PAD 5700 Research Methods in Public Administration
PAD 5807 Administration of Urban Affairs
PAD 5836 Comparative Public Administration

For further information, please contact the Public Administration Program.

- HISTORY (HTY)
  The discipline of history embraces a world of ideas, peoples, and events. Our faculty seek to inform and question, to provoke, and to challenge our students to a higher level of understanding of the past. History at South Florida offers the student an opportunity to explore civilizations from around the globe and from the ancient through contemporary eras. We encourage diversification. Our faculty endeavors to move students beyond traditional memorization of material to a critical level of thinking, analysis, and synthesis.

Requirements for the Major in History
A minimum of 32 semester hours is required for a major in history. Twelve hours of 2000 level courses, or their equivalent, constitute the lower level requirements. At least 12 hours of course work must be drawn from the 3000-4000 level in addition to HIS 4104 and 4936, which constitute the upper level requirements for the degree. A minimum grade of "C" or better must be attained in each course counted for the 32 hours of history. Grades of "D" or "F" in history coursework will, however, be used in calculating the major GPA unless the course is retaken under the grade forgiveness policy. It is recommended that history minors take ENC 3310, "Advanced Expository Writing," SPC 2023, "Fundamentals of Speech Communication," LIS 2001, "Information Resources and Library Research," CGS 2080 and CGS 3060 (computer service courses), and additional hours drawn from the following disciplines: African Studies, American Studies, Anthropology, Economics, Geography, Government and International Affairs, Psychology, Philosophy, Sociology, Women's Studies, Literature, the Humanities, and the Fine Arts. Majors intending to pursue graduate work should take a minimum of two years of classical or modern foreign language.

Requirements for the Minor
The minor in History entails a 15-hour program organized and contracted by the student and the department around the specific needs of the student's major program. A minimum of 8 hours must be completed at the University of South Florida and the student must maintain a 2.0 GPA in the minor. Certification of the minor will be supervised by the department. Students interested in a minor in history are encouraged to see the History department advisor as early in their undergraduate program as possible.

- HUMANITIES & AMERICAN STUDIES (HUM/AMS)
  The Department of Humanities and American Studies offers students a choice of two undergraduate degrees, one in Humanities and one in American Studies. Students may also minor in each area. For more specific details, students are advised to consult the description of each specific program below.

HUMANITIES (HUM)
The Humanities Program is an interdisciplinary curriculum that deals with the visual arts, music, literature and the culture from which they emerge. Secondary sources are used sparingly; students are encouraged to make a vigorous, personal response to specific works of art, literature, and music.

Requirements for the Major in Humanities:
The curriculum for the Humanities major comprises interdisciplinary courses in the verbal, visual and musical arts of specified periods and cultures. Course requirements are as follows:

1. 28 credits of Humanities courses. Not over 2 courses or eight of these 28 credits may be taken below the 3000-level.
2. Humanities 4931, Seminar in Humanities, four credit hours.
3. Two or more classes in the creative or performing arts, either lower or upper level, totaling at least four semester hours.
4. Majors must earn a "C" or better in all Humanities courses.

Requirements for the Minor in Humanities:
The curriculum for the Humanities minor is comparable to that of the program for the B.A. degree, but it is less comprehensive. Course requirements are as follows:
1. Eighteen semester hours of Humanities courses.
2. Not over eight of these eighteen hours may be taken below the 3000 level.

AMERICAN STUDIES (AMS)
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 which emphasizes the diversity of American people and institutions; the importance of gender, race, ethnicity and social class; the material and technological foundations of American society; the development of distinctive regions within the United States; and creative expression in art, architecture, film, literature, music and photography.

Requirements for the Major in American Studies:
36 credit hours, including AMS 3001, AMS 3210, AMS 4935, AMS 4936, either AMS 3201 or AMS 3230, a minimum of 8 additional credit hours in other AMS courses and a minimum of 8 additional elective hours selected from AMS and/or related disciplines in consultation with the Undergraduate Director.

Requirements for the Minor in American Studies:
18 credit hours, including AMS 3001 and a minimum of 8 credit hours of other AMS courses plus a minimum of 6 additional elective hours selected from AMS and/or related disciplines in consultation with the Undergraduate Director.

- INTERDISCIPLINARY NATURAL SCIENCES (INB/INC/ING/INL/INM/INP)
The Bachelor of Arts in the Interdisciplinary Natural Sciences major is designed for majors seeking a broad program in the natural sciences and for majors in Science Education and Mathematics Education. Concentrations exist in Interdisciplinary Natural Sciences-Biology (INB), Interdisciplinary Natural Sciences-Chemistry (INC), Interdisciplinary Natural Sciences-Geology (ING), Interdisciplinary Natural Sciences-Mathematics (INM), and Interdisciplinary Natural Sciences-Physics (INP). For information on teacher certification in science or mathematics, prospective teachers should consult the section entitled Teacher Education Programs, and also consult the College of Education section of the catalog. The requirements for graduation for this degree are the same as those contained in Arts and Sciences General Requirements for Degree except that item-2 of the requirements is altered as follows:
1a. For Science Education and Mathematics Education Majors, only completion of a major consisting of a minimum of 45 hours in natural sciences courses applicable to majors in the natural sciences. In these emphases, there must be a minimum of 24 credit hours in a discipline of major concentration and a minimum of 16 credit hours in supporting courses outside the discipline of major concentration selected from natural science courses. At least two of the supporting courses must be at the 3000 level or above. The student must earn a grade of "C" or better in each course.
in the major concentration and in each supporting course.

1b. For Biology (INB), Chemistry (INC), Geology (ING), Mathematics (INM), and Physics (INP) concentrations, completion of a minimum of 45 credit hours in natural courses applicable to the natural sciences majors. In these hours there must be a minimum of 24 credit hours in a discipline of major concentration and a minimum core of supporting courses comprising a calculus sequence and the introductory science sequence from each of the following departments:

BSC 2010C (4)
BSC 2011C (4)
CHM 2041 (3)  CHM 2046(3)
CHM 2045L (1)  CHM 2046L(1)
MAC 3233(4)  MAC 3311(4)  or MAC 3281(3)
MAC 3234(4)  or MAC 3312(4)  or MAC 3282(3)

The student must earn a grade of "C" or better in the major concentration and in each supporting course.

Supporting Courses:

BSC 2041 (3) & CHM 2046(3)
MAC 3233 (4)  MAC 3311(4)  or MAC 3281(3)
MAC 3234 (4)  or MAC 3312(4)  or MAC 3282 (3)

Unstructured courses are not counted to fulfill the major requirements.

1c. The Clinical Laboratory Sciences emphasis is designed to prepare students for application to a clinical program in Medical Technology or Cytology following graduation or employment in a laboratory. Students planning to apply to clinical programs in Medical Technology need to include a course in Immunology. Students contemplating graduate study should pursue a major in the discipline of their interest, such as Biology, Chemistry, or Microbiology. For the Clinical Laboratory Sciences emphasis, completion of a minimum of 54 credit hours in natural sciences with a "C" or higher in each major and supporting course.

Supporting Courses:

BSC 2011C (4)  CHM 2041 (3) & CHM 2046L (1)
BSC 2010C (4)  CHM 2046 (3) & CHM 2046L (1)
MAC 3233C (4)  STA 3023 (4)

Major Courses:

MCB 3030C (4)
CHM 3200 or 3210 and 3211 (4-8)
CHM 3210C (2)
BCH 3023 or CHS 4300 (3)

Two (2) Biology major electives with lab (min. 6 hours)

Select from the following list noting prerequisites where applicable:

BOT 4434C  PCB 4064C
MCB 4115  PCB 5115C
MCB 4404C  PCB 5235
PCB 3023C  ZOO 4753C

Majors sciences electives in Biology, Chemistry, or Physics to total minimum of 54 hours. Select from the following list, noting prerequisites where applicable, and not duplicating courses used to meet the above requirements:

PCB 3023C  MCB 4562  CHM 3120C
PCB 3063  MCB 5206  CHM 4060
PCB 4064C  MCB 5815  CHS 4100C
PCB 5115C  PCB 4723C  CHS 4300
PCB 5525  ZOO 4753C  CHS 4301L
BOT 4434C  ZOO 5235  PHY 3053
MCB 4115  BCH 3023  PHY 3053L
MCB 4404C  BCH 3031  PHY 3054
MCB 4486  BCH 4034  PHY 3054L

Note: Transfer students with credit for two semesters of anatomy and physiology with laboratories may substitute these courses for BSC 2011.

Computer competency is essential for work in a modern laboratory. Students lacking computer skills should take CGS 2060.

**INTERDISCIPLINARY SOCIAL SCIENCES (ISS)**

This program of study 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 variety of courses, and an opportunity to design a quality program of study geared toward individual needs and interests. Students plan their program in ongoing consultation with the advisor who approves each individual curriculum contract.

Specific requirements for a B.A. degree in Interdisciplinary Social Sciences (ISS) include:

1. required core courses for the major are ISS 3010, ISS 4935, and STA 3122.
2. the ISS student chooses between two cognate areas and completes twelve hours in each. Twenty available cognates (listed below) range from Africana Studies, to Criminal Justice, Sociology, and Women's Studies. Three special electives--emphasizing cultural diversity--are added.
3. It is suggested that the student work out a program of study at the outset of the junior year, particularly before too many courses are completed in CAS. No student should assume that courses already completed in CAS will automatically count toward the ISS degree.
4. the completion of 42 approved hours of course work from the College of Arts and Sciences (CAS), with a minimum of 30 hours at the 3000 or above level.
5. students must maintain a minimum grade point average of 2.0 in ISS to graduate.
6. other personal curricula may be tailored for those highly motivated students, with a minimum grade point average of 3.2, developed with the approval of the advisor. This course of study will be directed toward the special educational interests of these students. An in-depth Honors Research Paper will be required of students taking this option.
7. students in Communications Sciences and Disorders major in ISS with an emphasis in (a) Speech and Hearing Science, (b) Interpreter Training for the Deaf, or (c) American Sign Language. Advising for this concentration is handled at the Communication Sciences and Disorders Department.

No transfer courses with grades of "D" are acceptable for credit in the ISS major.

**COGNATE AREAS** - you select two areas, and take 12 hours in each. Cognates must be selected from the areas of study listed below:

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**AFS, ANT, CCJ, EGN, EVM, EVC, GEY, GNP, GYP, HTY, HUM, HUS, INT, ISA, ISH, LAS, PAD, POL, PSY, SOC, SOW, and WST.**

**Interdisciplinary Core Courses**

Two of these courses, an introductory course (3010) and the senior seminar (4935), introduce and employ the interdisciplinary social science perspective. These courses involve students in the study of human systems; the various concepts, theories and methods studied in the social sciences; and apply them to the issues of the day. Social Science Statistics is the third core course required for majors in Interdisciplinary Social Sciences.

**LIBERAL STUDIES (ALA)**

The Liberal Studies Degree is conceived to fulfill the intent of the traditional Liberal Arts degree and is offered for students who require a broad academic approach for realization of their conceived academic or pre-professional goals.

For admission to the program, the students must (1) have a minimum of 20 (to a maximum of 80) semester hours, (2)
have a minimum overall grade point average of 3.00 at the time of admission, and (3) submit a written proposal explaining the student's special academic circumstances and goals for which this major is appropriate. This proposal must be approved by a faculty committee of three professors (Chair to be selected by the student) to be assembled by the student and the Director in the Dean's Office.

The student must complete the General Education Requirements (and all other university requirements), and a minimum of 4 semesters of one foreign language. The remaining hours will be devoted to interdisciplinary study in the College of Arts and Sciences. Ideally, the 90 hours will include courses in the sciences, letters, and social and behavioral sciences. In the student's last semester, a senior paper must be approved by the faculty committee.

When admitted to the program, the student will formulate, in collaboration with the faculty committee, a program of studies to be pursued toward his/her particular academic goals. For information, contact the Coordinator of Advising in SOC 102.

**LANGUAGES AND LINGUISTICS**

The Division of Languages and Linguistics offers students several undergraduate degrees. Although a baccalaureate degree is not offered in Linguistics, a minor is available to students. Comprehensive information about these programs is listed below.

**CLASSICS (CLL, CLS, ICL)**

The major programs in Classics are designed to meet the needs of students who desire competence in Latin and/or Greek and a broad understanding of ancient culture and literature. The majors are of particular interest to students who wish to teach the languages, to those who plan graduate study in a humanistic discipline, and to those who want an undergraduate major which focuses on the ancient civilizations which are the cornerstone of the Western tradition.

**Requirements for the Major in Classics:**

Major programs leading to the Bachelor of Arts degree are offered in Classics-Latin, Classics-Latin/Greek, and Interdisciplinary Classics. Major programs in Classics require a minimum of 36 hours of course-work. The minor is offered in Latin, Greek, and Interdisciplinary Classics. The minors consist of a minimum of 22 hours of course-work.

**CLASSICS-LATIN**

(Basic preparation for the Classics-Latin major: a minimum of two years of high school Latin or LAT 1120 and LAT 1121). LAT 1120 and LAT 1121 may be used to satisfy general distribution requirements but do not count as credit toward the major.

Required courses for the Classics-Latin major

<table>
<thead>
<tr>
<th>24 hours selected from the following:</th>
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<tbody>
<tr>
<td>LNW 2660 (4)</td>
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<td>LNW 4363 (4)</td>
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<td>LNW 4634 (4)</td>
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<td>LNW 4381 (4)</td>
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<td>LNW 4654 (4)</td>
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<tr>
<td>LNW 4930 (4)</td>
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<td>LNW 4501 (4)</td>
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<tr>
<td>Supporting courses required for the major</td>
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<tr>
<td>12 hours selected from the following:</td>
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<tr>
<td>ARH 4100 (4)</td>
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<tr>
<td>CLT 3102 (3)</td>
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<tr>
<td>EUH 3402 (4)</td>
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<tr>
<td>ARH 4170 (4)</td>
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<td>CLT 3370 (3)</td>
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<td>EUH 3412 (4)</td>
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<td>CLA 3103 (3)</td>
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<td>EUH 2111 (3)</td>
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<td>EUH 3413 (4)</td>
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<td>CLA 3123 (3)</td>
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<td>EUH 2012 (3)</td>
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<td>PHP 4000 (3)</td>
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<td>CLT 3040 (3)</td>
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<tr>
<td>EUH 3401 (4)</td>
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<tr>
<td>PHP 4010 (3)</td>
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<td>CLT 3101 (3)</td>
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**CLASSICS-LATIN/GREEK**

Required courses for the Classics-Latin/Greek major

16 hours in advanced Latin (see Classics-Latin major above) and 8 hours in beginning Classical Greek, GRE 1120, 1121.

Supporting courses required for the Classics-Latin/Greek major

12 hours selected from the list of supporting courses given for the Classics-Latin major above.

**Requirements for the Latin minor**

16 hours in advanced Latin (see Classics-Latin major above).

Supporting courses required for the Latin minor

8 hours selected from the following:

- CLT 3102 (3)  
- CLT 3370 (3)  
- EUH 3412 (4)  
- EUH 3413 (4)

**Requirements for the Greek minor**

16 hours in advanced Greek.

Supporting courses required for the Greek minor

8 hours selected from the following:

- ARH 4170 (4)  
- CLA 3103 (3)  
- CLT 3101 (3)  
- CLT 3370 (3)  
- EUH 3401 (4)  
- EUH 3402 (4)  
- PHP 3062 (3)  
- PHP 4000 (3)  
- PHP 4010 (3)

**INTERDISCIPLINARY CLASSICS**

1. **Basic Preparation**

   Beginning Latin or Greek or high school equivalent (no major credit)

2. **Required Courses**

   a. Two advanced courses in Latin or Greek.

   (See Classics-Latin and Classics-Latin/Greek)

   b. Prehistoric and Ancient Art (ARH 4100)

   c. History of Philosophy: Ancient & Medieval (PHH 3062)

   d. Classical Mythology (CLT 3370)

3. One course from:

   a. Ancient History I (EUH 2011)
   b. Ancient History II (EUH 2012)
   c. Classical Greece (EUH 3401)
   d. Age of Alexander (EUH 3402)
   e. Roman Republic (EUH 3412)
   f. Roman Empire (EUH 3413)

4. One course from:

   a. Ancient Civilizations (CLA 3000)
   b. Greek Civilization (CLA 3103)
   c. Roman Civilization (CLA 3123)
   d. Egyptian Civilization (CLA 4160)
   e. Mesopotamian Civilization (CLA 4717)
   f. Greek Literature in Translation (CLT 3370)
   g. Roman Literature in Translation (CLT 3370)
   h. New Testament Greek I (GRE 3040)
   i. New Testament Greek II (GRE 3041)

(total Hours)

5. One course in:

   a. Classical Mythology (CLT 3370)
   b. Ancient History (EUH 3401)

6. One course in:

   a. Ancient Civilizations (CLA 3000)
   b. Greek Civilization (CLA 3103)
   c. Roman Civilization (CLA 3123)
   d. Egyptian Civilization (CLA 4160)
   e. Mesopotamian Civilization (CLA 4717)
   f. Greek Literature in Translation (CLT 3370)
   g. Roman Literature in Translation (CLT 3370)
   h. New Testament Greek I (GRE 3040)
   i. New Testament Greek II (GRE 3041)

(total Hours)

**Requirements for the Interdisciplinary Classics Minor**

1. One year of Latin or Greek at the University level.
   (LAT 1120, LAT 1121, or GRE 1120, GRE 1121)

2. One course in Art History

3. One course in Ancient Philosophy

4. Classical Mythology

5. One course in Ancient History

(total Hours)

**HONORS PROGRAM**

**Admissions Criteria**

1. Senior status.

2. Completion of the "core" courses required for a major in the Department with a GPA above 3.5.

3. An overall GPA above 3.0.

4. Two letters of recommendation from Departmental faculty followed by Departmental approval.

**Dismissal Procedures**

The student must maintain a Departmental GPA of 3.5; must submit the Honors Thesis on time, and must pass the
scheduled Departmental Honors Examination. Otherwise, the candidate receives no Honors.

Requirements for Completion of Departmental Honors:
1. Completion of requirements for a major in the Department with a GPA above 3.5 and an overall GPA of 3.0.
2. Acceptance of a Senior Thesis by a committee of faculty members in the Department.
3. Passing the Honors Examination at the end of the senior year.

LINGUISTICS (LIN)
Linguistics is primarily an upper-level and graduate discipline with strong interdisciplinary concerns. Although no baccalaureate degree is offered, the minor in linguistics may provide a broader educational experience for students majoring in adjacent arts and sciences such as Anthropology, Communication, Communication Sciences and Disorders, English, Foreign Languages, Philosophy, Psychology, Sociology, and others.

Requirements for the Minor
The minor in Linguistics requires a minimum of 18 semester hours as follows:
LIN 3010 (3)
plus 15 semester hours from the following:
ANT 3610 (3) LIN 4600 (3)
CLT 3040 (3) LIN 4710 (3)
LIN 3801 (3) SPC 2050 (3)
LIN 4040 (3) SPC 3210 (3)

MODERN LANGUAGES (FRE/GER/ITA/RUS/SPA)
Foreign Language major programs are designed to meet the needs of students who desire competency in a language and an expanded understanding of its culture and literature. They are of particular interest to students who wish to teach languages, those who plan to further their studies in graduate school, and those who seek careers in various fields of foreign or foreign-related employment, either in government or business.

Major programs leading to the bachelor of arts degree are offered in French, German, Italian, Modern Greek, Russian, and Spanish. All major programs in foreign language require a total of 32 hours of coursework above the intermediate level. The following languages may also be taken as a minor: French, German, Italian, Latin, Modern Greek, Russian, and Spanish. The minor consists of 15 hours of course work in French and Spanish above the second-year level, and 16 hours in the other languages except for the less commonly taught languages. In order to begin taking courses for the minor, the student will have satisfactorily completed the intermediate level or have equivalent proficiency in the foreign language. Instruction in less commonly taught languages may be available upon sufficient demand.

French (FRE)
Required courses for the major (15 cr. hrs.)
FRE 3230 (3) FRW 4100 (3)
FRE 3240 (3) FRW 4101 (3)
FRE 3420 (3)
Supporting courses required for the major
17 hours in 3000, 4000, or 5000 level courses planned with the advisor.
Required courses for the minor (6 cr. hrs.)
FRE 3240 (3) FRE 3420 (3)
Supporting courses required for the minor
9 hours in 3000, 4000, or 5000 level courses except courses in translation.

German (GER)
Requirements for the major (14 cr. hrs.)
GER 3244 (3) GEW 4100 (4)
GER 3420 (3) GEW 4101 (4)
Supporting courses required for the major
15 hours in 3000, 4000, or 5000 level courses planned with the advisor.

