Applied Tuba (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
- MVB 1311 Trumpet Principal (2) FA MUS**  
Private and class instruction.
- MVB 1312 French Horn Principal (2) FA MUS**  
Private and class instruction.
- MVB 1313 Trombone Principal (2) FA MUS**  
Private and class instruction.
- MVB 1314 Euphonium Principal (2) FA MUS**  
Private and class instruction.
- MVB 1315 Tuba Principal (2) FA MUS**  
Private and class instruction.
- MVB 1411 Trumpet Major (3) FA MUS**  
Private and class instruction.
- MVB 1412 French Horn Major (3) FA MUS**

# COURSE DESCRIPTIONS

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- Private and class instruction.  
**MVB 1413 Trombone Major (3) FA MUS**  
Private and class instruction.
- MVB 1414 Euphonium Major (3) FA MUS**  
Private and class instruction.
- MVB 1415 Tuba Major (3) FA MUS**  
Private and class instruction.
- MVB 2321 Trumpet Principal (2) FA MUS**  
Private and class instruction.
- MVB 2322 French Horn Principal (2) FA MUS**  
Private and class instruction.
- MVB 2323 Trombone Principal (2) FA MUS**  
Private and class instruction.
- MVB 2324 Euphonium Principal (2) FA MUS**  
Private and class instruction.
- MVB 2325 Tuba Principal (2) FA MUS**  
Private and class instruction.
- MVB 2421 Trumpet Major (3) FA MUS**  
Private and class instruction.
- MVB 2422 French Horn Major (3) FA MUS**  
Private and class instruction.
- MVB 2423 Trombone Major (3) FA MUS**  
Private and class instruction.
- MVB 2424 Euphonium Major (3) FA MUS**  
Private and class instruction.
- MVB 2425 Tuba Major (3) FA MUS**  
Private and class instruction.
- MVB 3331 Trumpet Principal (2) FA MUS**  
Private and class instruction.
- MVB 3332 French Horn Principal (2) FA MUS**  
Private and class instruction.
- MVB 3333 Trombone Principal (2) FA MUS**  
Private and class instruction.
- MVB 3334 Euphonium Principal (2) FA MUS**  
Private and class instruction.
- MVB 3335 Tuba Principal (2) FA MUS**  
Private and class instruction.
- MVB 3431 Trumpet Major (3) FA MUS**  
Private and class instruction.
- MVB 3432 French Horn Major (3) FA MUS**  
Private and class instruction.
- MVB 3433 Trombone Major (3) FA MUS**  
Private and class instruction.
- MVB 3434 Euphonium Major (3) FA MUS**  
Private and class instruction.
- MVB 3435 Tuba Major (3) FA MUS**  
Private and class instruction.
- MVB 4341 Trumpet Principal (2) FA MUS**  
Private and class instruction.
- MVB 4342 French Horn Principal (2) FA MUS**  
Private and class instruction.
- MVB 4343 Trombone Principal (2) FA MUS**  
Private and class instruction.
- MVB 4344 Euphonium Principal (2) FA MUS**  
Private and class instruction.
- MVB 4345 Tuba Principal (2) FA MUS**  
Private and class instruction.
- MVB 4441 Trumpet Major (3) FA MUS**  
Private and class instruction.
- MVB 4442 French Horn Major (3) FA MUS**  
Private and class instruction.
- MVB 4443 Trombone Major (3) FA MUS**  
Private and class instruction.
- MVB 4444 Euphonium Major (3) FA MUS**  
Private and class instruction.
- MVB 4445 Tuba Major (3) FA MUS**  
Private and class instruction.
- MVB 5251 Applied Trumpet (2-4) FA MUS**  
Private and class instruction.
- MVB 5252 Applied French Horn (2-4) FA MUS**  
Private and class instruction.
- MVB 5253 Applied Trombone (2-4) FA MUS**  
Private and class instruction.
- MVB 5254 Applied Euphonium (2-4) FA MUS**  
Private and class instruction.
- MVB 5255 Applied Tuba (2-4) FA MUS**  
Private and class instruction.
- MVJ 1210 Applied Jazz Piano (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
- MVJ 1213 Applied Jazz Guitar (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
- MVJ 1214 Applied Jazz Bass (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
- MVJ 1219 Jazz Percussion (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
- MVJ 1310 Applied Jazz Piano Principal (2) FA MUS**  
Private and class instruction.
- MVJ 1313 Jazz Guitar Principal (2) FA MUS**  
Private and class instruction.
- MVJ 1314 Jazz Bass Principal (2) FA MUS**  
Private and class instruction.
- MVJ 1319 Applied Jazz Percussion Principal (2) FA MUS**  
Private and class instruction.
- MVJ 1410 Applied Jazz Piano Major (3) FA MUS**  
Private and class instruction.
- MVJ 1413 Jazz Guitar Major (3) FA MUS**  
Private and class instruction.
- MVJ 1414 Jazz Bass Major (3) FA MUS**  
Private and class instruction.
- MVJ 1419 Jazz Percussion Major (3) FA MUS**

# COURSE DESCRIPTIONS

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- Applied instruction for Jazz Percussion Majors, Freshman level Restricted to Majors Repeatable,(9 credits total) Applied Jazz Lessons are specialized performance studies designed to improve student instrumental, stylistic and improvisational skills.
- MVJ 2110 Jazz Keyboard Skills (2) FA MUS**  
PR: MUT 2641.  
For jazz studies majors (non pianists). Students will learn jazz chord voicings, comping rhythms, and develop appropriate piano technique to be able perform simple melodies and bass lines.
- MVJ 2320 Applied Jazz Piano Principal (2) FA MUS**  
Private and class instruction.
- MVJ 2323 Jazz Guitar Principal (2) FA MUS**  
Private and class instruction.
- MVJ 2324 Jazz Bass Principal (2) FA MUS**  
Private and class instruction.
- MVJ 2329 Applied Jazz Percussion Principal (2) FA MUS**  
Private and class instruction.
- MVJ 2420 Applied Jazz Piano Major (3) FA MUS**  
Private and class instruction.
- MVJ 2423 Jazz Guitar Major (3) FA MUS**  
Private and class instruction.
- MVJ 2424 Jazz Bass Major (3) FA MUS**  
Private and class instruction.
- MVJ 2425 Jazz Percussion Major (3) FA MUS**  
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) FA MUS**  
Private and class instruction.
- MVJ 3333 Jazz Guitar Principal (2) FA MUS**  
Private and class instruction.
- MVJ 3334 Jazz Bass Principal (2) FA MUS**  
Private and class instruction.
- MVJ 3339 Applied Jazz Percussion Principal (2) FA MUS**  
Private and class instruction.
- MVJ 3430 Applied Jazz Piano Major (3) FA MUS**  
Private and class instruction.
- MVJ 3433 Jazz Guitar Major (3) FA MUS**  
Private and class instruction.
- MVJ 3434 Jazz Bass Major (3) FA MUS**  
Private and class instruction.
- MVJ 3439 Applied Jazz Percussion (3) FA MUS**  
Private and class instruction.
- MVJ 4340 Jazz Piano Principal (2) FA MUS**  
Private and class instruction.
- MVJ 4343 Jazz Guitar Principal (2) FA MUS**  
Private and class instruction.
- MVJ 4344 Jazz Bass Principal (2) FA MUS**  
Private and class instruction.
- MVJ 4349 Jazz Percussion Principal (2) FA MUS**  
Private and class instruction.
- MVJ 4440 Jazz Piano Major (3) FA MUS**  
Private and class instruction.
- MVJ 4443 Jazz Guitar Major (3) FA MUS**  
Private and class instruction.
- MVJ 4444 Jazz Bass Major (3) FA MUS**  
Private and class instruction.
- MVJ 4449 Jazz Percussion Major (3) FA MUS**  
Private and class instruction.
- MVJ 4950 Applied Jazz Performance (3) FA MUS**  
PR: MUT 2642  
Necessary competency at junior level determined by faculty jury examination. Private and class instruction.
- MVJ 5250 Applied Jazz Piano Secondary (2) FA MUS**  
Private and class instruction.
- MVJ 5252 Applied Jazz Bass Secondary (2) FA MUS**  
Private and class instruction.
- MVJ 5253 Applied Jazz Guitar Secondary (2) FA MUS**  
Private and class instruction.
- MVJ 5254 Applied Jazz Bass Secondary (2) FA MUS**  
Private and class instruction.
- MVJ 5259 Applied Jazz Percussion Secondary (2) FA MUS**  
Private and class instruction.
- MVJ 5951 Applied Jazz Performance (2) FA MUS**  
Private and class instruction.
- MVK 1111 Keyboard Skills I (2) FA MUS**  
Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.
- MVK 1121 Keyboard Skills II (2) FA MUS**  
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.
- MVK 1211 Applied Piano (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
- MVK 1311 Piano Principal (2) FA MUS**  
Private and class instruction.
- MVK 1411 Piano Major (3) FA MUS**  
Private and class instruction.
- MVK 1811 Beginning Piano I (2) FA MUS**  
Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition,

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- harmonization, basic technique, and appropriate literature.
- MVK 2111 Keyboard Skills III (2) FA MUS**  
PR: MVK 1121  
Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.
- MVK 2121 Keyboard Skills IV (2) FA MUS**  
PR: MVK 2111  
Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.
- MVK 2321 Piano Principal (2) FA MUS**  
Private and class instruction.
- MVK 2421 Piano Major (3) FA MUS**  
Private and class instruction.
- MVK 3111 Music Majors, Level V (2) FA MUS**  
Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.
- MVK 3331 Piano Principal (2) FA MUS**  
Private and class instruction.
- MVK 3431 Piano Major (3) FA MUS**  
Private and class instruction.
- MVK 4341 Piano Principal (2) FA MUS**  
Private and class instruction.
- MVK 4441 Piano Major (3) FA MUS**  
Private and class instruction.
- MVK 4640 Piano Pedagogy I (3) FA MUS**  
May be elected by undergraduate music majors; emphasis on the business management of the music studio, and the musical responsibilities of the studio teacher, the techniques of private instruction.
- MVK 4641 Piano Pedagogy II (3) FA MUS**  
PR: MVK 4640  
May be elected by undergraduate music majors; emphasis on the business management of the music studio, and the musical responsibilities of the studio teacher, the techniques of private instruction.
- MVK 5251 Applied Piano (2-4) FA MUS**  
Private and class instruction.
- MVP 1211 Applied Percussion (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
- MVP 1311 Percussion Principal (2) FA MUS**  
Private and class instruction.
- MVP 1411 Percussion Major (3) FA MUS**  
Private and class instruction.
- MVP 2321 Percussion Principal (2) FA MUS**  
Private and class instruction.
- MVP 2421 Percussion Major (3) FA MUS**  
Private and class instruction.
- MVP 3331 Percussion Principal (2) FA MUS**  
Private and class instruction.
- MVP 3431 Percussion Major (3) FA MUS**  
Private and class instruction.
- MVP 4341 Percussion Principal (2) FA MUS**  
Private and class instruction.
- MVP 4441 Percussion Major (3) FA MUS**  
Private and class instruction.
- MVP 5251 Applied Percussion, Secondary (2-4) FA MUS**  
Required of all applied music majors. Private and class instruction.
- MVS 1211 Applied Violin (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
- MVS 1212 Applied Viola (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
- MVS 1213 Applied Violoncello (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
- MVS 1214 Applied Double Bass (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
- MVS 1311 Violin Principal (2) FA MUS**  
Private and class instruction.
- MVS 1312 Viola Principal (2) FA MUS**  
Private and class instruction.
- MVS 1313 Violoncello Principal (2) FA MUS**  
Private and class instruction.
- MVS 1314 Double Bass Principal (2) FA MUS**  
Private and class instruction.
- MVS 1411 Violin Major (3) FA MUS**  
Private and class instruction.
- MVS 1412 Viola Major (3) FA MUS**  
Private and class instruction.
- MVS 1413 Cello Major (3) FA MUS**  
Private and class instruction.
- MVS 1414 Double Bass Major (3) FA MUS**

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- Private and class instruction.  
**MVS 2321 Violin Principal (2) FA MUS**  
Private and class instruction.
- MVS 2322 Viola Principal (2) FA MUS**  
Private and class instruction.
- MVS 2323 Violoncello Principal (2) FA MUS**  
Private and class instruction.
- MVS 2324 Double Bass Principal (2) FA MUS**  
Private and class instruction.
- MVS 2421 Violin Major (3) FA MUS**  
Private and class instruction.
- MVS 2422 Viola Major (3) FA MUS**  
Private and class instruction.
- MVS 2423 Cello Major (3) FA MUS**  
Private and class instruction.
- MVS 2424 Double Bass Major (3) FA MUS**  
Private and class instruction.
- MVS 3331 Violin Principal (2) FA MUS**  
Private and class instruction.
- MVS 3332 Viola Principal (2) FA MUS**  
Private and class instruction.
- MVS 3333 Violoncello Principal (2) FA MUS**  
Private and class instruction.
- MVS 3334 Double Bass Principal (2) FA MUS**  
Private and class instruction.
- MVS 3431 Violin Major (3) FA MUS**  
Private and class instruction.
- MVS 3432 Viola Major (3) FA MUS**  
Private and class instruction.
- MVS 3433 Cello Major (3) FA MUS**  
Private and class instruction.
- MVS 3434 Double Bass Major (3) FA MUS**  
Private and class instruction.
- MVS 4341 Violin Principal (2) FA MUS**  
Private and class instruction.
- MVS 4342 Viola Principal (2) FA MUS**  
Private and class instruction.
- MVS 4343 Violoncello Principal (2) FA MUS**  
Private and class instruction.
- MVS 4344 Double Bass Principal (2) FA MUS**  
Private and class instruction.
- MVS 4441 Violin Major (3) FA MUS**  
Private and class instruction.
- MVS 4442 Viola Major (3) FA MUS**  
Private and class instruction.
- MVS 4443 Cello Major (3) FA MUS**  
Private and class instruction.
- MVS 4444 Double Bass Major (3) FA MUS**  
Private and class instruction.
- MVS 5251 Applied Violin (2-4) FA MUS**  
Private and class instruction.
- MVS 5252 Applied Viola (2-4) FA MUS**  
Private and class instruction.
- MVS 5253 Applied Cello (2-4) FA MUS**  
Private and class instruction.
- MVS 5254 Applied Double Bass (2-4) FA MUS**  
Private and class instruction.
- MVV 1211 Applied Voice (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
- MVV 1311 Voice Principal (2) FA MUS**  
Private and class instruction.
- MVV 1411 Voice Major (3) FA MUS**  
Private and class instruction.
- MVV 2321 Voice Principal (2) FA MUS**  
Private and class instruction.
- MVV 2421 Voice Major (3) FA MUS**  
Private and class instruction.
- MVV 3331 Voice Principal (2) FA MUS**  
Private and class instruction.
- MVV 3431 Voice Major (3) FA MUS**  
Private and class instruction.
- MVV 3630 Vocal Pedagogy - Undergraduate (2) FA MUS**  
PR: Four terms of studio voice.  
Open to USF undergraduate vocal performance majors that have completed four terms of vocal study (passing grade). Other students may petition to enroll with the approval of the instructor. Covers the fundamental principles of the teaching of singing.
- MVV 4341 Voice Principal (2) FA MUS**  
Private and class instruction.
- MVV 4441 Voice Major (3) FA MUS**  
Private and class instruction.
- MVV 5251 Applied Voice (2-4) FA MUS**  
Private and class instruction.
- MVW 1211 Applied Flute (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
- MVW 1212 Applied Oboe (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
- MVW 1213 Applied Clarinet (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
- MVW 1214 Applied Bassoon (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
- MVW 1215 Applied Saxophone (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain



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- 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) FA MUS**  
Private and class instruction.
- MVW 1312 Oboe Principal (2) FA MUS**  
Private and class instruction.
- MVW 1313 Clarinet Principal (2) FA MUS**  
Private and class instruction.
- MVW 1314 Bassoon Principal (2) FA MUS**  
Private and class instruction.
- MVW 1315 Saxophone Principal (2) FA MUS**  
Private and class instruction.
- MVW 1411 Flute Major (3) FA MUS**  
Private and class instruction.
- MVW 1412 Oboe Major (3) FA MUS**  
Private and class instruction.
- MVW 1413 Clarinet Major (3) FA MUS**  
Private and class instruction.
- MVW 1414 Bassoon Major (3) FA MUS**  
Private and class instruction.
- MVW 1415 Saxophone Major (3) FA MUS**  
Private and class instruction.
- MVW 2321 Flute Principal (2) FA MUS**  
Private and class instruction.
- MVW 2322 Oboe Principal (2) FA MUS**  
Private and class instruction.
- MVW 2323 Clarinet Principal (2) FA MUS**  
Private and class instruction.
- MVW 2324 Bassoon Principal (2) FA MUS**  
Private and class instruction.
- MVW 2325 Saxophone Principal (2) FA MUS**  
Private and class instruction.
- MVW 2421 Flute Major (3) FA MUS**  
Private and class instruction.
- MVW 2422 Oboe Major (3) FA MUS**  
Private and class instruction.
- MVW 2423 Clarinet Major (3) FA MUS**  
Private and class instruction.
- MVW 2424 Bassoon Major (3) FA MUS**  
Private and class instruction.
- MVW 2425 Saxophone Major (3) FA MUS**  
Private and class instruction.
- MVW 3331 Flute Principal (2) FA MUS**  
Private and class instruction.
- MVW 3332 Oboe Principal (2) FA MUS**  
Private and class instruction.
- MVW 3333 Clarinet Principal (2) FA MUS**  
Private and class instruction.
- MVW 3334 Bassoon Principal (2) FA MUS**  
Private and class instruction.
- MVW 3335 Saxophone Principal (2) FA MUS**  
Private and class instruction.
- MVW 3431 Flute Major (3) FA MUS**  
Private and class instruction.
- MVW 3432 Oboe Major (3) FA MUS**  
Private and class instruction.
- MVW 3433 Clarinet Major (3) FA MUS**  
Private and class instruction.
- MVW 3434 Bassoon Major (3) FA MUS**  
Private and class instruction.
- MVW 3435 Saxophone Major (3) FA MUS**  
Private and class instruction.
- MVW 4341 Flute Principal (2) FA MUS**  
Private and class instruction.
- MVW 4342 Oboe Principal (2) FA MUS**  
Private and class instruction.
- MVW 4343 Clarinet Principal (2) FA MUS**  
Private and class instruction.
- MVW 4344 Bassoon Principal (2) FA MUS**  
Private and class instruction.
- MVW 4345 Saxophone Principal (2) FA MUS**  
Private and class instruction.
- MVW 4441 Flute Major (3) FA MUS**  
Private and class instruction.
- MVW 4442 Oboe Major (3) FA MUS**  
Private and class instruction.
- MVW 4443 Clarinet Major (3) FA MUS**  
Private and class instruction.
- MVW 4444 Bassoon Major (3) FA MUS**  
Private and class instruction.
- MVW 4445 Saxophone Major (3) FA MUS**  
Private and class instruction.
- MVW 5251 Applied Flute (2-4) FA MUS**  
Private and class instruction.
- MVW 5252 Applied Oboe (2-4) FA MUS**  
Private and class instruction.
- MVW 5253 Applied Clarinet (2-4) FA MUS**  
Private and class instruction.
- MVW 5254 Applied Bassoon (2-4) FA MUS**  
Private and class instruction.
- MVW 5255 Applied Saxophone (2-4) FA MUS**  
Private and class instruction.
- NGR 5871 Informatics in Nursing and Healthcare (3) NR NUR**  
Foundations course with emphasis on essential content and applications in healthcare informatics and clinical systems. Provides understanding of the interdisciplinary issues in medical and nursing informatics and a foundation for those seeking expertise in healthcare informatics. Focus on technologies in healthcare, nomenclatures and classification systems, health care documentation, electronic medical records, and web-based technologies for healthcare.
- NSC 1101L Naval Science Laboratory (0) US NAVY**  
A weekly two-hour laboratory covering professional and military subject matter. Attendance is mandatory for all midshipmen.
- NSC 1110 Introduction to Naval Science (3) US NAVY**  
Emphasis on the mission, organization, regulations and components of the U.S. Navy and Marine Corps.
- NSC 1140 Sea Power and Maritime Affairs (3) US NAVY**  
This course deals with the importance of seapower in historical events, including emphasis on worldwide political-military confrontations following the cold war.
- NSC 2121 Naval Ships Systems I (3) US NAVY**

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- Types, structures & purpose of naval ships. Hydrodynamic forces, stability, compartmentalization, electrical, & auxiliary systems. Theory of design & operation of steam turbine, gas turbine, & nuclear propulsion plants. Shipboard safety & firefighting.
- NSC 2212C Navigation/Naval Operations I: Navigation (3) US NVC**  
Piloting and celestial navigation theory, principles, and procedures. Tides, currents, weather, use of navigation instruments and equipment, and practicum. Laboratory required.
- NSC 2220 Evolution of Warfare (3) US NVC**  
A survey of military history emphasizing principles of warfare, strategy and tactics, and significant military leaders and organizations.
- NSC 2231 Principles of Naval Management I (3) US NVC**  
Theory and principles of management, focusing on the officer-manager as an organizational decision maker. Includes interpersonal skills, behavior factors, and group dynamics.
- NSC 2931 Directed Study in Naval ROTC (1-3) US NVC**  
Intensive individualized study in particular aspects of Naval Science that are not covered in regular course offerings. Enrollment is recommended for NROTC students who are anticipating attending the Naval Science Institute in Newport, RI, during sophomore/junior summer. Course content and title may vary from term to term.
- NSC 3123 Naval Ships Systems II (3) US NVC**  
PR: NSC 2121.  
Capabilities and limitations of fire control systems and weapons, radar and underwater sound for target acquisition, threat analysis, tracking, weapons selection, delivery, and guidance. Various aspects of explosives, fusing and Naval ordnance.
- NSC 3214C Navigation/Naval Operations II: Seamanship and Ship Operations (3) US NVC**  
PR: NSC 2212C.  
International and inland rules of the road; relative motion-vector analysis; ship handling, employment, and tactics, afloat communications; and operations analysis. Laboratory required.
- NSC 4224 Amphibious Warfare (3) US NVC**  
History of amphibious warfare emphasizing doctrine and techniques as well as an understanding of the interrelations of political, strategic, operational, tactical, and technical levels of war from the past.
- NSC 4232 Principles of Naval Management II (Leadership and Ethics) (3) US NVC**  
PR: NSC 2231.  
Integration of professional competencies and qualities of effective leadership with emphasis on moral and ethical responsibilities, accountability, communications and military law for the junior officer.
- NSP 3147 Web-Based Education for Staff Development (3) NR NUR**  
This course provides the learner with the knowledge and skills to facilitate the development of web-based educational materials for nursing and healthcare staff.
- NSP 3640 Introduction to Military and Veteran Healthcare (3) NR NUR**  
This course will provide an introduction to the military/veteran culture and the healthcare needs and concerns related to this unique population.
- NSP 3880 Foundations of Healthcare QI & Patient Safety (3) NR NUR**  
PR: NUR 3078, NUR 3805, NUR 4895C.  
Provides foundational principles, concepts and methods for promoting and improving healthcare quality and patient safety at the micro-, meso-, and macro-system levels with a focus on application at the micro-system level.
- NSP 4095 Registered Nurse First Assistant Course (3) NR NUR**  
This course will provide a foundation of knowledge and technical skills necessary for the experienced preoperative registered nurse to function in the role of registered nurse first assistant (RNFA).
- NSP 4148 Simulation for Nursing Practice (3) NR NUR**  
This course is designed to explore the knowledge, skills, and competencies needed to develop, implement and evaluate the integration of simulation into nursing curriculum. It examines the educational theories and simulation framework.
- NSP 4485 An Interdisciplinary Perspective in HIV Disease 6AC (3) NR NUR**  
Provides an interdisciplinary perspective on HIV disease. Topics include the etiology, spectrum, and treatment of HIV disease; international perspectives; issues of race, gender, and ethnicity; values, ethics, and their influences on responses to HIV; and how the media has shaped the epidemic.
- NSP 4545 Substance Abuse Across the Lifespan 6AC (3) NR NUR**  
Introduction to concepts of substance abuse and theories of addiction. The applicability of theories and concepts of substance use/abuse to clinical assessment, diagnosis and intervention with client populations across the lifespan is explored.
- NSP 4614 Preventative Cardiology for Healthcare Professionals (3) NR NUR**  
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) NR NUR**  
This course provides the learner with theoretical foundations and skill to function in a nursing professional development position. Principles of

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adult education, communication skills and educational technological advances will be explored.

## **NSP 4881 Healthcare Human Resources Systems and Strategies (3) NR NUR**

This course will provide students with an understanding of systems and strategies necessary to effectively manage human resources in healthcare settings. Quality clinical care is dependent on effectively recruiting, retaining and developing staff.

## **NUR 3026 Fundamentals of Nursing Practice and Foundations for Clinical Judgment (4) NR NUR**

PR: NUR 3145

CR: NUR 3026L and NUR 3066.

Fundamentals of Nursing Practice and Foundations for Clinical Judgment. Focus is on developing critical thinking and communication skills when applying concepts of health to meet the basic needs of the individual across the life span from within the context of the family.

## **NUR 3026L Nursing Fundamentals Clinical (4) NR NUR**

CR: NUR 3026 and NUR 3066.

Clinical experiences in the fundamentals of nursing practice and foundations for clinical judgment. Focus is on developing effective communication and critical thinking in applying nursing process, physical assessment, and concepts of health and illness.

## **NUR 3066 Physical Examination and Assessment (2) NR NUR**

CR: NUR 3026, NUR 3026L.

Focus is on the use of techniques and instruments necessary for the examination of infants, children and adults. Emphasizes assessment phase of critical thinking to enable student to perform evaluations of health status throughout the lifespan.

## **NUR 3066L Clinical Experience in Health Assessment - RN (1) NR NUR**

CR: NUR 3066.

Clinical experience on history taking, physical assessment skills basic to biopsychosocial assessment and physical examination of adults and children. Emphasizes diagnostic reasoning and identification of alteration in functional health patterns.

## **NUR 3078 Information Technology Skills for Nurses (1) NR NUR**

CR: NUR 3805.

Introduction to information technology in order to enhance efforts and improve communication in the classroom and workplace environment. Focuses on developing technical skills and knowledge.

## **NUR 3081 Bridge to Professional Nursing (3) NR NUR**

This course assists the transition of military medic/corpsmen to professional registered nursing practice. Addresses clinical reasoning &

communication skills when applying concepts of health to nursing needs of individuals & families across the lifespan.

## **NUR 3081L Bridge to Professional Nursing Practice (2) NR NUR**

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.

## **NUR 3125 Pathophysiology for Nursing Practice (4) NR NUR**

Central concepts of pathophysiology: cells, tissues, organs and systems. Provides essential knowledge base in pathophysiology across the lifespan for professional nursing practice.

## **NUR 3145 Pharmacology in Nursing Practice (3) NR NUR**

CPR: NUR 3125.

Focus on the basic and clinical concepts of pharmacology in nursing practice. Examines pharmacotherapeutics; pharmacodynamics; pharmacokinetics; adverse reactions and contraindications; therapeutic indications and nursing implications.

## **NUR 3215 Medical Surgical Nursing I (3) NR NUR**

PR: NUR 3026, NUR 3026L, NUR 3066, NUR 3125, NUR 3145

CR: NUR 3215 or NGR 5580L.

Focuses on nursing assessment, prevention, and management of selected health care problems in adults of all ages. Critical thinking is used to analyze the effects of changes in health status and impact of nursing intervention for: patients with alteration in Fluid and Electrolyte Balance, Hematologic System, Integumentary and Immunologic System, Cardiovascular System, Pulmonary System, Musculoskeletal, Sensory System (Visual/Auditory). Patient teaching is incorporated for each topic.

## **NUR 3215L Medical Surgical Nursing Clinical I (4) NR NUR**

PR: NUR 3026, NUR 3026L, NUR 3066, NUR 3125, NUR 3145

CR: NUR 3215.

Clinical intervention for patients with selected health problems. Emphasize clinical judgment in implementing therapeutic nursing interventions for patients with selected health problems related to specific abnormalities in functional patterns.

## **NUR 3535 Psychiatric/Mental Health Nursing (3) NR NUR**

PR: NUR 3026, NUR 3026L, NUR 3066, NUR 3125, NUR 3145

CR: NUR 3535L.

Explores mind, body, and spirit alterations in functional health patterns experienced by patients with acute and chronic mental illness. Examines psychopathology, psychopharmacologic therapies and community resources and the role of the nurse in psychiatry.

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## **NUR 3535L Psychiatric/Mental Health Nursing**

### **Clinical (3) NR NUR**

PR: NUR 3026, NUR 3026L, NUR 3066, NUR 3125, NUR 3145  
CR: NUR 3535.

Focus on clinical intervention using critical thinking and communication skills with patients who require complex psychiatric rehabilitative care. Opportunities are offered to apply knowledge of psychopathology and psychopharmacologic therapies across the lifespan.

## **NUR 3678 Nursing Healthcare for Vulnerable Populations (3) NR NUR**

The course focuses on the cultural aspects of providing health-related care through experiential analysis of a selected program designed to serve a vulnerable population either here or abroad.

## **NUR 3805 Education Transitions for Registered Nurses (2) NR NUR**

Transitions the Registered Nurse to the professional nursing role using self-reflection to document learning achieved through past personal and professional experiences to plan for career advancement.

## **NUR 3826 Ethical Legal Aspects in Nursing and Health Care (2) NR NUR**

Introduction to contemporary bioethical and legal issues confronting health care providers in a variety of settings. Focuses on identification of legal and ethical principles underlying the decision-making process in nursing and health care.

## **NUR 3843 Problem Solving and Critical Thinking in Professional Nursing I (1) NR NUR**

The course introduces the theoretical component of problem solving & critical thinking in professional nursing. The focus is developing critical thinking skills specific to problem solving in professional nursing.

## **NUR 3844 Problem Solving and Critical Thinking in Professional Nursing II (1) NR NUR**

PR: NUR 3843.

This course provides the opportunity for students to demonstrate achievement in problem solving and critical thinking in the nursing curriculum. The focus is applying critical thinking skills specific to problem solving in professional nursing.

## **NUR 3875 Telehealth in Healthcare (1) NR NUR**

This online course prepares health care professionals on the use of telehealth in health care.

## **NUR 4069 Health Assessment for Registered Nurses (3) NR NUR**

PR: NUR 4634C, NUR 3805.

This course builds on the RN's previous knowledge and clinical expertise in developing health and physical assessment skills. The emphasis is on the analysis and synthesis of health assessment data as a basis for patient teaching.

## **NUR 4128 Pathophysiology/Pharmacology (3) NR NUR**

PR: NUR 4634C.

Updates pathophysiological and pharmacological concepts critical to clinical decision making in nursing. Focuses on commonly occurring disease processes.

## **NUR 4165 Nursing Inquiry WRIN 6AC (3) NR NUR**

An analysis of the research process. Emphasis on identification of researchable nursing problems and evaluations of research that is applicable to nursing practice. Focus on evidence-based practice for nursing.

## **NUR 4169C Evidence-Based Practice for Bacc Prepared Nurse WRIN 6AC (3) NR NUR**

PR: NUR 3078, NUR 3805, NUR 4895C.

This course provides the foundations of clinical inquiry, research methodology and critical appraisal in the synthesis of research findings for application in evidence-based nursing practice.

## **NUR 4216 Medical Surgical Nursing II (4) NR NUR**

PR: NUR 3026, NUR 3026L, NUR 3066, NUR 3125, NUR 3145, NUR 3215, NUR 3215L  
CR: NUR 4216L or NGR 5580L.

Assessment, prevention and management of selected health care problems. Analyze effects of changes and impact of nursing intervention in: Integumentary/Immune/ Cardiovascular/Pulmonary/Gastrointestinal/Genito urinary/Endocrine/Neurologic/Musculoskeletal.

## **NUR 4216L Medical Surgical Nursing Clinical II (5) NR NUR**

PR: NUR 3026, NUR 3026L, NUR 3066, NUR 3125, NUR 3145, NUR 3215, NUR 3215L.

Clinical intervention for patients with selected health problems. Emphasizes clinical judgment in implementing therapeutic nursing interventions for patients with complex health problems related to alterations in multiple functional health patterns.

## **NUR 4286 Geriatric Nursing: Population-based Perspectives on Nursing Care of Older Adults WRIN 6AC (3) NR NUR**

PR: NUR 3026, NUR 3066, NUR 3125, NUR 3145, NUR 3215.

CPR: NUR 4636, NUR 4636L.

Focuses on the development of core competencies necessary to provide holistic, evidence-based and culturally sensitive nursing care to older adults.

## **NUR 4355 Child and Adolescent Health Nursing (3) NR NUR**

PR: NUR 3215, NUR 3525 or NUR 3535, NUR 4216 and NUR 3215L, NUR 4216L and NUR 3525L or NUR 3535L or NGR 5580L.

CR: NUR 4455, NUR 4635L or NGR 5680L

CPR: NUR 4636.

This course will explore the nursing care of children and adolescents within the context of the family. Focus on health promotion, risk factor identification, disease prevention, and health restoration in children and adolescents.

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## **NUR 4455 Women's Health Nursing (2) NR NUR**

PR: NUR 3215, NUR 3525 or NUR 3535, NUR 4216 and NUR 3215L, NUR 4216L and NUR 3525/NUR 3535L or NGR 5580L.

CR: NUR 4355; CP: NUR 4635L or NGR 5680L, NUR 4636.

Focuses on the physiologic and psychosocial needs of women, newborns and families related to fertility and infertility, pregnancy and birth.

## **NUR 4467L Maternal and Pediatric Nursing Care Clinical (4) NR NUR**

PR: NUR 4216, NUR 4216L

CR: NUR 4355, NUR 4455.

Provides clinical experiences in diverse settings. Focuses on nursing care designed to prevent and reduce risk of disease and injury, promote health, and treat illness and injury in childbearing women, infants, children, adolescents and families.

## **NUR 4634C Population Health CPST (3) NR NUR**

PR: NUR 3078, NUR 4828C, NUR 3805, NUR 4169 NUR 4895C.

A synthesis of theory and epidemiology enabling students to promote health and wellness in populations. Current practices, policies, and laws will be explored in relation to environment, infectious disease, vulnerable populations and chronic illness.

## **NUR 4635L Integrated Nursing Clinical: Community/Public Health, Children and Adolescent Health, and Women's Health (3-7) NR NUR**

PR: NUR 4216, NUR 4216L.

CR: NUR 4455, NUR 4636, NUR 4355.

Provides clinical learning experiences in diverse community and hospital settings. Focuses on nursing care designed to prevent and/or reduce risk of disease and injury, promote health and wellness, and treat illness and injury in children, adolescents, adults and families, and diverse community populations across the age spectrum.

## **NUR 4636 Community/Public Health: Population-Focused Nursing CPST (3) NR NUR**

PR: NUR 3215, NUR 3525 or NUR 3535, NUR 4216 and NUR 3215L, NUR 4216L and NUR 3525L or NUR 3535L or NGR 5580L.

In-depth examination of community health nursing, public health, epidemiology, culture, and environment essential to preventing illness and injury and promoting and preserving health among diverse populations at risk.

## **NUR 4636L Community/Public Health Nursing Clinical (3) NR NUR**

PR: NUR 3215, NUR 3525 or NUR 3535, NUR 4216 and NUR 3215L, NUR 4216L and NUR 3525L or NUR 3535L

CR: NUR 4636;

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) NR NUR**

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) NR NUR**

Professional practice and principles of leadership and management for licensed RNs. Focuses on decision making and managing nursing care using multiple learning strategies for academic success. Clinical experiences build upon a practice background.

## **NUR 4827C Leadership and Management in Professional Nursing Practice (3) NR NUR**

PR: NUR 4216, NUR 4216L, NUR 4636, NUR 4636L

Principles of nursing leadership and management with an emphasis on decision-making, priority-setting, delegating, and managing nursing care. Focus on the preparation of the professional nurse to work collaboratively in the interdisciplinary healthcare environment. There will be in depth examination of process improvement with a focus on the quality indicator process. Clinical experiences for registered nurse students will be designed to build upon a practice background.

## **NUR 4828C Foundations of Nursing Healthcare Leadership & Mgm (3) NR NUR**

PR: NUR 3078, NUR 3805, NUR 4895C.

Provides an overview of leadership and management theories and competencies required in today's inter-disciplinary healthcare environment.

## **NUR 4850 Fundamentals of Healthcare Finance for RNs (3) NR NUR**

PR: NUR 3078, NUR 3805, NUR 4895C.

This course provides the learner with fundamental knowledge and tools to promote fiscal accountability and effectiveness when providing services as a direct care giver or nurse leader/manager.

## **NUR 4895 Educational Role of the Nurse in Healthcare (3) NR NUR**

CR: NUR 3805, NUR 3078.

Provides the learned with an opportunity to gain knowledge and skills to facilitate the teaching role of the nurse in educating patients and their families as well as nursing and health care staff.

## **NUR 4905C Independent Study (1-5) NR NUR**

Individual or group investigation of problems relevant to the health of individuals or groups. Project requirements individually planned with faculty preceptor.

## **NUR 4935 Selected Topics In Nursing (1-3) NR NUR**

Content will depend upon student demand and faculty interest and may focus on any area

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- relevant to nursing practice. May involve class, seminar, and/or clinical laboratory.
- NUR 4948L Preceptorship (6) NR NUR**  
PR: NUR 4216, NUR 4216L  
CPR: NUR 4636, NUR 4636L and NUR 4635L, NUR 4455, NUR 4355, NUR 4838.  
Individually contracted 150 hours of clinical practicum collaboratively planned by students, faculty, and agency personnel. Opportunity to synthesize theory and clinical practice for professional nursing.
- OCE 2001 Introduction to Oceanography CANP (3) MS MSC**  
This is a class in basic oceanography covering chemical (what is the sea made of), physical (tides, currents, waves), geological (ocean floor and coasts) and biological (all life in the oceans) aspects, and their interactions.
- OCE 4930 Selected Topics in Marine Science (1-3) MS MSC**  
Selected topics in marine science including marine biology, marine chemistry, marine geology and geophysics, physical oceanography, and interdisciplinary topics relating to marine environments.
- ORI 3004 Communication as Performance (3) AS SPE**  
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.
- ORI 3950 Communication As Performance Laboratory (1-3) AS SPE**  
PR: SPC 2608 AND COM 2000 AND ORI 3004, each with a grade of C or above  
The study, rehearsal, and performance of literature for Readers Theatre and Chamber Theatre productions.
- ORI 4019 Performing Identity and Culture (3) AS SPE**  
PR: ORI 3004.  
Focuses on theory and practice of identity and culture as performed in ritual, community, and aesthetic contexts. Majors only; nonmajors by permit only. May not be repeated for credit.
- ORI 4120 Performance of Poetry (3) AS SPE**  
PR: SPC 2608 AND COM 2000 AND ORI 3004, each with a grade of C or above  
Critical appreciation of lyric and narrative poetry and communication of that appreciation to audience. Study of poetic theory and prosodic techniques.
- ORI 4150 Performing Nonfiction (3) AS SPE**  
PR: ORI 3004.  
Explores the genre of nonfiction, including diaries, memoirs, travelogues, new journalism, personal essays, and weblogs, through performance. For majors; nonmajors by permit. May not be repeated for credit.
- ORI 4220 Performing Young Adult Literature (3) AS SPE**  
PR: ORI 3004.  
Performance of literature written for young adults with an emphasis on cultural values and beliefs. For majors; nonmajors by permit only. May not be repeated for credit.
- ORI 4310 Group Performance of Literature (3) AS SPE**  
PR: SPC 2608 AND COM 2000 AND ORI 3004, each with a grade of C or above  
Designed to introduce the student to and give experience in various forms of group approaches to performance.
- ORI 4320 Writing for Performance (3) AS SPE**  
PR: ORI 3004.  
Explores the intersection of writing and performance as aesthetic and communicative practices. For majors; nonmajors by permit only. May not be repeated for credit.
- ORI 4410 Performance Art (3) AS SPE**  
PR: ORI 3004.  
Explores history, criticism, and practice of performance art as a genre of performance. Restricted to majors; nonmajors with permit. Not repeatable for credit.
- ORI 4460 Performing Relationships (3) AS SPE**  
PR: ORI 3004.  
Explores interpersonal, organizational, and intercultural theories of human relationships as realized in literary texts through performance. For majors; nonmajors permit only. May not be repeated for credit.
- ORI 4931 Performance and Video (3) AS SPE**  
PR: ORI 3004  
This course features adaptation, direction, and performance of literature for video productions.
- ORI 5930 Topics in Performance Genres (3) AS SPE**  
Variable topics course.
- OSE 4601 Optical Product Technology (3) EN EGR**  
PR: EML 3500, 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.
- PAD 3003 Introduction to Public Administration (3) AS SPF**  
Examination of organizational behavior and change, policy process, public management, financial administration, and personnel management from the perspective of public and social delivery.
- PAD 4144 Nonprofit Organizations and Public Policy 6AC (3) AS SPF**  
Role and importance of third sector (voluntary) organizations in American society; focus on public policy through service in a voluntary organization.

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## **PAD 4204 Public Financial Administration (3) AS SPF**

Analysis of problems in the growth and development of public budgetary theory and Federal budgetary innovations.

## **PAD 4415 Personnel & Supervision in Today's Diverse Organizations (3) AS SPF**

Introduces students to concepts, principles and practices of personnel management and supervision that influence the attainment of desired performance goals in today's public and not-for profit organizations. Course participants will explore issues that influence the successful management of human resources in dynamic employment settings.

## **PAD 4712 Managing Information Resources in the Public Sector (3) AS SPF**

Introduces students to the fundamental concepts, theories, principles and practices in public information management. Internet access is required.

## **PAD 4930 Selected Topics in Public Administration and Public Policy (3) AS SPF**

Selected issues and topics in Public Administration and Public Policy with course content based on student demand and instructor's interest. May be repeated for up to 6 credits as topics vary.

## **PAD 5035 Issues in Public Administration and Public Policy (3) AS SPF**

Selected issues and topics in Public Administration and Public Policy.

## **PAD 5044 Environment of Public Administration (3) AS SPF**

Examination of the legal, political, and ethical environment in which public managers work.

## **PAD 5605 Administrative Law and Regulation (3) AS SPF**

An examination of the constitutional and statutory base and limitations of the administrative process, administrative adjudication, rule-making, and the judicial review of such actions. An examination of the Constitutional and statutory base and limitations of the administrative process, administrative adjudication, rule-making, and the judicial review of such actions. Attention is also directed to regulatory commissions, their functions, powers, management and relationship with other branches of government.

## **PAD 5700 Research Methods in Public Administration (3) AS SPF**

Research design; skills in public agencies. Must be prepared to demonstrate proficiency in EXCEL, Access, and other relevant software programs.

## **PAD 5807 Urban and Local Government Administration (3) AS SPF**

Analysis of the role of the administrator at the municipal level, the division of functions, policy formation, alternative governmental structures, effects on the administrative process.

## **PAD 5836 Comparative Public Administration (3) AS SPF**

How organizations and managers perform within a particular environment, potential impact of innovation, and how service is accomplished in a variety of socio-economic environments.

## **PCB 3023 Cell Biology (3) AS BCM**

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course or STA 2023.  
CPR: CHM 2210.

Cell Biology is the study of living properties of cells and encompasses a broad area of the life sciences that includes cellular physiology and life cycle, organelle structure and function, and biomolecular structure and function.

## **PCB 3023L Cell Biology Laboratory (1) AS BCM**

CPR: PCB 3023.

Laboratory portion of Cell Biology. Metabolic processes within the cell.

## **PCB 3043 Principles of Ecology (3) AS BIN**

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course or STA 2023.

An introduction to the basic principles and concepts of ecology at the ecosystem, community, and population level of organization. Lecture only.

## **PCB 3043L Principles of Ecology Laboratory (1) AS BIN**

CPR: PCB 3043.

Laboratory portion of PCB 3043, Principles of Ecology.

## **PCB 3063 General Genetics (3) AS BCM**

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course or STA 2023.  
CPR: CHM 2210.

Introduction to genetics including the fundamental concepts of Mendelian, molecular and population genetics. Lecture only.

## **PCB 3063L General Genetics Laboratory (1) AS BCM**

CPR: PCB 3063.

Laboratory investigation techniques in general genetics including Mendelian and non-Mendelian relationships, and gene interactions.

## **PCB 3712 General Physiology (3) AS BIN**

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L and CHM 2045, CHM 2046 and MAC 1105 or higher-level MAC course or STA 2023.

Comparative analysis of animal structure and function: organ systems and activities of body tissue and organs. Functional responses of plants to both internal and environmental signals lecture only.

## **PCB 3713L General Physiology Laboratory (1) AS BIN**

PR: PCB 3712.

Laboratory portion of General Physiology.

## **PCB 4024 Molecular Biology of the Cell (3) AS BCM**

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PR: PCB3023, PCB3063.

This lecture-based course will focus on advanced principles of molecular cell biology with emphasis on protein structure and function in key cellular pathways. The course is suitable for majors/nonmajors.

## **PCB 4026 Molecular Biology of the Gene (3) AS BCM**

PR: PCB3023, PCB3063.

This lecture-based course will provide fundamental knowledge of scientific concepts and principles of the molecular aspects of DNA metabolism in pro- and eukaryotes for majors/nonmajors.

## **PCB 4109 Cancer Biology (3) AS BCM**

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) AS BCM**

PR: PCB 3023 or PCB 3063 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.

Emphasis is on organization and functions of vertebrate immune system. Basic cellular and molecular mechanisms of immune responses in health and disease are addressed as well as the principles and applications of immunological methods. Lecture only.

## **PCB 4522C Experimental Genetics and Cell Biology (3) AS BCM**

PR: PCB 3023, PCB 3063 and PCB 3023L or PCB 3063L

This course will teach students how to utilize and integrate concepts from genetics and cell biology in a research laboratory environment using current scientific literature, model organisms and molecular techniques.

## **PCB 4663 Human Genetics (3) AS BCM**

PR: PCB3023, PCB3063.

A lecture-based course building upon principles introduced in Cell Biology and Genetics to explore advanced topics applied to human heredity and inherited disorders. Instruction includes problem solving, group activities, internet and individual projects.

## **PCB 4671 Molecular Evolution (3) AS BCM**

PR: PCB 3063.

The study of evolution at the molecular level and how it is applied to cell and molecular biology.

## **PCB 4674 Organic Evolution (3) AS BIN**

PR: PCB 3063.

An introduction to modern evolutionary theory. Lecture on population genetics, adaptations, speciation theory, phylogeny, human evolution and related areas. Lec.-dis.

## **PCB 4723 Animal Physiology (3) AS BIN**

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) AS BIN**

CR: PCB 4723.

Laboratory portion of Animal Physiology.

## **PCB 4744 Biomedical Physiology (3) AS BCM**

PR: PCB 3023

Detailed examination of mammalian physiology focusing on the cellular and molecular mechanisms that underlie and regulate physiological function.

## **PCB 4843 Principles of Neuroscience (3) AS BCM**

PR: PCB 4723 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and PHY 2053.

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) AS BCM**

PR: ZOO 4695.

Topics in modern developmental biology to be covered in lecture and through readings so as to gain a detailed understanding of cellular and molecular mechanisms of differentiation and pattern formation in various eukaryotic species for majors/non-majors

## **PCB 5307 Limnology (3) AS BIN**

PR: PCB 3043 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and PHY 2053.

CPR: CHM 2211.

An introduction to the physical, chemical, and biological nature of fresh-water environments. Lecture only.

## **PCB 5307L Limnology Laboratory (1) AS BIN**

CPR: PCB 5307.

Laboratory portion of Limnology. Laboratory and field experience in the area of aquatic ecology.

## **PCB 5616 Molecular Phlogenetics (3) AS BCM**

PR: PCB 3063.

Provides a theoretical (lecture) and practical (computer lab) framework to allow students to carry out phylogenetic analysis using molecular data. Majors or nonmajors.

## **PEL 1121 Golf I (2) ED EDJ**

Introductory experience in the sport of golf.

Fundamental skills, information, strategy, and participation.