Required courses for the minor (6 cr. hrs.)
GER 3244 (3) GER 3420 (3)
Supporting courses required for the minor
10 hours in 3000, 4000, or 5000 level courses except courses in translation.

Modern Greek (GRK)
Required courses for the minor (16 cr. hrs.)
GRK 2200 (4) GRK 4905 (4)
GRK 2201 (4) GRK 4930 (4)

Italian (ITA)
Required courses for the major (15 cr. hrs.)
ITA 3240 (4) ITW 4100 (4)
ITA 3420 (3) ITW 4101 (4)
Supporting courses required for the major
17 hours in 3000 or 4000 level courses, including approved courses in related disciplines, planned with the advisor.
Required courses for the minor (7 cr. hrs.)
ITA 3240 (4) ITA 3420 (3)
Supporting courses required for the minor
9 hours in 3000 or 4000 level courses except courses in translation.

Russian (RUS)
Required courses for the major (14 cr. hrs.)
RUS 3240 (4) RUT 3110 (3)
RUS 4241 (4) RUT 3111 (3)
Supporting courses required for the major
18 hours in 3000 or 4000 level courses planned with the advisor.
Required courses for the minor (8 cr. hrs.)
RUS 3240 (4) RUS 4241 (4)
Supporting courses required for the minor
8 hours in 3000 or 4000 level courses.

Spanish (SPA)
Required courses for the major (15 cr. hrs.)
SPN 3300 (3) SPW 4301 (3)
SPN 4101 (3) SPW 4131 (3)
SPW 4100 (3)
Supporting courses required for the major
17 hours in 3000, 4000 or 5000 level courses planned with the advisor.
Required courses for the minor (3 cr. hrs.)
SPN 3300 (3)
Supporting courses required for the minor
12 hours in 3000, 4000 or 5000 level courses except courses in translation.

LIBRARY AND INFORMATION SCIENCE (LIS)
Even though degree-oriented undergraduate study is not offered in Library and Information Science, the faculty will counsel those undergraduates interested in study in librarianship at USF. The Library and Information Science Master's program is accredited by the American Library Association, and graduates are prepared for professional positions in all types of libraries, media centers, and information agencies.

The Library and Information Science program at the University of South Florida meets the Florida State Board of Education requirements for certification as an Educational Media Specialist (grades K-12). Any student who plans to work as a school media specialist in another state should work out a program which will meet the requirements of that state.

MARINE SCIENCE (MSC)
Although the department does not offer an undergraduate degree, graduate courses in the Marine Science Department are open to advanced undergraduates in other natural science disciplines. In addition, the Marine Science Department has recently increased the number of courses specifically geared for undergraduates; consult the Schedule of Classes for course titles currently being offered. Some Marine Science
Department courses are available on all campuses by means of distance learning.

The Department of Marine Science (DMS) at the University of South Florida offers M.S. and Ph.D. degrees in Marine Science. The student may emphasize biological, chemical, geological, or physical oceanography, or develop an interdisciplinary program in Oceanography through course work and thesis or dissertation research. More than 100 students are currently pursuing degrees under the direction of 26 full-time faculty. Study areas range from estuarine and near-shore systems to remote areas of the Pacific, Atlantic and Indian Oceans, as well as the Arctic and Antarctic. Additional information on faculty research and departmental facilities is available from the department upon request.

The department's location on St. Petersburg's Bayboro Campus allows immediate access to Tampa Bay and the Gulf of Mexico. Bayboro Harbor is home port to the R/V Bellows (71 ft.) and the R/V Suncoaster (110 ft.). These vessels are operated by Florida Institute of Oceanography (FIO) for the entire State University System. The department's principal building is shared with FIO and is adjacent to the Florida Marine Research Institute (FMRI), the research arm of the Florida Department of Environmental Protection. The newly occupied research building is shared by DMS and FMRI and houses a remote sensing, satellite data-acquisition center. The Florida Geologic Survey (USGS) center for Coastal Geology and Regional Studies, the office of the Tampa Bay National Estuary Program, FMRI, and the Department of Marine Science are all located on the Bayboro Campus. Consequently, St. Petersburg is home to one of the largest concentrations of marine scientists in the southeastern United States; many of these scientists serve on advisory committees of DMS graduate students.

**MASS COMMUNICATIONS (COM)**

The School of Mass Communications, accredited by the Accrediting Council on Education for Journalism and Mass Communications, offers approximately 70 courses varying in content from the highly technical and field-specialized in some cases to an essential liberal arts orientation in others. The program introduces students to the theories, principles, and problems of communications, emphasizing communications, and majoring in Marine Science through course work and research, one of them may be in the Marine Communications major.

Students may not receive credit for Mass Communications writing courses (three hours in addition to MMC 3100) and no student may graduate with a grade lower than "C" in any Mass Communications course.

Communications course may be taken. Students failing to achieve a minimum grade of "C" in both MMC 3100 and MMC 3602 will be disallowed as majors in the School. A 2.5 GPA in Mass Communications courses is required for graduation, and no student may graduate with a grade lower than "C" in any Mass Communications course.

Required are six hours in the Mass Communications core curriculum (MMC 3100 and MMC 3602) and 28 hours of a combination of required and elective sequence courses for a total of 34 hours in Mass Communications within the 124-hour degree requirement. Of the 124 hours at least 90 hours must be outside Mass Communications courses, and 65 of those hours must be in the liberal arts. Six hours in Mass Communications writing courses (three hours in addition to MMC 3100) are a part of the graduation requirement.

A maximum of nine semester hours in Mass Communications courses will be accepted from a community college or other lower-level program toward a degree in Mass Communications. It is suggested that the nine hours include the equivalent of the School core curriculum and one sequence introduction course. Approval by an appropriate advisor is required.

At least eighteen (18) hours of resident School courses are required.

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 print and electronic media outlets.

Sign Language may be used as an option by Mass Communications majors to fulfill the language requirement.

The School sequence requirements are:

**School Core Curriculum**

MMC 3100 (3) MMC 3602 (3)

**Sequence Requirements**

1. **ADVERTISING Requirements**
   - ADV 3000 (3)
   - ADV 4800 (3)
   - MMC 4203 (3)
   - ADV 3101 (3)
   - ADV 4940 (1)
   - MMC 4420 (3)
   - ADV 3300 (3)
   - MMC 4945 (3)

   **Selective Requirements** (9 hrs. required, selected with advisor’s approval)

Note: The following courses are required outside the School to complete sequence requirements: ACG 2001, ECO 2013, ECO 2023, and MAR 3023. See specific courses for prerequisites.

2. **JOURNALISM Requirements**
   - News-Editorial Option
     - JOU 3100 (3)
     - JOU 4200 (3)
     - JOU 4206 (3)
     - MMC 4200 (3)
     - PGY 3610 (3)
   - Magazine Option
     - JOU 3100 (3)
     - JOU 4200 (3)
     - MMC 4200 (3)
     - MMC 4936 (3)
     - MMC 4420 (3)
   - Selective Requirements (7 hrs. required, selected with advisor’s approval)

Note: The following courses are required outside the School to complete sequence requirements: ECO 1003, PHI 1103, POS 2041, and POS 3142 or POS 2112, and SYG 3010. For Magazine sequence, CRW 2100 is also required. See specific courses for prerequisites.

3. **PUBLIC RELATIONS Requirements**
   - ADV 3000 (3)
   - PUR 3000 (3)
   - MMC 4420 (3)
   - Selective Requirements (7 hrs. required, selected with advisor’s approval)

Note: The following courses are required outside the School to complete sequence requirements: ECO 1003, MAN 3025, POS 2041, and POS 2112 or POS 3142.
COLLEGE OF ARTS AND SCIENCES

4. TELECOMMUNICATIONS Requirements

News Option
MMC 4200 (3)  MMC 4420 (3)  RTV 3002 (3)
RTV 3300 (4)  RTV 4301 (3)

Selective Requirements (12 hrs. required, selected with advisor’s approval)
Programming and Production Option
RTV 3002 (3)  RTV 3300 (4)  MMC 4200 (3)
RTV 3100 (3)  RTV 4220 (3)  MMC 4420 (3)
RTV 4500 (3)  RTV 4302 (3)

Selective Requirements (3 hrs. required, selected with advisor’s approval)
Note: The following courses are required outside the School to complete sequence requirements:
For News: ORI 3000, PHI 1103, POS 2041, POS 2112, or POS 3142 and SPC 2023 or SPC 2050.
For Programming and Production: ENC 3310 or CRW 2100, and PHI 1103. See specific courses for prerequisites.

Note: Most Mass Communications courses have prerequisites. They are specified in the course description. Refer to each prerequisite listed to determine progressive prerequisites for each course.

II. MATHEMATICS (MTH)

The Department of Mathematics 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 department offers programs leading to the B.A., M.A., and Ph.D. degrees. The undergraduate program emphasizes the broad nature of modern mathematics and its close associations with the real world. The program is designed to prepare students for entry into graduate school or careers in industry or secondary education.

The Department of Mathematics consists of 29 full-time faculty members, whose areas of interest include algebra, applied mathematics, applied statistics, approximation theory, celestial mechanics, complex analysis, functional analysis, graph theory, harmonic analysis on Lie groups, logic, mathematical physics, nonlinear functional analysis, number theory, ordinary differential equations, partial differential equations, probability theory, real analysis, statistics, theoretical computer science, and topology.

Requirements for the Major in Mathematics

The courses taken to satisfy the requirements below will constitute the major program referred to in the general graduation requirements of the College of Arts and Sciences. D and F grades earned in attempting to satisfy major requirements will be used in calculating the major GPA.

1. Mathematics Requirement (Min. 46 cr. hrs.)

   Majors must complete the following core courses:

   CGS 3422 Computer Applications of Mathematics-6A (3)
   MAA 4211 Multivariate Calculus -6A (4)
   MAT 4212 Intermediate Analysis -6A (4)
   MAC 3311 Calculus I -6A (4)
   MAC 3312 Calculus II -6A (4)
   MAC 3313 Calculus III -6A (4)
   MAP 4302 Differential Equations -6A (3)
   MAS 3103 Linear Algebra -6A (3)
   MAS 4301 Elementary Abstract Algebra -6A (3)
   MAT 4937 Mathematics Majors Seminar -6A (1.1)
   STA 4442 Introduction to Probability -6A (3)

   In addition, majors must complete four (4) courses (including one sequence) from the following electives:

   COP 4210 (3)  MAA 5306-5307 (6)
   MAA 5405 (3)  MAS 4124-MAD 4401 (3-4)
   MAD 5101 (3)  MAP 5316-5317 (6)
   MAD 5305 (3)  MAP 5407-5345 (6)
   MAS 4214 (3)  MAS 5311-5312 (6)
   MAS 5107 (3)  MTG 5116-5317 (6)
   MAS 5215 (3)  STA 4442-4321 (6)
   MAT 5932 (1-4)
   MHF 4102 (3)
   MHF 5306 (3)
   MTG 4212 (4)

   Majors in mathematics for teaching should consult the section Mathematics (MAE) on mathematics requirements.

   The following is a suggested course program for the first two academic years:

   Semester I  Semester II

   Freshman Year
   MAC 3311  MAC 3312
   Sophomore Year
   MAC 3313  MAP 4302
   MAS 4301  MAS 3103

2. Mathematics-related Courses (6-8 cr. hrs.)

   Majors, except for majors in mathematics for teaching, must take two courses with laboratories in the Departments of Biology, Chemistry, Geology, or Physics that are required courses for the major within those departments.

   Majors will not receive credit toward graduation for the following courses:

   AST 3033  GEB 3121  STA 3023
   GEB 2111  PHY 2020  STA 3122

   Majors wishing to take a course in statistics should take STA 4321.

Teacher Education Programs

For information concerning the degree programs for secondary school teachers, see the junior college teachers section in the USF Graduate Catalog.

Requirements for the Minor in Mathematics

Although open to all students, the minor in mathematics is designed particularly for students in science and engineering who wish to enhance their mathematical capabilities to benefit their major. A student wishing to receive a minor in mathematics must take the following courses:

   Total credit hours required: 29 (minimum)

   CGS 3422 Computer Applications of Mathematics -6A (3)
   MAA 4211 Multivariate Calculus -6A (4)
   MAA 4212 Intermediate Analysis -6A (4)
   MAC 3311 Calculus I -6A (4)
   MAC 3312 Calculus II -6A (4)
   MAC 3313 Calculus III -6A (4)
   MAS 3103 Linear Algebra -6A (3)
   MAS 4301 Elementary Abstract Algebra -6A (3)

   In addition, students wishing to receive a minor must take two courses with laboratories in the Departments of Biology, Chemistry, Geology, or Physics that are required courses for the major within those departments.

TECHNICAL CONCENTRATIONS

The Department of Mathematics offers specialized technical concentrations within the general Bachelor of Arts degree in Mathematics that emphasize a subfield of Environmental Science. These concentrations are more structured than the general B.A. program and require additional study in a related field comparable to earning a minor in that field. This cross disciplinary training prepares the student for a career in Environmental Science. Furthermore, the student is able to pursue graduate work in either Mathematics or the related field.
Environmental Biology Concentration
1. Mathematics requirement:
   Completion of the mathematics major, including STA 4321, Introduction to Statistics (3).
2. Supporting courses:
   CHM 2041 Introductory General Chemistry (3)
   CHM 2045L General Chemistry I Lab (1)
   CHM 2046 General Chemistry II (3)
   CHM 2046L General Chemistry II Lab (1)
3. Biology courses:
   BSC 2011C Biology I - Biological Diversity (4)
   BSC 2010C Biology II - Cellular Processes (4)
   ZOO 3203C Invertebrate Zoology (4)
   PCB 3063 General Genetics (3)
   PCB 4043C Principles of Ecology (3)
   PCB 4674 Organic Evolution (3)

Environmental Chemistry Concentration
1. Mathematics requirement:
   Completion of the mathematics major, including STA 4321, Introduction to Statistics (3).
2. Chemistry courses:
   CHM 2041 Introductory General Chemistry (3)
   CHM 2045L General Chemistry I Lab (1)
   CHM 2046 General Chemistry II (3)
   CHM 2046L General Chemistry II Lab (1)
   CHM 3200 Organic Chemistry (4)
   CHM 4410 Physical Chemistry I (3)
   CHM 4411 Physical Chemistry II (3)
   CHM 3120C Elementary Analytic Chemistry (4)
   CHM 3610C Intermediate Inorganic Chemistry (4)

Environmental Geology Concentration
1. Mathematics requirement:
   Completion of the mathematics major, including STA 4321, Introduction to Statistics (3), and the student must complete one of the sequences:
   MAS 4123 Numerical Linear Algebra (3)
   MAD 4401 Numerical Analysis (4)
   or
   MAP 5407 Methods of Applied Mathematics (3)
   MAP 5345 Applied Partial Differential Equations (3)
2. Supporting courses:
   PHY 3053, 3054, 3054L General Physics and Lab (3,1)
   PHY 3054, 3054L General Physics and Lab (3,1)
3. Geology courses:
   GLY 2010 Dynamic Earth: Introduction to Physical Geology (3)
   GLY 2010L Dynamic Earth Lab (1)
   GLY 2100 History of the Earth and Life (3)
   GLY 2100L Earth History Lab (1)
   GLY 4822 Introduction to Hydrogeology (4)
   GLY 3400C Structural Geology (4)
   or
   GLY 5827 Advanced Hydrogeology (4)

Accelerated BA/MA Program
This program is designed for superior students having a solid background in high school mathematics and the ability to handle a fast paced, challenging program leading to a BA and MA degree in mathematics in four to five years. The program meets all the requirements for the BA degree, but requires the students to take those 5000 and 6000 level courses required for the MA degree during his last two years in the program. By awarding up to 20 hours of dual credit (undergraduate and graduate), the student also uses these courses to satisfy the requirements for the MA in mathematics. For admission to the program, a student must have completed at least 30 hours of college credit including 8 hours of 3000-level or above mathematics courses; have an overall grade point average of 3.0 or above; and have a grade point average of 3.5 or above in all mathematics courses taken at the 3000-level or above. Further information is available on request from the Mathematics Department (974-2643).

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 U.S.F. transcript of the student's work.

Students are eligible for admission to the program when they (a) have completed MAS 3103 (Linear Algebra), MAS 4301 (Elementary Abstract Algebra) and one of the calculus sequences MAC 3281-3283 or MAC 3311-3313, (b) have at least a 3.0 overall average in their college courses, and (c) have at least a 3.5 average in their college mathematics courses. Applications are submitted to the undergraduate committee of the mathematics department.

The requirements for a B.A. Degree in Mathematics with Honors are as follows:
1. Successful completion of the requirements for a B.A. Degree in Mathematics.
2. Six credits of those graduate level mathematics courses at USF that are prerequisites for qualifying examinations required by mathematics graduate degree programs.
3. At least two credits in MAT 4893, Mathematics Honors Seminar.
4. Successful completion of MAT 4970, Mathematics Senior thesis.
5. An overall 3.0 G.P.A., with at least a 3.5 G.P.A. in all mathematics courses.

MEDICAL TECHNOLOGY (MET)
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 on the campus of the University of South Florida; the fourth year (12 months) is spent in one of five affiliated hospitals. Admission to the fourth year is limited by the number of openings in the affiliated hospitals, and at the present time is highly competitive. Selection for the clinical program is made by the hospitals. Students not admitted to the clinical program may need to select an alternative degree.

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 Liberal Arts requirements.
3. Writing and computation requirements for 6A-10.30.
4. A minimum of 20 semester hours of science and mathematics courses completed in residence at USF.
5. The following science and mathematics courses:

<table>
<thead>
<tr>
<th>Biology</th>
<th>Chemistry</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 2011C (4)</td>
<td>CHM 2041 (3)</td>
</tr>
<tr>
<td>MCB 3030C (4)</td>
<td>CHM 2045L (1)</td>
</tr>
<tr>
<td>MCB 4115 (5)</td>
<td>CHM 2046 (3)</td>
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<tr>
<td></td>
<td>CHS 4300 (3)</td>
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<tr>
<td></td>
<td>CHS 4300L (2)</td>
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<tr>
<td></td>
<td>CHM 3200 (4) or CHM 3210 (4) and CHM 3211 (4)</td>
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<tr>
<td></td>
<td>One hospital requires BCH 3023 for the second semester of organic chemistry. CHS 4301L is strongly recommended.</td>
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</tbody>
</table>

Additional Sciences:
2 courses from the following list:

<table>
<thead>
<tr>
<th>Chemistry</th>
<th>Organic Chemistry</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCH 3023 (3)</td>
<td>MCB 5206 (3)</td>
</tr>
<tr>
<td>CHM 3120 (3)</td>
<td>PHY 3054 (3)</td>
</tr>
<tr>
<td>MCB 4502 (3)</td>
<td>PHY 3054L (1)</td>
</tr>
<tr>
<td>MCB 5815 (3)</td>
<td>ZOO 5235 (3)</td>
</tr>
</tbody>
</table>
Mathematics: 
MAC 2102 (3) or MAC 2132 (4)
STA 3023 (4) or STA 3122 (3)
Upon successful completion of this curriculum and acceptance by one of the affiliated hostels, the student will complete 12 continuous months of training at that hospital. This training period usually begins in late July or early August of each year, but a few begin in January or February. During this period, the student will continue to be registered as a full-time student of the University and will receive a total of 30 credit hours of work in:
ML3 3031 MLS 4861 MLS 4863 MLS 4865
MLS 4860 MLS 4862 MLS 4864 MLS 4866
These courses, listed under “Interdisciplinary Arts and Sciences,” will be taught at the hospital. Students successfully completing this program will be granted a Bachelor of Science degree in Medical Technology.

■ PHILOSOPHY (PHI)
Requirements for the Major in Philosophy
Majors in philosophy must complete at least 30 credit hours made up as follows:
a. PHH 3062 History of Philosophy: Ancient and Medieval
PHI 3420 History of Philosophy: Modern
b. PHI 2100 Introduction to Formal Logic
or
Phi 5135 Symbolic Logic
c. PHI 3600 Ethical Theory
d. At least one of the following:
PHI 4300 Theory of Knowledge
Phi 5225 Philosophy of Language
Phi 4320 Philosophy of Mind
Phi 3404 Scientific Method
e. 6 credit hours of 4000 or 5000 level Philosophy courses
f. 9 credit hours of Philosophy electives

Requirements for the Minor in Philosophy
A minor in philosophy consists of the completion of at least 18 credit hours which includes the following courses or an approved substitute for one only:
PHH 3062 History of Philosophy: Ancient and Medieval
PHI 3420 History of Philosophy: Modern
PHI 4600 Contemporary Philosophy
or
PHI 4440 Continental Philosophy
PHI 2100 Introduction to Formal Logic
No credit taken on an “SU” basis may be applied toward the minor.