## **PEL 1341 Tennis I (2) ED EDJ**



# COURSE DESCRIPTIONS

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- Introductory experiences in the sport of tennis. Basic skills, playing strategies, lecture, demonstration, and participation.
- PEL 2122 Golf II (2) ED EDJ**  
Continuation of PEL 1121. Emphasis on course play and refinement of strokes.
- PEL 2342 Tennis II (2) ED EDJ**  
Continuation of PEL 1314L. Refinement of basic skills, supplementary strokes, greater emphasis on tactics and playing strategies.
- PEL 2441 Racquetball (2) ED EDJ**  
Development and refinement of the skills and strategies of racquetball with opportunity for competition and tournament play.
- PEM 2131 Weight Training (2) ED EDJ**  
Knowledge and techniques necessary for increasing muscle function. Assessment of status and development of a personal program
- PEM 2441 Karate (2) ED EDJ**  
Introductory experiences in the sport of Karate. Fundamental skills, strategy, information, and participation.
- PEM 2930 Selected Topics (1-2) ED EDJ**  
Activities offered are selected to reflect student need and faculty interest.
- PEN 1121 Swimming I (2) ED EDJ**  
Development and refinement of the essential skills and information necessary for enjoying swimming. Emphasis on personal safety.
- PEN 2136 Skin & Scuba Diving (2) ED EDJ**  
PR: PEN 1121 or equivalent.  
Development of the essential skills and knowledge necessary for enjoying the sport of Skin & Scuba Diving. Correct utilization and care of equipment; emphasis on personal safety.
- PET 3031 Motor Behavior (3) ED EDP**  
Study of the assessment, evaluation and motor development performance of children and adolescents and application of principles of motor skills acquisition in physical education instruction. Open to non-majors.
- PET 3076 Fitness Across the Lifespan (3) ED EDP**  
This course will focus on the physiological changes of physical activity in children, adolescents and the elderly. Clinical rotations are part of the course. Restricted to majors. Cannot be repeated.
- PET 3211 Stress Management (2) ED EDP**  
This course will focus on the health and psycho 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) ED EDP**  
This course will focus on the structure and function of the skeletal and muscular systems as well as the mechanical principles related to motor performance.
- PET 3314 Professional Development Seminar (1) ED EDP**
- This course will introduce the student to the exercise science field. Focus will be on professional conduct, job opportunities, organizations, certifications, and trends/issues. Students will develop skills to critique fitness/wellness information.
- PET 3361 Nutrition for Fitness and Sport (3) ED EDP**  
This course will address weight management/weight loss, common diets, dietary supplements, ergogenic aids, and eating disorders. Content will focus on nutrition and weight management guidelines established by the American College of Sports Medicine.
- PET 3364 Physical Activity Epidemiology (3) ED EDP**  
A presentation of the background and main concepts of epidemiology and discussion and summary of original research. Major topics include coronary artery disease, cerebrovascular disease, peripheral vascular disease, diabetes, arthritis, and COPD.
- PET 3384 Exercise Testing and Prescription (3) ED EDP**  
In this course students will become proficient in performing a variety of exercise tests and prescribe appropriate exercises for aerobic capacity, muscular strength and endurance, body composition, flexibility and other parameters of physical fitness.
- PET 3404 Emergency Response and Planning (3) ED EDP**  
Students will develop emergency response knowledge and skills through ARC first aid emergency response, CPR/AED certifications and will proactively assess, develop and implement a plan of response for emergency situations in fitness/wellness centers.
- PET 3421 Curriculum and Instruction in Physical Education (3) ED EDP**  
Development of knowledge and skills related to the instruction process of physical education. Preparation of materials and planning instruction.
- PET 3441 Instructional Design and Content: Middle School Physical Education (3) ED EDP**  
The development of physical education content and instructional practices for middle school students. The focus is upon matching appropriate content and learning experiences to the unique needs of the pre- and early adolescent learner.
- PET 3640 Adapted Physical Education (3) ED EDP**  
A study of characteristics, programming needs and teaching of physical education for students with disabilities.
- PET 3713 Theory and Practice of Teaching Group Exercise (3) ED EDP**  
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.

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**PET 3931 Selected Topics in Sports Medicine (1-3) ED EDP**

Topics offered are selected to reflect student need and faculty interest.

**PET 3940 Practicum in Fitness/Wellness (3) ED EDP**

This course will provide the initial field experience in a community fitness/wellness center serving general populations. Students will gain practical experience with regard to teaching group exercise and conducting fitness testing and prescription.

**PET 4088 Individualized Fitness/Wellness Programming CPST (3) ED EDP**

In this course students will learn how to assess, evaluate, and design safe and effective programs for individual clients. Students will also learn how to incorporate appropriate activities for specialized clients or populations.

**PET 4093 Strength and Conditioning (3) ED EDP**

This course will provide students with the information necessary for designing and implementing a successful strength and conditioning program through assessment and analysis of fitness and sport movement.

**PET 4219 Exercise Psychology (3) ED EDP**

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) ED EDP**

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) ED EDP**

This course will examine the various classroom management approaches, professional ethics, school law, safety, and the organization and administration of physical education programs.

**PET 4402 Planning and Evaluating Fitness/Wellness Programs (3) ED EDP**

This course will focus on the design of high quality fitness/wellness programs in worksite and other settings. Students will learn and apply the major components of program planning – needs assessment, development, implementation, and evaluation.

**PET 4413 Administration of Fitness/Wellness Centers (3) ED EDP**

This course will examine management issues in the areas of human resources, budgeting, marketing, legal liability, and risk management. Students will develop skills to manage safe/effective programs and services in various fitness/wellness settings.

**PET 4432 Instructional Design and Content: Physical Education Elementary (3) ED EDP**

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) ED EDP**

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) ED EDP**

Development of knowledge and skills related to the teaching of selected movement activities such as team sports, gymnastics, and physical fitness. Focus is on understanding mechanical principles utilized within those activities as well as on instructional progression and the preparation of materials for instruction at the secondary school level.

**PET 4510 Measurement and Evaluation in Physical Education (3) ED EDP**

A study of the principles and techniques of educational measurement as applied to the teaching of physical education; study of the functions and techniques of measurement in the evaluation of student progress toward the objectives of physical education.

**PET 4550 Clinical Exercise Testing and Prescription (3) ED EDP**

A presentation of concepts related to the clinical aspects of fitness assessment and exercise programming. Clinical conditions that will be considered include: cardiovascular disease, pulmonary disease, metabolic disease, arthritis, and geriatrics.

**PET 4742 Secondary Physical Education Methods: Physical Act (3) ED EDP**

The course will prepare students to plan and conduct PE programs which meet National and State Content Standards related to physical activity, fitness, nutrition, and healthy living concepts. PE majors only. Not repeatable for credit.

**PET 4765 Scientific Principles of Athletic Coaching (3) ED EDP**

The application of principles from philosophy, psychology, sociology, and physiology to competitive athletics and coaching.

**PET 4820 Sport Skill Proficiency (2) ED EDP**

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) ED EDP**

Specialized independent study determined by the student's needs and interests.

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**PET 4929 Senior Seminar in Physical Education  
CPST (3) ED EDP**

CR: PET 4946 and PET 4947

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) ED  
EDP**

This course will provide the final field experience in a community fitness/wellness center serving both general and special populations. Practical experiences will focus on all aspects of program development, delivery, and management.

**PET 4942 Physical Education Pre-Internship:  
Elementary (3) ED EDP**

A part-time internship in elementary school physical education. Focus on the nature of the total elementary school curriculum, characteristics of students, and application of appropriate content and instructional competencies.

**PET 4944 Physical Education Pre-Internship:  
Secondary (3) ED EDP**

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) ED EDP**

A full-time internship in the elementary school in which the student undertakes the full range of teaching responsibilities in elementary physical education.

**PET 4947 Internship in Physical Education:  
Secondary (6) ED EDP**

A full-day internship in middle, junior or senior high school physical education programs with focus on the implementation of appropriate content and methodology to meet the needs of secondary students.

**PGY 2401C Beginning Photography (3) FA ART**

Introduction to the expressive possibilities of photographic media. Projects and assignments will introduce students to both traditional and experimental ways of working with light-sensitive materials with an emphasis on the interdependence of form, technique, and concept. The course will also provide an overview of significant trends and directions in contemporary art photography.

**PGY 3410C Intermediate Photography (3) FA ART**

PR: ART 2201C, ART 2203C, ART 2301C, ART 3310C, ARH 2050, ARH 2051, PGY 2401C.

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) AS COM**

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) AS COM**

PR: PGY 3610C. Laboratory required.

Advanced process and practice of photography for publication.

**PGY 3820C Digital Media I (3) FA ART**

This course builds upon the concepts introduced in Introduction to Multimedia Systems and focuses upon digital photographic creation and editing.

**PGY 3930C Special Topics: Photography (3) FA  
ART**

PR: ART 2201C, ART 2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, PGY 2401C, PGY 3410C.

A mid-level course expanding the student's visual and technical skills while establishing the beginning of a personal artistic direction by exposing the student to new ideas, technical skills and genres, including, but not limited to: color photography, digital photography, non-silver and documentary photography. Repeatable up to 9 hours.

**PGY 4420C Advanced Photography (3) FA ART**

PR: ART 3939, ARH 4450, ARH 4475C, PGY 3410C (3 cr.), PGY 3930C (9 cr.) and a 3.25 major GPA.

Continued problems in photography.

**PGY 4822C Digital Media II (3) FA ART**

This course builds upon the concepts introduced in Digital Media I and focuses upon digital photographic, web and digital video creation.

**PHC 3302 Introduction to Environmental &  
Occupational Health (3) PH EOH**

Introduces the principles of environmental health from a public health perspective. This course is designed for students with an interest in the environment, assessment of risk, human health issues, and control strategies to reduce health risks.

**PHC 3320 Environmental Health Science (3) PH  
EOH**

Introduces students to environmental health science topics in the context of their impact on human and public health. It is open to all major programs. It may not be repeated for credit.

**PHC 3721 Research Methods in Env and Occ  
Health (3) PH EOH**

The purpose of this course is to provide a broad overview of the instruments and techniques used in contemporary environmental and occupational health science. It is open to all major programs. It may not be repeated for credit.

**PHC 4030 Introduction to Epidemiology (3) PH  
EPB**

Course provides an overview of epidemiological methods and the application to understanding health- and non-health issues. Students will develop critical thinking skills and apply the

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concepts applied problems, both in and outside the field of health.

## **PHC 4031 Emerging Infectious Diseases (3) PH PHC**

This course addresses important infectious diseases and the principles of detection, diagnosis, prevention and control as well as the impact on public health. Students will presenting information on emerging infectious disease trends in group projects.

## **PHC 4032 Foundations of Infection Control (3) PH PHC**

This course is based on infection control competencies from the board certification in infection control exam. With successful completion of this course, students will demonstrate mastery and application of these principles to real-world situations.

## **PHC 4069 Biostatistics in Society (3) PH EPB**

This course exposes students to the role of biostatistics in advancing healthcare and improving health through landmark studies and cases in a wide range of fields, including clinical trials, epidemiology, environmental studies, and healthcare evaluation.

## **PHC 4101 Introduction to Public Health (3) PH PHC**

A survey of policies and programs in public/community health with emphasis on specific needs and problems of Florida.

## **PHC 4109 Public Health Biology (3) PH PHC**

This course offers a biological perspective on public health issues related to chronic and infectious diseases. This course provides an overview of basic biological concepts, molecular biology, and infectious and chronic diseases of public health concern.

## **PHC 4140 Introduction to Public Health Geographic Information Systems (3) PH PHC**

This course covers the theory and application of geographic information systems (GIS) for public health and includes an overview of the principles of GIS and its use.

## **PHC 4141 Intervention Program Planning and Management (3) PH CFH**

PR: PHC 4501

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) PH PHC**

This course is designed to develop or improve the skills of persons interested in providing emergency health services in global humanitarian emergencies for refugees and displaced populations.

## **PHC 4234 Public and Private Continuity Planning for Emergencies (3) PH PHC**

This course identifies, examines and integrates the diverse emergency management, crisis management, contingency planning, and organizational continuity, recovery and restoration issues facing public and private sector organizations.

## **PHC 4241 Psychology of Fear & Mental Health Issues Related to Disasters (3) PH PHC**

This course covers how emergency management better meets the needs of children, families, and communities after a disaster through well-timed targeted/response and interventions.

## **PHC 4250 Disaster Management: Ensuring Success & Avoiding Failure (3) PH GLO**

This course will analyze disasters and the types of lessons resulting from them. Students will explore the root causes of domestic and international disaster successes and failures. Students will also identify possible solutions to these failures.

## **PHC 4252 Int'l Post-disaster Recovery: Peacekeeping (3) PH GLO**

Examining post-disaster recovery and the effects of natural & man-made disasters on the population. This course looks at global programs and tactics aimed toward peacekeeping & peacebuilding to reduce future hostilities and improve living conditions.

## **PHC 4253 Int'l Humanitarian Crisis: Gender and Health (3) PH GLO**

Men/boys and women/girls experience the impact of a Humanitarian Crisis differently. This course examines key issues, principles and practices aimed toward understanding how individuals play a role in preventing, mitigating and responding to crisis.

## **PHC 4375 Community Participation in Homeland Security (3) PH PHC**

This course is intended as an introduction to the role of volunteers in emergency management.

## **PHC 4376 Disaster by Design: Exercise Development for Homeland Security Professionals (3) PH PHC**

This course is an introduction to the Homeland Security Exercise and Evaluation Program and will discuss the role of planning, training, and exercises in the context of organizational preparedness for emergency management related activities.

## **PHC 4406 Pop Culture, Vices and Epidemiology (3) PH EPB**

Encourages students to think how everyday things affect the public's health and safety. Topics in this class include: Alcohol, Sex, Coffee, Chocolate, Sleep and Tobacco. This class will cover health benefits and consequences of these things and more.

## **PHC 4501 Health Education Theory and Behavior (3) PH CFH**

Development of a basic understanding of the major theories and models focused on the

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- development, implementation, and evaluation of health education interventions.
- PHC 4542 Stress, Health and College Life (3) PH CFH**  
The purpose of this course is to examine the relationship between stress, as a multi-casual concept, health and disease. Focus areas include: the historical evolution and current theories of stress as they relate to types of stressors, physiological reactions and predisposition to disease, and techniques related to the recognition and prevention of an unhealthy level of stress.
- PHC 4582 Health Educ Methods, Communication, and Advocacy (3) PH CFH**  
PR: PHC 4501  
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 4592 Public Health Genetics (3) PH PHC**  
PR: BSC 1005 or BSC 1020.  
This course will introduce the fundamental principles of genetics to the field of public health by discussing basic concepts and how advances in human genetics, genomics and molecular biotechnology are to improve public health and prevent diseases.
- PHC 4720 Foundation to Professional Writing in Public Health WRIN 6AC (3) PH EPB**  
This course provides students the opportunity to learn about all aspects of professional writing techniques including grammar and spelling errors, writing styles, authorship, reference and citation systems, and guidance for scientific communication.
- PHC 4931 Health Care Ethics (3) PH EOH**  
This course provides the student with a broad overview of health care ethics. Will cover ethical issues that concern a wide variety of health professionals who are interested in clinical situations, as well as public health professionals and researchers.
- PHC 4942 Public Health Field Seminar (2-3) PH EPB**  
PR: PHC 4101.  
This course provides students with an overview of field experiences in public health. Representatives from public health organizations will speak about worksites. Students will observe public health professionals in their practice environment. Repeatable for a maximum of 12 credit hours.
- PHC 5933 Special Topics (1-3) PH PHC**  
Provides students the opportunity to learn about the multiple ways to view controversial topics in public health. It covers current public health topics including biomedical issues, social and behavioral factors, and environmental issues.
- PHH 3062 History of Western Philosophy: Ancient Philosophy (3) AS PHI**  
A survey of Western philosophy from the Pre-Socratics to Late Antiquity.
- PHH 3280 Medieval and Renaissance Philosophy (3) AS PHI**  
This course is a survey of medieval and early Renaissance philosophy in the Latin West, focusing on the thought of Augustine, Anselm, Peter Abelard, Thomas Aquinas, John Duns Scotus, and William Ockham.
- PHH 3400 History Of Philosophy - Modern (3) AS PHI**  
A survey of western philosophy from the end of the middle ages to the nineteenth century
- PHH 3420 Early Modern Philosophy (3) AS PHI**  
A survey of Western Philosophy from the end of the Renaissance to the beginnings of the Enlightenment.
- PHH 3442 Late Modern Philosophy (3) AS PHI**  
A survey of Western Philosophy during the Enlightenment.
- PHH 4440 Continental Philosophy (3) AS PHI**  
A study of developments in post-Kantian European philosophy.
- PHH 4600 Contemporary Philosophy 6AC (3) AS PHI**  
Selected schools of twentieth century thought such as idealism, positivism, pragmatism, realism, and existentialism.
- PHH 4700 American Philosophy 6AC (3) AS PHI**  
Major traditions in American thought, Puritanism, the Enlightenment, Transcendentalism, Idealism, Pragmatism, and Analytic Philosophy in relation to American culture.
- PHH 4820 Chinese Philosophy (3) AS PHI**  
A survey of Confucianism, Taoism and other aspects of Chinese thought. The course is available to both majors and non-majors and does not have laboratory sections associated with it.
- PHI 1103 Critical Thinking CASB 6AC (3) AS PHI**  
Critical thinking is the mind's faculty for catching its own (potential or actual) mistakes, and correcting its own misapprehensions. We will hone this faculty by practicing the critical evaluation of real-world decisions.
- PHI 1401 Science and Society CANP (3) AS PHI**  
As consumers of scientific information, it is our social obligation to understand how scientific knowledge comes about. This course is about the process of scientific inquiry, and about scientific knowledge as the product of such inquiry.
- PHI 1600 Introduction to Ethics CAHU HHCP (3) AS PHI**  
In order to promote reflection concerning how we should act and what kinds of people we should be, this course introduces students to ethical theories, concepts, problems, and methods.
- PHI 2010 Introduction to Philosophy CAHU 6AC SGEH (3) AS PHI**  
An introduction to several major themes in philosophy, as well as central philosophical concepts, texts, and methods.
- PHI 2101 Introduction to Formal Logic CAQR 6AM (3) AS PHI**

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- This course is an introduction to the basic terms, concepts, and methods of formal logic.
- PHI 2630 Contemporary Moral Issues (3) AS PHI**  
Open to all students. A study of contemporary moral issues concerning racism, sex, sexism, abortion, poverty, crime, war, suicide, and human rights in general.
- PHI 2631 Ethics and Business (3) AS PHI**  
An application of traditional ethical theories to contemporary problems in business.
- PHI 3130 Formal Logic CAQR 6AM (3) AS PHI**  
PR: PHI 2101 or MGF 1106 or MGF 1107 or one semester of calculus.  
A study of predicate calculus, predicate calculus with identity, formal semantics, and elementary metalogic. Strongly recommended for philosophy majors.
- PHI 3404 Philosophy of Science (3) AS PHI**  
How is science different from other methods of inquiry about the world? What distinguishes science from pseudoscience? From religion? How do we test scientific theories? What are the factors that lead scientists to accept a theory?
- PHI 3633 Biomedical Ethics (3) AS PHI**  
This course will focus on the ethical issues arising from advances in medical practice, delivery of health care, and scientific research.
- PHI 3636 Professional Ethics (3) AS PHI**  
An examination of the ethical problems that professionals will face in the complex, global society of the next few decades: confidentiality, divided loyalty, racism/sexism, etc.
- PHI 3640 Environmental Ethics (3) AS PHI**  
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 6AC (3) AS PHI**  
Analysis of religious experience and activity and examination of principal religious ideas in light of modern philosophy.
- PHI 3930 Selected Topics (1-3) AS PHI**  
Selected topics according to the needs of the student.
- PHI 4073 African Philosophy (3) AS PHI**  
A descriptive and analytical study of African philosophical thought, featuring reflective comparisons of African and Western categories of thought.
- PHI 4300 Theory of Knowledge 6AC (3) AS PHI**  
An examination of human knowledge; its scope and limits, and an evaluation of evidence, criteria of truth, the nature of belief, conditions for meaningfulness, theories of perception, and a study of memory and sense perception in the four major fields of nature, history, personal experience, and the a priori.
- PHI 4320 Philosophy of Mind WRIN 6AC (3) AS PHI**
- A study of historical and current issues in philosophy of mind, including the nature and status of mind, mind/body dualism, the relationship of mind and body, the problems of other minds, the physical basis for intelligence.
- PHI 4632 Feminist Ethics (3) AS PHI**  
A study of the varied approaches to moral reasoning taken by feminist ethical writers such as Wollstonecraft, Mill, Gilligan, Daly, Hoagland and others.
- PHI 4670 Contemporary Ethical Theory (3) AS PHI**  
A survey of contemporary ethical theory, focusing both on the literature about the status of ethical theorizing--moral skepticism, moral nihilism, narrative ethics--and on specific types of theories--deontological theories, consequentialist theories, rights-based theories, virtue theories.
- PHI 4800 Aesthetics 6AC (3) AS PHI**  
A study of traditional and contemporary aesthetic theories with emphasis on creative process, the nature of the art work, the aesthetic response, expressiveness, form and content, as well as art and morality.
- PHI 4905 Directed Study (1-4) AS PHI**  
Individual study directed by a faculty member.
- PHI 4930 Selected Topics (1-3) AS PHI**  
Selected topics according to the needs of the senior students.
- PHI 4938 Philosophy Capstone Seminar CPST 6AC (3) AS PHI**  
Exit course for philosophy majors. Topics will vary at instructor's discretion, but are expected to span conventional boundaries between the branches of philosophical inquiry.
- PHI 5135 Symbolic Logic (3) AS PHI**  
PR: PHI 2101  
Study of topics such as the following: Metatheory of propositional and predicate logic, related metatheoretic results, alternative logic.
- PHI 5225 Philosophy of Language (3) AS PHI**  
PR: Eight hours of philosophy  
An examination of semantically, syntactical, and functional theories of language with special attention given to the problems of meaning, linguistic reference, syntactical form, and the relations between scientific languages and ordinary linguistic usage. Seminar format.
- PHI 5913 Research (1-4) AS PHI**  
Individual research supervised by a faculty member.
- PHI 5934 Selected Topics (1-3) AS PHI**  
Selected topics according to the needs of the student.
- PHM 3020 Philosophies of Love and Sex (3) AS PHI**  
Discussion of Philosophies of Love/Sex of Plato, Aristotle, Epicurus, Aquinas, Hume, Kant, Schopenhauer, Russell, Sartre, Marx, etc.
- PHM 3100 Social Philosophy 6AC (3) AS PHI**  
An analysis of rival theories of social order and their philosophical foundations.

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**PHM 3400 Introduction to Philosophy of Law (3) AS PHI**

A study of the fundamental concepts of law from a philosophical standpoint including crime, justice, punishment, free speech, insanity.

**PHM 4120 Major Black Thinkers (3) AS AFA**

Survey of major themes and issues in African/African-American intellectual and political thought with an emphasis on theories of nationalism. Works of individuals such as Martin Delany, Booker T. Washington, W. E. B. DuBois, Marcus Garvey, Malcolm X, and Angela Davis are considered.

**PHM 4331 Modern Political Philosophy WRIN 6AC (3) AS PHI**

A survey of political philosophy from 1600 A.D. until 1900 A.D., including an examination of the ethical, metaphysical, and epistemological bases of these philosophies.

**PHM 4340 Contemporary Political Philosophy 6AC (3) AS PHI**

A survey of political philosophy in the twentieth century, including an examination of the ethical, metaphysical and epistemological bases of these philosophies.

**PHM 5126 Social Issues in Biomedical Ethics (3) AS PHI**

An examination of the social and political issues arising from rapid changes in medicine and technology. Topics covered may include social issues related to the just distribution of health care, reproductive technologies, HIV and AIDS, eugenics, genetic testing, and maternal-fetal relations.

**PHP 3786 Existentialism 6AC (3) AS PHI**

A study of the religious and atheistic existentialists and the bearing of their views on religion, ethics, metaphysics, and theory of knowledge.

**PHP 4000 Plato 6AC (3) AS PHI**

The examination of Plato will include the dialogues Protagoras, Georgias, Meno, Republic.

**PHP 4010 Aristotle 6AC (3) AS PHI**

Study of Aristotle's philosophy.

**PHP 4410 Kant (3) AS PHI**

Lecture and discussion of Kant's philosophy, especially the Critique of Pure Reason.

**PHP 4784 Analytical Philosophy 6AC (3) AS PHI**

A study of the method devoted to clarifying philosophical problems through analysis of the language in which these problems are stated.

**PHP 4788 Philosophy of Marxism 6AC (3) AS PHI**

A critical survey of Marxist philosophy from Marx and Engels to Mao Tse-Tung and Herbert Marcuse. Hegelian foundations of Marxist philosophy analyzed in detail.

**PHY 2020 Conceptual Physics CANP SGEN (3) AS PHY**

A qualitative investigation of physics concepts. Emphasis is placed on using physics to describe how common things work. No previous physics knowledge required.

**PHY 2048 General Physics I - Calculus Based CANP SGEN (3) AS PHY**

PR: MAC 2281 or MAC 2311.

First semester of a two semester sequence of calculus based general physics which includes a study of mechanics, heat, and fluids.

**PHY 2048L General Physics I Laboratory (1) AS PHY**

PR: MAC 2281 or MAC 2311.

First semester of a two-semester sequence of general physics (mechanics, wave motion, sound, thermodynamics, geometrical and physical optics, electricity, and magnetism) and laboratory for physics majors and engineering students.

**PHY 2049 General Physics II - Calculus Based CANP (3) AS PHY**

PR: MAC 2282 or MAC 2312, PHY 2048.

Second semester of calculus based general physics. Topics studied include wave mechanics, electricity and magnetism, and optics.

**PHY 2049L General Physics II Laboratory (1) AS PHY**

PR: MAC 2282 or MAC 2312, PHY 2048, PHY 2048L.

Second semester of general physics and laboratory for physics majors and engineering students.

**PHY 2053 General Physics I CANP SGEN (3) AS PHY**

PR: MAC 1140 and MAC 1114, or MAC 1147.

First semester of a two semester sequence of non-calculus-based general physics (mechanics, heat, wave motion, sound, electricity, magnetism, optics, modern physics) for science students.

**PHY 2053L General Physics I Laboratory (1) AS PHY**

First semester of a two semester sequence of general physics (mechanics, heat, wave motion, sound, electricity, magnetism, optics, modern physics) laboratory for science students.

**PHY 2054 General Physics II CANP (3) AS PHY**

PR: PHY 2053, PHY 2053L.

Second semester of non-calculus based general physics. Topics studied include electricity and magnetism, optics and modern physics.

**PHY 2054L General Physics II Laboratory (1) AS PHY**

PR: PHY 2053, PHY 2053L.

Second semester of general physics lab for science students.

**PHY 2060 Enriched General Physics I with Calculus (3) AS PHY**

PR: MAC 2311 or MAC 2281 with minimum grade of 'A'

CR: PHY 2048L

First semester of an enriched sequence of calculus based general physics designed for physics majors and other students seeking a deeper understanding of mechanics, kinematics, conservation laws, central forces, harmonic motion, and mechanical waves.

# COURSE DESCRIPTIONS

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## **PHY 2061 Enriched General Physics II with Calculus (3) AS PHY**

PR: MAC 2312 or MAC 2282 and PHY 2060 with a minimum grade of B  
CR: PHY 2049L

Second semester of an enriched sequence of calculus based general physics designed for physics majors and other students seeking a deeper understanding of thermodynamics, electricity, magnetism, electromagnetic fields and waves, circuits, and optics.

## **PHY 3101 Modern Physics (3) AS PHY**

PR: PHY 2049, MAC 2283 or MAC 2313.  
Special relativity. Interaction of radiation with matter. Particle-wave duality. Atomic and x-ray spectra and Bohr model of atom. Schrodinger wave equation. Introduction to solid state physics.

## **PHY 3220 Classical Mechanics (4) AS PHY**

PR: PHY 3101 and PHZ 3113.  
Topics covered: Newtonian mechanics, oscillatory motion, gravitation, Lagrangian and Hamiltonian Dynamics, Central-Force Motion, Dynamics of a System of Particles, Dynamics of Rigid Bodies, and Non-linear and coupled oscillations.

## **PHY 3221 Mechanics I (3) AS PHY**

PR: PHY 3101 and PHZ 3113.  
First semester of a two-semester sequence. Review of vector algebra and vector calculus. Dynamics of single particles and systems of particles; central forces; rotation about an axis; statics; and virtual work.

## **PHY 3323 Electricity and Magnetism I (3) AS PHY**

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.

## **PHY 3822L Intermediate Laboratory (3) AS PHY**

CPR: PHY 3101.  
Experiments in modern physics, including the areas of atomic, nuclear, solid state and wave phenomena.

## **PHY 4031 Great Themes in Physics 6AC (3) AS PHY**

Origins/early history of physics, and quantum physics. Conservation of energy. Second Law of Thermodynamics. Special Relativity. Exponential dynamics. Outside reading, writing; maintenance of a logbook/journal.

## **PHY 4151 Computational Physics (3) AS PHY**

PR: PHY 3101  
Computer application in physics. Emphasis on numerical modeling and simulation of physics problems using linear algebra, differential equations and Monte Carlo methods. No prior programming experience required.

## **PHY 4222 Mechanics II (3) AS PHY**

PR: PHY 3221.  
Continuation of PHY 3221. Coupled oscillators and normal modes; moving coordinate systems;

Lagrange's and Hamilton's equations; inertia tensor; general rotation of rigid bodies.

## **PHY 4324 Electricity and Magnetism II (3) AS PHY**

PR: PHY 3323.  
Introduction to special relativity, magnetic fields and potentials, magnetic materials, RL and RLC circuits, Maxwell's equations and applications.

## **PHY 4424 Optics (3) AS PHY**

PR: PHY 3101  
Reflection, refraction, dispersion, interference, diffraction and polarization.

## **PHY 4523 Statistical Physics (3) AS PHY**

PR: PHY 3221 or PHY 3323 of PHY 4604.  
Statistical approach to thermodynamics and kinetic theory and introduction to statistical mechanics.

## **PHY 4604 Introduction to Quantum Mechanics (3) AS PHY**

PR: PHY 3101 and PHZ 3113.  
Basic concepts of quantum mechanics with applications in atomic, nuclear, and condensed matter Physics.

## **PHY 4605 Quantum Mechanics II (3) AS PHY**

PR: PHY 4604..  
Second semester of a two-semester sequence in quantum mechanics. Focus given to applications of Schrodinger equation.

## **PHY 4744C Introduction to Electronics and Test Instrumentation (3) AS PHY**

PR: PHY 3822L  
Introduces the fundamentals of analog and digital electronics used in measurements and instrumentation. Weekly labs give hands-on experience in breadboarding electronic circuits and using test instrumentation (oscilloscopes, digital multimeters, etc.)

## **PHY 4823L Advanced Laboratory (3) AS PHY**

PR: PHY 3822L.  
Experimental work primarily related to modern physics. Emphasis on experimental techniques used in current research.

## **PHY 4905 Independent Study (1-3) AS PHY**

Specialized, independent study determined by the student's need and interest. The written contract required by the College of Arts and Sciences specifies the regulations governing independent study.

## **PHY 4910 Undergraduate Research (1-4) AS PHY**

An individual investigation in the laboratory or library or both, under the supervision of the instructor. Credit hours and other contractual terms, are to be determined by student/instructor agreement.

## **PHY 4930 Undergraduate Seminar (1) AS PHY**

All undergraduate physics majors must enroll in this course at least once. Regular attendance is required. This course introduces students to the research areas in the Physics Department.

## **PHY 4936 Selected Topics in Physics (1-3) AS PHY**



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Each topic is a course in directed study and under the supervision of a faculty member.

## **PHY 5720C Electronics for Research (3) AS PHY**

A rigorous introduction to the fundamentals of analog and digital electronics. Theoretical circuit analysis and weekly labs introduce practical use of diodes, transistors, analog and digital ICs, breadboarding techniques and electronics test instrumentation. Spring Semester.

## **PHY 5937 Selected Topics in Physics (1-4) AS PHY**

Each topic is a course in directed study under the supervision of a faculty member.

## **PHZ 2102 Problems in General Physics I (1) AS PHY**

CR: PHY 2048 or PHY 2053.

First semester of a two-semester sequence on solving problems in General Physics I. A course designed to be taken with the lecture course and to help students with developing problem-solving skills.

## **PHZ 2103 Problems in General Physics II (1) AS PHY**

CR: PHY 2049 or PHY 2054.

Second semester of a two-semester sequence on solving problems in General Physics II. A course designed to be taken with the lecture course and to help students with developing problem-solving skills.

## **PHZ 3113 Mathematical Methods in Physics (3) AS PHY**

PR: PHY 2049

CPR: MAC 2283 or MAC 2313.

The course is designed to develop the basic mathematical skills required in subsequent courses in physics, as well as form the basis for a fundamental understanding of the mathematics needed for the study of physics.

## **PHZ 4151C Computational Physics (3) AS PHY**

Introduction to computer applications in physics. Emphasis on numerical modeling and simulation of physics problems using linear algebra, differential equations and Monte Carlo methods. No prior programming experience required.

## **PHZ 4434 Materials Physics (3) AS PHY**

PR: PHY 2048, PHY 2049, PHY 3101.

The physics and physical properties of materials. Strong emphasis is on the underlying physics of materials. Particular topics covered include crystal structure, phase, and electrical, thermal, optical, and magnetic properties of materials.

## **PHZ 4702 Applications of Physics to Biology and Medicine I (4) AS PHY**

PR: PHY-2054, PHY-2054L or PHY-2049, PHY 2049L

The first semester of a two-semester sequence, to discuss the applications of the physical concepts introduced in the General Physics sequence to biological systems and for medical applications. Restricted to non-majors.

## **PHZ 4703 Applications of Physics to Biology and Medicine II (4) AS PHY**

PR: PHY-2054, PHY-2054L or PHY-2049, PHY 2049L; 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) AS PHY**

PR: MAP 2302

Applications of mathematical techniques to classical and modern physics. Vector spaces including Hilbert space, orthogonal functions, generalized functions, Fourier analysis, transform calculus, and variational calculus.

## **PHZ 5116 Methods of Theoretical Physics II (3) AS PHY**

PR: MAP 2302

Applications of mathematical techniques to classical and modern physics. Selected topics in complex analysis, differential and integral equations, numerical methods, and probability theory.

## **PHZ 5154C Introduction to Computational Physics (3) AS PHY**

Introduction to the use of computers for solving problems in physics. No programming experience required.

## **PHZ 5156C Computational Physics I (3) AS PHY**

PR: CGS 5765

C programming applied to real science and engineering problems. Data analysis, numerical algorithms, modeling, parallel computation. Subjects selected from current research may include neurobiology, quantum magnetism, chaos, finance, materials science.

## **PHZ 5405 Solid State Physics I (3) AS PHY**

PR: PHY 3101, MAP 2302

Crystal structure, x-ray and electron diffraction, mechanical and thermal properties of solids, electrical and magnetic properties of metals, band theory of metals, insulators, and semiconductors.

First semester of sequence PHZ 5405, PHZ 6426.

## **PHZ 5430 Introductory Physics of Materials (3) AS PHY**

Phenomenological introduction to the structural, thermal, electrical, magnetic, mechanical, and optical properties of materials.

## **POR 1120 Beginning Portuguese I (4) AS WLE**

Development of basic skills in listening and reading comprehension, speaking and writing of Brazilian Portuguese.

## **POR 1121 Beginning Portuguese II (4) AS WLE**

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) AS WLE**

# COURSE DESCRIPTIONS

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- POR 2200 builds upon the four language skills (speaking, comprehension, reading, and writing) introduced in POR 1120 and POR 1121.
- POR 2201 Intermediate Portuguese II (3) AS WLE**  
For language students who intend to attain basic proficiency.
- POR 4905 Directed Study (1-5) AS WLE**  
Course permits study options in Portuguese not available in the regularly scheduled curriculum at departmental discretion. May be repeated up to 10 hours. S/U Only. Departmental approval required.
- POR 4930 Selected Topics (1-3) AS WLE**  
Course permits study options in Portuguese not available in the regularly scheduled curriculum at departmental discretion. May be repeated up to 10 credit hours. Departmental approval required.
- POS 2041 American National Government CASB SGES (3) AS GIA**  
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) AS GIA**  
This course is an introductory survey of the historical developments and changes in American political institutions, processes, and thought.
- POS 2112 State and Local Government and Politics (3) AS GIA**  
Analysis of the structure and function of state and local governments, of the social and political influences that shape them, and of the dynamics of their administrative processes.
- POS 3142 Introduction to Urban Politics and Government (3) AS GIA**  
Governmental and political structures and processes as they function in urban areas, with special focus on municipalities and locally based public services.
- POS 3173 Southern Politics (3) AS GIA**  
Examines changes in electoral politics in the South, and the role of interest groups and the state and federal government in facilitating change.
- POS 3182 Florida Politics and Government (3) AS GIA**  
A study of Florida political culture, political parties and elections, the legislative, executive, and judicial systems, and policy patterns.
- POS 3273 Practical Politics (3) AS GIA**  
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) AS GIA**  
The organization, development, and functioning of American court systems and the causes and consequences of judicial behavior from an empirical perspective.
- POS 3453 Political Parties and Interest Groups (3) AS GIA**  
Analysis and understanding of role, functions, structure, and composition of such, and their impact on American governmental institutions.
- POS 3691 Introduction to Law and Politics (3) AS GIA**  
Nature of law, legal process, relationship to political life of constitutional law, administrative law, the judicial process, and private law.
- POS 3697 Environmental Law (3) AS GIA**  
Examines some of the major issues involving environmental law. Specially, the course provides a survey and analysis of statutes, both state and federal, regulating water, air, soil pollution, and resource conservation and recovery. It will also address questions pertaining to problems of implementation, interpretation, enforcement, and development of environmental laws.
- POS 3713 Empirical Political Analysis (3) AS GIA**  
Fundamentals of empirical political inquiry: systematic data collection and quantitative analysis techniques. Laboratory exercises using the computer are required.
- POS 3931 Selected Topics (3) AS GIA**  
Selected topics in political science with course content based upon student demand and instructor's interest.
- POS 4204 Political Behavior, Public Opinion, and Elections (3) AS GIA**  
Analysis of economic and socio-psychological factors influencing mass and elite political behavior; voting behavior, public opinion, and political activism.
- POS 4413 The American Presidency 6AC (3) AS GIA**  
The presidency as a political institution; analysis of powers; legislative, administrative, political, and foreign policy leadership; crisis management and decision making; White House staffing; limits on power.
- POS 4424 The American Congress (3) AS GIA**  
Organization, procedures, committee system, party leadership, relations with governmental and non-governmental organizations and agencies, oversight, decision-making processes, House/Senate comparisons.
- POS 4614 Constitutional Law I (3) AS GIA**  
PR: POS 2041.  
Leading social problems, principle institutions, and the scope of powers. Analysis of Supreme Court decisions, scholarly commentaries, and the writings of leading public figures.
- POS 4624 Constitutional Law II (3) AS GIA**  
PR: POS 2041.  
Analysis of Supreme Court decisions and scholarly commentaries on the constitutional rights of individuals.
- POS 4693 Women and Law I (3) AS WST**

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- 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 6AC (3) AS WST**  
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) AS GIA**  
Specialized study determined by the student's needs and interests.
- POS 4910 Individual Research (1-3) AS GIA**  
Investigation of some aspect of political science culminating in the preparation of an original research paper.
- POS 4936 Senior Seminar (3) AS GIA**  
An opportunity to work with others in a seminar format, exploring specialized topics.
- POS 4941 Field Work (3-15) AS GIA**  
Opportunity for students to obtain practical experience as aides to agencies of government and political parties.
- POS 4970 Honor Thesis (3) AS GIA**  
Writing of honor thesis under direction of faculty members.
- POS 5159 Urban Policy Analysis (3) AS GIA**  
Application of policy framework for urban government & policies. Examine forms of government and how policies such as economic development, law enforcement, community policing, neighborhood policies (with non-profit groups) can be analyzed.
- POT 3003 Introduction to Political Theory (3) AS GIA**  
Examines various kinds of theory used in political science for understanding political life: normative theory, empirical theory, historicism theory, analytical theory, and critical theory.
- POT 3013 Classical Political Theory (3) AS GIA**  
Analysis of basic ideas of Plato, Aristotle, Cicero, St. Thomas, and other leading pre-modern political philosophers.
- POT 4054 Modern Political Theory (3) AS GIA**  
Analysis of basic political ideas of Machiavelli, Hobbes, Locke, Rousseau, Burke, and other modern philosophers.
- POT 4064 Contemporary Political Thought (3) AS GIA**  
Examines various political views and political phenomena in the nineteenth and twentieth centuries. Diverse theoretical types and salient political phenomena will be presented.
- POT 4109 Politics and Literature 6AC (3) AS GIA**  
Critical examination of the connections between politics and literature.
- POT 4204 American Political Thought (3) AS GIA**  
Examines political writings in the U.S. and responses to critical periods in history, beginning with the Founding Fathers, and culminating in recent contributions and understanding contemporary political problems and solutions.
- POT 4936 Selected Topics in Political Theory (3) AS GIA**  
Selected topics or thinkers in political theory.
- PPE 4003 Personality (3) AS PSY**  
PR: PSY 3213 with a grade of C or better  
Methods and findings of personality theories and an evaluation of constitutional, biosocial, and psychological determinants of personality.
- PSB 3444 Drugs and Behavior (3) AS PSY**  
This is a basic introduction to drugs and their effects on society and behavior. Specifically, drug regulations and laws will be covered as well as how drugs interact with the brain to alter consciousness.
- PSB 4004C Physiological Psychology (3) AS PSY**  
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 CANP (3) AS PHY**  
Explores energy use and its environmental impacts, including climate change. Energy resources, including alternatives to fossil fuels, are discussed. Basic science concepts as well as contemporary technologies are covered.
- PSY 2012 Introduction to Psychological Science CASB SGES (3) AS PSY**  
This course is an introduction to psychology for majors and nonmajors. It presents psychological theory and methods in a survey of various areas of psychology including clinical, cognitive, developmental, health, industrial, social and biopsychology.
- PSY 3017 Psychological Science II (3) AS PSY**  
PR: PSY 2012  
Designed as an in-depth examination of the basic principles and concepts of psychological science. Extensive coverage will be given to the areas of learning, perception, physiological psychology, and cognition.
- PSY 3204 Psychological Statistics CAQR 6AM (3) AS PSY**  
PR: PSY 2012.  
Introduction to analyzing psychological data, in the context of behavioral research. Covers basic research design, descriptive statistics, analysis procedures, use of computer analysis packages, interpretation of outputs, and implications for research.
- PSY 3213 Research Methods in Psychology (4) AS PSY**  
PR: PSY 2012 with a grade of C or better  
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

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- discussed in lecture. Two lectures plus two-hour lab.
- PSY 4205 Experimental Design and Analysis (3) AS PSY**  
PR: PSY 3213 with grade of C or better  
Detailed coverage of those research designs and statistical techniques having the greatest utility for research problems in psychology. Emphasis on topics from analysis of variance.
- PSY 4215 Discovering Research in Psychology (3) AS PSY**  
PR: PSY 3213 (with grade of C+ or better)  
This course involves advanced study of approaches to research in psychology and development of various research skills as preparation for conducting independent research.
- PSY 4604 History and Systems of Psychology (3) AS PSY**  
PR: PSY 3213 with a grade of C or better  
The historical roots of modern psychological theories, investigation of the various schools of psychology such as behaviorism, Gestalt psychology, psychoanalysis, and phenomenological psychology.
- PSY 4913 Directed Study (1-3) AS PSY**  
PR: PSY 3213.  
The student plans and conducts an individual research project or program of directed readings under the supervision of a faculty member. S/U only.
- PSY 4931 Selected Topics: Seminar (3) AS PSY**  
PR: PSY 3213 with a grade of C or better  
Graduate-type seminar designed to provide the advanced undergraduate student with an in-depth understanding of a selected sub-area within psychology.
- PSY 4932 Honors Seminar CPST (3) AS PSY**  
PR: PSY 3213 with a grade of C or better  
The student, under supervision of a faculty member, will complete a thesis project.
- PSY 4933 Advanced Topics in Applied Behavior Analysis (3) AS PSY**  
PR: EXP 4404 and CLP 4414.  
Advanced seminar in the effective and ethical application of behavior analysis to human problems. Includes theoretical and conceptual issues; assessment and treatment procedures; legal, ethical and socio-cultural issues.
- PSY 4970 Honors Thesis (1-3) AS PSY**  
PR: PSY 3213 with a grade of C or better  
The student, under supervision of a faculty member, will complete a thesis project.
- PSY 4974 Honors Seminar in Psychology - Second Semester WRIN 6AC (3) AS PSY**  
PR: PSY 4932  
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.
- PUP 4002 Public Policy (3) AS GIA**  
Examines the formation and implementation of public policy in areas such as the economy, health, etc.
- PUP 4203 Environmental Politics and Policy (3) AS GIA**  
Examines the politics of environmental issues, formation and implementation of environmental policy.
- PUP 4232 Women and Politics 6AC (3) AS WST**  
An analysis of the impact of gender on power and influence in American society, and women's changing role in the political process.
- PUP 5607 Public Policy and Health Care (3) AS GIA**  
The study of health care policy as it relates to the policy process in the American setting.
- PUR 3000 Principles of Public Relations (3) AS COM**  
PR: MMC 2100 and MMC 3602.  
The underlying theory and professional practice of public relations within corporate 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.
- PUR 3500 Public Relations Research (3) AS COM**  
PR: PUR 3000 and LIS 2005.  
The theory and practice of quantitative and qualitative research methods as applicable to the study of public relations and public relations campaigns. Emphasis is on the scope of research methods available to public relations practitioners, evaluation of data and report writing.
- PUR 4100 Writing For Public Relations (3) AS COM**  
PR: JOU 2100 and PUR 3000.  
Techniques for creating effective written public relations communications to achieve organizational goals, including news releases, proposal letters, broadcast scripts, and memos. Exercises based on case study scenarios.
- PUR 4101 Public Relations Design and Production (3) AS COM**  
PR: PUR 3000.  
Theoretical and practical applications of design for public relations publications. Design software. Study of visual design, page architecture, typography, color and illustrations. Integration of design elements in the design of different types of public relations publications.
- PUR 4401 Public Relations: Issues, Practices and Problems (3) AS COM**  
PR: PUR 3000.  
The theory of public relations practice and its application in the real world. The role of the public relations practitioner in business, government, and social institutions, and the nature of specialized areas of the practice. Identification of public issues, analysis of potential impact on organizations and development of strategies to

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- deal with them successfully and responsibly. Communication techniques and trends.
- PUR 4700 Public Relations Practicum (1) AS COM**  
Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.
- PUR 4801 Advanced Public Relations (3) AS COM**  
PR: PUR 3500, PUR 4100 and PUR 4401  
As final course in Public Relations sequence, it involves intensive study of counseling and problem-solving techniques used in professional practice. Analysis of case studies and preparation of complete Public Relations program. Extensive reading in the literature of contemporary practice.
- PUR 5505 Introduction to Strategic Communication Theory and Practice (3) AS COM**  
The course is designed to act as a "bridge" between undergraduate and graduate public relations and advertising education, and between professional communication practices and strategic communication scholarship.
- QMB 2100 Business and Economic Statistics I CAQR 6AM (3) BA QMB**  
PR: MAC 1105.  
Data description; exploratory data analysis; introduction to probability; binomial and normal distributions; sampling distributions; estimation with confidence intervals; tests of hypotheses; control charts for quality improvement.
- QMB 3200 Business and Economic Statistics II (3) BA QMB**  
PR: 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 CAQR 6AM (3) BA QMB**  
Comprehensive course in statistics for Business Honors students. Includes the application of statistical concepts to business problems.
- QMB 3701 Computational Methods in Business (3) BA QMB**  
PR: QMB 3253  
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 3030 Rehabilitation Counseling Issues in Alcoholism and Other Addictions (3) BC REH**  
An overview of alcohol and other drug abuse. Explores the extent and rate of abuse in the United States, causes, biology, psychosocial aspects, legal aspects, and treatment.
- RCS 4033 Overview of Rehab & MH Counseling Professions (3) BC REH**  
This course introduces students to the human services and multiple counseling professions, including, rehabilitation and mental health counseling, career/vocational counseling, forensic counseling, behavioral health and marriage and family therapy.
- RCS 4931 Selected Topics in Counseling Professions (3) BC REH**  
Provides an overview of counseling professions including current issues, standards of practice, and future trends. Will cover legal and ethical and professional issues.
- RCS 5035 Rehabilitation Counseling: Concepts and Applications (3) BC REH**  
Introduction to the profession of Rehabilitation Counseling and current issues in the field. Coverage includes rehabilitation history, legislation, case management and related services for Americans with disabilities.
- RCS 5080 Medical Aspects of Disability (3) BC REH**  
PR: RCS 5780  
A survey of medical conditions and disabilities encountered by rehabilitation and mental health counselors. Examines the relationship of client handicaps, physical and mental, to rehabilitation and mental health programming.
- RCS 5450 Fundamentals of Substance Abuse Counseling (3) BC REH**  
An overview of alcohol and other drug abuse. Explores the extent and rate of abuse in the United States, causes, biology, psychosocial aspects, legal aspects, and treatment.
- RCS 5780 Legal, Ethical, Professional Standards and Issues in Counseling (3) BC REH**  
An overview of all aspects of professional functioning including history, roles, organizational structures, ethics, standards and credentialing. Contemporary and developing issues in the field of professional counseling will also be addressed.
- RCS 5905 Directed Studies (1-4) BC REH**  
Supervised rehabilitation studies under the direction of a faculty member.
- REA 1205 Advanced Reading (3) US RLS**  
This course focuses on a broad array of reading strategies to help students enhance comprehension skills as well as develop the fundamentals of critical analysis through the application of a strategic-reflective reading model.
- REA 1305 Reading Lab (1-3) US RLS**  
The focus is on the development of a systematic approach for improving reading comprehension, rate, and expanding vocabulary as well as adjusting rate and technique to adapt to a variety of materials and purposes. Open to all students.
- REA 1605 Advanced Learning Systems (2) US RLS**  
To explore the most recent advances in learning theory systems and then learn to apply that knowledge to understanding individual learning preferences, analyzing task demands, and

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intentionally selecting effective strategies for each learning challenge.