Honors Program
The Honors Program in Philosophy allows superior students to pursue philosophical studies at a more advanced level than is customary in undergraduate philosophy programs. Students in the Honors Program will be required to do independent research to participate in an Honors Seminar, and to write and defend an undergraduate thesis.

Admission Criteria:
(1) Students must complete
PHI 2100 Introduction to Formal Logic
PHH 3062 History of Philosophy: Ancient and Medieval
PHI 3420 History of Philosophy: Modern
with a grade point average of 3.6.
(2) Students must have an overall grade point average of 3.0, and their grade point average in Philosophy must be at least 3.5.
(3) Students must be nominated for admission into the Philosophy program by a faculty member in Philosophy, and a majority of the faculty who have taught the student must approve the student’s admission into the program.

Program Requirements:
Students must complete the requirements for the Philosophy major in accordance with the following provisions:
a. students must take either PHI 4440 Continental Philosophy or PHH 4600 Contemporary Philosophy
b) students must take one course from each of the following groups:
Group 1
PHI 3404 Scientific Method
PHI 4320 Philosophy of Mind
PHI 4300 Theory of Knowledge
PHI 5225 Philosophy of Language
PHP 4784 Analytical Philosophy
Group 2
PHI 3600 Ethical Theory
PHI 3601 Contemporary Moral Issues
PHI 3700 Philosophy of Religion
PHI 4800 Aesthetics
PHI 3021 Philosophies of Love and Sex
PHI 3400 Introduction to Philosophy of Law
Group 3
PHM 3100 Social Philosophy
PHM 4322 Ancient and Medieval Political Philosophy
PHM 4331 Modern Political Philosophy
PHM 4340 Contemporary Political Philosophy
PHP 4782 Philosophy of Marxism
Group 4
PHH 4700 American Philosophy
PHP 3786 Existentialism
PHP 4000 Plato
PHP 4010 Aristotle
PHP 4410 Kant
PHP 4740 The Rationalists
PHP 4745 Empiricists
(c) Students must take an Honors Seminar in their senior year.
(d) Students must write a senior thesis and undergo an oral examination on the thesis before a committee of two faculty members, with the Chair as an ex officio member of every such committee.
(e) Students cannot receive a grade lower than a "B" in any Philosophy course, and their grade point average in Philosophy must be at least a 3.5 to remain, or be graduated from the Philosophy Honors program.
(f) Students must complete 35 credit hours in Philosophy, including the 3-hour thesis course and the 3-hour Honors Seminar.

■ PHYSICS (PHY/PHS)
The Department of Physics offers programs leading to a Bachelor of Arts or a Bachelor of Science degree, to a Master of Science degree, and to a Ph.D. in Applied Mathematics or Engineering Science with emphasis in Applied Physics. Both thesis and non-thesis programs are available for the M.S. degree. An interdisciplinary arrangement with the Department of Mathematics and with the College of Engineering provides for the Ph.D. opportunity. Students should consult with the Physics Graduate Advisor for details.

Requirements for the Majors in Physics
1. Physics Courses
B.A. PHYSICS (PHY) (34 cr. hrs.)
PHY 3048 (3) PHY 3221 (3) PHY 4324C (4)
PHY 3048L (1) PHY 3323C (4) PHY 4823L (2)
PHY 3049 (3) PHY 3822L (2) PHY 4810 (1–4)
PHY 3049L (1) PHY 4222 (3) PHY 4930 (1)
Physics Electives (6)
B.S. PHYSICS (PHS) (44 cr. hrs.)

PHY 3048 (3) PHY 3323C (4) PHY 4604 (3)
PHY 3048L (1) PHY 3424- (4) PHY 4823L (2)
PHY 3049 (3) PHY Y 3822L (2) PHY 4910 (1-4)
PHY 3049L (1) PHY 4222 (3) PHY 4930 (1)
PHY 3101 (3) PHY 4324C (4) PHZ 5405- (3)
PHY 3221 (3) PHY 4523 (3)

1. The sequence PHZ 3101 (2), PHY 3053 (3), PHY 3053L (1), PHY 3054 (3), and PHY 3054L (1) may be substituted for the sequence indicated.

2. Methods Course Requirement (7 semester hours)

The student is required to complete the University's Liberal Arts Requirements.

3. Supporting Courses in the Natural Sciences

B.A. and B.S. PHYSICS (20 cr. hrs.)

CHM 2041 (3) CHM 2046L (1) MAC 3313- (4)
CHM 2045L (1) MAC 3311- (4) MAP 4302 (3)
CHM 2046 (3) MAC 3312- (4)

4. Free Electives

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

5. Residency Requirement

A minimum of 12 credit hours of physics courses (No. 1 above) in residence is required.

6. D and F grades earned in attempting to satisfy major requirements will be used in calculating the major GPA.

Teacher Education Programs

For information concerning the degree programs for secondary school teachers, see Teacher Education Programs in this college; for junior college teachers, see USF Graduate Catalog.

PSYCHOLOGY (PSY)

Psychology involves the scientific study of behavior and mental processes. Because of this focus, psychology is relevant to many other areas of study both inside and outside of the social and behavioral sciences. The undergraduate program in Psychology offers the student a well-rounded liberal arts education. In addition, the program provides excellent training for qualified students who wish to pursue graduate work in such disciplines as Clinical, Experimental 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. The graduate faculty of the Psychology Department are divided into three broad program areas: Clinical, Experimental, and Industrial/Organizational. Each of these program areas offers Ph.D.-level training as well as instruction at the undergraduate level.

Requirements for the Major in Psychology

Majors must complete at least 34 semester hours in the field. A minimum grade of "C" or better must be attained in each course in the major. All majors must complete:

1. 2000/3000 Level Requirement (6 semester hours)
   Successful completion of: PSY 3044 (3 semester hours) and one of the following:
   - INP 3101
   - PSY 2012
   - SOP 3742

2. Methods Course Requirement (7 semester hours)
   Successful completion of: PSY 3212 and one of the following:
   - CLP 4433
   - PSY 4205
   or another methods course approved by the undergraduate advisor in Psychology.

3. 4000 Level Requirement (21 semester hours)
   Successful completion of 7 additional Psychology courses numbered at the 4000 level selected as follows: At least two courses from each of the two groups below:
   
   **Group I**
   - EXP 4204C
   - EXP 4404
   - PSB 4013C
   - EXP 4304
   - EXP 4523C
   
   **Group II**
   - CLP 4433
   - INP 4004
   - SOP 4004
   - DEP 4005
   - PHY 4823
   and 3 additional courses numbered at the 4000 level.

Note: No more than a total of 3 hours of the following courses may count toward the major:

- PSY 4913 Directed Study
- PSY 4970 Honors Thesis
- PSY 4932 may not count toward the major.

**Note:** PSY 4205 is recommended for students planning graduate training. Functional mathematics and biological science are also recommended. Otherwise, students majoring in psychology are encouraged to complete a varied undergraduate program.

A prerequisite for all 4000-level courses is a grade of "C" or better in both PSY 3044 and PSY 3213. For students minoring in Psychology or those majoring in Interdisciplinary Social Sciences, a grade of "C" or better in any college-level statistics course will substitute for the PSY 3213 requirement.

Requirements for the Minor in Psychology

A minor in Psychology consists of a minimum of 15 credit hours, comprising PSY 2012, PSY 3044, and any three 4000-level psychology courses except PSY 4913. A GPA of 2.0 or better in the minor is required for certification. 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. See the Psychology Department Undergraduate Advisor for suggested minor programs for students majoring in various fields.

**Psychology Honors Program**

The purpose of the Honors Program is to provide a select group of 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 second 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, and a letter of recommendation from a member of the Psychology Department faculty. Successful completion of the program requires a GPA of 3.5 in major coursework, an overall GPA of 3.25 at USF, and, typically, completion of 43 hours in Psychology including PSY 4832 (6) and PSY 4970 (6). See the Psychology Department Undergraduate Advisor for details of the program and an application form.

**REHABILITATION COUNSELING (REF)**

The mission of Rehabilitation Counseling is to help individuals with physical, mental, and emotional disabilities return to full, rewarding, and productive lives. Rehabilitation Counselors work in a wide variety of settings, including public and private rehabilitation programs and facilities, mental health treatment settings, and substance abuse treatment settings. Some establish their own private rehabilitation or mental health counseling practices.

Rehabilitation Counseling has roots in both the national rehabilitation movement and professional counseling movement. Training emphasizes psychological, social, medical, and vocational aspects of disability; and also the development and refinement of personal adjustment counseling skills. Graduates with an M.A. degree from the USF Department of Rehabilitation Counseling are prepared for careers as both rehabilitation specialists and mental health counselors. Special elective concentrations in substance abuse and multicultural rehabilitation are also offered. Other study concentrations can be arranged on an individual basis. Upper-division
students may take 5000-level courses except RCS 5408 and RCS 5800. RCS 5700 is recommended as an introductory course to the field as it overviews both counseling and rehabilitation services.

The Department of Rehabilitation Counseling offers only the M.A. degree. A five-year master's program is available to undergraduates where an M.A. degree in Rehabilitation Counseling and a bachelor's degree in another major (if desired) can be earned in a total program of 150 semester hours. Students admitted through the five-year program (REF) must have completed 90 semester hours of work, and have satisfied General Distribution, CLAST, and Rule 6A-10.30 (Gordon Rule) requirements. Minimum admission requirements include a total Verbal-Quantitative score of at least 1000 on the GRE or a "B" average in all work beyond 60 semester hours. The GRE must be taken by all applicants whether or not they have a 3.0 grade-point average. A detailed description of the M.A. program in Rehabilitation Counseling may be found in the Graduate Catalog.

Undergraduates interested in the five-year program (REF) should contact the department during their sophomore year. They should concentrate on taking required courses in their undergraduate major, and should generally defer taking electives until admitted to the five-year program. Applications for the five-year program are available from the Department, and students should apply at the start of the semester in which they will complete 90 semester hours. GRE scores must be reported at USF before any application can be processed, and three letters of recommendation are required.

The graduate program in Rehabilitation Counseling is fully accredited by the Council on Rehabilitation Education (CORE), the national accrediting body for rehabilitation counselor training programs. Upon completion of the program, graduates are eligible to sit for a national certification examination of the Commission on Rehabilitation Counselor Certification. After passing this examination, the graduate is registered with the Commission as a Certified Rehabilitation Counselor (CRC). With some additional elective course work and three years experience, graduates are also eligible to take the examination for state licensure as Mental Health counselors.

RELIgIOUS STUDIES (REL)

In Religious Studies, students are exposed to a cross-cultural and multi-disciplinary study of the way in which both individuals and civilizations are deeply influenced by human religious experience. The goal is to enable the educated person to understand better the various ways in which religious values and institutions shape human behavior through a comparative study of religions and cultures. Such an education is invaluable for careers as diverse as journalism, law, medicine, business, as well as careers more directly related to the practice of religion. Majors in Religious Studies will also find courses designed to give them the methodological, theoretical and linguistic skills needed to go on to advanced graduate study in the field.

Requirements for the Major in Religious Studies

A total of 36 credit hours chosen from Religious Studies courses. Transfer students may not apply more than 6 credit hours taken elsewhere toward the minor at USF. Only letter grades will be considered for transfer. Requests for transfer of credit must be made to the Undergraduate Director in writing when declaring a minor.

All minors must take
a. REL 3003 Introduction to Religion (3); and
b. REL 4931 Seminar in Religion (3) - various topics

c. An additional 12 credit hours chosen from Religious Studies courses. Students are expected to study at least two different religious traditions.

All transfer student must take a minimum of 24 hours in Religious Studies courses at the University of South Florida. It is the prerogative of the Department of Religious Studies to determine whether courses taken at other universities may be applied toward the major at the University of South Florida. This will be decided as soon as the student becomes a major in the Department of Religious Studies at the University of South Florida.

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

Requirements for the Minor in Religious Studies

A total of 18 credit hours chosen from Religious Studies courses. Transfer students may not apply more than 6 credit hours taken elsewhere toward the minor at USF. Only letter grades will be considered for transfer. Requests for transfer of credit must be made to the Undergraduate Director in writing when declaring a minor.

All minors must take
a. REL 3003 Introduction to Religion (3); and
b. REL 4931 Seminar in Religion (3) - various topics

c. An additional 12 credit hours chosen from Religious Studies courses. Students are expected to study at least two different religious traditions.

It is the prerogative of the Department of Religious Studies to determine whether courses taken at other universities may be applied toward the minor at USF. This will be decided as soon as the student declares a minor in the Department of Religious Studies at USF.

SOCIAL WORK (SOK)

The University of South Florida offers a program leading to a Bachelor of Social Work (B.S.W.) degree in the School of Social Work, College of Arts and Sciences. This program has been developed in accordance with the guidelines set forth by the Council on Social Work Education, the national accrediting body for social work education programs, and in accordance with the recommendations of the National Association of Social Workers. The B.S.W. program is fully accredited by the Council on Social Work Education. The primary objective of the B.S.W. program is the preparation of the graduate for beginning level professional practice as a social work generalist.

The secondary objectives of the B.S.W. program are:
1. to 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. to prepare graduates for professional training at the graduate level in social work or in related human service professions;
3. to 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 the student with an opportunity to develop a knowledge base and skill base as a "generalist" practitioner. The student will develop an understanding of various interventive methods and skills in their application to a variety of client systems. For example, interventive methods may take the form of individual and group counseling, resource development, consultation, teaching, advocacy, etc. Client systems may be individuals, families, groups, community groups, organizations, or social welfare organizations. The student will develop an understanding of the dynamics of human behavior in individual, group and
organizational contexts and the influences of the sociocultural 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, as any professional 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.

Enrollment in the B.S.W. program is limited. Unlike many academic programs where the student may declare a major, the B.S.W. program is a limited access program. Students may apply for admission to the School for the B.S.W. program after having satisfied the admission criteria described below.

However, the completion of the prerequisites does not guarantee the student's admission to the program. Limited state funding places constraints on the size of the student: faculty and in order to maintain a high quality of instruction it is necessary to achieve an appropriate faculty-student ratio. This means that it may be necessary to deny admission to the B.S.W. program solely on the basis of no available space. Any student applying for admission to the program should be aware of this possibility.

Additionally, any student who does not maintain a GPA of at least 2.75 in social work courses while enrolled in the B.S.W. program or who clearly does not exhibit responsible professional behavior, may be subject to dismissal from the program. A social work major receiving a grade of less than "C" in a core course will be required to repeat the course. Furthermore, no student will be allowed to enter field placement with a "D" grade on any SOW core courses, even if the student's GPA is 2.75 or above with the inclusion of the "D" grade.

Admission to the B.S.W. program is a two-stage process. Any student who holds a minimum of Sophomore standing may declare a pre-social work major. This is done by filing a declaration of major form with the College of Arts and Sciences Records and Advising Office. All pre-majors will be assigned to an advisor within the School who will assist the student in selecting pre-core courses (see listing of pre-core courses). Many students will have already taken most of the pre-core courses as part of general distribution at USF or in their course of study at a community college. After completing the pre-core courses a student will be ready to apply for admission to the B.S.W. program as a full major. It is necessary to be admitted as a major before taking core social work courses.

Admission requirements for the social work major are as follows:
1. A student must have completed a minimum of one semester as a pre-social work major;
2. A student must have completed required pre-core courses (see listing);
3. A student must complete an application for admission and file it with the School of Social Work before the beginning of the semester in which admission is sought;
4. A student may be asked to complete an admission interview with a favorable action from the Undergraduate Admissions Committee.
5. A student must achieve a grade of "B" or better in SOW 3302, Introduction to Social Work, and SOW 3203, The American Social Welfare System, to be considered for admission.

6. A student must have successfully completed CLAST. CLAST may be repeated and the applicant may reapply to the program after successful completion of CLAST.

A student must achieve a GPA of 2.75 in all Social Work courses to enroll in field placement and subsequently graduate with the B.S.W. degree.

Pre-Core Courses
A student must successfully complete:
1. One course in each of the following cognate areas or equivalency:
   - Human Biology:
     - Food: Personal and Global Perspectives
     - Sex and Today's World
     - Principles of Biology for Non-majors
     - Human Anatomy & Physiology
     - Human Sexual Behavior
   - Political Science:
     - American National Government
     - State and Local Government and Politics
     - Florida Politics and Government
   - Psychology:
     - Introduction to Contemporary Psychology
     - Contemporary Problems in Psychology
     - Experimental Psychology
     - Psychology of Adjustment
   - Sociology:
     - Introduction to Sociology
     - Contemporary Social Problems
     - Social Psychology
     - Sociology of Sex Roles
     - Social Stratification
     - Sociological Aspects of Deviance
   - Africana Studies:
     - Introduction to the Black Experience
     - Social Institutions and the African-American Community
     - Black Women in America
     - Culture and Society in Africa
     - Racism in American Society
     - Blacks in the American Political Process
   - Anthropology:
     - Introduction to Anthropology
     - The Anthropological Perspective
     - Cultural Anthropology
     - Sex Roles in Cross-Cultural Perspective
     - Ethnic Diversity in the USA
     - The Individual and Culture
   - Sociology:
     - Racial and Ethnic Relations
   - Women's Studies:
     - Introduction to Women's Studies
     - Psychology of Women
     - Sex Roles in Cross-Cultural Perspective
     - Women and Politics
     - Issues in Feminism
     - American Women in Contemporary Society I
     - American Women in Contemporary Society II
     - Literature by American Women of Color
     - The Image of Women in Literature (also offered in English)
     - Third World Women Writers (also offered in English)
   - 3. Life Span Development course -
     - The Life Cycle
   - 4. Both of the following Social Work courses -
     - American Social Welfare System
     - Introduction to Social Work

Requirements for the Major in Social Work (Core Courses)
1. Human Behavior and Social Environment Courses
   - SOW 3101 (3)
   - SOW 3102 (3)
2. Social Welfare: Policy & Service Course
SOW 4233 (4)
3. Social Research Course
SOW 3401 (4)
4. Social Work Practice Courses
SOW 4341 (5) SOW 4343 (5)
5. Directed Field Experience
SOW 4510 (9)
6. Multi-cultural America
SOW 4522 (3)

**SOCIOLOGY (SOC)**

The primary purpose of the major in Sociology is to contribute directly to the student's capacity for critical analysis and understanding of social phenomena and the dynamics of social structure and process. As a consequence, it must prepare students for a wide range of careers such as teaching, law enforcement, personnel work, sales, management, research, urban planning, etc. It also provides preparation for advanced graduate work in sociology and other applied social science areas such as gerontology, criminal justice, rehabilitative counseling, social work, etc.

**Requirements for the Major in Sociology**

The major consists of a minimum of 36 credit hours of sociology coursework. Eighteen (18) of these credit hours are comprised of "core" courses each of which all sociology majors are required to take.

The "core" courses include:
- 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 prior to declaring sociology as one's major)
- SYA 3010 Classical Theory (pre-requisite for SYA 3015)
- SYA 3015 Contemporary Theory
- SYA 3300 Quantitative Research Methods
- SYA 3310 Qualitative Research Methods
- SYA 4935 Senior Seminar (If a grade is less than "C" is obtained in the Senior Seminar, an additional preparatory course in Sociology will be required - bringing the minimum number of Sociology credits to 39)

It is highly recommended that students complete these core requirements (with an exception of Senior Seminar which cannot be taken the student's senior year) as soon as possible after declaring Sociology as a major.

The remaining 18 hours of sociology coursework may be comprised of any of the courses offered by the sociology department WITH THE EXCEPTION OF: SYG 3010, Contemporary Social Problems, SYG 2412, Marriage, and SYA 3504 Visual Sociology Laboratory, or their equivalents taken at other institutions. These courses will NOT count toward the 36 hour minimum. Students are encouraged to make an appointment with the Sociology Department's Undergraduate Advisor if they have questions about which of the Sociology electives offered each semester would best meet their interests and career goals.

Sociology coursework in which a grade below "C" is attained will not count toward the 36 hours minimum. Grades of "D" or "F" attained in any sociology courses attempted at USF will, however, be included in the calculation of the USF major GPA (which must be 2.0 or higher at the time of graduation).

Transfer students should be aware that by University regulation, a minimum of 30 of the last 60 hours counted toward graduation, must be USF courses. The Sociology Department requires that 27 of the 36 hours of sociology credits be USF courses as well.