## **REA 2105 Critical Reading and Writing 6AC (3) US RLS**

This course helps students develop the fundamentals of reflective and critical reading and on effective analytical writing utilizing multiple sources from various disciplines. The course meets the criteria for Gordon Rule writing requirements.

## **REA 2505 Vocabulary (3) AS ENG**

A practical course in rapid vocabulary improvement for students in all areas. Stress is on words in context. Will not count toward the English major.

## **REA 2604 Strategic Learning (1) US RLS**

For students in academic difficulty, this course introduces students to advanced learning system used to understand individual learning preferences, analyze task demands, and then intentionally select effective strategies for each learning challenge.

## **REA 2930 Selected Topics (1-3) US RLS**

Topics will vary to meet the needs of students. Will not be counted toward the English major.

## **RED 4310 Reading and Learning to Read (3) ED EDE**

This course will prepare pre-service teachers to understand the foundations of reading and the inherent learning principles to produce successful readers. The course focuses on appropriate instructional strategies to enhance reading development and reading across the curriculum.

## **RED 4312 Emergent Literacy Strategies and Assessment (3) ED EDR**

The purpose of this course is to create an understanding of developmentally appropriate, research-based theories and practices that support young children's emergent literacy and language learning.

## **RED 4335 Teaching Reading in Secondary English Curriculum (3) ED EDI**

Analysis of the reading process; introduction to diagnosis of reading abilities; reading and study skill strategies to increase student achievement in reading.

## **RED 4511 Linking Literacy Assessment to Instruction (3) ED EDR**

PR: RED 4310.

This course will prepare pre-service teachers to use multiple assessment measures to assess and diagnose students' strengths and needs in literacy learning. Based on individual student profiles, teachers will design instruction to enhance literacy development.

## **RED 4724 Intermediate Literacy Strategies and Assessment I (3) ED EDR**

PR: RED 4312.

The purpose of this course is to create an understanding of developmentally appropriate, research-based theories and practices that

support children's literacy learning in the intermediate grade levels.

## **REE 3043 Real Estate Decision Making (3) BA FIN**

PR: FIN 3403.

Acquaints students with the range of 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.

## **REL 2166 Introduction to Religion and Ecology CAHU HHCP (3) AS REL**

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 2210 Hebrew Bible/Old Testament (3) AS REL**

An introduction to the critical study of the Hebrew Scriptures against the background of the ancient Near East, with attention to the history and religion of the Hebrew people.

## **REL 2240 Introduction to the New Testament (3) AS REL**

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 2300 Introduction to World Religions CAGC HHCP (3) AS REL**

Introduction to World Religions is designed to give students a broad and general overview of the major religious traditions of the world. Students will be exposed to the history, primary beliefs, and information necessary for a primary understanding of each of the religions studied in the course.

## **REL 2306 Contemporary World Religions (3) AS REL**

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) AS REL**

This course introduces students to the academic study of religion. Religious thought and behavior are examined from a variety of methodological perspectives. Restricted to majors and minors. Required for the major and the minor in Religious Studies.

## **REL 3043 Introduction to Major Religious Texts (3) AS REL**

The course provides an introduction to the study of some of the foundational texts of selected

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religious traditions by focusing on reading and interpretative strategies in order to understand the central beliefs and practices presented in these texts.

## **REL 3101 Religion and Popular Culture (3) AS REL**

An exploration and analysis of the relationship between religion and popular culture, which will include inquiry into the definition and meaning of both religion and popular culture, the impact of secularization on traditional religious systems, and the widely diverse expressions of religion in contemporary popular culture.

## **REL 3111 The Religious Quest in Contemporary Films CAHU 6AC (3) AS REL**

This course uses contemporary films such as Gandhi, Malcolm X, The Long Walk Home, The Chosen, and Grand Canyon to explore the personal and social aspects of religion in modern secular societies, pinpointing issues of racism, sexism, liberation, etc.

## **REL 3114 Comedy, Tragedy, and Religion 6AC (3) AS REL**

Examines the visions of life in comedy and tragedy, and relates both to Judaism, Christianity, and Zen Buddhism.

## **REL 3116 Religion and Contemporary American Holidays (3) AS REL**

Introduces students to the academic study of religion through an exploration of issues and questions related to the character and function of holidays in contemporary America. Open to majors and non-majors.

## **REL 3117 Religion and Contemporary American Sports (3) AS REL**

This course explores the function of sports in America. It covers the history of sports; the status of American sports; and sports as religious events. The course is open to majors and nonmajors and is not repeatable for credit.

## **REL 3120 Religion in America (3) AS REL**

To examine the movement from state church to pluralism in American religious institutions, the religious results of non-Protestant immigration; the Jewish factor; the effect of home missions and social concern programs upon American life; political entanglements and the concept of church/state separation.

## **REL 3131 New Religions in America CAGC HHCP (3) AS REL**

This course entitled New Religions in America is designed to give students an overview of the rich religious history of America particularly in regard to the unique cultivation of new religious movements in America spanning from 1850 – the present.

## **REL 3132 Witchcraft and Paganism in America (3) AS REL**

A study of contemporary witchcraft and paganism, including theories, methods, history, myths and

symbols, beliefs, rituals and practices, believers, recruitment, socialization, and organizations.

## **REL 3140 Religion, Culture, and Society (3) AS REL**

Introductory scholarly survey of religion in its complex relationship to culture and society, including definitions and theories of religion, research methods, becoming religious, social organization, and interconnections with other social institutions. Open to non majors.

## **REL 3145 In Search of the Goddess (3) AS REL**

This course explores Goddess religion/sacred Feminine, from prehistory, to the pagan Near East and Mediterranean, Western monotheistic religions, pluralistic religions of the East, and revivals of Goddess spirituality in contemporary Europe/N. America.

## **REL 3146 Women and Religion 6AC (3) AS REL**

Analysis of the status and roles of women as compared to men in the Judeo-Christian tradition. Contemporary issues of feminist theology, and the controversies surrounding them.

## **REL 3170 Religion, Ethics and Society Through Film 6AC (3) AS REL**

An ethical analysis of contemporary social issues through contemporary films such as Wall Street and Crimes and Misdemeanors, drawing on religious narrative traditions from Eastern and Western cultures which have contributed to the development of an ethic of human dignity, human rights and human liberation after Auschwitz and Hiroshima.

## **REL 3191 Life After Death (3) AS REL**

An exploration of ideas about life after death and its relations to this life in Judaism, Christianity, Islam, Hinduism, and Buddhism.

## **REL 3280 Biblical Archaeology (3) AS REL**

An in depth examination of the archaeological data relating to the background and content of the Bible, including ancient customs, Biblical sites and cities, Biblical history, and material culture of the Biblical period. Special attention will also be given to excavation methods and interpretation of archaeological evidence.

## **REL 3303 Comparative Religion: Judaism and Islam (3) AS REL**

This course is framed within the academic study of religion, and it does not concern itself with contemporary political difference in the Middle East. It treats as Islam the normative statements of the Quaran and related traditions, and as Judaism the authoritative statements of the Torah, oral and written.

## **REL 3308 World Religions 6AC (3) AS REL**

World Religions gives students an overview of the major religions of the world from their origins through the modern period. Special attention is given to the analysis of myths, rituals, history, and other features of the religions.

## **REL 3318 Introduction to Chinese Religion (3) AS REL**

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The course is for majors and nonmajors, and may not be repeated for credit. The course introduces the history and present state of the religious thoughts and practices in mainland China and the geographical areas in which the Chinese language is spoken.

**REL 3330 Religions of South Asia (3) AS REL**

All religions of the world came to India and all became Indian. What is this "Indianness" which stems from Hinduism, Buddhism, Jainism and Sikhism, but extended itself to include Judaism, Christianity, Islam, Zoroastrianism and Baha'i. Readings from classical texts and modern literature.

**REL 3335 Gods and Goddesses of India (3) AS REL**

This course explores the ways Hindus see, speak about, and encounter the Divine through an examination of the multitude of stories about the gods and goddesses and their various physical manifestations in the sacred geography of India.

**REL 3340 Buddhism Truths and Paths (3) AS REL**

This course provides an historical survey of Buddhist religion from its inception through today by focusing on the life and teachings of the historical Buddha, doctrinal development, the various denominations, and canon formation.

**REL 3363 Introduction to Islam (3) AS REL**

This course introduces the basic elements of Islamic belief and practice, placing the rise of Islam in its historical context in the Middle East, and stressing issues of diversity (including ethnicity and gender).

**REL 3367 Islam in the Modern World 6AC (3) AS REL**

Examines the major developments in Islamic thought since the 13th century, with emphasis on the 19th and 20th century Islamic resurgence. Issues of diversity, gender, and social values will be stressed.

**REL 3375 Issues in Caribbean Religions CPST (3) AS REL**

The course examines major social, political, economic, and cultural issues in Caribbean religions mainly in Jamaica, Cuba, Haiti, and Trinidad. Issues reflected in African diasporan religions and encounters with Western and Eastern ones are studied.

**REL 3380 Native American Religions (3) AS REL**

Introduction to and survey of Native American Religions. A variety of multiplicity of perspectives, including anthropological, historical, social psychological, sociological, and philosophical.

**REL 3420 Contemporary Religious Thought (3) AS REL**

An examination of the central ideas of recent religious thinkers; such as Gandhi, Martin Luther King, Jr., Elie Wiesel, Thich Nhat Hanh, Dorothy Day, Dorothee Soelle, Howard Thurman, Thomas Merton and others.

**REL 3444 Womanist Vision in Religion (3) AS REL**

This course examines the works of Black Womanist writers in religion for their contributions to and insights into the phenomena of religion in America and the world.

**REL 3465 Religion and the Meaning of Life 6AC (3) AS REL**

What is the meaning of life? An exploration of answers to this question in Eastern and Western religions, and in humanistic philosophies of life.

**REL 3500 History of Christianity 6AC (3) AS REL**

Historical development of Western Christianity, its ideas and institutions, from the first century to the rise of religious modernism in the 19th century.

**REL 3505 Introduction to Christianity (3) AS REL**

Introduction to fundamental elements of Christianity, including: foundational texts and core beliefs; the background and historical development of Christian thought; the expression of the religion throughout culture; Christianity as a global religion.

**REL 3561 Roman Catholicism 6AC (3) AS REL**

An examination of the history, doctrine, and ethics of the Roman Catholic Church.

**REL 3602 Classics of Judaism 6AC (3) AS REL**

PR: One course in Religious Studies.

How to read the principal documents of Judaism beyond the Hebrew Bible, including the Mishnah, Talmud, Midrash, and classics of philosophy, mysticism, and theology through the modern period.

**REL 3607 Introduction to Judaism 6AC (3) AS REL**

An introduction to Judaism: its religious tenets; its codes of ethics; its rites and customs. This course is intended as a description of what it means to be a Jew.

**REL 3611 History of Judaism (3) AS REL**

A study of the evolution of the religion of ancient Israel from the Second Temple period to the end of the second century C.E., seen against the background of its historical, geographical, political, social and spiritual setting.

**REL 3613 Modern Judaism 6AC (3) AS REL**

A study of modern Jewish life and thought in the West, including the study of beliefs, practices, institutions, major thinkers, and intellectual trends.

**REL 3801 History of Writing (2) AS REL**

Study, in reasonable detail, of the history and evolution of writing within its societal context. We will stress the development of writing in Mesopotamia, Egypt, and the Mediterranean World, looking at the transition from oral to written literature and its impact on religion.

**REL 3900 Directed Readings (1-4) AS REL**

Individual guidance in concentrated reading on a selected topic.

**REL 3936 Selected Topics (1-3) AS REL**

Course contents depend on students' needs.

**REL 4108 Religion and Food (3) AS REL**

Course applies categories in the academic study of religion (symbol, ritual, the divine, the sacred/profane, ethics, etc.) to food and religion.



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- Explores how religion relates to food--in its production, distribution and consumption dimensions.
- REL 4113 The Hero and Religion 6AC (3) AS REL**  
A study of the way in which embedded religious models help to fashion the representation of an heroic protagonist. The focus of the course will be on the relationship between the hero and the "other," as differentiated by race, gender, ethnicity, or merely inner being.
- REL 4133 Mormonism in America (3) AS REL**  
A study of Mormonism in America as an example of a new religion. Includes the study of history, myths and symbols, texts, beliefs, rituals and practices, believers, recruitment, socialization, and organizations.
- REL 4171 Contemporary Christian Ethics 6AC (3) AS REL**  
A survey of representative approaches to contemporary Christian ethics and their application to a number of ethical issues peculiar to personal and social life in contemporary society, with an emphasis on issues of race and gender and of violence and non-violence.
- REL 4177 Comparative Religious Ethics 6AC (3) AS REL**  
A comparative study of religious ethics emphasizing how 20th century social activists, such as Ghandi and M. L. King Jr. and eco-feminists such as Rosemary Ruether and Joanna Macy, have drawn upon and transformed traditional religious stories and spiritual practices in order to create a cross-cultural and inter-religious ethic for a multi-cultural world.
- REL 4188 Religion and Ecology Seminar (3) AS REL**  
Course applies categories in the academic study of religion (symbol, myth, ethics, community, ultimate power, and so on) to ecology. Considers how religion and ecology relate and have related historically.
- REL 4193 Comparative Mysticism (3) AS REL**  
A course designed to acquaint the student with the nature of mystical experience, and some of the varieties of mystical experience recorded in the writings of the mystics, East and West.
- REL 4213 Early Jewish Literature CPST 6AC (3) AS REL**  
This course undertakes close readings of a wide range of early Jewish texts to better understand the role of scripture in the ancient world and to gain insight into the cultural and religious world from which rabbinic Judaism and Christianity emerged.
- REL 4215 Ancient Israel and the Development of the Hebrew Bible 6AC (3) AS REL**  
An exploration of the formation and composition of the Hebrew Bible in light of the religious, social, political, and historical developments in antiquity.
- REL 4216 Who Wrote the Bible (Genesis-Kings) 6AC (3) AS REL**  
A critical examination of Genesis through 2 Kings. This course focuses on the history of the formation of the text and the development of the religious traditions represented therein. Special attention will be paid to Israelite Law, Covenant Theology, and the history of the religion(s) of the Children of Israel in their Ancient Near Eastern context.
- REL 4245 New Testament I: Gospels, Acts (3) AS REL**  
An exploration of the Gospels and Acts, including their backgrounds in Judaism and Greco-Roman religion, literary and form criticism, historical Jesus research, and the social history of earliest Christianity.
- REL 4250 Jesus' Life and Teachings (3) AS REL**  
An examination of the various historical studies made in the quest of identifying Jesus as an historical figure. the concern is to make a reasonable assessment of who Jesus was and what he was saying to the Jews in Palestine at the beginning of the common era.
- REL 4252 New Testament II: Pauline Letters (3) AS REL**  
An examination of the text of the thirteen "Pauline Letters" in the New Testament, comparing them with the Pauline sections of Acts, and ascertaining possible theological development of Paul and the "Pauline wing" of Christianity.
- REL 4291 Women and the Bible 6AC (3) AS REL**  
How the redactors of Genesis through 2 Kings viewed women; the role women played in the society of the time in which they are portrayed and in that of the redactors; and, an attempt to find the "women's voices," however muted, within the biblical text.
- REL 4333 Hindu Texts and Contexts (3) AS REL**  
PR: REL 3330 or similar course focusing on Hinduism  
An in-depth of the classical texts of the Hindu Tradition. We will examine religious, philosophical, ethical, ritual, and mythological themes presented in these texts in order to gain a deeper understanding to the larger tradition we call "Hinduism".
- REL 4499 Classics of Christian Thought WRIN 6AC (3) AS REL**  
This course is designed to introduce students to some of the "greatest hits" of Christian thought from the fourth century through the nineteenth. Students will be exposed to formative works from the patristic, medieval, Reformation and modern era.
- REL 4566 Old Order Anabaptists (3) AS REL**  
Explores and compares the sectarian character of Old Order Anabaptists, focusing on Hutterites, Amish, Mennonites, and Brethren.
- REL 4910 Undergraduate Research (1-4) AS REL**  
Individual investigations with faculty supervision.
- REL 4911 Undergraduate Research (1-4) AS REL**  
Individual investigations with faculty supervision.

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**REL 4931 Seminar in Religion WRIN 6AC (3) AS REL**

A course required for Religious Studies majors and minors, whose prior religious studies have prepared them for a cooperative creative and/or research effort in the area of religion.

**REL 4936 Selected Topics (1-3) AS REL**

Individual investigations with faculty supervision.

**REL 4937 Selected Topics: Fall Honors Seminar (3) AS REL**

The course content will depend upon student demand and instructor's interest.

**REL 4938 Selected Topics: Spring Honors Seminar (2) AS REL**

The course content will depend upon student demand and instructor's interest.

**REL 4939 The Development of Religious Studies (3) AS REL**

Course designed for senior majors and minors in religious studies. Discussion of key figures and methodological advances in the development of the field from the 18th century to present, with readings of classics in the development.

**RTV 2100 Writing For Radio and TV (3) AS COM**

PR: MMC 3602 and MMC 2100

This course is designed to teach how to write scripts for radio, television and new media with exposure to non-broadcast media writing. This course will teach standard formats and techniques used by professional scriptwriters.

**RTV 3001 Introduction to Telecommunications (3) AS COM**

PR: MMC 2100 and MMC 3602.

A survey of the organization, structure, and function of the broadcasting industry.

**RTV 3301 Broadcast News (3) AS COM**

PR: MMC 2100 and MMC 3602.

Methods in gathering, writing, and editing newscasts for radio and television.

**RTV 3941 Radio Practicum (1) AS COM**

PR: RTV 3001

Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.

**RTV 4220 TV Production and Direction (3) AS COM**

PR: RTV 3001 and RTV 3301.

A basic course in the techniques of producing and directing TV programs. Restricted to majors only.

**RTV 4304 TV News (3) AS COM**

PR: RTV 4320.

Advanced television reporting, integrating broadcast news writing, ENG production and television performance.

**RTV 4320 Electronic Field Production (3) AS COM**

PR: RTV 3001 and RTV 3301.

Advanced producing, scripting, lighting, camera, and editing for video and news production. Introduction to computer editing and graphics.

**RTV 4500 Telecommunications Programming and Management (3) AS COM**

PR: RTV 3001.

Program and management concepts, resources, costs, selection, and scheduling. Analysis of programming and management in terms of structures, appeals and strengths.

**RTV 4942 TV Practicum (1) AS COM**

PR: RTV 4220

Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.

**RUS 1120 Beginning Russian I (4) AS WLE**

The first course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading.

**RUS 1121 Beginning Russian II (4) AS WLE**

PR: RUS 1120

The second course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading.

**RUS 2220 Intermediate Russian I (4) AS WLE**

PR: First year Russian or equivalent.

Review and development of basic skills in conversation, composition, and reading.

**RUS 2221 Intermediate Russian II (4) AS WLE**

PR: RUS 2220 or equivalent.

Review and development of basic skills in conversation, composition, and reading.

**RUS 2270 Overseas Study (1-6) AS WLE**

Intensive study of the Russian language in Russia involving at least 20 hours per week of classroom instruction and cultural excursions conducted in Russian around Moscow and other parts of Russia.

**RUS 3240 Russian Language & Culture through Film (3) AS WLE**

PR: RUS 2221

Development of basic conversational skills.

**RUS 3470 Overseas Study (1-6) AS WLE**

PR: Two years Russian

Intensive Russian at Moscow Linguistic University with excursions in Moscow and Russia. Students from other institutions eligible.

**RUS 3500 Russian Civilization 6AC (3) AS WLE**

A survey of the cultural history of Russia.

**RUS 4241 Russian Language & Culture through Film II (3) AS WLE**

PR: RUS 3240 or equivalent.

Development of conversational skills.

**RUS 4900 Selected Topics (1-3) AS WLE**

Study of an author, movement or theme.

**RUS 4905 Directed Study (1-3) AS WLE**

**RUT 3110 Nineteenth Century Russian Literature in English WRIN 6AC (3) AS WLE**

Masterpieces of 19th Century Russian Literature in English. Works by Pushkin, Gogol, Lermontov, Turgenev, Dostoevsky, Tolstoy, Chekhov.

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**RUT 3111 Twentieth-Century Russian Literature in English CPST WRIN 6AC (3) AS WLE**

Survey of the major authors of 20th Century Russian literature in English. Major works of Babel, Bulgakov, Olesha, Pasternak, Solzhenitsyn, and Zamyatin.

**SCE 3941 Practicum I: Middle School Science Education (1-3) ED EDI**

1. The candidate will spend six hours a week in an assigned school, becoming acquainted with the middle grades classroom, and providing supervised one-on-one, small group and whole group instruction and will attend university seminars.

**SCE 3942 Practicum II: Middle School Science Education (1-3) ED EDI**

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.

**SCE 4305 Communication Skills in the Science Classroom (3) ED EDI**

Reading and communication skills important in understanding scientific and science education literature and communicating findings to others.

**SCE 4310 Teaching Elementary School Science (3) ED EDE**

Techniques and materials for teaching science in the elementary school.

**SCE 4320 Teaching Methods in Middle Grade Science I (3) ED EDI**

CR: EDM 3403, SCE 3941 and SCE 3942  
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.

**SCE 4330 Methods of Secondary Science Education (3) ED EDI**

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.

**SCE 4863 Science, Technology, Society Interaction 6AC (3) ED EDI**

Achieve an historical and philosophical understanding of (1) the nature of the scientific enterprise: interaction of science, technology, and society (STS), (2) how to teach STS including the use of computers and related technologies, and (3) intricacies of sample STS topics.

**SCE 4936 Senior Seminar in Science Education CPST (3) ED EDI**

CR: SCE 4940.  
Synthesis of teacher candidate's courses in complete college program.

**SCE 4940 Internship: Science Education (1-12) ED EDI**

CR: SCE 4936.

One full semester of internship in a public or private school.

**SCE 4941 Internship I: Middle School Science Education (1-12) ED EDI**

1. Candidates will spend each day of the semester in an assigned school implementing acquired knowledge from Practicum I and II, with increased responsibility for planning instruction and assessing student learning, and will attend internship seminars.

**SCE 4942 Internship II: Middle School Science Education (1-12) ED EDI**

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.

**SCE 4945 Practicum in Secondary Science Education (3) ED EDI**

CR: SCE 4320.

This practicum provides students majoring in biology, chemistry or physics education with structured field experiences in science classrooms at the secondary school level. Restricted to majors and non-repeatable for credit.

**SCE 5325 Methods of Middle Grades Science Education (3) ED EDI**

Prepare 5-9 sci teachers to tch sci skills, content; interrelationship, applications of sci as a human endeavor; nature of sci; instructional methods; nature scientific inquiry; development of sci process skills; integration of subj areas; & assessment.

**SCE 5337 Methods of Secondary Science Education (3) ED EDI**

Course concentrates on goals, subject matter teaching strategies for high school curricula; assessment and using data to improve student achievement; and development pedagogical content knowledge as it pertains to the teaching and learning of science.

**SCE 5564 Reading and Communication in Science Education (3) ED EDI**

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.

**SCE 5937 Selected Topics in Science Education (1-4) ED EDI**

**SDS 3341 Career Development for Student Athletes (2-3) ED EDF**

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 & learn job search techniques.

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## **SDS 4942 Practicum in Career Development for Student-Athletes (0-2) ED EDF**

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.

## **SLS 1101 The University Experience (1-3) US DEA**

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.

## **SLS 2401 Career Development for Today (1-3) US DEA**

Students will study vocational choice theories and participate in career decision processes. Development of self-awareness and knowledge of career opportunities and requirements necessary for decision making. Available to lower level majors or non-majors.

## **SLS 2901 Academic Foundations Seminar (1-3) US DEA**

This course offers an introduction to students' first years at USF that is designed to prepare them for a successful college experience. The course provides the necessary knowledge and experiences for students to be successful personally and academically.

## **SLS 3275 Student Leadership on Campus (0-3) US DEA**

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.

## **SLS 3308 Job Search (3) US DEA**

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.

## **SLS 3407 Strategies for Veteran Success (3) US DEA**

This course facilitates the transition from military service to college with the goal of promoting student Veteran retention, graduation and job placement. It seeks to assist military veteran students in their integration into life outside the military.

## **SOP 3742 Psychology of Women (3) AS WST**

An examination of theories of female personality in historical perspective. Current research on sex differences, socialization, sexuality, psychology of reproduction. Emerging roles of women as related to social change and developmental tasks of the life cycle.

## **SOP 4004 Social Psychology (3) AS PSY**

PR: PSY 3213 with a grade of C or better

Survey of methods, empirical findings, and theoretical interpretations in the study of an individual's behavior as it is affected by others.

## **SOP 4330 Social Psychology of HIV/AIDS (3) AS PSY**

PR: PSY 2012, PSY 3017, PSY 3213  
Students study social psychology theory and research while working at an AIDS service organization. They use the research as a framework for understanding, and developing solutions to, problems confronting the organization's staff and clients.

## **SOP 4514 The Holocaust, Social Prejudice, and Morality (3) AS PSY**

PR: PSY 2012.  
Examines the Holocaust from social, psychological, and communication/language perspectives. Reviews root causes of prejudice, the manifestations of hatred in language, relationships, and the ultimate impacts on victims and survivors and rescuers.

## **SOP 4702 Psychology of Gender (3) AS PSY**

This course is designed to introduce students to the psychological study of gender, from developmental, biological, social, and cultural perspectives.

## **SOP 4714C Environmental Psychology (3) AS PSY**

PR: PSY 3213 with a grade of C or better  
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.

## **SOW 3101 Human Behavior and the Social Environment I (3) BC SOK**

An integrating human behavior-social environment course emphasizing dynamics of behavior and environmental factors as they relate to social work practice with individuals, and families.

## **SOW 3102 Human Behavior And The Social Environment II (3) BC SOK**

PR: SOW 3101, SOW 4341, SOW 4522.  
An integrating course emphasizing dynamics of behavior and environmental factors as they relate to social work practice with families, groups, organizations and communities.

## **SOW 3203 Introduction to Social Work (3) BC SOK**

An introductory course tracing the development of social work as a profession including an examination of the knowledge, skill and attitudinal base of the profession and professional roles and functions.

## **SOW 3210 The American Social Welfare System (3) BC SOK**

A general education introductory course which provides students with a framework for understanding the historical development of American social welfare, its value base, and its response to minorities, women, children, the elderly, and the disabled.

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## **SOW 3401 Research and Statistics For Social Work (3) BC SOK**

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) BC SOK**

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) BC SOK**

PR: SOW 4341

This course is designed to develop student knowledge, skills, and values for providing effective case management services in a variety of setting. 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) BC SOK**

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) BC SOK**

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 (3) BC SOK**

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 (9) BC SOK**

PR: SOW 3210, SOW 3301, SOW 3101, SOW 3102, SOW 3401, SOW 4341, SOW 4343, SOW 4522

The field seminar course is designed to offer a structured environment in which to integrate academic coursework with a structured field placement. Restricted to majors, repeatable for full credit.

## **SOW 4522 Multicultural America in a Global Society (3) BC SOK**

This course is an introduction to the study of diverse cultures, abilities, and norms which comprise our global society. The content centers on the diverse client systems that practitioners will interface with as change agents and advocates.

## **SOW 4602 Social Work Practice in Mental Health and Health Care (3) BC SOK**

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) BC SOK**

PR: Completion of four social work courses including SOW 3401

Content dependent upon student interest and ability. A contract will be jointly developed by student and instructor specifying nature of work to be completed.

## **SOW 4910 Directed Research (1-6) BC SOK**

PR: Completion of four social work courses including SOW 3401

Directed Research is intended to provide students with research experience in areas of specific interest in social work. A contract will be developed between student and instructor specifying nature of work to be completed.

## **SOW 4930 Variable Topics in Social Work (1-3) BC SOK**

Variable title courses to expand on the four sequence areas in the Social Work core curriculum. Allows focus on areas relevant to student's educational interest.

## **SPA 3002 Introduction to Disorders of Speech and Language (3) BC CSD**

The scope of speech-language pathology as a profession and a field of study. An introduction to speech and language disorders, etiologies, major treatment approaches, and research findings.

## **SPA 3004 Introduction to Language Development and Disorders (3) BC CSD**

This course introduces theoretical concepts and research findings concerning the normal developmental process of language learning as a basis for differentiating developmental delay or disorder of language.

## **SPA 3011 Introduction to Speech Science (3) BC CSD**

PR: SPA 3030, SPA 3112.

Concentrated study of the acoustic, physiological and perceptual aspects of sound as related to normal and pathological speech communication. Introduction to instrumentation and measurement procedures.

## **SPA 3030 Introduction to Hearing Science (3) BC CSD**

# COURSE DESCRIPTIONS

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Introduction to the field of hearing including: physics of sound, auditory anatomy and physiology, and psychophysics of hearing.

**SPA 3101 Anatomy and Physiology of the Speech and Hearing Mechanism (3) BC CSD**

The neurological and anatomical basis of communication disorders. Comparisons of normal and pathological organic structures and their functional dynamics.

**SPA 3112 Applied Phonetics in Communication Disorders (3) BC CSD**

CR: SPA 3112L

Introduction to phonetic analysis of normal and disordered speech, including training in phonetic transcription of normal and disordered speech using the International Phonetic Alphabet.

**SPA 3112L Applied Phonetics Laboratory (1) BC CSD**

CR: SPA 3112

Laboratory experience offering extensive practice in phonetic transcription of normal and disordered speech using the International Phonetic Alphabet.

**SPA 3261 Language Science for Comm. Sciences & Disorders (3) BC CSD**

This course will present a focused introduction to linguistics and psycholinguistics from the perspective of CSD. Students will learn the fundamentals of language structure, basic facts about language processing, and how they relate to CSD.

**SPA 3310 Introduction to Disorders of Hearing (3) BC CSD**

PR: SPA 3030

The etiology, pathology, and management of disorders of the outer ear, middle ear, inner ear, retrocochlear, and central auditory systems.

**SPA 3470 Culture and Diversity in CSD (3) BC CSD**

An introduction to intercultural communication. Exploration of cultural backgrounds and cultures of various groups highly represented in the US. Explore cultural differences which affect ASL interpreters and speech pathologists.

**SPA 3653 Overview of Language Learning in Deaf Children (3) BC CSD**

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.

**SPA 3653L Overview of Language Learning in Deaf Children Lab (1) BC CSD**

CR: SPA 3653

An exploration and overview of communication modes and language used in public school settings by deaf children. Includes a study of how systems overlap and a development of flexibility in

using different modes and languages, and the implications for interpreters.

**SPA 3673 Introduction to Auditory Functions (3) BC CSD**

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.

**SPA 4050 Introduction to the Clinical Process CPST (3) BC CSD**

PR: SPA 3004 and SPA 3310.

Observation and participation in speech-language pathology and audiology services provided at USF-CSD clinical laboratory. Professional and ethical issues, oral and written communication skills are stressed through clinical and practical projects.

**SPA 4104 Neuroanatomy for Speech, Language and Hearing (3) BC CSD**

PR: SPA 3101 (highly recommended).

Students will learn neuroanatomical & neurophysiological principles, structures, and functions that subserve speech, hearing, language and cognition. A case-based approach will enable understanding of behavioral manifestations of neuropathologies.

**SPA 4201 Phonological Development and Disorders (3) BC CSD**

PR: SPA 3004, SPA 3011.

An examination of normal and deviant articulatory and phonological acquisition and behavior. Presentation of major theoretical orientations and the therapeutic principles based upon them.

**SPA 4210 Vocal Disorders (3) BC CSD**

PR: SPA 3011 and SPA 3310.

A comprehensive study of the medical and physical aspects of voice disorders. Differential diagnosis, principles of therapeutic intervention, and procedures for children and adults will be stressed.

**SPA 4222 Fluency Disorders (3) BC CSD**

PR: SPA 4201.

A comprehensive study of disfluent speech behavior. Differential diagnosis, principles of therapeutic intervention, and procedures for children and adults will be studied. Major theories and models of the development and origin of stuttering are also presented.

**SPA 4250 Introduction to Speech Disorders (3) BC CSD**

PR: SPA 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.

# COURSE DESCRIPTIONS

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**SPA 4257 Adult Communication Disorders (3) BC CSD**

PR: SPA 4104.

**SPA 4321 Introduction to Audiologic Rehabilitation (3) BC CSD**

PR: SPA 3310

Assessment and management of individuals with hearing loss. Topics include: effects of hearing loss; assessment and intervention, including: a) amplification and cochlear implants; b) speechreading and auditory training; c) communication intervention.

**SPA 4510 Intro. to Clinical Methods and Counseling in CSD (3) BC CSD**

PR: SPA 3004, SPA 3310.

This course introduces the student to fundamental skills and knowledge needed prior to beginning clinical work in speech-language pathology/audiology. Professional/ethical issues, principles of assessment/intervention, & interviewing skills are included.

**SPA 4555 Counseling of Communicatively Handicapped and Family (3) BC CSD**

PR: SPA 3011 and SPA 3310.

Discussion of role of counseling in the treatment of communication disorders. Based on exploration of theoretical constructs, this course demonstrates application of therapeutic methodologies to reduction of communication handicaps.

**SPA 4632 Nature and Needs of the Deaf and Hard of Hearing (3) BC CSD**

A study of the effects of auditory disorders upon the organization and expression of behavioral patterns as they relate to motivation, adjustment and personality.

**SPA 4901 Research, Clinical, and Professional Issues in CSD (3) BC CSD**

This course introduces students to principles of research in CSD & provides an introduction to advanced areas of study in the field. Students are presented with the basic tools of research & will learn about the breadth of research conducted in the field.

**SPA 4906 Independent Study (1-10) BC CSD**

Indep. Study will allow UG students to work independently under the supervision of Faculty members in the pursuit of content gained independently. The course is repeatable for a total of 10 credits. Majors only.

**SPA 4910 Directed Research (1-10) BC CSD**

Directed Research will allow the UG student to obtain supervised research experience under the direction of a Faculty member. The course is repeatable for a total of 10 credits. Majors only.

**SPA 4930 Selected Topics (1-3) BC CSD**

Intensive study of topics in Speech-Language Pathology, Audiology, and/or Aural Rehabilitation conducted under the supervision of a faculty member.

**SPA 4962 Undergraduate Comprehensive Examination (1) BC CSD**

PR: INT 4250.

This purpose of this course is to ensure that graduates from ITT are thoroughly prepared for entry into the job market. For majors only and repeatable if necessary. It consists of 2 parts: individual meetings with an advisor and a comprehensive exam.

**SPA 4970 Honors Thesis (1-10) BC CSD**

The student, under the supervision of a Faculty member will formalize, conduct, analyze and report in writing a research project in the Department of Communication Sciences and Disorders. The course is repeatable for a total of 10 credits. Majors only.

**SPA 5120 Psychoacoustics (3) BC CSD**

Relationship between physical auditory stimuli and psychological response. Human perception of intensity, loudness, frequency, and pitch. Impact of cochlear hearing loss and age on auditory perception. Measurement of auditory perception.

**SPA 5132 Audiology Instrumentation (3) BC CSD**

PR: SPA 5120, SPA 6930, SPA 5506.

Instruction in the use of clinical and laboratory instrumentation. Emphasis placed on electronic circuitry, signal generation, filtering, and calibration. Hands-on experience with equipment typically used in clinical auditory research will be provided.

**SPA 5133C Speech Science Instrumentation (3) BC CSD**

PR: SPA 3011 or equivalent.

Underlying principles and laboratory exercises in the use of audio recording, acoustic analysis, and clinical instrumentation.

**SPA 5153 Quantitative Problem Solving in Speech Pathology and Audiology (3) BC CSD**

Covers fundamental mathematical and statistical concepts underlying the field of Communication Sciences and Disorders and application of these concepts to practical and clinical problems. Not restricted to majors or repeatable for credit.

**SPA 5204 Advanced Clinical Phonology (3) BC CSD**

The principles of generative phonology will be applied to the assessment and treatment of phonological disorders. Emphasis is placed on making a child's phonology more functional for communication purposes.

**SPA 5303 Auditory Anatomy and Physiology (3) BC CSD**

Provide a comprehensive understanding of the physiological acoustics of the auditory periphery, neuroanatomy and electrophysiology of the central auditory system, and psychoacoustic principles as they relate to clinical audiologic measurement paradigms.

**SPA 5328 Rehabilitative Audiology for Adults (3) BC CSD**

# COURSE DESCRIPTIONS

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Assess and manage persons with hearing loss. Effects of hearing impairment, assessment issues, and appropriate intervention strategies. Prosthetic intervention, perceptual intervention, communication strategies intervention, and counseling issues.

**SPA 5403 Language-Learning in the School-Age Years (3) BC CSD**

Metalinguistic and metacognitive development are linked to the interactional demands of classroom and clinical discourse; observational tools are applied to evaluation and intervention planning.

**SPA 5506 Speech-Language Pathology and Audiology Practicum (1-8) BC CSD**

Participation in speech-language pathology and audiology practicum in the University Communication Disorders Center and selected field settings.

**SPA 5552 Diagnostic Principles and Practices (3) BC CSD**

The administration, evaluation, and reporting of diagnostic tests and procedures used in assessment of speech and language disorders.

**SPC 2608 Public Speaking CAHU (3) AS SPE**

The nature and basic principles of human communication; emphasis on improving speaking and listening skills common to all forms of oral communication through a variety of experiences in public discourse.

**SPC 3212 Communication Theory (3) AS SPE**

PR: SPC 2608 and COM 2000 each with C- or above

The study of source, message, and receiver variables in human communication; communication settings; descriptive and predictive models of communication; communication as a process.

**SPC 3230 Rhetorical Theory (3) AS SPE**

PR: SPC 2608 and COM 2000 each with C- or above

This course surveys the foundations and historical evolution of major concepts, issues, theorists, and approaches to the study of rhetoric from Plato to recent contemporary theorists.

**SPC 3301 Interpersonal Communication CASB (3) AS SPE**

A study of interpersonal communication in informally structured settings with emphasis on the understanding, description, and analysis of human communication.

**SPC 3425 Group Communication 6AC (3) AS SPE**

PR: SPC 2608 and COM 2000 each with C- or above

A survey of theory and research in group communication. Group discussions and communication exercises to increase awareness of the dynamics of human communication in small group settings.

**SPC 3513 Argumentation and Debate (3) AS SPE**

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) AS SPE**

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) AS SPE**

PR: SPC 2608 and COM 2000 each with 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) AS SPE**

PR: COM 2000 with C

Analysis of public communication with emphasis on various presentational forms.

**SPC 3680 Rhetorical Analysis (3) AS SPE**

PR: SPC 2608 and COM 2000 each with C- or above

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 CAGC HHCP (3) AS SPE**

Examination of communication and cultural diversity within the United States. Cultural groups include gender, racial and ethnic (e.g., African American, Latino American, Asian American), social class, age and generation, religious (e.g. Jewish) and physical ability.

**SPC 4201 Oral Tradition (3) AS SPE**

Study of orality, its forms, functions, and transformations, in traditional and literate societies from folkloric and psychological traditions and from contemporary communication and cultural studies perspectives.

**SPC 4305 Communicating Emotions 6AC (3) AS SPE**

PR: COM 2000 with C or above

Study of emotional experience, what emotions mean to us, how we talk about them, and the ways group and cultural membership influence them. Focus on attachment and loss in romantic, family and group relationships.

**SPC 4307 Talk in Relationships (3) AS SPE**

PR: SPC 3301.

Explores talk as practical action through observation, transcription, and analysis. For majors only; non-majors by permit. May not be repeated for credit.

**SPC 4310 Relationships on Film (3) AS SPE**

PR: COM 2000 with C

Examination of the ways in which cinema inscribes conceptions and meanings of romance,



# COURSE DESCRIPTIONS

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- love, intimacy and sexuality. Focus on systems of interpretation fostered by cinema representations of intimacy, sexuality, emotion, subjectivity, and betrayal.
- SPC 4321 Communication and Aging (3) AS SPE**  
PR: SPC 3301.  
Examines theories of aging through intergenerational and interpersonal communication, explores aging in the media, and considers contexts of communication in older adulthood. Majors only; non-majors by permit only. May not be repeated for credit.
- SPC 4431 Family Communication (3) AS SPE**  
PR: SPC 3301 and COM 2000 with C- or above  
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 6AC (3) AS SPE**  
PR: SPC 3230 or SPC 3680.  
This course examines how social change is symbolized and motivated in the rhetorics of institutions, campaigns, social movements and individuals.
- SPC 4683 Rhetorical Analysis of Mass Media (3) AS SPE**  
PR: SPC 3230 or SPC 3680, SPC 2608 and COM 2000 each with a C  
An introduction to the criticism of media forms and effects. Contemporary perspectives on the aesthetic and persuasive dimensions of mass media are examined. Students will engage in critical study of media artifacts.
- SPC 4701 Intercultural Communication (3) AS SPE**  
PR: COM 2000.  
Explores issues of culture, power, and politics inherent in the ways we practice intercultural communication. For majors only; non-majors by permit only. May not be repeated for credit.
- SPC 4714 Communication, Culture and Community (3) AS SPE**  
Examines the relationships among culture, communication, institutions, and public and private life. Students explore the possibilities and problems of contemporary forms of community through service in a volunteer organization.
- SPC 4900 Directed Readings (1-3) AS SPE**  
PR: COM 2000  
Individualized reading with professor to complement undergraduate research projects.
- SPC 4903 Honors Readings (3) AS SPE**  
PR: COM 2000 AND SPC 2608 with grades of C or better.  
Focused readings directed toward preparation of a proposal for an undergraduate honors thesis.
- SPC 4905 Undergraduate Research (1-3) AS SPE**  
PR: COM 2000  
Individual investigations with faculty supervision.
- SPC 4930 Selected Topics (1-3) AS SPE**  
Variable topics.
- SPC 4932 Senior Seminar in Communication (3) AS SPE**  
PR: COM 2000  
Exploration of selected topics of current significance to the several areas of communication through group discussion and research.
- SPC 4970 Honors Thesis (3) AS SPE**  
Involves individual research and preparation of an undergraduate honors thesis.
- SPC 5930 Topics in Discourse (3) AS SPE**  
Variable topics course.
- SPM 3012 Issues in Sport (3) ED EDP**  
A study of organized sport as a pervasive part of contemporary society. By increasing understanding of some of the issues and controversies based on the structure of sport and society, individuals will be able to understand and improve sport experiences for themselves and others.
- SPM 3256 Sport in Society: Contemporary Issues (3) ED EDP**  
A study of organized sport in society. Individuals will be able to understand issues such as race, social class, gender, politics, religion, economics, media, physical disabilities, sexual orientation, and ethics as they relate to sports.
- SPN 1120 Beginning Spanish I (4) AS WLE**  
Development of basic skills in listening and reading comprehension, speaking and writing of Spanish.
- SPN 1121 Beginning Spanish II (4) AS WLE**  
PR: SPN 1120 or equivalent  
Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish.
- SPN 2200 Spanish III (3) AS WLE**  
PR: SPN 1121 or equivalent.  
Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish.
- SPN 2201 Spanish IV (3) AS WLE**  
PR: SPN 2200 or equivalent.  
Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish.
- SPN 2240 Conversation I (3) AS WLE**  
PR: SPN 2201.  
For development of basic conversational skills.
- SPN 2241 Conversation II (3) AS WLE**  
PR: SPN 2240 or equivalent.  
To improve fluency in spoken Spanish.
- SPN 2270 Overseas Study (1-6) AS WLE**  
PR: SPN 1121.  
An intensive study-travel program in a Spanish-speaking country.
- SPN 2340 Advanced Spanish for Native Speakers I (3) AS WLE**

# COURSE DESCRIPTIONS

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- Course for native and near-native speakers of Spanish due to home environment and/or residence in a Spanish speaking country, but without formal training in the language. Emphasis on cultural exploration and the grammatical problems of such speakers.
- SPN 2341 Advanced Spanish for Native Speakers II (3) AS WLE**  
PR: SPN 2340  
Continuation of SPN 3340. Course for native and near-native speakers of Spanish due to home environment and/or residence in a Spanish speaking country, but with limited or no training in the language. Emphasis on grammar problems affecting such speakers.
- SPN 3300 Advanced Spanish Grammar and Composition (3) AS WLE**  
PR: SPN 2201 or equivalent.  
A study of syntax, grammar and writing.
- SPN 3440 Spanish for Business and International Trade I (3) AS WLE**  
PR: SPN 2201 or equivalent.  
A study of vocabulary and business practices of the Spanish speaking world. Overview of cultural differences within the Spanish speaking world, with emphasis on their impact on business and international trade.
- SPN 3441 Spanish for Business and International Trade II (3) AS WLE**  
PR: SPN 3440 or equivalent.  
Continuation of SPN 3440. A study of vocabulary and business practices of the Spanish speaking world. Overview of cultural differences within the Spanish speaking world, with emphasis on their impact on business and international trade.
- SPN 3500 Spanish Civilization (3) AS WLE**  
PR: SPN 2201 or equivalent.  
The culture and civilization of Spain. For majors and non-majors.
- SPN 3514 The Three Cultures of Medieval Spain (3) AS WLE**  
In this course students will have the opportunity to explore the history and traditions of three of the world's leading religions in the context of the Iberian Peninsula and its Jewish, Christian, and Arabic past.
- SPN 3520 Spanish American Civilization (3) AS WLE**  
PR: SPN 2201 or equivalent.  
Readings and discussions on the culture and civilization of Spanish America. For majors and non-majors.
- SPN 3564 Spain Today: Culture and Politics in the Media (3) AS WLE**  
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) AS WLE**  
PR: SPN 3300 or SPN 2340.
- Practical training in contemporary Spanish structure, usage and stylistic devices.
- SPN 4410 Advanced Conversation (3) AS WLE**  
PR: SPN 2241 or equivalent.  
Intensive practice in the formulation and expression of ideas in standard Spanish.
- SPN 4470 Advanced Overseas Study (1-6) AS WLE**  
PR: SPN 2270.  
Intensive language study in Spain.
- SPN 4700 Spanish Linguistics (3) AS WLE**  
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) AS WLE**  
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) AS WLE**  
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) AS WLE**  
This course analyzes major literary works from Spain and Latin America. Through a selection of works from the medieval period to the present students will view the intellectual and cultural history of the Spanish speaking world.
- SPW 3030 Introduction to Hispanic Literary Studies (3) AS WLE**  
PR: SPN 3300 or SPN 2340.  
Prose fiction, drama, poetry, and essay; techniques of literary analysis.
- SPW 4100 Survey of Spanish Literature I (3) AS WLE**  
PR: SPW 3030 or equivalent.  
A study of Spanish literature from its origins through the 17th century.
- SPW 4101 Survey of Spanish Literature II (3) AS WLE**  
PR: SPW 3030 or equivalent.  
A study of the later periods of Spanish literature.
- SPW 4130 Survey of Spanish American Literature I (3) AS WLE**  
PR: SPW 3030 or equivalent.  
Introduction to the study of Spanish American literature from the Discovery to the Romantic period. Emphasis will be on foundational writers of history, descriptive and lyric poetry, theater, fiction and essay.
- SPW 4131 Survey of Spanish-American Literature II (3) AS WLE**  
PR: SPW 3030 or equivalent.