In addition to the 36 hours of sociology credits, Sociology Majors are required to complete a minimum of 80 semester hours of "outside the major" coursework as a part of the total of 120 hours required for graduation by the University. The sociology courses which do not count toward the 36 hours of sociology credits (SYG 3010, SYG 2412, and SYA 3504) will count toward this 80 hour minimum (as will courses offered by other departments in the University). As a part of the 80 hours of "outside the major" coursework, students must take a course in Social Science Statistics (ISS STA 3122) as a prerequisite to SYA 3300. Students are also strongly encouraged to become both computer literate and skilled in the use of the USF library.

**Requirements for the Minor in Sociology**

A minor consists of a total of 18 credits of coursework offered by the Sociology Department and must include SYG 2000 (Introduction to Sociology) or its equivalent, either SYA 3010 (Classical Theory) or SYA 3015 (Contemporary Theory) and either SYA 3300 (Quantitative Methods) or SYA 3310 (Qualitative Methods). The remaining 9 credits may be comprised of any of the courses offered by the department WITH THE EXCEPTION OF: SYG 3010, SYG 2412, and SYA 3504. Courses in which a grade lower than "C" is attained will not count toward the minimum of 18 credits in sociology. Students do not "declare" a minor until the time of application for graduation. At that time, they will be asked to list all sociology coursework taken (along with the grades attained). While we do not require that students minoring in Sociology see an advisor, they are very welcome to make an appointment with the advisor if they have questions about which Sociology courses might best contribute to their future career plans.

Both Sociology Majors and Minors are limited to taking 3 hours of SOC SYA 4910 (Individual Research). 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.

**WOMEN'S STUDIES (WST)**

**Requirements for the Major in Women's Studies**

The major in Women's Studies provides a well-rounded Liberal Arts education based on the best and most current scholarship on women in many disciplines. Its subject is not only the evolution of historical attitudes, ideologies, and practices concerning women but also an analysis of the current status of different classes, races and groups of women. Women's Studies offers excellent undergraduate preparation as well for (1) those who wish to apply to law school or to graduate study in a variety of fields, e.g., Urban or Medical Anthropology, Counselor Education, Criminal Justice, Gerontology, History, Rehabilitation Counseling, Social Work, Women's Studies; (2) those who want to focus on women in specific disciplines or professions; and (3) those whose training would benefit from a close scrutiny of the major issues facing women today.

Majors must complete 36 hours distributed as follows:

- Required Core Courses (6 hours)
  - WST 3011
  - WST 4935

- and at least 1 course from each of the following 6 areas of concentration (18 hours) and 12 hours of electives
  1. MULTICULTURAL ISSUES
  - WST 3275
  - AFA 4335
  - ANT 4302
  - WST 4260
  - WST 5286

- 2. HISTORY
  - WST 3275
  - AFA 4335
  - WST 3210
  - WST 3220
  - WST 2309
  - WST 4310
American Criminal Justice Association—To offer students an organization that exposes them to career opportunities in fields related to criminology. We also provide interaction between students and professionals in the field of criminal justice.

American Medical Student Association (AMSA) - Open to all Pre-Medical students. AMSA sponsors student-run projects carried out at the local level that allows future physicians to work in their communities as teachers and advocates of health promotion and disease prevention.

Anthropology Club—To promote and encourage an interest in Anthropology among individuals within the USF community, to provide a forum for the exchange of anthropological ideas between faculty and students, and foster an informal and creative atmosphere for interaction.

Arts and Sciences College Council—To represent the students of the College of Arts & Sciences in expressing their opinions, to help them participate in determining college policy, to provide services that may help in furthering their interests and education in the Arts and Sciences.

Arts and Sciences Honor Society—To recognize high academic achievement by students in the College of Arts and Sciences.

Association of Minority Communicators—To inform and help facilitate minority students interested in Communication about the profession and help them gain practical experience.

Blacks Organized for Social Science—This is a service club for students majoring or interested in the social science field who wish to enhance studies and broaden leadership skills.

Colloquia in Literature and Linguistics—Provides a stimulating environment in which graduate students in French, Spanish, and Linguistics can share and expand their scholarly endeavors. Sponsors guest lectures.

Communication Council—To encourage and promote extracurricular learning as well as social interaction among communication majors and minors.

French Club—To promote the interest of the French language, Francophone culture and civilization through programs scheduled at club meetings and through social events of the club.

Gamma Theta Upsilon—To foster academic excellence in the field of Geography and related disciplines.

Geography Club—To foster understanding of and stimulate interest in the discipline of Geography and its subfields.

Geology Club—The Geology Club at USF involves its members along with the department in many activities such as trips, annual T-shirt sales and extracurricular academic participation. These events include hosting weekly lecture series by professional geologists and providing opportunities for members to teach geology to local elementary schools.

German Club—To promote the interest of German language, culture, and civilization through programs scheduled at club meetings and through social events of the club.

Humanities and American Studies Society—This organization’s stated purpose according to its Constitution, is “to inspire a greater appreciation of our past and present through the study and enjoyment of various art forms.” Activities range from gallery strolls to lectures, film series, and campus theatre performances.
International Studies Organization - To promote interaction between students and faculty. To enlighten the student populace of USF of the values of International studies and to foster gender relations among international studies majors.

Italian Club - The purpose of the Circolo Culturale Italiano is to provide educational opportunities and experiences in the American Life to its members and help them to improve their knowledge of the Italian language and culture. It also sponsors lectures, social events and grants scholarships to deserving students of Italian.

Legal Brief - To publish an annual law journal devoted to the exploration of legal issues through articles, interviews and practice experiences.

Minority Preprofessional and Science Society - The objectives of the Society are to:
(1) promote minority student interest in careers in the natural sciences and the health professions;
(2) provide a support network to enable students to be academically successful.
The Society meets twice monthly on Wednesday afternoons. Membership is open to all students in the College of Arts and Sciences. For further information call the Health Professions Advising office, 974-2674/3874.

NASW Sub Unit (National Assoc. of Social Workers) - To be a subunit of the National Association of Social Workers, and to provide a social organization for the School of Social Work students.

National Student Speech Language Association - Association was created because of students' desire for a closer affiliation with professionals in the discipline of human communication sciences and disorders.

Phi Sigma Iota - International Honor Society for outstanding majors and minors in Classics, all Foreign Languages and Literature, Bilingual Education, Foreign Language Education and Comparative Literature.

Pi Gamma Mu - International Honor Society for the Social Sciences.

Pi Mu Epsilon - The mathematics honor society to which the best scholars among our students are invited. Particular emphasis is given to performance in mathematics courses.

Pi Sigma Alpha - To function as an integral part of the political science department in the promotion of worthwhile extracurricular activities related to public affairs.

Pre-Dental Society - The Pre-Dental Society is open to all students with an interest in Dentistry. Through the Society students have an opportunity to not only get to know other Pre-Dental students, but to meet and hear presentations from dental school admissions officers and practicing dentists. The Society also has organized an extensive mentor program through which students can arrange to observe dentists from each of the specialties as they work in their offices.

Preoptometry Society - This new society will provide students an opportunity to learn more about the profession of optometry and to meet other students interested in the profession. Any interested student is invited to join.

Pre-veterinary Society - USF Pre-veterinary Society provides fellowship and exchange among students interested in veterinary medicine, animal science and/or research. Membership is open to students from USF and other local colleges who wish to participate in a variety of activities which will enhance their knowledge in animal science. Activities have included tours at EPCOT - the Land of the Seas, Sea World, Lowry Park Zoo, an ostrich farm, and University of Florida College of Veterinary Medicine. Students meet a variety of specialists in the area.

Religious Studies Community Forum (RSCF) - The purpose of RSCF is two-fold. First, we establish cohesion among students and among students and faculty. Secondly, we also build a social structure that supports our academic goals and extends our interaction beyond the classroom.

Student Broadcasting Association - To give students with an interest in television/radio journalism on-hand experience and the opportunity to produce a news program for public access television.

Student Chapter of the Mathematical Association of America - A club for students who enjoy doing, discussing and learning mathematics.

Student Society for Technical Communication - SITC offers students scholarships, publication competitions, internship opportunities, resume and computer workshops and networking socials with local professionals who are established in the field.

Women's Studies Student Association - To promote interest in women's issues and provide an informative and social atmosphere for all interested Women's Studies affiliates.
The College of Business Administration offers courses of study leading to both undergraduate and graduate degrees. These programs are designed to prepare men and women for careers in business and public service.

All degree programs in the College of Business Administration are fully accredited by the American Assembly of Collegiate Schools of Business (AACSB).

The undergraduate curriculum which leads to a Bachelor of Arts or Bachelor of Science degree is composed of several segments: (1) broad general education in the arts, humanities and sciences; (2) the common body of knowledge for management responsibilities; (3) specialized areas of concentration in Accounting, Economics, Finance, Management, Marketing, General Business, Management Information Systems; and (4) opportunities for breadth in both business and nonbusiness subjects. Through flexibility in its requirements, the College is able to satisfy the different interest and career objectives of students with diverse backgrounds. Graduate programs in the College are described in the USF Graduate Catalog.

BACCALAUREATE LEVEL DEGREE PROGRAMS

Admission to the College Undergraduate Programs

1. Admission to the College of Business Administration is based upon availability of faculty and space by discipline.
2. The College of Business Administration is an upper level limited access college, which means that it has admission requirements in addition to those of the University in general. The criteria to be admitted to the College of Business Administration are as follows:
   a. Minimum of 60 semester hours of college credit earned.
   b. Minimum of 2.0 cumulative grade point average on all college-level work and minimum 2.0 on all credit attempted at USF including any prior to salvage.
   c. Completion of these prerequisite college courses (or equivalents):
      - Financial & Managerial Accounting I & II
      - Microeconomics and Macroeconomics
      - Statistics I
      - Computers in Business
      - Elementary Calculus I
   d. All courses (or their equivalents) listed in c., above, must be completed: (1) with at least a C-grade, and (2) with a combined minimum grade point average of 2.0.
   e. 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.
3. Students working toward meeting the limited access criteria will be permitted to enroll in all foundation courses in Business (listed below) except GEB 4890, provided they have completed 60 semester hours and have met course prerequisites.
4. Minimum of 550 on TOEFL when applicable.
5. Students must be admitted to the College of Business Administration at least one term before their anticipated graduation date.

Academic Dismissal

Students who have been dismissed twice from the University for academic reasons will not be readmitted to the College of Business Administration.

Transfers from Junior/Community Colleges

Junior/community college students should complete the program of general education at the junior/community college. Students pursuing the associate degree in university transfer/parallel curricula at the junior/community college should take two semesters of mathematics to include a course in elementary calculus, two-semesters of accounting principles, two semesters of economic principles, one semester of statistics, and one semester of data processing, including computer utilization and, perhaps, a speech course. (See paragraph 2c above.) Students pursuing associate degrees in terminal/career programs must be aware that some courses taken at the junior/community college may not be acceptable for credit in the baccalaureate programs at USF.

Students should avoid taking any Business courses at the junior/community college which 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 economic courses taken at the lower division level which are offered as upper division courses at USF will not be accepted for upper division credit in business administration or economics. Exceptions to this policy will be made only upon proper validation of such courses. Validation consists of CLEP or other written examinations prepared and administered by the College of Business Administration, USF.

Transfer Students From Other Colleges and Universities

Transfer credits ordinarily will be accepted from accredited institutions in the amount earned; however, all hours earned may not always be applied toward graduation. Individual courses will be evaluated and appropriately credited toward requirements in the student's program at USF. Transfer students are required to complete satisfactorily, at USF a minimum of 50 percent (30-33 semester credit hours, depending on major) of required business courses, including at least 12 semester hours in the major field. Independent study and independent research courses do not fulfill this requirement. Students should be aware that USF Liberal Arts Exit Requirements will normally increase the minimum residency at USF by an additional six to nine credit hours. Note that College of Business Administration academic residency requirements for graduation exceed the minimum requirements established for USF.

General Requirements for B.A./B.S. Degree

Students must satisfactorily complete a minimum of 120 semester hours, of which 60 or more must be earned at baccalaureate degree-granting institutions. Of the minimum 120, at least 60 hours must be business courses, and a minimum of 54 hours must be non-business courses (i.e., all courses not normally offered in the College of Business Administration). Additional electives may be required to reach a minimum of 120 hours. These electives may be either business or non-business. More specifically the requirements for graduation are:

1. Non-Business
   a. General Education Requirements Semester Hours
      - English Composition 6
      - Quantitative Methods (Calculus is required) 6
      - Natural Sciences 6
      - Social Sciences 6
      - Historical Perspectives 6
      - Fine Arts 3
      - African, Latin American, Middle Eastern, or Asian Perspectives 3
      - TOTAL 36

   Exit Requirements Semester Hours
   - Major Works and Major Issues 6
   - Literature and Writing 3
   - TOTAL 9

   (see Liberal Arts Requirements for more details)

   SUFFICIENT ELECTIVE COURSES TO REACH A MINIMUM NON-BUSINESS HOURS 54
2. Business

Foundation Courses in Business

- ACG 2021 Principles of Financial Accounting 3
- ACG 2071 Principles of Managerial Accounting 3
- BUL 3320 Law and Business I 3
- CGS 2000 Computers in Business 3
- ECO 2013 Economic Principles: Macroeconomics 3
- ECO 2023 Economic Principles: Microeconomics 3
- ECO 3101 Intermediate Price Theory 3
- FIN 3403 Principles of Finance 3
- OMB 2150 Business & Economic Statistics I 3
- OMB 3200 Business & Economic Statistics II 3
- MAN 3025 Principles of Management 3
- ISM 3431 Management Science POM 3
- MAR 3023 Basic Marketing 3
- GEB 4890 Business Policy 3
- Total Foundation Courses in Business 42

Major Requirements

- Sufficient courses to reach at least 60 hours
- Minimum Business Courses 18-24
- Minimum Total Hours 60-72

3. Electives in Business or Non-Business

- Sufficient elective courses to reach a minimum of 120 hours
- Minimum Total Hours 120

4. All Business majors are required to take a speech course (SPC 2023, COM 3110 or equivalent) and an advanced writing course (ENC 3213, ENC 3310), or equivalent.

5. All business students are required to select at least one course that deals with contemporary international topics. This course can be included in the business, non-business, or elective category. Consult with a business advisor for suggestions on acceptable courses.

6. A grade-point average of 2.0 must be achieved in the major field, as well as in all college work and in all USF work, for students to be certified for graduation. Students must have satisfactorily completed CLAST and the writing and computation course requirements of 6A-10.30 ("Gordon Rule"). For a Bachelor of Arts degree, students must demonstrate competence in a foreign language (refer to the Academic Policies and Procedures section of this catalog). American Sign Language is not approved by the College of Business for the Foreign Language Exit Requirements. Students must be certified for graduation.

7. All courses in the major or minor field and all foundation courses in business must be taken on a graded basis; the S/U option is not available.

8. Accounting majors are required to take ACG 2071 and may enroll in ACG 3103 upon the completion of ACG 2021 and admission to the College of Business Administration. While the College provides advising services to assist students with academic planning, the responsibility for seeing that all graduation requirements are met ultimately rests solely with the student.

Student Advising and Records

The Office of Undergraduate Programs provides the following services for College of Business Administration students:

1. Academic advising and program information.
2. Orientation of undergraduate students applying for admission to the College of Business Administration. Orientation is mandatory prior to being accepted.
3. Registration and drop/add for business courses.
4. Evaluation of undergraduate transcripts of transfer students.
5. Maintenance of academic advising records for all admitted students.

PROGRAMS AND CURRICULA

GENERAL BUSINESS (GBA)

The General Business Major is a program of study that will allow the student to take additional upper level course work in several business and, in some instances, other disciplines related to the student's plan of study.

Requirements for the B.A./B.S. Degree

Within the 120 semester hour program as listed in the General Requirement section, students must complete a minimum of 18 hours of upper level courses beyond the business core requirements.

- Student are required to take one upper level course from each of the following groups:
  - Accounting: ACG 3103 Intermediate Financial Accounting I (3)
  - ACG 3341 Cost Accounting and Control I (3)
  - TAX 4001 Concepts of Federal Income Taxation (3)

- Economics: Any course offered by the Economics Department numbered 3000 or above.

- Finance: Any course offered by the Finance Department numbered 3000 or above (except FIN 3100 and FIN 3105).

- Management: MAN 3240 Organizational Behavior Analysis (3)
- MAN 3401 Industrial Relations (3)
- ISM 3011 Management Information Systems (3)

- Marketing: MAR 3823 Marketing Management (3)
- MAR 3613 Marketing Research (3)

- Other upper level business electives (3-9)

- TOTAL (18-24)

Independent study and independent research courses are not appropriate electives.

Requirements for a Minor in Business Administration

Admission to the Business Administration Minor Program requires the permission of the student's major program advisor. All students admitted to the program must take an introductory computer course (with a content similar to CGS 2000 Computers in Business) or obtain a waiver for this requirement by demonstrating competence in the use of computers.

The course requirements are:

1. ACG 3074 Managerial Accounting for Non-Business Majors (3)
2. ECO 1000 Basic Economics** (3)
3. FIN 2935 Introduction to Managerial Finance (3)
4. GEB 2935 Business: On the Cutting Edge (3)
5. MAN 4930 Organizational Behavior Analysis (3)
6. MKT 3023 Basic Marketing (3)
7. 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 any institution.
8. At least 12 hours of the required 18 credit hours must be taken in residence at USF.

**ACG 2021 & ACG 2071 may be substituted for ACG 3074.**

**ECO 2013 & ECO 2023 may be substituted for ECO 1000.**

ACCOUNTING (ACC)

The objectives of the baccalaureate degree program in accountancy are to provide students with accounting and business knowledge that will serve as a basis for careers in industry, government, non-profit organizations and public accounting. The baccalaureate program also prepares students for entry into the Master of Accountancy (M.Acc.) professional degree program.

The State of Florida, like most states, requires a fifth year of education in order to sit for the CPA examination. Any further questions concerning the CPA examination should be directed to the faculty of the School of Accountancy.

Requirements for the B.A./B.S. Degree

In addition to the non-business and business foundation courses listed in the General Requirements section, students must complete a minimum of 27 hours of upper level accounting courses and sufficient elective hours to reach a 120 hour total.
**ECONOMICS (ECN)**

Economics offers a clear, logical way of thinking about complicated business problems and contemporary social issues such as unemployment, inflation, pollution, and crime. The department offers two major programs. Option I, by offering broad choices, allows students to tailor their programs to provide training for careers in business, teaching, or government service. It is also excellent preparation for graduate education in business, law and other professional areas. Option II, by offering the student continuing concentration in price theory, aggregate economics, mathematical economics, and econometrics, prepares students for graduate education in economics. The department offers a minor program open to students throughout the University.

Students interested in majoring or minoring in economics should contact the undergraduate academic advisor in the Department of Economics for more information about the program.

**Requirements for the B.A./B.S. Degree:**

Within the 120-semester hour program as listed in the General Requirements section, students must complete a minimum of 18 hours of upper-level economics beyond the business core requirements. Students must obtain a grade of "C" or higher in ECO 3101, Intermediate Price Theory, in order to enroll in any course for which ECO 3101 or ECO 3203 is a prerequisite. No more than 3 hours credit can be applied toward a major from ECO 4905 and/or ECO 4914.

**Option 1**

Required Economics Courses:

- ECO 3203
- At least 9 of the 15 hours of additional upper-level economics courses must be courses for which either ECO 3101 or ECO 3203 is a prerequisite. These courses are marked with an asterisk.

**Group A** (at least 3 hours) selected from:
- ECO 3622, ECP 3413, ECP 3613, ECP 4232, EGS 3013

**Group B** (at least 3 hours) selected from:
- *ECO 4303, ECO 4323, *ECP 4451, ECO 4003

**Group C** (at least 3 hours) selected from:

**FINANCE (FIN)**

The Finance major provides a broad-gauged analytical program for students anticipating a career in management of both large and small organizations. Finance provides a good background for students seeking a general career in business. Finance majors may elect to follow tracks which prepare them for entry and advanced careers in: the financial management of corporations, the management of financial institutions, investments, and financial services, insurance, and real estate. In addition, the program in Finance is designed to provide the skills required by students earning degrees in other business disciplines and by students who seek professional degrees in areas such as law and public administration.

The Finance program offers applied and theoretical courses to enable the graduate to identify and solve problems in the acquisition and allocation of funds by organizations in both the private and public sectors in both domestic and international settings. Finance relies on an interdisciplinary approach which draws on economic theory, accounting, information systems, and the quantitative decision frameworks of statistics and mathematics.