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- An introduction to the study of Spanish-American literature from the Modernism period to the present. Emphasis on modern writers since Dario.
- SPW 4311 The Creative Genius of the Golden Age (3) AS WLE**  
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.
- SPW 4900 Directed Study (1-3) AS WLE**
- SPW 4930 Selected Topics (1-3) AS WLE**  
Study of an author, movement or theme.
- SPW 5135 Colonial Spanish American Literature (3) AS WLE**  
PR: SPW 4131.  
Introduction to Colonial Spanish American Literature from the discovery through the Romantic Period.
- SPW 5339 Golden Age Drama (3) AS WLE**  
PR: SPW 4100.  
Lope de Vega, Alarcon, Tirso, Calderon, and others.
- SPW 5387 Spanish American Prose (3) AS WLE**  
PR: SPW 4131.  
Emphasis on the gaucho theme and contemporary prose fiction.
- SPW 5405 Medieval Literature (3) AS WLE**  
PR: SPW 4100 or equiv.  
Course gives an in-depth study of principal works and authors of the period such as El Poema de Mio Cid, Libro de Buen Amor, and La Celestina.
- SPW 5465 19th Century Literature (3) AS WLE**  
PR: SPW 4101.  
An appreciation of the romantic and realist periods in Spanish literature.
- SPW 5605 Cervantes (3) AS WLE**  
Cervantes' masterpiece Don Quijote de la Mancha.
- SPW 5725 Generation of 1898 (3) AS WLE**  
PR: SPW 4101.  
The major figures of the period and their main followers.
- SPW 5934 Selected Topics (3) AS WLE**  
Study of an author, movement, or theme.
- SSE 4313 Teaching Elementary (K-6) Social Studies (3) ED EDE**  
This course is designed to study techniques and strategies employed by K-6 social studies teachers that are effective in motivating elementary school aged youth to acquire the information, skills, and modes of reasoning unique to the social sciences.
- SSE 4333 Teaching Middle Grades Social Science (3) ED EDI**  
This course is designed to study techniques and strategies employed by social sciences teachers that are effective in motivating teenage youth to acquire the information, skills, and modes of reasoning unique to the social sciences. Students are expected to plan and present instructional plan(s) demonstrating use of various methods, techniques, and material that achieve concrete outcomes. Theoretical foundations of social studies are also studied. Field work is required.
- SSE 4334 Teaching Secondary Grades Social Science (3) ED EDI**  
PR: SSE 4333.  
This course is a continuation of SSE 4333 with further development of the instructional techniques and strategies and the information, skills, and modes of reasoning unique to the social sciences with an emphasis on the secondary school environment. The teaching profession, school settings, legal, and classroom management issues are also studied. Fieldwork in a high school is required.
- SSE 4335 Teaching Social Science Themes (3) ED EDI**  
PR: SSE 4333 for Undergraduate Students; SSE 5331 for Graduate Students;  
The course is a laboratory-based, capstone course in which knowledge, skills, and dispositions are demonstrated by students teaching social studies content using the thematic approaches adopted by the National and State accrediting bodies.
- SSE 4380 Global And Multicultural Perspectives in Education (3) ED EDI**  
PR: EDG 3604 and EDG 4620  
Examination of the major issues surrounding global and multicultural perspectives in education. Available to non-Education majors.
- SSE 4600 Reading and Basic Skills in the Social Studies Class (3) ED EDI**  
Reading skills and other basic skills as applied to the social studies are examined. Students plan and present instruction appropriate to the social studies classroom. Fieldwork in middle or senior high schools is required. Restricted to majors.
- SSE 4936 Senior Seminar in Social Science Education CPST (3) ED EDI**  
CR: SSE 4940.  
Synthesis of teacher candidate's courses and preparation for the professional interview and application process.
- SSE 4940 Internship: Social Science Education (1-12) ED EDI**  
CR: SSE 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.
- SSE 5331 Foundations, Curriculum & Instruction of Social Science Education (3) ED EDI**  
Social studies curriculum, methods of instruction and social, philosophical and psychological foundations are examined. Students are expected to plan and present instructional plan(s)

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appropriate to middle and secondary school levels demonstrating command of the course content.

## **SSE 5332 Methods & Strategies in Social Science Education (3) ED EDI**

Social studies methods and strategies are examined with an emphasis on the secondary school environment. The teaching profession, school settings, and current issues are examined. Students are expected to plan and present instructional plan(s) appropriate to senior high school demonstrating command of the course content.

## **SSE 5641 Reading and Basic Skills in the Content Area (3) ED EDI**

Reading skills and the other basic skills as applied to the social studies are examined. Students are expected to plan and present instructional plan(s) appropriate to the social studies classroom demonstrating command of the course content. Fieldwork in a middle school is required.

## **SSE 5946 Practicum in Social Science Education (3) ED EDI**

PR: SSE 5331.

The course is a practicum course in which pre-service teachers apply the knowledge, skills, and dispositions learned in prerequisite program courses to teach the social studies themes adopted by the National Council for the Social Studies.

## **STA 2023 Introductory Statistics I CAQR 6AM SGEM (3) AS MTH**

PR: C (2.0) or better in High School Algebra or Elementary Algebra CPT score of 72 or better. Descriptive and Inferential Statistics; Principles of Probability Theory, Discrete and Continuous Probability Distributions: Binomial Probability Distribution, Poisson Probability Distribution, Uniform Probability Distribution, Normal Dist and more.

## **STA 2122 Social Science Statistics CAQR 6AM (3) AS ISS**

Students are taught the fundamental vocabulary and symbols of statistics as well as commonly used statistical procedures in social sciences. Students conduct analyses, interpret results and make conclusions about research questions.

## **STA 3024 Introductory Statistics II 6AM (3) AS MTH**

PR: STA 2023

Factorials, ANCOV; multiple curvilinear regression; response surfaces; Latin squares, Split Plots, incomplete designs; distribution free methods.

## **STA 3027 Statistics and Probability Connections (3) AS MTH**

PR: Calculus I.

This course will provide prospective teachers with experiences in statistics and probability theory that will help them develop the specialized content knowledge needed to support the teaching of mathematics in middle level education.

## **STA 4102 Computational Methods for Applied Statistics (3) AS MTH**

PR: STA 2023 and STA 3024.

This course introduces fundamentals of the R and SAS statistical software packages. Topics include data manipulation, graphs, regression, ANOVA, hypothesis testing, and non-parametric tests.

## **STA 4222 Sample Survey Design (3) AS MTH**

PR: STA 2023 and STA 3024.

The course covers common statistical survey design methods, including random sampling, stratified sampling, systematic sampling, and cluster sampling. Other topics include bias and non-sampling errors.

## **STA 4321 Essentials of Statistics 6AM (3) AS MTH**

PR: STA 4442.

Basic statistical methods. Estimation, hypothesis testing, regression, ANOVA, and nonparametric methods.

## **STA 4442 Introduction to Probability 6AM (3) AS MTH**

PR: MAC 2313.

Introduction to probability theory using calculus. Basic ideas of probability and random variables, discrete probability functions, continuous probability densities, joint distributions, transformations of random variables, moments and generating functions of random variables, limit theorems.

## **STA 4502 Nonparametric Statistical Methods (3) AS MTH**

PR: STA 4321.

This course covers the fundamental concepts, and provides examples, of nonparametric statistical methods. Topics to be covered include sample testing, estimation methods, layout models, correlation and regression models, and goodness of fit tests.

## **STA 4504 Categorical Data Analysis (3) AS MTH**

PR: STA 4321.

Fundamental concepts and examples of categorical data analysis. Topics include description and inference using proportions and odd ratios, multi-way contingency tables, logistic regression and other generalized linear models, and log linear models.

## **STA 4702 Multivariate Statistical Methods (3) AS MTH**

PR: STA 4321.

This course covers the fundamental concepts of multivariate analysis. Topics to be covered include Matrix theory and distributions (normal, t, chi-squared, F), inference about multivariate means and inference about covariance structure.

## **STA 4852 Applied Time Series (3) AS MTH**

PR: STA 4321 and STA 4442.

This course covers the fundamental concepts, estimations, and hypothesis testing of discrete time series models. The models will be developed using the autoregressive and moving average processes. Numerous examples will be provided.

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## **STA 4930 Selected Topics (1-3) AS MTH**

Rotating topics designed to meet the need and interests of students.

## **STA 5166 Statistical Methods I (3) AS MTH**

PR: STA 4321

Statistical analysis of data by means of statistics package programs. Regression, ANOVA, discriminant analysis, and analysis of categorical data. Emphasis is on inter-relation between statistical theory, numerical methods, and analysis of real life data.

## **STA 5326 Mathematical Statistics I (3) AS MTH**

PR: STA 5446.

Sample distribution theory, point & interval estimation, optimality theory, statistical decision theory, and hypothesis testing.

## **STA 5446 Probability Theory I (3) AS MTH**

PR: STA 4442 and MAA 4212

Axioms of probability, random variables in Euclidean spaces, moments and moment generating functions, modes of convergence, limit theory for sums of independent random variables.

## **STA 5526 Non-Parametric Statistics (3) AS MTH**

PR: STA 5326

Theory and methods of non-parametric statistics, order statistics, tolerance regions, and their applications.

## **SUR 2101C Engineering Land Surveying (3) EN EGX**

Principles of land surveying for engineering practice. Traverses, levels, boundary surveys, route surveys, coordinate geometry, and mapping.

## **SYA 3110 Classical Theory (3) AS SOC**

PR: SYG 2000

The analysis of the philosophical foundations, central principles, and historical development of Sociological theory. Required for Sociology majors and minors.

## **SYA 3120 Contemporary Theory (3) AS SOC**

PR: SYA 3110 and SYG 2000

An examination of recent trends in sociological theory. Emphasis is on theories examining symbolic interactions, lived experience, popular culture, and social structures.

## **SYA 3300 Research Methods (3) AS SOC**

PR: STA 2122 or equivalent.

Introduction to the scientific method and its application to social science research. Research design, sampling techniques, and critical evaluation of social research. Required for Sociology majors.

## **SYA 3310 Qualitative Inquiry 6AC (3) AS SOC**

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) AS SOC**

PR: Any one of the following: SYG 2000, SYG 2010; WST 2600; WST 3015, WST 2250; WST 3311.

Examines queer theory's radical deconstruction of categories for understanding the possibility of theorizing "women's" and "men's" lives. The primary goal of this course is to introduce students to queer theory and feminist theories of sexuality.

## **SYA 4304 Sociological Research Experience (1-3) AS SOC**

PR: SYG 2000

A flexible-unit course for advanced undergraduate students interested in participating in an ongoing faculty research project. Students will complete selected research tasks (background research, data collection and data analysis) with faculty supervision.

## **SYA 4910 Individual Research (1-3) AS SOC**

PR: Four courses in sociology, including SYA 3300

Content depends on the interest of the student. A contract between the student and the sponsoring faculty member must be signed before class registration.

## **SYA 4930 Topics in Sociology (3) AS SOC**

Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester. This course, in different content areas, may be repeated for credit.

## **SYA 4935 Senior Seminar CPST (3) AS SOC**

PR: SYG 2000, SYA 3110, SYA 3300 plus 6 hours of Sociology electives.

The opportunity for senior sociology majors to apply sociological theory and methods to topics of relevance in today's society.

## **SYA 4949 Sociological Internship (1-6) AS SOC**

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 CASB (3) AS SOC**

This course introduces students to a sociological understanding of race and ethnic relations. Students will analyze sociological theories on race and stratification through readings, lectures, discussion, multimedia, and group research projects.

## **SYD 4238 Immigrants to America (3) AS SOC**

PR: SYG 2000 or SYG 2010.

Examines major sociological debates in the field of immigration with an emphasis on recent immigrants to the United States.

## **SYD 4410 Urban Sociology (3) AS SOC**

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The social structure of the community in modern industrial societies. Analysis of community change.

## **SYD 4411 Urban Life CPST (3) AS SOC**

PR: SYG 2000.

This exit course introduces students to the theory and practice of urban and community research. Students will conduct supervised individual and group research on a Tampa Bay neighborhood of their choice.

## **SYD 4512 Sustainable Consumption (3) AS SOC**

PR: SYG 2000.

1. This course examines the relationship between the current environmental crisis and the consumer lifestyle shared by most Americans that is spreading globally.

## **SYD 4800 Gender and Society (3) AS SOC**

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.

## **SYG 2000 Introduction to Sociology CASB SGES (3) AS SOC**

This course introduces undergraduate students to the discipline of sociology. During the semester, we will analyze sociological theories, core concepts, and issues through readings, lectures, discussions, films, and hands-on research assignments.

## **SYG 2010 Contemporary Social Problems CASB (3) AS SOC**

This course introduces students to a sociological understanding of "contemporary social problems." Drawing on such concepts as culture, deviance and social institutions, we will analyze varying definitions, causes and solutions to these problems.

## **SYG 3011 Social Problems Through Film (3) AS SOC**

PR: SYG 2000 or SYG 2010.

Examines, through films, how sociologists define and study social problems, and investigates the role of the popular media in the construction of social problems. Explores the solutions aimed at social problems in a comparative, international perspective.

## **SYG 3235 Latina/Latino Lives WRIN 6AC (3) AS SOC**

PR: SYG 2000 or SYG 2010.

An exploration of the experiences of Latinas and Latinos in the United States. Examines such sociological themes as oppression, migration, work, family, activism, spirituality, and sexuality through short stories, poetry, and scholarly research.

## **SYO 3120 Sociology of Families (3) AS SOC**

With a goal to understand American families in the present, this course will examine variations in family types by social class, race, ethnicity, and

historical era. Exploration of current controversies about how families should be organized and about what they should do for their members as well as social policies related to families.

## **SYO 3200 Sociology of Religion (3) AS SOC**

PR: SYG 2000

An examination of the meanings of religion lived in experiences in the contemporary United States. Includes the construction and maintenance of religious meanings and communities, the impact of those meanings and communities on daily lives, use and impact of religious discourse in daily lives, social movements motivated by religious beliefs.

## **SYO 3460 Sociology of the Media (3) AS SOC**

PR: SYG 2000 or SYG 2010.

Imparts a familiarity with and working knowledge of the main theories, research, and findings in the sociology of the media. Fosters critical thinking abilities by applying this sociological knowledge to the deconstruction of media images.

## **SYO 3530 Social Inequalities in a Global Society (3) AS SOC**

Introduction to the major concepts and theories used to explain inequality. The topics of race, gender, and sexual orientation will be treated in relation to class, rather than as a parallel dimension of stratification.

## **SYO 4204 Religion and Immigration (3) AS SOC**

PR: SYG 2000

This course examines: 1) how immigrant communities have been, and are currently, influenced by religion; and 2) how immigrant communities have transformed, and are currently transforming, the religious landscape of the U.S.

## **SYO 4250 Sociology of Education (3) AS SOC**

PR: SYG 2000

Application of sociological theory to the social institution of education. Primary attention directed toward the social organization of educational systems.

## **SYO 4400 Medical Sociology (3) AS SOC**

PR: SYG 2000

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 WRIN 6AC (3) AS SOC**

PR: SYG 2000

Examination of the applicability of sociological concepts to the experience of disability, and of disability as a means to a better understanding of the nature of social experience.

## **SYO 4534 Poverty and Society (3) AS SOC**

PR: SYG 2000 or SYG 2010.

Explores poverty by looking at the United States and selected less developed countries around the world. Utilizing sociological theories of poverty, different aspects of poverty will be explored.

## **SYO 4536 Inequalities and Social Justice (3) AS SOC**

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- 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) AS SOC**  
PR: SYG 2000 or SYG 2010.  
Communication networks and the social structures that emerge in them constitute the subject matter for this course: structures of interaction in informal groups and formal organizations, social networks, and class and stratification structures.
- SYO 4573 Social Networks (3) AS SOC**  
PR: SYG 2000 and STA 2122 or equivalent.  
Examines how relationships among individuals organize larger social systems (such as social groups and communities) and how these patterned relationships impact actors within social systems.
- SYP 3000 Social Psychology CASB (3) AS SOC**  
Course explores social forces shaping individual perceptions/behaviors/personality/identity. Addresses our participation in society, how people influence each other, how we act based on beliefs and why & this is important.
- SYP 3004 Constructing Social Problems (3) AS SOC**  
Examination of how activists, media, politicians, and scientists construct public images of social problems; analysis of the process of forming social policy and how public images of social problems shape the characteristics of social service agencies.
- SYP 3060 Sociology of Sexualities (3) AS SOC**  
Explores the interactions, among and between people, and people and institutions that form the boundaries through which sexualities are understood in the United States. Addresses interactions with and within medical and religious institutions, racial/ethnic cultures, families and popular culture.
- SYP 3562 Family Violence (3) AS SOC**  
An exploration of the complexity of the causes and consequences of physical and emotional violence among family members. Topics include the meanings and behaviors of violence, the process of help-seeking, and social interventions for offenders and victims. Open to nonmajors.
- SYP 4012 Emotions in Society (3) AS SOC**  
PR: SYG 2000 or SYG 2010.  
Examines the theories, concepts, and larger social contexts of emotions, and investigates sociological research on feelings such as anger and fear; pride and shame; love, friendship and sympathy; sadness and depression; grief and loss.
- SYP 4111 Identity and Community (3) AS SOC**  
This course is a sociological examination of the meanings of identity in the post-modern era. Topics will include the characteristics of identity at the levels of individuals, institutions, culture, and the processes of identity construction and change.
- SYP 4420 Consumer Culture WRIN 6AC (3) AS SOC**  
PR: SYG 2000  
The exploration of how Americans' purchasing behavior connects to larger historical shifts in our economy, including disenchantment, alienation, inequality, and the rise of the credit card society.
- SYP 4510 Sociological Aspects of Deviance (3) AS SOC**  
The examination of the social construction of deviance: how deviance is defined, implications of deviance designations. Applications of theories of deviance to questions such as motivations of deviants and implications of criminal justice processing of deviants.
- SYP 4513 Elite Deviance (3) AS SOC**  
PR: SYG 2000 or SYG 2010  
The course challenges traditional definitions of deviance by examining social harms caused by the very wealthy, corporations, and large organizations such as the federal government.
- SYP 4530 Sociology of Juvenile Delinquency (3) AS SOC**  
Sociological issues in defining delinquency; the nature of adolescence and delinquency; sociological theories of the causes of delinquency; types and consequences of social control applied to delinquents.
- SYP 4550 Drugs and Society (3) AS SOC**  
Explores the social construction of substance use in the United States. Examines individual users and the popular perspectives on the causes of substance use and abuse such as the medical, psychoanalytic, and sociological models.
- SYP 4650 Sport in Society (3) AS SOC**  
An examination of the broad issues concerning sport in both a historical and contemporary perspective. Sport will be viewed in relation to social institutions, economic considerations, mass media, and the sport group as a micro-social system.
- SYP 4651 Gender, Sport, and the Body (3) AS SOC**  
PR: SYG 2000 or SYG 2010.  
Explores ways sport in U.S. culture is organized by and used to recreate gender in social interaction. Examines the recent history of women in sport and questions the relationship between masculinity, sport participation and women's and men's embodiment.
- SYP 4675 Animals & Society (3) AS SOC**  
PR: SYG 2000.  
Explores the complex role of non-human animals in human society by exploring how we, as humans, socially construct animals.
- SYP 4763 Sociology of Childhood and Youth (3) AS SOC**  
PR: SYG 2000 or SYG 2010.  
Examines a variety of issues including: child-rearing; invention of adolescence; child abuse;

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children's schooling; juvenile delinquency; dating; children in the movies; children as consumers; youth culture and rebellion; transition into adulthood.

## **TAX 4001 Concepts of Federal Income Taxation (3) BA ACC**

PR: ACG 3103 and ACG 3341 with a grade of C or better, not C-.

Major concepts used in taxation of income by federal government including enactment of tax laws, basic tax research, preparation of basic tax returns and exploration of tax policy issues.

## **TAX 5015 Federal Taxation of Business Entities (3) BA ACC**

PR: TAX 4001 with a grade of C or better, not C-. Tax issues encountered by small businesses. Includes tax planning, capital formation and preservation, tax compliance and tax alternatives.

## **THE 2000 Theater and Culture CAFA SGEH (3)**

This course explores the contributions of theater practitioners and audiences to the performance experience, aspects of theater making and an overview of theater history.

## **THE 2020 Introduction to Theatre (3) FA TAR**

An introduction to the art of theatre as part of the larger context of the nature of art itself. The approach will be both chronological and multi-cultural. Required of all theatre majors.

## **THE 2252 Great Performances on Film CAFA HHCP (3) FA TAR**

This class traces the evolution of acting styles as evidenced through 100 years of cinema, and explores how movies and actors have mirrored or influenced cultural, political, and social change.

## **THE 2305 Script Analysis (3) FA TAR**

PR: THE 2020.

This course teaches theatre students the techniques of close reading of dramatic texts.

## **THE 3110 Theatre History I CPST HHCP (3) FA TAR**

PR: THE 2020.

The study of theatrical production in its cultural context, including theatre architecture, scenography, acting and directing from Greek antiquity to the Elizabethan era. Normally fifteen plays will be read.

## **THE 3111 Theatre History II CPST HHCP (3) FA TAR**

PR: THE 2020.

A study of theatrical production in its cultural context including theatre architecture, scenography, acting and directing from Shakespeare to the contemporary stage. Normally fifteen plays will be read.

## **THE 4174 New British Theatre and Drama 6AC (3) FA TAR**

PR: THE 2305

A study of contemporary theatrical practice and key dramatic texts in the British Isles. This course is restricted to majors.

## **THE 4180 Theatre Origins 6AC (3) FA TAR**

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.

An analysis of the development of theatre out of myth, ritual, and liturgy. Emphasis placed on what attempts to understand the resulting phenomena (e.g. Aristotle's Poetics) can teach us about the nature of our art. Either THE 4180 or THE 4562 is required of all theatre majors.

## **THE 4264 History Of Costume (3) FA TAR**

A survey of clothing and dress from Ancient Egypt to the 20th Century with an emphasis on cultural and social influences. (A requirement in the design track/costume.)

## **THE 4283 Architecture And Decoration (3) FA TAR**

A survey of architecture and furniture from ancient Egypt to the 20th Century. (A requirement in the design track/scenic.)

## **THE 4330 Shakespeare for The Theatre WRIN HHCP 6AC (3) FA TAR**

Study of select Shakespeare plays through current and past performance. Examination of texts, filmed rehearsals, scholarly sources, and commercial movies. Performance required in face to face sections.

## **THE 4401 American Drama WRIN HHCP 6AC (3) FA TAR**

THE 4401 examines seminal American plays and high quality film adaptations derived from them. Each play is examined as a script for performance and as an object in an aesthetic, social and historic context.

## **THE 4434 Caribbean Theatre CPST 6AC (3) FA TAR**

PR: THE 2305 and THE 3110 or THE 3111.

A study of plays and popular theatrical forms of the Caribbean including carnival and calypso. The student will investigate the social and political forces that shape the culture of the Caribbean.

## **THE 4480 Drama-Special Topics (3) FA TAR**

PR: THE 3110 or THE 3111.

A study of a significant playwright or grouping of playwrights, e.g. Moliere, Brecht, recent American dramatists.

## **THE 4562 Contemporary Performance Theory CPST HHCP 6AC (3) FA TAR**

PR: THE 3110 or THE 3111 and one from the following: THE 4320, THE 4330, THE 4360, THE 4401, THE 4434, THE 4435, THE 4442, THE 4480.

A seminar for advanced students focusing on theatrical and dramatic theory in relation to actual stage practice.

## **THE 4574 Sport as Performance (3) FA TAR**

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. Spanning topics from the



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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) FA TAR**

Readings in the literature, history and theory of the stage in preparation for Theatre Honors Practicum. Past topics have included New German Theatre, Popular Theatre, New American Theatre, Jacobean Theatre.

## **THE 4594 Honors Practicum (3) FA TAR**

PR: THE 4593.

Honors Practicum grows out of the Honors Seminar and engages students in workshops or production with guest artists. Past artists have included the Free Theatre of Munich, the San Francisco Mime Troupe, playwrights Eric Overmeyer, Jeff Jones and Gary Hill.

## **THE 4595 Honors Thesis (1-3) FA TAR**

PR: THE 4594.

A practical or written thesis related to the seminar and practicum and approved by the departmental honors committee.

## **THE 4905 Directed Studies (1-4) FA TAR**

Independent studies in the various areas of Theatre. Course of study and credits must be assigned prior to registration.

## **THE 4930 Selected Topics In Theatre (1-3) FA TAR**

The content of the course will be governed by student demand and instructor interest. May be lecture or class discussion or studio format.

## **THE 5909 Directed Studies (1-6) FA TAR**

Independent studies in the various areas of Theatre. Course of study and credits must be assigned prior to registration.

## **THE 5931 Selected Topics In Theatre (1-8) FA TAR**

The content of the course will be governed by the student demand and instructor interest. May be lecture or class discussion or studio format.

## **TPA 2200 Introduction to Technical Theatre I (3) FA TAR**

CR: TPA 2290L

An introductory course in technical production including coursework in the areas of scenic construction, theatre production/organization, and sound. Required for Theatre majors. Requires sequential semester enrollment with TPA 2211 and TPA 2291L. Open to non-majors.

## **TPA 2211 Introduction to Technical Theatre II (3) FA TAR**

CR: TPA 2291L

An introductory course in technical production including stage lighting, costume construction, and sound. Required for Theatre majors. Requires sequential semester enrollment with TPA 2200 and TPA 2290L. Open to non-majors.

## **TPA 2220 Introduction to Technical Theatre III (3) FA TAR**

CR: TPA 2220L.

An introductory course designed to acquaint students with a working knowledge of the basic

skills, equipment and terminology in stage lighting production. Open to non-majors.

## **TPA 2220L Technical Theatre Lab III (1) FA TAR**

CR: TPA 2220.

A practical laboratory providing an understanding of the duties associated with lighting crews through hands on production experiences. Open to non-majors.

## **TPA 2248 Workshop In Stage Makeup (1) FA TAR**

Beginning theory and practice in make-up for the stage. Open to non-majors. Theatre majors given preference. A studio course.

## **TPA 2290L Technical Theatre Lab I (1) FA TAR**

CR: TPA 2200

A practical laboratory involving the pre-performance preparation of all technical aspects of a major production such as: painting, sewing, lighting, and sound. Students are assigned two areas of study per semester. Required of all Theatre majors. Open to non-majors.

## **TPA 2291L Technical Theatre Lab II (1) FA TAR**

CR: TPA 2211

A practical laboratory involving the pre-performance preparation of all technical aspects of a major production such as: painting, sewing, lighting, and sound. Students are assigned two areas of study per semester. Required of all Theatre majors. Open to non-majors.