The major is designed to insure that graduates will be familiar with the essentials of financial decision-making, and that they will possess the skills to stay abreast of the developments in the field. Finance graduates will understand the functions and operations of financial markets, will be facile with computer applications in finance, and will know how to access and utilize financial information. Course content is designed to provide majors with an appreciation of cooperative work skills and to enhance their verbal and written communication skills.
Requirements for the B.A./B.S. Degree

Within the 120 semester hour program as listed in the General Requirements section, students must complete a minimum of 18 hours and a maximum of 24 hours of upper-level finance courses beyond FIN 3403.

Required Finance Courses:
- FIN 4414 Advanced Corporation Finance (3)
- FIN 4504 Principles of Investments (3)

Additional upper level Finance electives (9-15)

Total (18-24)

Finance electives may be selected from among those 3000 and 4000 level classes which have FIN, REE, and RMI prefixes. At least two electives must have an FIN prefix. The following Finance tracks are recommended for students with specific interest in the following career areas:

Corporate Financial Management
- FIN 3604 International Finance
- FIN 4412 Working Capital Management
- FIN 4443 Financial Policies and Strategies

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

Investments
- FIN 3604 International Finance
- FIN 4514 Advanced Investment Analysis and Management
- REE 4303 Real Estate Investment Analysis

Financial Services
- FIN 3604 International Finance
- FIN 4514 Advanced Investment Analysis and Management
- REE 3043 Principles of Real Estate
- RMI 3011 Principles of Insurance

Requirements for a Minor in Finance
(for Business Majors only)

Students majoring in Business Administration may minor in Finance. The requirements are:

1. FIN 4506 Principles of Investments (3)
2. FIN 4303 Financial Institutions and Markets (3)
3. FIN 4414 Advanced Corporation Finance (3)
4. Another upper level Finance elective with an FIN, REE, or RMI prefix (3)

Total Finance Hours (12)

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 any institution.

3. At least 9 of the required 12 credit hours must be taken in residence at USF.

- INFORMATION SYSTEMS AND DECISION SCIENCES (ISM)

The Management Information Systems (MIS) major provides the skills, knowledge and abilities necessary for information systems development and information systems management positions both in business and non-business organizations.

Requirements for the B.A./B.S. Degree

Students will typically enter the program at the beginning of their junior year. Within the 120 semester hour program listed in the General Requirements section, students must complete a set of four MIS courses which are required of all majors, nine or twelve hours of approved MIS electives (see recommended tracks). No more than six credit hours can be applied toward the major for ISM 4905 and/or ISM 4950.

Required MIS Courses:
- ISM 3230 Introduction to Business Application Development (3)
- ISM 3113 Systems Analysis and Design (3)
- ISM 4212 Database Administration (3)
- ISM 4300 Managing Information Services (3)

Approved MIS electives (9-12)

ISM 3230 (Introduction to Business Application Development) is to be taken before, or concurrently with, ISM 3113 (Systems Analysis and Design) which is a prerequisite for all other MIS courses. Normally ISM 3113 should be completed by the end of the first semester of the junior year.

Students choosing the Large Scale Systems track below will be required to take a two semester sequence in COBOL programming (two 3-hour courses) plus 9 hours of approved MIS electives. Both COBOL courses are currently offered by the College of Engineering and will NOT count as MIS or Business electives. Students choosing any other MIS track or program must take ISM 3232 (Advanced Business Application Development) plus 9 hours of approved MIS electives.

The following MIS elective tracks are recommended for students with specific interests:

Distributed Technology Track (Client/Server & Open Systems)

This track requires
- ISM 3232 - Advanced Business Application Development
- ISM 4320 - Information Systems Controls or ISM 4930 - Selected Topics: Advanced Database Design
- ISM 4220 - Business Data Communication
- ISM 4930 - Selected Topics: Emerging Technologies or ISM 4240 Distributed Operating Systems

Large Scale Systems Development Track (Mainframe Application Development)

This track requires a 2-course sequence in COBOL Programming
- ISM 4320 - Information Systems Controls or ISM 4930 - Selected Topics: Emerging Technologies
- ISM 4930 - Selected Topics: Operating Systems
- ISM 4220 - Business Data Communication

End User Development and Support Track (PC Support & Local Area Networks)

This track requires
- ISM 3232 - Advanced Business Application Development
- ISM 4320 - Information Systems Controls or ISM 4220 - Business Data Communication or ISM 4930 - Selected Topics: Emerging Technologies or ISM 4240 - Distributed Operating Systems
- ISM 4930 - Selected Topics: End User Computing
- ISM 4400 - Decision Support Systems

Requirements for a Minor in MIS
(for Business Majors only)

Students majoring in Business Administration may minor in MIS. The requirements are:

1. ISM 3113 Systems Analysis & Design (PR/CR ISM 3230) (3)
- ISM 4212 Database Administration (3)
- MIS electives approved by department chair (6)
- Total MIS hours (12)

2. 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 any institution.

3. At least 9 of the required 12 credit hours must be taken in residence at USF.

- MANAGEMENT (MAN)

The undergraduate degree in the Department of Management prepares students for entry level positions in Human Resource Management, Industrial Relations, and Small Business Management. It also prepares students for entry into
graduated programs, such as the Master of Science in Management and the Master of Business Administration.

Requirements for the B.A./B.S. Degree
Within the 120-semester-hour program as listed in the General Requirements section, students must complete 18 hours of management beyond MAN 3025.

Required Management Courses:

- MAN 3240 Organizational Behavior Analysis (3)
- Additional upper-level management courses (15-21)
- Total (18-24)

MAN 4504 and MAN 4507 do not count towards the management major.

Students are encouraged to seek additional curriculum advice from the Management Department.

Requirements for a Minor in Management
(For Business Majors Only)
Students majoring in Business Administration may minor in Management.

The requirements are:
1. MAN 3240 Organizational Behavior Analysis (3)
   Management electives approved by department chair (9)
   Total Management hours (12)
2. 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 any institution.
3. At least 9 hours of the required 12 credit hours must be taken in residence at USF.

MARKETING (MKT)
Marketing is a dynamic field with many dimensions, including product selection and planning, product distribution, pricing and promotion. Marketing poses many challenges and yields generous rewards for those meeting these challenges. Marketing operations are carried out domestically and internationally in virtually all business organizations offering 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 in the end 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 -- to much of the dynamic nature of marketing.

The marketing program at USF prepares students for initial entry and management positions in many areas of marketing with a curriculum that is concerned with:
1. Understanding consumer behavior and the broader environment within which the firm or institution operates;
2. Collecting, analyzing, and using information about customers, competitors, and the environment for managerial decisions;
3. Distributing products effectively and efficiently from producer to user;
4. Advertising and promoting the offerings of the firm or institution effectively;
5. Creatively and effectively managing a sales force selling industrial or consumer goods and services; and
6. Managing retail and wholesale operations including the conceptualization, implementation, and evaluation of the buying, merchandising, and control functions.

Each student is strongly encouraged to set up an individualized plan of study with the assistance of a Marketing department faculty adviser. Such counseling can lead to a better definition of career objectives and will result in a plan of study that is consistent with each student's career objectives.

Undergraduate students in the College of Business not majoring in Marketing are encouraged to take selected offerings from the Marketing curriculum to broaden their backgrounds and to prepare for marketing-related positions in business or non-profit organizations.

Requirements for the B.A./B.S. Degree
Within the 120-semester-hour program as listed in the General Requirements section, students must complete a minimum of 18 hours in marketing beyond MAR 3023.

Required Marketing Courses:

- MAR 3823 Marketing Management (3)
- MAR 3613 Marketing Research (3)
- MAR 4824 Marketing Management Problems (3)
- Additional upper-level marketing courses (9-15)

Total (18-24)

It is strongly recommended that marketing majors include courses in speech, computer science, finite mathematics, social psychology, and mass communications as part of their general electives.

The following Marketing elective tracks are recommended for students with specific interests:

Industrial Marketing/Sales Management

- MAR 4403 Sales Management
- MAR 4453 Business to Business Marketing
- MAR 4503 Buyer Behavior
- MAR 3400 Professional Selling

Promotion (Industrial and/or Consumer)

- MAR 4333 Promotion Management
- MAR 4503 Buyer Behavior
- MAR 4933 Promotion Campaigns
- MAR 3400 Professional Selling

Logistics and Physical Distribution (Industrial and/or Consumer and/or International)

- MAR 4203 Channels Management
- MAR 4213 Logistics and Physical Distribution Management
- MAR 4453 Business to Business Marketing
- MAR 4231 Retailing Management and/or
- MAR 4156 International Marketing

Retailing

- MAR 4231 Retailing Management
- MAR 4503 Buyer Behavior
- MAR 4333 Promotion Management and/or
- MAR 3400 Professional Selling
- MAR 4213 Logistics and Physical Distribution Management

Other Campuses
Due to limited enrollment and faculty, only the following majors are regularly offered at the Regional Campuses:

- St. Petersburg
  Accounting, Management, and General Business Administration

- Sarasota
  Accounting and General Business Administration

- Fort Myers
  Accounting and General Business Administration

- Lakeland
  Accounting and General Business Administration

Students may declare other business majors while attending these locations, but it may be necessary to finish their major study requirements at another campus within the University.

Student Organizations within the College of Business
All students are encouraged to participate in extracurricular activities. The following organizations provide a means for students to develop both professionally and socially while attending the College of Business Administration.

- Association of Marketing Students - A collegiate chapter of the American Marketing Association, will help to further the growth of business oriented individuals within the field of Marketing.
Beta Alpha Psi - The national professional accounting fraternity devoted to the promotion of the profession, inspiring professional ideals, and recognizing academic achievement.

Beta Gamma Sigma - Honorary society which encourages and rewards outstanding scholarship among business students.

Business College Council - An organization whose representatives from each of the major fields advises the Dean of the College and the faculty on student attitudes and goals. Also, it acts as a liaison between the Student Government Association and the College of Business Administration.

Delta Sigma Pi - Fosters the study of business and a close association between students and the business world.

Economics Club - Provides a forum for discussion of economic issues and actively encourages communication between students and Economics faculty.

Management Information Systems Society - Student chapter of the Data Processing Management Association, career oriented and interested in all areas of business data management.

Minority Business Association - Encourages and supports students in their efforts to achieve success in a demanding academic setting.

National Association of Black Accountants - Develops, encourages, and serves as a resource for greater participation by African-Americans and other minorities in the accounting and finance professions.

Phi Chi Theta - A career oriented professional organization that encourages the study of business.

Pi Omicron Mu - An organization which practices the art and science of production and inventory management. ASPICS's primary objective is to develop professional efficiency through study, research, and application of scientific methods. Professional meetings and publications promote the dissemination of knowledge and information.

Pi Sigma Epsilon - A professional society interested in marketing, sales management, and selling.

Sigma Iota Epsilon - An honorary and professional management society affiliated with the Academy of Management.

Student Accounting Organization - Promotes accounting both as an academic discipline and as a profession.

Student Finance Association - An organization for finance majors and other business-oriented students which provides exposure to the many facets and opportunities in the field of finance.
The College of Education is accredited by the National Council for Accreditation of Teacher Education (NCATE). The College emphasizes student learning outcomes relevant for the world of the 21st century. Program goals focus on graduating highly competent teachers who reflect on their own professional practice and continue their professional development.

The College of Education is committed to a continuous and systematic examination of the professional program of teacher education. Professional practice is examined under controlled conditions, which make possible an objective appraisal of effects in terms of learning outcomes.

The University of South Florida follows a University-wide approach to teacher education. Its programs for the preparation of teachers represent cooperative effort in planning and practice by faculties of all academic areas. Courses needed by teacher candidates but designed also for other students are offered outside the College of Education. Courses in the University which are primarily designed for teacher candidates are taught by the College of Education faculty.

In the total teacher education program there is a special concern for developing in the student a deep interest in intellectual inquiry and the ability to inspire this interest in others.

BACCALAUREATE-LEVEL DEGREE PROGRAMS

Admission to the College

All students who plan to teach must apply for admission to a teacher education program through the Student Academic Services Office of the College of Education.

Admission to an upper level teacher education program is contingent upon meeting the following minimum college requirements:

1. Completion of a College of Education application form.
2. Completion of the General Education requirements. Admission may be granted if no more than three individual General Education courses remain to be taken, provided Freshman English has been completed.
3. An overall minimum GPA of 2.5 on all attempted hours plus a minimum ACT score of 20 or SAT score of 840 (950 if taken after April 1, 1995) will be required for full admission to the College. An overall minimum GPA of 2.25 on all attempted work will be accepted for students with a 22 or higher ACT score or SAT score of 940 (1030 if taken after April 1, 1995). Admission to programs will be based upon the applicants' performance on either test. If the number of applicants exceed the capacity of a program, preference will be given to students with higher scores. Students who meet all other requirements but have not achieved minimum test scores or minimum GPA may be considered under Affirmative Action.
4. Additional criteria are established by each program. (See Admission to Programs below.)

Admission to Programs

Admission to some programs is based on additional selection criteria beyond the College requirements stated above. Some programs accept a limited number of students. Additionally, certain programs admit students only in a specified semester. Students should refer to the specific program descriptions in this catalog for additional admission information. Information regarding admission requirements for the program(s) of their choice may also be obtained from the Student Academic Services, College of Education.

Time Limitations

The College of Education will accept professional education and specialization coursework completed at this University or at other accredited institutions as follows:

1. Courses completed within the last five years may be accepted.
2. Courses completed over five years but less than ten years ago. For courses taught by College of Education faculty, approval from the appropriate departmental chairperson is required before credit is granted. For courses taught by other than College of Education faculty, approval from the chairperson of the department that requires the course is necessary.
3. Courses completed ten years ago or longer will count as elective credit only.

Qualification for Internship Experience

The final internship experience is observing and teaching in early childhood, elementary, secondary, or exceptional schools. Internship sites include the entire spectrum of sites available in the various counties served by USF. Special vocational sites are arranged through the Adult and Vocational Education Department. Other than Senior Seminar and EEX 4070, students may not enroll in additional courses during the semester in which the final internship occurs.

Special requirements for enrollment in the final internship and seminar courses are:

1. Admission to the College of Education at least one semester before internship.
3. Completion of an application for the final internship by the deadlines noted below.
4. Elementary, Early Childhood and Physical Education programs require completion of all professional education and specialization course work. Elementary and Early Childhood programs also require a combined grade point average of 2.5 in professional education and specialization course work as well as an overall GPA of 2.5.
5. Secondary Education, Special Education and Vocational Education programs require completion of the professional course sequence except for measurement/special education/computers in education and a minimum of two thirds of the specialization coursework, plus a minimum GPA of 2.5 in each area or an overall GPA of 2.5.
6. Students must earn a "C" grade or higher in their required major courses. "S/U" grades are not accepted.
7. Placement in a school approved by the College of Education and the Florida Department of Education.
8. Completion of other requirements prescribed by the applicable program.

Applications for internship may be obtained in the Office of Clinical Education and Academic Advising. Applications for Fall Semester are due the preceding January 30. Applications for Spring Semester are due the preceding June 30.

Admission to Classes

The control of entry to all classes on all campuses will rest with the department chairperson. Students not in attendance at the first class meeting may be dropped from the course according to the procedures established by the University.

College Requirements for Graduation

To be certified by the College of Education for graduation, a student must have earned 120 semester hours credit. A minimum overall USF grade point average of 2.5 or a minimum GPA of 2.5 in teaching specialization courses and a minimum GPA of 2.5 in the Professional Education sequence is required. The Elementary/Early Childhood programs require a combined grade point average of 2.5 in professional education and specialization as well as an overall 2.5. Satisfactory completion of the internship is also required. Prior to completion of the internship, the student must pass both the subject area and the Professional Education sections of the Florida State Teacher Certification Examination. A student must also have completed the major requirements in a State-approved teacher education program (which include general preparation, teaching specialization, and professional preparation). A minimum of 8 credits in professional courses in addition to internship and 12 credits in specialization courses must have been earned in residence.
The student must complete a minimum of 30 hours after admittance to an upper level program. Students pursuing their first bachelor's degree must have passed all parts of the CLAST examination, and have completed foreign language, general education, "Gordon Rule," the summer school attendance requirement, and University exit requirements.

Specific Requirements
A minimum of 120 credit hours including the following:
- General Education: 36 credit hours
- Professional Education Core: 32-49 credit hours
- Teaching Specialization: 27-49 credit hours
- Liberal Arts Exit Requirements: 9 credit hours

Program requirements: Check individual program descriptions for requirements beyond the college minimum.

Normally, the college will recommend the granting of a Bachelor of Science (BS) degree. To obtain a Bachelor of Arts (BA) degree, the student must meet the Foreign Language Competency (see graduation requirements in front of catalog).

As part of the 120 credit hours minimum requirement for graduation, students may include elective courses. The courses should be selected in consultation with a faculty advisor. The College of Education permits students to count, as part of the English Education major, as part of their 120-hour requirements, courses in Elective Physical Education and up to 9 hours of USF Army or Air Force ROTC credits.

SunCoast Area Teacher Training Program (SCATT)
SCATT is an award-winning teacher training program founded on the premise that prospective teachers are the key to influencing the future of our society. The SCATT program offers options for College of Education majors to enhance their education: Option 1: the existing SCATT Program and Option 2: the SCATT Course Sequence.

The existing Program is designed to provide pre-service teachers with challenging activities, workshops, and seminars to aid and encourage them to become highly qualified, dedicated educators. The wide variety of opportunities offered to SCATT members provide them with an enhanced view of education as a field of study and with experiences which extend "above and beyond" the requirements of the present academic program. SCATT also helps prospective employers identify pre-service teachers who have demonstrated high levels of academic achievement, ability, leadership and a commitment to the profession.

The SCATT Course Sequence includes: early field experiences in the schools with SCATT supervising teachers, intensive study in current teaching strategies, exposure to top role models in the field of education, and a support network created to increase options for maximum success. Students who are selected to participate in the SCATT Course Sequence automatically become members of the existing SCATT Program. To receive SCATT Course status, the entire three course sequence is required. To be selected for the SCATT Course Sequence, students must apply, meet SCATT Program eligibility requirements, have three semesters remaining prior to their final internship, and participate in an individual interview.

Eligibility Requirements for SCATT
Students who have been admitted to the USF College of Education must have an interview/orientation before being admitted to the SCATT Program. This can be arranged by contacting the SCATT program at (813) 974-2061.

Florida Department of Education Requirements for Teacher Certification
College of Education programs are reviewed by the Florida Department of Education. Those programs meeting the requirements of Chapter 6A-5, Rules of the State Board of Education of Florida, are given "Approved Program" status. These rules are subject to rapid changes and programs must change accordingly to maintain their "approved" status. Program requirements listed in this catalog are needed for graduation. To be eligible for a Florida Educator's Certificate, the student must complete all requirements listed on applicable current program checklist, complete the "Professional Orientation Program" and pass all parts of the State Teacher Certification Examination.

Programs Leading to the Baccalaureate Degree
The College of Education has programs leading to the Bachelor of Science degree* in the following fields:

<table>
<thead>
<tr>
<th>Program</th>
<th>Department</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>Art Education</td>
<td>Secondary Education</td>
<td>ARE</td>
</tr>
<tr>
<td>Behavior Disorders</td>
<td>Special Education</td>
<td>EBD</td>
</tr>
<tr>
<td>Business and Office</td>
<td>Education</td>
<td>BTE</td>
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<tr>
<td>Education</td>
<td>Education</td>
<td>DEC</td>
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<tr>
<td>Mathematics</td>
<td>Education</td>
<td>EME</td>
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<tr>
<td>Education</td>
<td>Professional Education</td>
<td>EXP</td>
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<tr>
<td>Education</td>
<td>Social Science Education</td>
<td>ESE</td>
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<tr>
<td>Elementary Education</td>
<td>Childhood/Language Arts/</td>
<td>EEC</td>
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<tr>
<td>Education</td>
<td>Reading</td>
<td>EDE</td>
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<td>Foreign Language</td>
<td>Secondary Education</td>
<td>ENE</td>
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<tr>
<td>French</td>
<td>Secondary Education</td>
<td>FLF</td>
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<tr>
<td>German</td>
<td>Adult &amp; Vocational</td>
<td>EVT</td>
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<tr>
<td>Industrial-Technical</td>
<td>Education</td>
<td>FLS</td>
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<tr>
<td>Education/Technology Education</td>
<td>Education</td>
<td>FLG</td>
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<tr>
<td>Mathematics</td>
<td>Secondary Education</td>
<td>MAE</td>
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<tr>
<td>Education</td>
<td>Special Education</td>
<td>EMR</td>
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<tr>
<td>Education</td>
<td>Music Education</td>
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<td>Vocal</td>
<td>MEV</td>
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<td>Physical Education</td>
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<td>MEG</td>
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<td>Professional Physical Education</td>
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<td>Science Education</td>
<td>Secondary Education</td>
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<td>Biology</td>
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<td>Chemistry</td>
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<td>Physics</td>
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<td>Social Science Education</td>
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<tr>
<td>Specific Learning Disabilities</td>
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<tr>
<td>Teacher Education Program</td>
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</tbody>
</table>

There are four distinct areas in the teacher education program, and all teacher candidates must meet certain minimum requirements in each. The four areas and their requirements are as follows:

1. General Education Requirements (36 credit hours)
   See the University General Education Requirements section of the catalog.
2. Professional Education Core (36-45 credit hours)
   The required courses in the professional education core are as follows:
   - EDF 3122 Learning and the Developing Child (for Elementary or Early Childhood Majors) (4)
   - EDF 3214 Human Development and Learning (for all other programs) (3)
DEPARTMENTS AND PROGRAMS

The College of Education is organized into 8 departments. Each department has one or more programs which are listed alphabetically in the following departmental section.

Department of Adult & Vocational Education and Human Resource Development

The Adult & Vocational Education and Human Resource Development Department at USF offers degrees through the College of Education designed to prepare teachers and leaders in the various fields of Vocational-Technical and Adult Education and in the human resource development field. Certification programs leading to the Bachelor of Science (B.S.) degree are: Business and Office Education, Distributive and Marketing Education, Industrial-Technical Education, and Technology Education.

# BUSINESS AND OFFICE EDUCATION

Requirements for the B.S. Degree (BTE):

General Education and Professional Education requirements are listed under Teacher Education Program.

In Business Education, specific program competencies in the specialization must be demonstrated through satisfactory completion of BTE 4909. There are special prerequisites for BTE 4401, which are taken concurrently in the semester immediately prior to the supervised internship as approved by an advisor.

Specialization Requirements (43 cr. hrs.):

<table>
<thead>
<tr>
<th>Accounting (2 courses)</th>
<th>Office Information Processing/Word Processing</th>
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<tbody>
<tr>
<td>Economics (2 courses)</td>
<td>Principles of Vocational Education</td>
</tr>
<tr>
<td>Business Communications</td>
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<tr>
<td>Principles of Management</td>
<td></td>
</tr>
<tr>
<td>Office Occupations</td>
<td>Business Law</td>
</tr>
<tr>
<td>Procedures</td>
<td>Electives (6 hours)</td>
</tr>
</tbody>
</table>

Introduction to Computers approved by advisor

General Office/Administrative competencies met through successful completion of BTE 4909.

# DISTRIBUTIVE AND MARKETING EDUCATION

Requirements for the B.S. Degree (DEC):

General Education and Professional Education requirements are listed under Teacher Education Program.

Specialization (42 credit hours):

<table>
<thead>
<tr>
<th>ACG 2001</th>
<th>DEC 4941</th>
<th>ECO 2013</th>
<th>MAR 3023</th>
</tr>
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<tbody>
<tr>
<td>DEC 4161</td>
<td>ECO 2023</td>
<td>MAR 4403</td>
<td>MAR 3823</td>
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<tr>
<td>EVT 4065</td>
<td>FIN 3100</td>
<td>FIN 3105</td>
<td>MAR 4231</td>
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<tr>
<td>EVT 4333</td>
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</table>

Distributive and Marketing Education undergraduates are required to accumulate a total of five (5) hours of credit in DEC 4941 Supervised Field Experience to round out and broaden the vocational background of the student to properly fulfill certification requirements. Students will also be able to receive credit for participation in the professional activities of the Delta Epsilon Chi chapter of the Distributive Education Clubs of America, which is an integral part of the Distributive and Marketing Education teacher preparation curriculum.

# INDUSTRIAL-TECHNICAL EDUCATION

Requirements for the B.S. Degree (EVT):

General Education and Professional Education requirements are listed under Teacher Education Program.

INDUSTRIAL-TECHNICAL EDUCATION TRACK:

Enrollment in the Industrial-Technical Education program is restricted to persons with employment experiences qualifying them to teach Industrial, Technical, Health Occupations, or Public Service.

Special provision is made for students to satisfy four (4) of the required six (6) years of work experience in a specific occupation by completing an Associate in Science degree program in a technological specialty or successfully completing an appropriate occupational competency exam.

Acceptability of work experience will be determined by the program advisor.

Students may validate up to 30 semester hours of credit through the Occupational Competency Testing Program, or appropriate licensure or certificate.

Required: 38 semester hours

<table>
<thead>
<tr>
<th>EVT 4065</th>
<th>EVT 4166</th>
<th>EIV 4210</th>
<th>EVT 4562</th>
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<tbody>
<tr>
<td>EVT 4562</td>
<td>EVT 4367</td>
<td>EVT 4365</td>
<td>EIV 4360</td>
</tr>
<tr>
<td>EVT 4946</td>
<td>EVT 4084</td>
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</tbody>
</table>

*Another course may be substituted with advisor's approval*

TECHNOLOGY EDUCATION TRACK:

Within the EVT program, students can pursue state certification in Technology Education. In general, students enrolling in the Technology Education program are expected to have successfully completed, at a community college, most of the technical laboratory courses required for Florida Teacher Certification. Teacher certification requires students to have 30 semester hours, with three (3) semester hours in each of the following areas:

- (a) materials and processes, (b) drafting and design, (c) energy, (d) graphics, (e) electronics, (f) construction, and (g) industrial systems.

Students entering this program will have their transcripts evaluated to determine if all technical course requirements have been met. If the student has not completed the technical course requirements, the deficiencies may be corrected by enrolling in the required course(s) at a community college. Since this evaluation procedure is unique to the Technology Education Program, the application for admission should clearly indicate the desired major field as Technology Education.

The program of studies includes both course work and extensive field experience in school settings. This is to enable students to integrate the teaching practice.

Technology Education students must complete the General Education Requirements of 36 semester hours, the Professional Education Core Requirements of 40-41 semester hours, the
### Technical Course Requirements of 30 semester hours, and 23 semester hours in Adult and Vocational Education. The requirements in Adult and Vocational Education are as follows:

**Required: 23 semester hours including:**
- EVT 4065
- EIV 4210
- EVT 4165
- EIA 3192
- EIA 4360
- EVT 4365

Plus electives selected with advisor approval.

### Department of Childhood/Language Arts/Reading Education

The Childhood Education/Language Arts/Reading Education Department has the responsibility for the development and supervision of programs leading to the Bachelor of Science Degree in Early Childhood Education and Elementary Education.

Prerequisites for admission to these programs include two American History courses, or one American History and one American National Government course. These courses may be taken as part of the general education requirement.

Admission is limited to fall and spring semesters.

### Early Childhood Certification Program

Students may complete a (pilot) 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. Upon successful completion of the required courses and the associated internships, Early Childhood majors will be eligible to apply for certification in Pre-Kindergarten/Primary (age 3 - Grade 3). Please contact the Department of Childhood/Language Arts/Reading Education for sequence and course listing.

### Elementary Education Certification Program

Students may complete a state-approved program to be eligible for certification in Elementary Education (Grades 1-6). Degree and certification requirements are subject to change. 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.

Early Childhood and Elementary majors will be assigned to a specified sequence of courses to be followed throughout the program enrollment. All internships and field experiences must be successfully completed as a member of an internship team under the supervision of a faculty team leader. Students who withdraw from or who have unsatisfactory grades in the field experiences or internships must petition the department Professional Standards Committee before they will be allowed to repeat the internships.

Students must have an overall USF GPA of 2.5 and a GPA of 2.5 in the combined Professional Core and teaching Specialization prior to final internship and graduation.

Elementary part-time students (students planning to take 9 hours or less per semester) must participate in a modified program schedule and plan to meet internship requirements associated with the programs. These requirements include being available to participate in the internships during regular school hours.

### ELEMENTARY EDUCATION

#### Requirements for the B.S. Degree (EDE):

General Education and Professional Education requirements are listed under Teacher Education Program.

- The Elementary Education program also includes the following methods course in the Professional Education requirements:
  - EDE 4301

  The major consists of 32 semester hours of elementary specialization courses as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARE 4313</td>
<td>LAE 4414*</td>
<td>MUE 4210</td>
</tr>
<tr>
<td>HLP 4722</td>
<td>MAE 4310</td>
<td>SCE 4310</td>
</tr>
<tr>
<td>LAE 4314</td>
<td>MAE 4326</td>
<td>SSE 4313</td>
</tr>
<tr>
<td>RED 4310</td>
<td>EIV 4210</td>
<td>EVT 4165</td>
</tr>
</tbody>
</table>

### EARLY CHILDHOOD EDUCATION: Pre-Kindergarten/Primary

#### Requirements for the B.S. Degree (EEC):

- General Education and Professional Education requirements are listed under Teacher Education Program.

- The Pre-Kindergarten/Primary program consists of 32 semester hours in professional education and 30 semester hours in early childhood specialization courses as follows:

  - Professional Education (32):
    - EDF 4111
    - EEC 4936
    - EEC 4940
    - EEC 4941
    - EEC 4942
    - EEC 4943
    - EEX 4200
    - EEX 4230
    - EME 4402

  - Specialization (30):
    - EEC 4008*
    - EEC 4203
    - EEC 4211
    - EEC 4212
    - EEC 4300
    - EEC 4303
    - EEC 4401
    - EEC 4402
    - EEC 4310
    - EEC 4088

*approved Liberal Arts Exit Requirement

### Department of Secondary Education

General Education and Professional Education requirements are listed under Teacher Education Program.

The following programs are housed in the Department of Secondary Education:

- Art Education
- English Education
- Foreign Language Education
- Mathematics Education
- Science Education
- Social Science Education

The undergraduate programs are designed to prepare students to meet Florida teacher certification requirements and to become highly competent secondary teachers. Specialized courses in the teaching of mathematics, science, and social science are also offered for students majoring in elementary, early childhood, and special education.

Internship Program. The Department of Secondary Education internship is offered in the fall and spring terms.

### ART EDUCATION (ARE):

#### Requirements for the B.S. Degree

At the time of application to upper level, each Art Education student must submit slides or portfolio to the head of the department. To assist transfer students in selection of courses, they must submit work prior to or during registration.

After completing studio requirements for state certification each student may elect to emphasize painting, sculpture, graphics, ceramics, or photography/cinematography for the remaining studio electives.

In addition to the general distribution and professional education requirements, the following courses constitute a program of study:

- Art Education (15 credit hours)
  - ARE 3044
  - ARE 4443
  - ARE 3354
  - ARE 4440
  - ARE 4642

In these courses students will have the opportunity to work at the elementary school and high school levels.

- Specialization (36 cr. hours)
  - ART 2202C
  - ART 3110C
  - ART 3510C
  - ART 3701C
  - ARH 4450

One of the following: ART 3420C or ART 3470C

Art Studio Electives approved by adviser

Art History Elective
ENGLISH EDUCATION (ENE):

General Education and Professional Education requirements are listed under Teacher Education Program.

1. ENGLISH:
   A minimum of 39 semester hours, including:
   CRW 2100, ENC 3310, LAE 4464, and LIT 3100
   One of the following:
   EDG 4320 or MMC 3602
   One of the following:
   ENG 3105 or LIT 3073
   One of the following:
   ENL 3331 or ENL 3332
   One of the following:
   LIN 4671 or LIN 4680
   One of the following:
   ORI 3000 or SPC 2023
   One of the following:
   ENL 3015, ENL 3230, ENL 3250, or ENL 3273
   One of the following:
   LIN 3010, LIN 3801, or ENG 4060/5067
   Two of the following:
   AML 3031, AML 3032, or AML 3051

2. ENGLISH EDUCATION:
   Nine semester hours in methods of teaching English at the middle and secondary levels:
   LAE 4325, LAE 4530, and LAE 4642 (PR: LAE 4464). LAE 4530 must be taken concurrently
   with LAE 4642 (PR: LAE 4464), the fall or spring immediately
   preceding internship. LAE 325 should be taken the semester prior to enrolling in LAE 4530. Methods courses are available in
   Fall and Spring Semesters, only.

FOREIGN LANGUAGE EDUCATION:

General Education and Professional Education requirements are listed under Teacher Education Program.

Minimum of 30 credit hours beyond intermediate course requirements must be earned in the foreign language. Programs are available for Spanish (FLS), French (FLF) and German (FLG).

1. Foreign language (30 credit hours)
   grammar, conversation, composition 12
   literature 6
   culture and civilization 6
   linguistics 3
   language elective 3

2. Foreign Language Education
   9 credit hours in methods of teaching a language at the elementary and secondary levels, including a practicum.
   Fall Term: FLE 4314 (elementary)
   Spring Term: FLE 4333 (secondary) and
   FLE 4370 (practicum)

MATHMATICS EDUCATION (MAE):

Prerequisite for admission is the completion of MAC 3311 or an equivalent course. General Education and Professional Education requirements are listed under Teacher Education Program.

1. Mathematics:
   38 semester hours in mathematics above the 2000 level.
   Required courses are:
   MAC 3311, MAD 3100, MGF 4212, MAC 3313, MAS 4301, STA 3023
   CGS 3422, MAS 4214

2. Mathematics Education:
   Eleven hours in teaching mathematics at the secondary level.
   Required courses are:
   MAE 4320, MAE 4551, MAE 4330

SCIENCE EDUCATION (NSB, NSC,NSP):

General Education and Professional Education requirements are listed under Teacher Education Program. In addition to the College requirements, the minimum requirement for acceptance into a program is the completion of 22 semester hours of required science courses.

Course Requirements:

1. SCIENCE:
   A minimum of 32 semester hours in the discipline of major concentration (Biology, Chemistry, or Physics) and a minimum of 16 semester hours within the natural sciences outside the concentration area.

2. SCIENCE EDUCATION:
   As a minimum, satisfactory completion of the following courses:
   SCE 4305, SCE 4320 and SCE 4330 and one choice from among science/technology/society interaction, history of science, or scientific method. These courses deal with philosophy of science, communication skills and the teaching of science at the middle grades and secondary school levels. In addition, a Physics major will need a three credit hour course in computer applications in physics.

SOCIAL SCIENCE EDUCATION (SSE):

General Education and Professional Education requirements are listed under Teacher Education Program.

Course Requirements:

1. SOCIAL SCIENCE:
   A minimum of 40 semester hours, including:
   ECO 2023, GEO 3402, EUH 2030
   ECO 2013, AMH 2010, EUH 2031
   GEO 3013, AMH 2020, POS 2041
   One of the following:
   AHF 3100 or LAH 3200
   One of the following:
   POS 2112, POS 4165
   POS 3142, INR 3002
   One of the following:
   SYG 3010, SYO 3500, SYP 5405
   SYP 3000, SYD 4410

2. SOCIAL SCIENCE EDUCATION:
   Eight semester hours in methods of teaching and communication skills in Social Studies: SSE 4333*, SSE 4334, and SSE 4640.
   *must be completed prior to SSE 4334 and SSE 4640.

Department of Educational Measurement and Research

The Department of Educational Measurement and Research teaches EDF 4430, Measurement for Teachers, which is required of all students enrolled in teacher education programs. The objectives of this course include designing and applying classroom tests and other assessment devices, including alternative assessments, monitoring student progress and communicating student achievement. Emphasis is placed on assessment and instruction as integrated activities.

School of Music

MUSIC EDUCATION (MUE):

The music education curriculum is designed to serve students who wish to develop a high level of musical expertise and have a commitment to help develop similar musical potential in other people.

All students seeking a degree in music education are required to pass an audition in their respective performance area and to take a music theory placement test prior to registering for any music theory class. Students who do not pass the diagnostic test will be placed in a music fundamentals course which does not fulfill a requirement in the music major curriculum. All transfer students are required to take a theory placement test and enter at the appropriate level of study. Students may obtain the dates for these examinations from the music office.
Special requirements for all music education majors; successful completion of the piano proficiency requirements as defined by the music faculty, participation in a major performing ensemble each semester the student is enrolled in applied music; and the presentation of a one-half hour recital in the major performing medium during the last semester of enrollment in applied music.

Students are to present a record of satisfactory recital attendance through registration in MUS 2010 (see the specific requirements for MUS 2010 as set by the music faculty).

For other degree requirements see College of Education requirements and the University’s General Education and graduation requirements. Note exceptions applicable to this program.

1. **Instrumental Specialization (72 cr. hrs.)**
   - **Music Education courses (20 cr. hrs.)**
     - MUS 2080 (2) MUE 3450 (1)* MUE 4311 (3)
     - MUS 4241 (1) MUE 3451 (1) MUE 4321 (2)
     - MUS 4242 (1, 1) MUE 4660 (1)** MUE 4332 (3)
     - MUS 4243 (1, 1) MUE 4661 (1) MUE 4480 (2)
   - *Not required of woodwind majors
   - **Not required of brass majors
   - Music courses (min. 52 cr. hrs.)
     - MUT 1111 (3) MUT 2117 (3) MUS 3300 (2)
     - MUT 1112 (3) MUT 2246 (1) MUS 3301 (3)
     - MUT 1241 (1) MUT 2247 (1) MUS 3302 (3)
     - MUT 2172 (1) MUT 2111 (3) MUG 3101 (2)

   **Applied Music (Principal) 12 cr. hrs. with a minimum of 4 hours at the 3000 level and concurrent registration in MUS 2010.
   - Music electives (2)
   - Applied Music Secondary (Techniques - 3 cr. hrs.)
     - (One each: string, percussion, voice)
   - Major performing ensembles
     - (Minimum of one per semester of applied music - 6 cr. hrs.)
   - Graduating recital
   - Piano proficiency requirement
   - Other Fine Arts Requirement
   - Art, Dance, Theatre (min. 3 cr. hrs. to be selected from one or more of the other departments of the College of Fine Arts)

2. **Vocal Specialization (72 cr. hrs.)**
   - **Music Education courses (16 cr. hrs.)**
     - MUE 2090 (2) MUE 3423 (1) MUE 4352 (2)
     - MUE 4241 (1, 1) MUE 3450 (1) or 3451 (1)*
     - MUE 4242 (1) MUE 3460 (1) or 3461 (1)*
     - MUE 4331 (3) MUE 4331 (3)
   - *One hour courses must be repeated to achieve 16 cr. hrs.
   - **As determined by audition
   - Music courses (min. 56 cr. hrs.)
     - MUT 1111 (3) MUT 2116 (3) MUL 2111 (3)
     - MUT 1112 (3) MUT 2117 (3) MUS 3300 (2)
     - MUT 1241 (1) MUT 2246 (1) MUS 3301 (3)
     - MUT 1242 (1) MUT 2247 (1) MUS 3302 (3)
     - MUG 3101 (2)

   **Applied Music (Principal) 12 cr. hrs. through with a minimum of 4 hours at the 3000 level and concurrent registration in MUS 2010.
   - Applied Music Secondary (Techniques 2 cr. hrs.)
     - (one each: string, percussion)
   - Major Ensembles
     - (Minimum of one per semester of applied music - 6 cr. hrs.)
   - Music Electives (7)
   - Piano proficiency requirement
   - Graduating recital
   - Other Fine Arts Requirement
   - Art, Dance, Theatre (min. 3 cr. hrs. to be selected from one or more of the other departments of the College of Fine Arts)

3. **General Music Specialization (72 cr. hrs.)**
   - **Music Education courses (15 cr. hrs.)**
     - MUE 3460 (1) or MUE 3461 (1)*
     - MUE 3450 (1) or MUE 3451 (1)*
     - MUE 2090 (2)
     - MUE 3421 (1) MUE 4311 (3)
     - MUE 3422 (1) MUE 4330 (3)
     - MUE 3423 (1) MUE 4352 (2)

   **One hour courses must be repeated to achieve 16 cr. hrs.
   - As determined by audition
   - Music Courses (min. 56 cr. hrs.)
     - MUT 1111 (3) MUT 2116 (3) MUL 2111 (3)
     - MUT 1112 (3) MUT 2117 (3) MUS 3300 (2)
     - MUT 1241 (1) MUT 2246 (1) MUS 3301 (3)
     - MUT 1242 (1) MUT 2247 (1) MUS 3302 (3)
     - MUG 3101 (2)

   **Applied Music Principal 12 cr. hrs. with a minimum of 4 hours at the 3000 level and concurrent registration in MUS 2010.
   - Applied Music Secondary Techniques (3 cr. hrs.)
     - (one each: string, percussion, voice)
   - Major Ensembles
     - (minimum of one per semester of applied music - 6 cr. hrs.)
   - Major electives (7)
     - Piano proficiency requirement
     - Graduating recital
     - Other Fine Arts requirement
     - Art, Dance, Theatre (min. 3 cr. hrs. to be selected from one or more of the other departments of the College of Fine Arts)

**School of Physical Education**

The School of Physical Education, Wellness, and Sports Studies teaches a variety of Elective Physical Education courses and conducts Professional Physical Education Teacher Preparation K-8 and 6-12 Programs and a Wellness Leadership Program.