## **TPA 2292 Production Involvement I (1) FA TAR**

PR: TPA 2200, TPA 2290L, TPA 2211, TPA 2291L

The rehearsal, construction, and performance of major theatrical works. Assignments are made by a faculty committee following the students completion of a PI request form, available in the Theatre Office, and enrollment in this course.

## **TPA 3007 Introduction to Design I (3) FA TAR**

PR: TPA 2200, TPA 2211, TPA 2290L, and TPA 2291L.

This course will include lectures, demonstrations, individual student presentations, and studio activities. The course work will provide an introduction to the various aspects of design including: two and three dimensional design, basic presentation and visual communication skills, research, and project analysis/organization.

## **TPA 3008 Introduction to Design II (3) FA TAR**

PR: TPA 3007.

This course will include lectures, demonstrations, individual student presentations, and studio activities. The course work will provide an introduction to the various aspects of design including: two and three dimensional design, basic presentation and visual communication skills, research, and project analysis/organization. Open to non-majors.

## **TPA 3208 Drafting and CAD I (3) FA TAR**

PR: TPA 2200, TPA 2211, TPA 2290L and TPA 2291L.

The course will include lectures, demonstrations, individual student presentations, and studio

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activities. The course work will provide an opportunity to develop skills and techniques in the visual presentation of various design and technical draftings. Open to non-majors.

## **TPA 3223 Lighting: Theory And Practice (3) FA TAR**

Intermediate lighting design course concerned with graphic presentations, color theory, design concepts, and practical experience with computer lighting systems. A requirement in the design track/lighting.

## **TPA 3231 Costume Construction (3) FA TAR**

PR: TPA 3208

A practical course in the drafting of patterns for costuming the actor. Materials, skills, and techniques for construction of costumes and costume accessories will be treated. Included topics are millinery, footwear, jewelry, masks, armor, courtesy; both period and modern.

## **TPA 3251 Drafting and CAD II (3) FA TAR**

PR: TPA 3208

Continuation of TPA 3208. The course will include lectures, demonstrations, field trip(s), individual student presentations, and studio activities. The course work will provide an opportunity to develop your skills and techniques in the visual presentation of various design and technical draftings. Open to non-majors.

## **TPA 3265 Sound For The Stage (3) FA TAR**

PR: TPA 2200, TPA 2290L, TPA 2211, and TPA 2291L.

Basic study of audio components, fundamental properties of sound, multiple channel recording, editing, reproduction and reinforcement. Methods and techniques used in theatre to create sound effects.

## **TPA 3296 Design Practicum (2) FA TAR**

PR: TPA 3008.

This is a studio/laboratory course in the practical aspects of production. The course is intended to provide realized production experience to the advanced theatre design student in such areas as costume, lighting, and scenic design; stage properties design; technical direction; and theatrical production craft/skill areas. The student will be individually mentored by a faculty member through the process of developing and realizing a production design/craft/skill.

## **TPA 3601 Stage Management (2) FA TAR**

PR: TPA 2200, TPA 2290L, TPA 2211, and TPA 2291L.

A practical course in the working organizational function of the stage manager in theatre, dance, opera, and other live performance situations.

## **TPA 4011 Design Studio I (3) FA TAR**

PR: TPA 3008 and TPA 3208 plus two of TPA 3231, TPA 3221, or TPA 3251.

TPA 4011 will include studio design project activities in the areas of costume, lighting, and scenic design. The course work will stress the nature of collaborative work and the various

stages and processes involved with the development of a design from the first meeting to the final paper/model design.

## **TPA 4012 Design Studio II (3) FA TAR**

PR: TPA 4011.

This course will include studio design project activities in the areas of costume, lighting, and scenic design. The course work will stress the nature of collaborative work and the various stages and processes involved with the development of a design from the first meeting to the final paper/model design. Evaluation of the project will emphasize the process followed in the development of the design including thumbnail/idea sketching, research, and production concept. The course will include seminar (production) discussions, lectures, demonstrations, individual and group work, and individual student presentations.

## **TPA 4013 Design Studio III (3) FA TAR**

PR: TPA 4012.

This course will include studio design project activities in an individual's selected primary and secondary areas of costume, lighting, and/or scenic design. The course work will stress the nature of collaborative work and the various stages and processes involved with the development of a design from the first meeting to the final paper/model design.

## **TPA 4045 Costume Design (3) FA TAR**

PR: TPA 3008 AND THE 4264

Stresses collaborative work and the various stages and processes in costume design development, from first meeting to final design; includes seminar discussions, lectures, demonstrations, individual and group work, and individual student presentations.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) FA TAR**

PR: TPA 3007

A practical course in the painting of stage scenery: media and application.

## **TPA 4273 Stage Properties: Techniques And Materials Studio (2) FA TAR**

PR: TPA 3007

Demonstration of and experience with materials used in construction of stage properties. Modeling of prototypes and basic casting techniques. Organization of shop.

## **TPA 4293 Production Involvement II (1) FA TAR**

PR: TPA 2292

The rehearsal, construction, and performance of major theatrical works. Assignments are made by a faculty committee following the student's

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completion of a PI request form, available in the Theatre Office, and enrollment in this course.

**TPA 4298 Advanced Design Practicum (3) FA TAR**  
PR: TPA 4011.

This is a studio/laboratory course in the practical aspects of production. The course is intended to provide realized production experience to the advanced theatre design student in such areas as costume, lighting, and scenic design; stage properties design; technical direction; and theatrical production craft/skill areas. The student will be individually mentored by a faculty member through the process of developing and realizing a production design/craft/skill.

**TPA 4299 Production Involvement Ii (1) FA TAR**

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.

**TPP 2110 Acting I (3) FA TAR**

Exploring the elements basic to acting skills, a participation course. Required of all theatre majors. Open to non-majors.

**TPP 2190 Studio Theatre Performance I (1) FA TAR**

PR: TPP 2110, THE 2020.

A practical laboratory involving the rehearsal and performance of a major production. Activities may include acting, directing, stage management, and the activities of the performance production crews. Placement by audition. If cast in production student must accept role. Required of all Theatre majors. May be repeated. Open to non-majors with CI.

**TPP 2500 Movement for Actors (3) FA TAR**

PR: TPP 2110

A laboratory course in various disciplines or systems and understanding the body's motive powers, with focus on their use for the stage performer.

**TPP 3121 Improvisation I (3) FA TAR**

PR: TPP 2110.

An intensive study in improvisation as an enhancement of the actor's skill. Exercises and theatre games as flexible forms which accommodate improvisation and physical invention are examined and used to develop group creativity.

**TPP 3155 Acting II (3) FA TAR**

Identify and investigate the fundamental elements of acting as applied to scene exploration, rehearsal, and presentation.

**TPP 3230 Laboratory Workshop In Performance (3) FA TAR**

PR: TPP 2110

The content of the course will be governed by student demand and instructor interest.

**TPP 3580 Special Skills In Movement (3) FA TAR**

PR: TPP 2110

Stage combat, circus and acrobatic techniques, and other special techniques of movement.

**TPP 3790 Voice for Actors (3) FA TAR**

PR: TPP 2110

A concentrated laboratory on freeing the breathing function, developing body and oral resonance, and strengthening muscles used on the formation of speech sounds.

**TPP 4140 Styles Of Acting (3) FA TAR**

PR: TPP 4180

Examination of the actor's craft and skills needed to fulfill the demands of classical theatre forms.

**TPP 4180 Acting III (3) FA TAR**

PR: TPP 3155

An acting workshop focusing on application of character development and rehearsal techniques over a sustained period leading toward a project showing at semester's end.

**TPP 4193 Studio Theatre Performance II (1) FA TAR**

PR: TPP 2190.

A practical laboratory involving the rehearsal and performance of a major production. Activities may include acting, directing, stage management, and the activities of the performance production crews. Placement by audition. If cast in production student must accept role. Required of all Theatre majors. May be repeated. Open to non-majors with CI.

**TPP 4221 Audition Workshop for Actors (3) FA TAR**

PR: TPP 3155 or TPP 3921.

Preparation for professional audition; discussion of professional objectives.

**TPP 4310 Directing I (3) FA TAR**

PR: TPP 3155 or TPP 3230.

An elective sequence in directing. A workshop course in which the student first encounters the basic tasks of the director by preparing and directing one or two scenes and then progresses to more complex scene work in a variety of styles and finally proceeds to the short play or theatre pieces.

**TPP 4311 Directing II (3) FA TAR**

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.

**TPP 4600 Writing For The Theatre (3) FA TAR**

PR: TPP 3110 or THE 3111.

An elective sequence in writing, in which the student first encounters the problems unique to dramatic language and situation, then progresses to complexities of character, plot, and stage dynamics. Normally the aim would be to complete several performance-worthy self-contained scenes.

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## **TPP 4920 Senior Workshop For Actors (3) FA TAR**

PR: TPP 2500, TPP 3790, TPP 3155, or TPP 3921.

A workshop in advanced vocal and movement techniques.

## **TPP 4923 Music Theatre Workshop (3) FA TAR**

PR: TPP 2110

Exploration of Musical Theatre materials and performance techniques for the performer. Individual and ensemble work.

## **TSL 4080 ESOL 1 - Curriculum and Pedagogy of ESOL (3) ED EDI**

This course is designed to prepare pre-professional (pre-service) teachers to provide linguistically and culturally appropriate instruction, learning opportunities and assessment for English Language Learners (ELLs) in grades K-12.

## **TSL 4081 ESOL 2 - Literacy Development in English Language Learners (3) ED EDI**

PR: TSL 4080 or FLE 4317.

This course is designed to provide students with a critical understanding of instructional delivery which caters to the linguistic and literacy needs of minority/heritage communities. Providing students with a sociocultural-critical theoretical framework.

## **TSL 4251 ESOL 3 - Applying Linguistics to ESOL Teaching and Testing (3) ED EDI**

PR: TSL 4080 and TSL 4081.

This course provides an overview of the components of language, linking them to methods and techniques of providing comprehensible instruction to English Language Learners (ELLs) and supports the development of professional literacy skills.

## **TSL 4324 ESOL Competencies and Strategies (1-3) ED EDI**

Designed to enable participants to meet the special limitations and cultural educational needs of LEP students in content area classes. Designed to provide a theoretical and practical foundation for ESOL competencies and strategies.

## **TSL 4362 Methodology of Teaching English Overseas (3) AS WLE**

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) ED EDI**

This course is for undergraduate degree holding, preprofessional (preservice) teachers to learn about appropriate instruction, assessment and learning opportunities for Limited English Proficient (LEP) students in the content areas.

## **TSL 5086 ESOL II-Secondary Language & Literacy Acquisition in Children & Adolescents (3) ED EDI**

PR: TSL 5085.

This course is designed to provide students with a critical understanding of instructional delivery which caters for the linguistic and literacy needs of minority / heritage communities.

## **TSL 5242 ESOL III-Language Principles, Acquisition & Assessment for English Language Learners (3) ED EDI**

PR: TSL 5086.

This course provides an overview of the components of language, linking them to methods and techniques of providing comprehensible instruction to LEP students.

## **TSL 5325 ESOL Strategies for Content Area Teachers (3) ED EDI**

Course designed for public school teachers working with limited English Proficient (foreign) students in the classroom. The new ESOL requirements specify that this course be offered to content area teachers and to ESOL teachers.

## **TSL 5326 L2 Reading for ESOL Students across Content Areas (3) ED EDI**

This ESOL course will provide students with understanding of the linguistic and literacy needs of minority/heritage students, and will negotiate issues of second language learning, language varieties, as well as critical literacy and reading.

## **TSL 5371 Methods of Teaching English As A Second Language (3) AS WLE**

Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.

## **TSL 5372 ESOL Curriculum and Instruction (3) AS WLE**

Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.

## **TSL 5440 Language Testing (3) AS WLE**

PR: TSL 5371.

Lecture course on testing English as a second/foreign language.

## **TSL 5525 Cross-Cultural Issues in ESL (3) AS WLE**

PR: LIN 5700.

Lecture course on cultural issues in Teaching English as a Second/Foreign language.

## **TSL 5940 ESOL Practicum (1-3) ED EDI**

PR: FLE 5345 and FLE 5145.

This course is restricted to Education majors and will not be repeatable for credit. A structured field experience with Limited English Proficient students.

## **TTE 4003 Transportation and Society (3) EN EGX**

This course provides a multidisciplinary introduction to transportation and its impacts on society. It explores how transportation interacts with the economy, the environment and the social and political nature of society

## **TTE 4004 Transportation Engineering I (3) EN EGX**

PR: EGN 3321.

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Principles of surface transportation system development, design, and operations; administration, modal characteristics, capacities, and functional classifications; vehicle kinematics, human factors and minimum design standards; traffic flow theory and queuing, capacity and signalization; transportation planning and economics.

## **TTE 4005 Transportation Engineering II (3) EN EGX**

PR: TTE 4004.

Techniques for the geometric route design of surface transportation systems; horizontal and vertical alignments. Spiral curves, superelevations and earthwork analysis; drainage, soils, and a rigid and flexible pavement design; right-of-way acquisition and Environmental 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) EN EGX**

PR: TTE 4004 or equivalent.

Traffic models, intersection analysis, capacity analysis, data methods collection, parking studies, volume and speed studies, freeway management, and advanced technologies.

## **TTE 5501 Transportation Planning and Economics (3) EN EGX**

PR: College Algebra

Fundamentals of urban transportation planning: trip generation, trip distribution, modal split, traffic assignment. Introduction to environmental impact analysis, evaluation and choice of transportation alternatives.

## **TTE 5620 Air Transportation (3) EN EGX**

This is a course for graduate students in the College of Engineering who are interested in air transportation. It covers topics such as, airport management, air traffic flow management, air transport economics, and etc. No registration restrictions.

## **URP 4050 City Planning and Community Development (3) AS SPF**

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) AS SPF**

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) AS SPF**

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 4930 Special Topics in Urban Studies (3) AS SPF**

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 Introduction to Visual Communications (3) AS COM**

PR: MMC 2100 and MMC 3602.

Survey of visual communication theory, techniques and contemporary application in the visual media. Critical examination of visual communication in newspapers, magazines, television, motion pictures and new media.

## **VIC 3943 Visual Communication Practicum (1) AS COM**

Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.

## **WOH 3293 Islam in World History (3) AS HTY**

This course examines the origins, spread, and development of Islam within the context of the main global historical processes and events of the past 1500 years.

## **WST 2250 Female Experience in America CAHU HHCP (3) AS WST**

This course explores the lives and experiences of women and girls in America from 1870 to the present, examining how issues of gender, race, class, ethnicity, and sexuality shaped both their experiences and our historical understanding of their lives.

## **WST 2600 Human Sexual Behavior CASB (3) AS WST**

The dynamics of human sexuality: biological, constitutional, cultural, and psychological aspects. The range of sexual behavior across groups. Sources of beliefs and attitudes about sex, including sex roles and especially human sexuality.

## **WST 3015 Introduction to Women's Studies CASB (3) AS WST**

This course introduces the interdisciplinary field of Women's Studies through a critical examination of the way gender, race, class and sexuality are socially constructed and demonstrates how activism is inherent in Women's Studies discourse.

## **WST 3210 European Feminist History: Pre-18th Century 6AC (3) AS WST**

Survey of European feminist history prior to the 18th century (focusing primarily on Western Europe). Examines women's lives, roles, ideas, as well as origins of Western attitudes toward relation of power to gender, race and class. No prerequisites.

## **WST 3220 European Feminist History: Enlightenment to the Present (3) AS WST**

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- A survey of European feminist history from the 18th century through the 20th century (focusing primarily on Western Europe). Examining women's lives, roles and ideas, as well as the dominant attitudes toward women over this time period.
- WST 3311 Issues in Feminism CASB (3) AS WST**  
Survey of major issues relevant to the female experience: marriage and the family, sexuality, work, creativity.
- WST 3324 Women, Environment and Gender CANL (3) AS WST**  
PR: BSC 1005 or BSC 2010, any Introductory science course from biology, chemistry, physics, public health or WST 4320.  
Investigation of intersection of women's studies, gender and environment with focus on women's health. Exploration of hypothesis formulation and testing, current issues.
- WST 3370 Women and Social Action (3) AS WST**  
Course focuses on ordinary women working collectively in diverse social settings to empower themselves and others to challenge gender stereotypes; to reduce harassment, poverty, violence and homelessness; to enhance health-care and family life and to confront barriers in education, the media and the criminal justice system.
- WST 3412 Women in the Developing World (3) AS WST**  
Survey of status of women in Asia, Africa, Latin and Caribbean America, compared to that in USA, Canada, West Europe, Marxist-Leninist countries. (May also be taken for credit in Government and International Affairs.)
- WST 3620 Men and Sexism (3) AS WST**  
Ways in which sex role conditioning affects the lives of men. Factors in this conditioning and alternatives to masculine sex role models.
- WST 4002 Feminist Research Methods (3) AS WST**  
PR: WST 3015.  
The survey, design, and practice of qualitative and quantitative methods in feminist research. Restricted to majors; non-majors by permission of instructor.
- WST 4110 Women and Social Justice (3) AS WST**  
PR: WST 3015  
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.
- WST 4262 Literature by Women of Color in the Diaspora WRIN 6AC (3) AS WST**  
An introduction to contemporary women writers of color in the U.S.: Native Americans, African Americans, Asian Americans, and Chicanas/U.S. Latinas. Readings will include literature and contextual articles on historical and cultural issues.
- WST 4310 History of Feminism in the U.S. 6AC (3) AS WST**  
A study of feminist critiques of American women's experiences and status, and their implications for women's lives, by 19th- and 20th-century theorists, and how adequately these various critiques address the intersections of gender, class, ethnicity, and race.
- WST 4320 Politics and Issues in Women's Health CASB (3) AS WST**  
This course will focus on celebrating women's health and wholeness: mental, physical, emotional, spiritual, social, economic, and understanding the potential negative effects of institutional and interpersonal oppression on health and wellness.
- WST 4335 Women and Film (3) AS WST**  
A study of representation of women in films and the responses of feminist film theorists and filmmakers.
- WST 4350 Women and Science (3) AS WST**  
An examination of selected issues related to women and the natural and physical sciences including: historical participation of women in science, current status of women in science, and feminist critiques of science as a discipline.
- WST 4410 Postcolonial Women Writers (3) AS WST**  
Introduces the literature of women from various Anglophone countries in Africa, the Caribbean, and South Asia; some U.S. writers will be included to represent a third world diasporic consciousness.
- WST 4522 Classics in Feminist Theory CAHU HHCP (3) AS WST**  
Introduces students to first and second wave feminist theories, which explain the pervasiveness of sexist, racist, classist, heterosexist bias in our everyday lives.
- WST 4561 Contemporary Feminist Theory (3) AS WST**  
PR: one upper division Women's Studies course.  
An exposure to and an exploration of a wide range of current feminist theories and debates, as well as an examination of the possible political and practical implications for various theoretical positions.
- WST 4900 Directed Readings (1-3) AS WST**  
To provide advanced students with interdisciplinary research experience in areas of specific interest.
- WST 4910 Directed Research (1-3) AS WST**  
To provide advanced students with interdisciplinary research experience in areas of specific interest.
- WST 4930 Selected Topics (1-3) AS WST**  
Study in special areas such as Women and Work, Reproductive Law, Women and Health.
- WST 4935 Capstone/Senior Project CPST (3) AS WST**  
PR: 24 credit hours in Women's Studies.

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Recognizing the interplay between personal connections and intellectual experience, this capstone course is designed to focus on topical areas related to women's studies and facilitate linking student learning experience to future plans.

## **WST 4940 Internship in Women's & Gender Studies (1-3) AS WST**

PR: 12 credits of Women's Studies courses. Supervised work-and-learning experience in women's and gender studies under the direction of a University faculty member/administrator and an employee of a sponsor organization. Restricted to majors only. Repeatable once for a total of 6 credit hours.

## **WST 5308 Feminist Spirituality (3) AS WST**

Open to non-majors. Focuses on the many voices of contemporary feminist spirituality, emerging from women's experiences in diverse religious, ethnic and cultural traditions, and representing a range of theoretical perspectives from biblical feminism to goddess worship and wicca.

## **WST 5934 Selected Topics (1-4) AS WST**

Study of current research methods and scholarship on women from a multidisciplinary perspective.

## **WST 5940 Internship in Women's Studies (3-6) AS WST**

Student placement in an approved intern setting for a minimum of 240 hours of supervised experience. S/U only.

## **ZOO 2303 Vertebrate Zoology (3) AS BIN**

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L.

The origin, diversity, and adaptations of the vertebrates. Phylogenetic systematics (cladistics) will be used as the basis for determining evolutionary relationships of organisms. Monophyletic groupings provide a framework for examining behavior, physiology, and ecology in an explicit evolutionary context. Vertebrates common to Florida and the southeastern United States will be emphasized.

## **ZOO 2710C Anatomy of Chordates (4) AS BIN**

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L.

Anatomy of selected vertebrate types emphasizing evolutionary trends. Lec.-lab.

## **ZOO 3205C Advanced Invertebrate Zoology (4) AS BIN**

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2045, CHM 2046, plus completion of one of the following Biology core courses: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712.

Phylogeny, taxonomy, development, physiology, macro-, microanatomy and natural history of marine/freshwater dwelling invertebrate phyla (including protists and excluding parasites and insects) covered in integrated manner. Extensive lab work/Some fieldwork.

## **ZOO 3407 Biology of Sharks and Rays (3) AS BIN**

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2045, CHM 2046 OR CALCULUS (MAC 2241, 2281, 2311) OR STA 2023.

The course explores the diversity, taxonomy, anatomy, behavior, ecology, physiology, reproductive biology, growth, life history, and habitat use of sharks/rays, providing students with an in-depth view of the biology of sharks and their relatives.

## **ZOO 3407L Biology of Sharks and Rays Laboratory (1) AS BIN**

CR: ZOO 3407.

The laboratory portion of ZOO 3407 Biology of Sharks and Rays.

## **ZOO 3713C Comparative Vertebrate Anatomy (5) AS BIN**

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course, or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712.

Anatomy of selected vertebrate types emphasizing evolutionary trends. Lecture and Laboratory.

## **ZOO 4233 Parasitology (3) AS BIN**

PR: BSC 2011, BSC 2011L and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023.

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) AS BIN**

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2045, CHM 2046, 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) AS BIN**

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2045, CHM 2046, ZOO 3713C or PCB 3712 or BSC 2093C or ZOO 2303.

Covers the systematics, anatomy, physiology, reproductive biology, behavior and ecology of fish.

## **ZOO 4454L Fish Biology Lab (1) AS BIN**

PR: ZOO 4454.

This is a lab course in fish biology designed to familiarize undergraduate students with the anatomy, ecology, behavior, and classification of fishes.

## **ZOO 4512 Sociobiology (3) AS BIN**

An analysis of Animal and human behavior such as sex, territoriality, and aggression in the context of evolution.

## **ZOO 4513 Animal Behavior (3) AS BIN**

PR: PCB 3023 or PCB 3043 or PCB 3063 & CHM 2210 & MAC 1105 or higher-level MAC course or STA 2023

CPR: CHM 2211.

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An introduction to comparative animal behavior, with analysis of types of animal behavior, their function and evolutionary origin. Lecture only.

**ZOO 4694 Developmental Biology (3) AS BCM**

PR: PCB 3023, BSC 2011, BSC 2011L, BSC 2010, BSC 2010L CHM 2045, and CHM 2046.

This course will use a problem solving approach to provide fundamental knowledge of scientific concepts and principles involved in the mechanisms underlying patterns of embryonic development for majors/nonmajors

**ZOO 4753 Human Histology & Molecular Pathology of Disease (3) AS BCM**

PR: PCB 3023, PCB 3063, CHM2210 and MAC1105 or higher level MAC or STA2023.  
CPR: CHM 2211.

The study of cellular and molecular mechanisms underlying various disease states of the human body present in the context of traditional pathology.

**ZOO 4753L Human Histology and Molecular Pathology of Disease Laboratory (1) AS BCM**

CR: ZOO 4753

Laboratory associated with Human Histology and Molecular Pathology of Disease.

**ZOO 5456L Ichthyology Lab (1) AS BIN**

CPR: ZOO 5456

Laboratory portion of Ichthyology relating to evolution, systematics, structure, behavior, physiology and ecology of fishes.

**ZOO 5463C Herpetology (4) AS BIN**

Major aspects of amphibian and reptilian biology emphasizing fossil history, evolutionary morphology, sensory physiology, life history and reproductive behavior. Lec.-lab. Field trip.

**ZOO 5555C Marine Animal Ecology (4) AS BIN**

PR: PCB 3043

Investigation of energy flow, biogeochemical cycles, and community structure in marine environments. Lec.-lab.



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