**ELECTIVE PHYSICAL EDUCATION PROGRAM**

Elective Physical Education offerings in the College of Education 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.

**PROFESSIONAL PHYSICAL EDUCATION PROGRAM**

Students must choose one of the following programs: a) Physical Education Grades K-8 (Florida Teacher Certification); b) Physical Education Grades 6-12 (Florida Teacher Certification); or c) Wellness Leadership (Non-certification).

**Requirements for the B.S. Degree (PTE/PTS/PTW)**

The two-year program is offered beginning in the junior year and includes mandatory attendance during the summer session between the junior and senior years.

In order to be admitted to the Program, all students must participate in a selective admissions procedure. Enrollment in the Program is limited and students can only enter during Fall Semester of each year.

In addition to applying to the University, all students must apply directly to the Department before May 1 for priority admission consideration. Students applying after May 1, and before the final deadline of June 1, will be accepted only on a space-available basis. Requests for admission to the Program should be directed to:

- Director
  - School of Physical Education,
  - Wellness, and Sports Studies
  - College of Education
  - University of South Florida
  - 4202 E. Fowler, PED 214
  - Tampa, Florida 33620-8600

**Course Requirements:**

1. **PROGRAM PREREQUISITES FOR ALL TRACKS:**
   - APB 3190 Human Anatomy & Physiology
   - FSC 2400 First Aid
2. CORE COURSES FOR ALL TRACKS:
   PET 3010 Personal/Professional Development Seminar
   PET 3310 Kinesiology
   PET 3351 Exercise Physiology I
   PET 3422 Instructional Design & Content: Movement Experiences
   PET 4622 Care & Prevention of Physical Injuries
   PET 4942 Physical Education Internship: Elementary

3. ADDITIONAL REQUIRED COURSES FOR K-8 TRACK:
   (PET)
   EDF 3122 Learning & The Developing Child
   EDF 4430 Measurement for Teachers
   EDF 3604 Social Foundations of Education
   EME 4402 Introduction To Computers In Education
   PET 3031 Motor Development & Assessment
   PET 3421 Curriculum and Instruction in Physical Education
   PET 3441 Instructional Design & Content: Middle School Physical Education
   PET 3640 Adapted Physical Education
   PET 3799 Career Decision Making & Professional Ethics
   PET 3943 Physical Education Internship: Middle School
   PET 4401 Organization and Administration of Physical Education Programs
   PET 4432 Instructional Design & Content: Physical Education Elementary
   PET 4433 Instructional Design & Content: Physical Education Elementary II
   PET 4934 Senior Seminar in Elementary Physical Education
   PET 4942 Physical Education Internship: Elementary
   PET 4946 Associate Teaching Physical Education: Elementary

4. ADDITIONAL REQUIRED COURSES FOR 6-12 TRACK:
   (PET)
   EDF 3604 Social Foundations of Education
   EDF 4430 Measurement for Teachers
   EDF 4131 Learning and the Developing Adolescent
   EME 4402 Introduction To Computers In Education
   PET 3031 Motor Development & Assessment
   PET 3421 Curriculum and Instruction in Physical Education
   PET 3441 Instructional Design & Content: Middle School Physical Education
   PET 3640 Adapted Physical Education
   PET 3799 Career Decision Making & Professional Ethics
   PET 3943 Physical Education Internship: Middle School
   PET 4142 Trends & Tasks: Secondary Physical Education
   PET 4304 Principles & Issues in Coaching
   PET 4401 Organization & Administration of Physical Education Programs
   PET 4442 Instructional Design & Content: Physical Education Secondary
   PET 4443 Instruction Design & Content: Physical Education Secondary II
   PET 4933 Senior Seminar in Secondary Physical Education
   PET 4944 Physical Education Internship: Secondary
   PET 4947 Associate Teaching Physical Education: Secondary

5. ADDITIONAL COURSES REQUIRED FOR WELLNESS LEADERSHIP TRACK: (PTW)
   ADE 4384 Working with the Adult Learner
   GEY 3601 Behavior Change in Later Life
   HUN 3201 Nutrition
   PEP 3940 Practicum in Health Promotion/Wellness
   PEP 4941 Wellness Internship
   PEQ 3170 Aquatic Exercise
   PET 3080 Survey of Wellness Programs
   PET 4404 Organization & Administration of Wellness Programs
   PET 4353 Exercise Physiology II
   PET 4384 Health Fitness Appraisal & Exercise Prescription
   PET 3310 Kinesiology
   PET 3351 Exercise Physiology
   PET 3422 Inst. Design/Movement
   PET 4622 Care & Prevention of Physical Injuries
   PEQ 3101 Aquatics

   In addition to the above courses, students in Wellness Leadership must also take PEM 2131 Weight Training (for majors only) and PET 3931 Teaching Aerobic Dance/Exercise. These courses must be taken after acceptance into the Wellness Leadership Program.

Department of Psychological and Social Foundations of Education

The Department of Psychological and Social Foundations of Education 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.

   EDF 3122 EDF 3604 EDF 4909 IDS 3115
   EDF 3214 EDF 3810 EDF 5136
   EDF 3228 EDF 4131 EDF 5285
   EDF 3542 EDF 4905 EDF 5672

The Counselor Education program offers undergraduate course 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 4001 MHS 4905 SDS 4040
   SDS 4480 SLS 1101 SLS 2401

Department of Special Education

The Department of Special Education prepares teachers to work with children who have emotional and behavioral disabilities, mental retardation, and specific learning disabilities. The undergraduate program is a State-approved program that leads to certification in one of the three areas.

   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. On the Tampa Campus, students are assigned to teams. All courses are taken with the assigned team. Since no teams start in the summer, there are no summer admissions. The program sequence includes at least two semesters of part-time field experience and one semester of full-day internship. All part-time field experiences must be successfully completed as a member of a team concurrently enrolled in a specified course in designated local schools under the supervision of a faculty member. 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 experience sites.

   In some instances students may pursue a part-time program (9 hours or less a semester). This requires that students be available to participate in field experiences and concurrent classes during regular school hours.

   These programs are currently under review. Students are advised to work closely with program advisors in the Department when developing their program of study.

Emotional and Behavioral Disabilities (EH Certification)

Students seeking the B.S. degree with certification in EH are required to take the following courses:

   EED 4011 EEX 4221 EEX 4604
   EED 4941 EEX 4243 MAE 4310
   EEX 3010 EEX 4846 RED 4310
   LAE 4314 RED 4511
One of the following:

ARE 4313  MUE 4210  SCE 4310
SSE 4313

Mental Retardation (MR Certification)

Students seeking the B. S. degree with certification in MR are required to take the following courses:

EEX 3010  EEX 4243  EMR 4941
EEX 4221  EEX 4804  MAE 4310
EEX 4846  EMR 4011  RED 4310
LAE 4314  RED 4511

One of the following:

ARE 4313  MUE 4210  SCE 4310
SSE 4313

Specific Learning Disabilities (LD Certification)

Students seeking the B.S. degree with certification in LD are required to take the following courses:

EEX 3010  EEX 4243  ELD 4941
EEX 4221  EEX 4804  MAE 4310
EEX 4846  ELD 4011  RED 4310
LAE 4314  RED 4511

One of the following:

ARE 4313  MUE 4210  SCE 4310
SSE 4313

Student Organizations and Activities

College of Education Student Council

The College of Education Student Council represents the interests of education majors in regard to policies and needs of the college. The council leadership team consists of five officers (President, Vice-President, Secretary, Treasurer, and Historian) and seven Student Government Senators. Elections are held annually; all pre-education and education majors are eligible to vote for all officers.

C.E.S.C. activities enhance members' professional growth, provide opportunities for professional and community service, and serve as a forum for socialization. Any student majoring in education with a minimum GPA of 2.0, is eligible to participate in C.E.S.C.

Childhood Education Organization

The Association for Childhood Education International is a non-profit professional organization concerned with the education and well-being of children two to twelve years of age. Members are located throughout the United States.

The USF chapter works directly with children through observation, projects, and programs. In addition, it provides opportunity for students to attend study conferences throughout the state of Florida which allows the student an opportunity for professional growth and exchange of professional ideas. Membership is open to all students, including freshmen, concerned with children two to twelve years old.

Student Council for Exceptional Children

The Student Council for Exceptional Children (SCEC) is an organization of those members of the University interested in the education of the exceptional child. Various exceptionalities included are Gifted, Emotionally Disturbed, Physically Handicapped, Mentally Retarded, Specific Learning Disabilities, and Culturally Different.

Activities of the USF Chapter include field trips to various special educational facilities, prominent speakers, seminars, state and national conventions, and social events. The specific activities are determined by the members and the exceptionalities in which they are interested. All interested students are invited to join.

County Music Educators National Conference

Student Music Educators Conference is an affiliate of the Music Educators National Conference and the Florida Music Educators Association. It is devoted to the furtherance of knowledge and understanding of music education on all levels. Membership is open to any student in USF who is interested in the teaching of music.

National Education Association Student Program

The National Education Association student program is designed to provide professional growth opportunities, leadership training and membership benefits that are available to other members of the National Education Association, including $1 million liability insurance coverage while engaged in student teaching internship. Membership is open to all students.

Kappa Delta Pi

Kappa Delta Pi is an international co-educational honor society in Education. The society was founded to recognize and encourage excellence in scholarship, high personal standards, improvement in teacher preparation, and distinction in achievement.

Physical Education and Wellness Association

(PEWA)
The Physical Education and Wellness Association (PEWA) is open to all students enrolled in the Physical Education Program. Social and professional meetings are conducted throughout the year to promote interaction within the organization.

Mathematics Education Club

The role of this organization shall be to provide an informative and supportive environment for all members, encourage scholarship, and provide a helpful atmosphere for students progressing through the Mathematics Education program.

Membership shall be available to any student in good standing who expresses interest in the Mathematics Education program at USF.

Delta Epsilon Chi of America (DECA)
The College Chapter of DECA is an integral part of the Distributive and Marketing Education and Marketing Teacher Preparation Program at USF and provides Distributive Education majors with leadership opportunities, social experience, learning activities and professional involvement.

Minority Organization of Students in Education

The Minority Organization of Students in Education is organized to provide students with experiences that will facilitate the educational and professional growth of its members. This is achieved by enriching the students' experiences, informing them of various opportunities and involving them in activities. Guest speakers are invited to meetings to discuss topics which are of interest to the members. Resource people are used to inform students of employment and graduate school opportunities. Members of M.O.S.E. sponsor and participate in community service programs.

Science Education Association (SEA)
The Science Education Association provides a supportive environment for students majoring in science education, although membership is open to anyone interested in science. SEA plans field trips, guest speakers, and the compiling of a classroom science activities file for education majors.
The College of Engineering offers undergraduate and graduate programs to prepare students for a broad spectrum of professional careers in engineering. The undergraduate programs of the College are designed to provide students with a sense of human values and the scientific/technical foundation necessary for a lifetime of continued learning.

The programs offered by the College of Engineering to meet the diverse requirements of the future cover the two areas necessary for a lifetime of continued learning.

Professional Engineering degrees and services offered are as follows.

Prospective student with a choice of avenues depending upon Bachelor of Science in Civil Engineering (B.S.C.E.)

Bachelor of Science in Computer Engineering (B.S.Cp.E.)

Bachelor of Science in Electrical Engineering (B.S.E.E.)

Bachelor of Science in Industrial Engineering (B.S.I.E.)

Bachelor of Science in Mechanical Engineering (B.S.M.E.)

Bachelor of Science in Computer Science (B.S.C.S.)

Bachelor of Science in Information Systems (B.S.I.S.)

The Accreditation Board for Engineering and Technology, Inc. (ABET), formerly the Engineers' Council for Professional Development, has inspected and accredited the curricula of the College of Engineering defined by the Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Industrial Engineering and Mechanical Engineering. The Bachelor of Science in Chemical Engineering (B.S.Ch.E.) is accredited by the Computer Science Accreditation Commission (CSAC), a specialized accrediting body recognized by the Council on Post-secondary Accreditation (COPA) and the U.S. Department of Education.

The above spectrum of program offerings provides the prospective student with a choice of avenues depending upon individual interests, career objectives, and capabilities for a significant technological contribution. These programs are described in more detail under their respective catalog headings.

Laboratory experience as well as real-world participation in technological problem-solving is a key aspect of a professional engineer's college education. The College of Engineering, in implementing this need, augments its own modern laboratory and research facilities by close contact with the professional societies and the many industries in the metropolitan Tampa Bay area.

Students interested in particular programs offered by the College of Engineering should direct their inquiries to the College of Engineering Office of Advising.

PROFESSIONAL ENGINEERING

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 of 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 (core) portion, designed to equip the prospective engineer with a broad base of fundamental technical knowledge. To this foundation is added the student's specialization (option) of sufficient depth to prepare him/her to successfully embark on a professional career.

The Bachelor of Science degrees offered in various engineering fields provide the student a broad education with sufficient technical background to effectively contribute in many phases of engineering not requiring the depth of knowledge needed for advanced design or research. However, while the baccalaureate degree is considered the minimum educational experience for participating in the Engineering profession, and as such is the first professional degree, students interested in design and research are strongly encouraged to pursue advanced work beyond the baccalaureate either at this or other institutions. It is becoming increasingly evident that a large segment of today's engineering professionals are involved in some form of post baccalaureate study. Engineers are earning advanced degrees to obtain the information and training necessary to meet effectively tomorrow's technological challenges. All are faced with the continuing problem of refurbishing and upgrading their information skills and most are obtaining advanced information by means of formal graduate study, seminars, special institutes and other such systems designed for this purpose.

The Bachelor of Science degree program (in a designated engineering field requires 136 semester hours) and the Master of Science degree in the same field may be pursued simultaneously. The program of 166 semester hours is called the 5-Year Program. These programs are specifically designed to prepare an individual for a professional career as an engineer. These programs have as their foundation a core of subject material encompassing Humanities, Social Science, Mathematics, Science, and Engineering which is required of all students. In addition to the core subject material, each student will complete a specialization leading to a profession in a designated field under the direction of one of the administrative departments of the College.

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. Students who are interested in advanced design or research should pursue the 5-Year Program leading to a Master of Science in Engineering degree.

Preparation for Engineering

Students planning to attend USF's College of Engineering should familiarize themselves thoroughly with the College's admissions standards and requirements, which are more stringent than the University's minimum entrance requirements.

The high school student anticipating a career in engineering should obtain the strongest academic program that is available while in high school. Four years each of English, mathematics and science (preferably including Chemistry and Physics), as well as full programs in the social sciences and humanities, are most important to success in any engineering college.

Prospective students considering engineering at the University of South Florida who lack certain preparation in high school may elect to follow a two-year preparatory program that is available while in high school. Four years each of English, mathematics and science (preferably including Chemistry and Physics), as well as full programs in the social sciences and humanities, are most important to success in any engineering college.

Junior/community college students planning to transfer to the University of South Florida's engineering program at the junior level from a State of Florida operated college or university should follow a pre-engineering program leading to an A.A. degree. All transfer students should complete as much of the mathematics, science and engineering core coursework as is available to them. Transfer students should be aware that the College expects them to meet its admission requirements listed in this section under college regulations for graduation just as it expects its own students to meet these requirements. Junior/community college transfer students should note that in addition to freshman and sophomore level courses, required junior level courses are given each semester thus permitting full continuity in studies for the student. Junior/community college students intending to pursue an engineering program at USF should contact the adviser at their institution and request a course equivalency list.

Although it is not mandatory, the College strongly recommends acquisition or personal access to a personal computer. For further details, contact the Associate Dean of Engineering - Computing Services.

The College of Engineering can assist students who are planning to obtain an Engineering degree from the University of South Florida and who have started their studies elsewhere in
formulating a sound total program. Interested students should contact the College's Advising Office (813/974-2684) furnishing sufficient details to permit meaningful response.

Undergraduate Admission to the College

Students may apply to the College of Engineering upon initial entry to the University by declaring Engineering as their intended major on their admissions application. Upon acceptance to the University, engineering will review necessary credentials and notify applicant of Engineering status.

USF students may apply through the Advising Office, in the College of Engineering. To be considered for admission to the College, an applicant must be accepted by the University as a degree-seeking student and be academically in good standing. Applicants whose native language is other than English must submit TOEFL scores to the College of Engineering. The minimum TOEFL score must be 550.

Engineering Admission Requirements

1. Freshmen:
   a. Test Scores:
      SAT--composite of 1050 minimum with a minimum quantitative of 550.
      ACT--composite of 25 minimum and mathematics of 25 minimum.
   b. High School Mathematics: Should include sufficient algebra and trigonometry to enter Engineering Calculus I. Math Placement Test must be passed to enter Calculus I.
   c. High School Grade Point Average of 2.5/4.0.

2. Transfer Students:
   Transfer students must have completed the equivalent U.S.F. Engineering Calculus sequence with a 2.0 GPA; must have completed one year of equivalent U.S.F. General Physics and Chemistry courses with a minimum of 2.0 GPA; must have an overall GPA of 2.0 or better.

Admission to Programs in Engineering

Once a student has been admitted to the College of Engineering, he/she must then seek admission into one of the specific departments.

The minimum requirements for acceptance by the departments administering the Engineering programs in Chemical, Civil, Computer, Electrical, Industrial and Mechanical Engineering are:

2. Satisfactory completion of EGN 1002 - Engineering Orientation.
3. Completion of the following courses with either: a cumulative grade point average of 2.0 in these courses based on all attempts.

   - EGN 2210 - Computer Tools for Engineers
   - EGN 3311 - Statics
   - EGN 3343 - Thermodynamics I
   - EGN 3443 - Engineering Statistics I
   - EGN 3373 - Introduction to Electrical Systems I

The minimum requirements for admission to the Computer Engineering program offered by the Computer Science and Engineering Department are completion of sections 1 and 2 above and:

1. Completion of:
   - COP 3002 & COP 3000L - Intro to Computer Science and Lab
   - EGN 3311 - Statics
   - EGN 3343 - Thermodynamics I
   - EGN 3373 - Introduction to Electrical Systems I
   - EGN 3443 - Engineering Statistics I

with a minimum of 2.0 based on all attempts.

2. The minimum requirements for admission to the Computer and Engineering Department are completion of sections 1 and 2 above and completion of:

   - COP 3100 - Discrete Structures
   - EGN 3373 - Introduction to Electrical Systems I
   - STA 4442 - Introduction to Probability
   - COP 3002 & COP 3000L - Intro to Computer Science and Lab

3. The minimum requirements for admission to the Information Systems program offered by the Computer Science and Engineering Department are completion of sections 1 and 2 above and the completion of:

   - COP 3002 & COP 3001 - Intro to Computer Science and Lab
   - COP 3100 - Discrete Structures
   - COP 3120 - COBOL I
   - STA 3023 - Introduction to Statistics

   Students who fail to obtain a "C" grade on the first attempt must obtain a cumulative 2.0 G.P.A. based on all attempts.

Prior to being admitted to a department, a student may be permitted to take no more than two departmental engineering courses.

A student can have his or her academic records housed in a department and be advised by the department advisor prior to completing requirements for department admission if he or she chooses. This type of student must still comply with all of the above-listed requirements prior to official acceptance by the department.

Engineering Advising

Effective pursuit of engineering and engineering related studies requires careful attention to both the sequence and the type of courses taken. The engineering curriculum differs in key respects from the study plans of other majors - even in the freshmen year. It is, therefore, important, and the College requires, that each student plan his/her academic program and have it approved by a designated adviser in the College of Engineering.

New students must attend the University's Orientation program. They are assigned an engineering adviser during this program and receive advisement for their first semester at that time. The student and adviser jointly work out a plan of study which meets both the student's career objectives and the College of Engineering's degree requirements. The advisers maintain the College of Engineering's student records.

Students not yet meeting departmental admissions requirements may elect to be advised by the general engineering advising office or the department of their intended specialization.

While the College provides advising services to assist students with academic planning, the responsibility for seeing that all graduation requirements are met rests with the students. "A copy of the Student Academic Support System (SASS) report may be had upon request."

The College of Engineering requires all undergradautes to apply for graduation the semester prior to the anticipated graduation term. Necessary forms and instructions can be obtained in the Advising Office.

Departments & Programs

The supervision of the academic programs for the College is the function of the six administrative departments together with several coordinators. The departments are responsible for the professional programs in engineering and engineering science. Each department is responsible for programs, faculty, laboratories and students assigned to it.

Chemical Engineering

This department offers coursework and study in all areas fundamental to Chemical Engineering. Topics included are thermodynamics, fluid flow, heat transfer, mass transfer, separation processes, chemical reactors, instrumentation and process control, economics optimization, computer methods, computer aided design techniques, and process plant design. These courses, together with mathematics, physics, chemistry, other interdisciplinary engineering fundamentals, English, and
liberal arts courses, provide the basis for long range professional progress. Because of the many professional areas available for employment to the chemical engineer, the students are also required to take a number of electives from areas such as biotechnology, materials, and environmental engineering. These electives are designed to broaden the experience, and, therefore, the employment possibilities of our graduates. The department administers the Bachelor of Science in Chemical Engineering (B.S.Ch.E.), the Master of Science in Chemical Engineering (M.S.Ch.E.), the Master in Chemical Engineering (M.CHE), the Master of Engineering (M.E.), the Master of Science in Engineering (MSE), and the Doctor of Philosophy (Chemical and Engineering Science) (Ph.D.) degrees. The Chemical Engineering Department also offers a sequence of courses in Chemical Engineering Science, biotechnology and biomedical engineering.

**Biotechnology And Biomedical Engineering**

A sequence of courses in the engineering aspects of biotechnology is currently available within the Chemical Engineering program. Topics include applied microbiology, fermentation, enzyme technology, and pharmaceutical engineering.

Biomedical Engineering is a highly interdisciplinary program, drawing from all engineering disciplines, biology, physical sciences, biomedical and clinical sciences. An undergraduate Certificate in Biomedical Engineering is available to students in all areas of engineering. This Certificate is designed with two main objectives: 1) to prepare interested students for admission into medical school, and 2) to prepare students for graduate work in either Biomedical Engineering, other engineering disciplines, or the Biomedical Sciences. Opportunities for students to gain research experience exist within the College of Engineering and the Health Sciences Center.

Please see certificate programs section of this catalog for more information on these programs.

**Civil and Environmental Engineering**

This department offers coursework and study pertinent to Civil Engineering, Engineering Mechanics, Materials Science, and Environmental Engineering. Topics included are structural analysis, design and optimization; metals, polymers, ceramics; soil mechanics, stress analysis, vibrations, continuum mechanics, finite element techniques, numerical methods; geotechnical engineering; transportation engineering; water resources engineering, environmental engineering, and coastal engineering. The department administers the Bachelor of Science in Civil Engineering (B.S.C.E.) and has a policy of mandatory academic advising of students for each school term. It also administers the Master of Science in Civil Engineering (M.S.C.E.) program, and a design oriented professional engineering Master of Civil Engineering (M.C.E.) program. In addition, M.S.E., M.E. and Ph.D. degree programs are offered by the department. All Master's degree programs can be completed through evening coursework.

Students pursuing the B.S.C.E. degree are required to sit for the Fundamentals of Engineering examination as the first step toward registration as a professional engineer (PE).

**Computer Science and Engineering**

This department offers coursework and study in all areas fundamental to Computer Science, Computer Engineering, and Information Systems. Topics dealt with are computer architecture and hardware design, software engineering, computer system organization, operating systems, algorithms and data structures, computer graphics, user interface, computer networks, database systems, theory of computation and artificial intelligence.

The Department administers the baccalaureate degree programs in Computer Science, Computer Engineering and Information Systems, and the graduate programs in Computer Science and in Computer Engineering; and Ph.D. program in Computer Science and Engineering. Our research areas of faculty concentration are 1) computer architecture and VLSI design/testing, 2) artificial intelligence and expert systems, 3) graphics/image processing/computer vision, 4) database, 5) networks.

Computing facilities available to students in the Department include several microprocessor and design laboratories for hardware-oriented studies, personal computer laboratories for general use in programming assignments, and networked SUN and DEC workstations for use by majors. The Department also runs a research-oriented network consisting of an Intel Hypercube, a number of SUN, DEC, and IBM workstations, and special purpose image and graphics processors. In addition, the Department has access to a large IBM mainframe facility run by the University Computing Center.

**Electrical Engineering**

This department offers study in all areas fundamental to Electrical Engineering and the electrical sciences: circuit analysis and design, electronics, communications, electromagnetics, controls, solid state, systems analysis, digital circuit design, etc. Basic concepts are augmented with well-equipped laboratories in networks, electronics, digital systems, microwave techniques and telecommunications. In addition, the department currently administers a microprocessor laboratory and a microelectronics fabrication laboratory are available to undergraduate and graduate students. The department administers the Bachelor of Science in Electrical Engineering (B.S.E.E.) degree program, as well as the Master of Science in Electrical Engineering (M.S.E.E.) and Master of Electrical Engineering (M.E.E.) programs which are also available to evening and off-campus students. As applicable, the department administers the M.S.E.S. and the Ph.D. in Electrical Engineering programs.

**Industrial and Management Systems Engineering**

This department offers study pertinent to the design, evaluation and operation of a variety of industrial systems, ranging from the analysis of public systems to the operation of manufacturing plants. Topics include production planning and control, production and plant design, applied statistics, operations research, human factors and productivity, manufacturing, and automation. The department has excellent laboratory facilities which support class projects and research in microcomputer applications, computer-aided manufacturing, automation, and applications of robotics. The department administers the Master of Science in Industrial Engineering (B.S.I.E.) degree program, as well as the Master of Science in Industrial Engineering (M.S.I.E.), Master of Industrial Engineering (M.I.E.) and Ph.D. in Industrial Engineering. Evening and off-campus programs are available through the Master of Science in Engineering Management (M.S.E.M.) program. The department also administers the Industrial option in the M.S.E., M.E., and M.S.E.S. programs, as well as the manufacturing option in the M.S.E. program.

**Mechanical Engineering**

The department offers courses leading to the degrees of Bachelor of Science in Mechanical Engineering (B.S.M.E.), Master of Science in Mechanical Engineering (M.S.M.E.), Master of Mechanical Engineering (M.M.E.), Master of Science in Engineering (M.S.E.), and Doctor of Philosophy (Ph.D.). Coursework includes basic science and mathematics, thermal and fluid sciences, material science, solid mechanics, dynamics, machine design, vibrations, instrumentation and automatic control.

Graduates of this program are employed in research, design, production, marketing, service, installation (contracting), maintenance and operation in such industries as mining, petroleum, paper, food, power, manufacturing, air-conditioning, defense systems, aerospace, data processing and communications.

Laboratories are available for basic instrumentation, thermal and fluid sciences, solid mechanics, data acquisition and control, CAD/CAE, vibrations, and aerodynamics.
**2. Mathematics and Science Core Requirements**

The student with a satisfactory high school preparation must take 35 credit hours of mathematics and science coursework. (Some credit towards this core requirement can be obtained by passing applicable CEEB Advanced Placement Tests or CLEP Subject Examinations.)

In mathematics this coursework consists of a Calculus for Engineers sequence (or a calculus sequence of equivalent level), Differential Equations, and additional hours of designated courses supportive of the student's selective field of specialization, as specified by the department. In the science coursework students must take the Physics with Calculus sequence and the General Chemistry sequence.

Students whose high school preparation is insufficient to enter the Calculus for Engineers are required to take supplementary algebra and trigonometry prior to being considered for acceptance into the College. All students must take the math placement test.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Engineering Science (Minimum)</td>
<td>36 Sem. Hrs.</td>
</tr>
<tr>
<td>Department Specialization</td>
<td>31 Sem. Hrs.</td>
</tr>
</tbody>
</table>

Special requirements exist for Chemical Engineering. Students selecting this field should make sure they familiarize themselves with these. Detailed information can be obtained from the responsible department or the College's Advising Office.

| 3. Engineering Core Requirements |

The prospective engineering major must take a minimum of 35 credit hours of engineering core (foundation) coursework drawn from the major disciplines. This coursework is designed to equip the student with a sound technical foundation for later, more advanced specialized coursework and the eventual formation of professional judgment. This coursework includes introductory studies in such areas as engineering analysis and computation, statistics, electrical engineering principles, thermodynamics, statics, dynamics, fluids, and properties of materials. All but 6 credit hours of the engineering core are common to all areas of the Bachelor of Science in a Designated Engineering Field degree programs. The remaining 6 credit hours of coursework must be chosen with the concurrence of the departmental adviser to fit the field selected by the student. Details on this selection are available in the departmental office of the field selected, or in the College's Advising Office.

| 4. Four-Year Program -- Bachelor of Science in Designated Engineering Field Degree |

These engineering degrees are awarded upon successful completion of a program consisting of the required areas of core coursework -- minimum of 101 credit hours which are described above, and an additional 35 credit hours of coursework in a designated field of specialization. Details covering specific fields are available on request from the responsible department, or from the College's Advising Office.

Programs are offered in the following disciplines of Engineering:

| 1. Chemical Engineering |

Students pursuing the Bachelor of Science in Chemical Engineering take coursework in advanced chemistry, thermodynamics, fluids, heat, and mass transfer, separation processes, reacting systems, instrumentation, and control. Students must also satisfactorily complete a design project as part of their program. Students seeking the biotechnology/biomedical certificate are also required to take additional courses in general biology, microbiology, and biochemistry. Special characteristics of the Chemical Engineering curriculum make it imperative that the students retain close contact with their adviser.

Students completing this program normally initiate their careers in process/manufacturing industries. 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, etc.

Solution of modern societal and scientific problems often require the use of chemical engineering skills. A course sequence in chemistry majors (ECH 3702, ECH 4123C and ECH 4415C), as well as physics majors, (ECH 3702, ECH 3264C, and ECH 4265C), is suggested. These courses will add a strong chemical engineering science background to those degrees.
Chemical Engineering students are expected to have access to an IBM compatible personal computer during their last two years of study. Those who do not own one will be severely disadvantaged. The schedule which follows indicates how a serious student who can devote full time to coursework can satisfy requirements in four academic years. Students without a solid foundation and those who cannot devote full time to academics should plan a slower pace.

### Bachelor's Curriculum - Chemical Engineering

#### Semester I
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tr>
<td>ENC 1101</td>
<td>Freshman English I</td>
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<tr>
<td>MAC 3281</td>
<td>Engineering Calculus I</td>
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<tr>
<td>CHM 2041</td>
<td>General Chem. I</td>
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<td><em>Historical Perspectives Elective</em></td>
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<td><em>Fine Arts Elective</em></td>
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<td>CHM 2046</td>
<td>General Chem. II</td>
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<td>PHY 3048</td>
<td>General Physics I</td>
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<td>PHY 3048L</td>
<td>Gen. Physics Lab I</td>
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<td><em>ALAMEA Perspective Elective</em></td>
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#### Summer Term
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<tbody>
<tr>
<td>MAC 3283</td>
<td>Engineering Calculus III</td>
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<tr>
<td>EGN 3311</td>
<td>Statics</td>
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<tr>
<td>CHM 2046L</td>
<td>Gen. Chem II Lab</td>
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<td>PHY 3049</td>
<td>Gen. Physics II</td>
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<td>PHY 3049L</td>
<td>Gen. Physics Lab II</td>
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#### Semester III
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<tr>
<td>MAP 4302</td>
<td>Differential Equations</td>
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<td>EGN 3373</td>
<td>Electrical Systems I</td>
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<td>EGN 2210</td>
<td>Computer Tools for Engineers</td>
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<tr>
<td>EGN 3343</td>
<td>Thermodynamics I</td>
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<td>EGN 3443</td>
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<td>EGN 4450</td>
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<td>EGN 3365</td>
<td>Materials</td>
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<tr>
<td>ECH 3702</td>
<td>Instrument Systems I</td>
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</tr>
<tr>
<td>ECH 3023</td>
<td>Intro. to Process Eng</td>
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</tr>
<tr>
<td><em>Historical Perspectives Elective</em></td>
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#### Semester V
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<tr>
<td>ECH 3264C</td>
<td>Transport Processes I</td>
<td>3</td>
</tr>
<tr>
<td>ECH 4123C</td>
<td>Phase &amp; Chemical Equilibria</td>
<td>3</td>
</tr>
<tr>
<td>CHM 3210</td>
<td>Organic Chemistry I</td>
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</tr>
<tr>
<td>CHM 3210L</td>
<td>Organic Chemistry I Lab</td>
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#### Semester VI
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<tbody>
<tr>
<td>ECH 4265C</td>
<td>Transport Processes II</td>
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<tr>
<td>CHM 3211</td>
<td>Organic Chemistry II</td>
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</tr>
<tr>
<td>ECH 4605</td>
<td>Strat Proc Engr</td>
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<tr>
<td>ENC 3210</td>
<td>Technical Writing</td>
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<td>MW-MI (Non-engineering)</td>
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</table>

### 2. Civil and Environmental Engineering

Students pursuing the Bachelor of Science in Civil Engineering program can take designated traditional civil engineering and engineering mechanics coursework in solid mechanics, stress analysis, structures, materials, hydraulics, geotechnical, transportation, and engineering analysis. This coursework is supplemented by courses in one of the following areas of concentration, plus electives:

- **Environmental/Water Resources** - courses in water treatment, waste water treatment, air pollution control and water resources.
- **Geotechnical/Transportation** - courses in soil mechanics, foundations, transportation, and surveying.
- **Materials** - courses in engineering materials, polymers, corrosion control and materials processes.
- **Structural Engineering** - courses in structural analysis and design, composite structures, using matrix and computer techniques.

Students completing this option enter careers as engineers in the civil, structural, geotechnical, transportation and water resources, environmental, hydraulic, materials, disciplines. All of these fields share the need for knowledge in the areas of engineering mechanics, civil engineering, and materials science. Through choice of the proper area of concentration the student has the opportunity to channel academic studies specifically towards his/her career choice. Civil Engineering students commence their engineering careers in either industry, in engineering consulting firms, or in public service at the federal, state or local level. Initial assignments include planning, design and implementation of water resources, transportation and housing systems; regional planning, design and management for abatement of air, water, and solid waste pollution problems; design of bridges, single and multistory structures; and supervision of construction projects.

The schedule which follows indicates how a serious, well prepared student who can devote full time to coursework can satisfy degree requirements in four academic years. Students without a solid foundation and those who cannot devote full time to academics should plan on a slower pace.

An additional graduation requirement is that graduating seniors must take the Fundamentals of Engineering Examination.

### Bachelor's Curricula - Civil Engineering Option

#### Semester I
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ENC 1101</td>
<td>Freshman English I</td>
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<tr>
<td>MAC 3281</td>
<td>Engr. Calculus I</td>
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<td>CHM 2041</td>
<td>General Chemistry I</td>
<td>3</td>
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<td>EGN 1002</td>
<td>Engr. Orientation</td>
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<tr>
<td>EGS 1113</td>
<td>Intro. Design Graphics</td>
<td>3</td>
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**Summer Term**

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<td>Materials Engr. I</td>
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<td>EGN 3373</td>
<td>Intro to Elec. Sys. I</td>
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<td>EGN 3343</td>
<td>Thermodynamics I</td>
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<td>CWR 4202</td>
<td>Hydraulics</td>
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<td>TTE 4004</td>
<td>Transportation Engr. I</td>
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<td>CEG 4011</td>
<td>Soil Mechanics I</td>
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<td>GLY 3850</td>
<td>Geology for Engrs.</td>
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<td>CES 4605</td>
<td>Concepts of Steel Design</td>
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<td>CES 4702</td>
<td>Concepts of Concrete Design</td>
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**Civil Engineering Concentration Requirements**

(A student must complete a minimum of 9 hours, with at least 2 courses from one group.)

---

**Engineering Concentration Requirements**

(A student must complete a minimum of 9 hours, with at least 2 courses from one group.)

---

**Water Resources**

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<td>ENV 4101</td>
<td>Air Pollution Control</td>
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<td>CWR 4103</td>
<td>Water Resources Engineering</td>
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**Geotechnical/Transportation**

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<td>Soil Mechanics II</td>
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<td>Transportation Engineering II</td>
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<td>SUR 3140C</td>
<td>Engineering Land Surveying</td>
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**Materials**

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<td>EMA 4324</td>
<td>Corrosion of Engineering Materials</td>
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<td>EMA 4703</td>
<td>Failure Analysis &amp; Prevention</td>
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**Structural**

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<td>Timber &amp; Masonry Design</td>
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<td>CES 4561</td>
<td>Computer Aided Structural Design</td>
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**Civil Engineering Design Requirements**

(A student must complete a minimum of 9 hours with at least 1 course from the same area of concentration selected for 2 concentration requirements.)

**Water Resources**

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<tr>
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<td>ENV 4432</td>
<td>Water Systems Design</td>
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<td>CGN 4914</td>
<td>Senior Project</td>
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**Geotechnical/Transportation**

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<td>Geotechnical Design</td>
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<td>Transportation Systems Design</td>
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**Materials**

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<tr>
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<td>EMA 4704</td>
<td>Selection and Application of Materials</td>
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<td>Senior Project</td>
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**Structural**

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<td>Structural Design-Concrete</td>
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**Environmental Engineering Concentration Within Civil Engineering**

**Semester I**

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<td>MAC 3281</td>
<td>Engr. Calculus I</td>
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<td>CHM 2041</td>
<td>General Chemistry I</td>
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<td>EGS 1113</td>
<td>Intro. to Des. Graphics</td>
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**Semester II**

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<td>General Physics I Lab</td>
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**Summer Term**

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Computer Science and Engineering. These tracks are Computer Engineering, Computer Science and Information Systems, which leads to the Bachelor of Science in Computer Engineering, in Computer Science and in Information Systems respectively. The Computer Engineering program emphasizes the design and utilization of computers and has a core of engineering and basic science courses like those of other engineering programs in the college. The Computer Science program focuses on languages, systems, and computation and application. The Information Systems Track emphasizes the understanding and development of software with an emphasis on business and end-user applications.

Graduates from these programs follow fruitful careers in either scientific or business application’s of computers, as well as in the design of computer systems. They are often involved in the systems level definition of information processing complexes for both manufacturers of computers and for users. A wide and expanding variety of design and applications opportunities characterize this field. The rapid growth and continual change within this field makes it essential for students to acquire a broad foundation in applied mathematics and the physical sciences, and to develop communication skills and to become familiar with the domains of potential computer application in the Humanities and Social Sciences. Research and development opportunities as a computer scientist and engineer, often following graduate education, are present in the areas of computer architecture and VLSI design, artificial intelligence, software engineering, digital data communications, robotics, database networks, user interface, fault-tolerant computing and testing, computer graphics, image processing and computer vision, and simulation.

The schedules which follow indicate how a serious, well prepared student who can devote full time to coursework can satisfy degree requirements in four academic years. Students without a solid foundation and those who cannot devote full time to academics should plan on a slower pace.

Bachelor of Science in Computer Science Curriculum

Semester I
- EGN 1002 Engr. Orientation 3
- MAC 3281 Engr. Calculus I 3
  *Science Elective 3
- ENC 1101 Freshman English I 3
  *Social Science Elective 3
  *Historical Perspectives Elective 3
  15

Semester II
- MAC 3282 Engr. Calculus II 3
- PHY 3048 Physics I 3
- PHY 3048L Physics I Lab 1
  *Science Elective 3
- ENC 1102 Freshman English II 3
  *Social Science Elective 3
  16

SummerTerm
- PHY 3049 Physics II 3
- PHY 3049L Physics II Lab 1
- MAC 3283 Engr. Calculus III 3
  *Historical Perspectives Elective 3
  10

Semester III
- EGN 3373 Electr. Sys. I 3
  *Non-Engineering 3
- COT 3100 Intro. to Discrete Structures 3
- ENC 3210 Tech. Writing 3
- EGN 3613 Engr. Economy 3
- MAP 4302 Diff. Equations 3
  15

Semester IV
- Non-technical Elective 3
- STA 4442 Intro. to Probability 3
- MAS 3103 Linear Algebra 3
- COP 3002 Intro to Computer Science 3
- COP 3000L Intro to Computer Science Lab 1
  *ALAMEA Perspective Elective 3
  16

Semester V
- EEL 4851C Data Structures 3
- EEL 4705 Logic Design 3
- EEL 4705L Logic Design Lab 1
- COP 3510 Programming Concepts 3
  Quantitative Elective 3
  *Fine Arts Elective 3
  16
| Semester VI | | Semester VI | |
|-------------|-------------|
| CDA 4100 Computer Organization and Architecture | 3 | CDA 4100 Computer Organization & Architecture | 3 |
| COP 4210 Intro. to Automata Theory | 3 | COP 3510 Programming Concepts | 3 |
| COP 4600 Operating Systems | 3 | COP 4210 Intro. to Automata Theory | 3 |
| COP 4400 Analysis of Algorithms | 3 | *Fine Arts Elective | 3 |
| Computer Science Elective | 6 | Computer Engineering Elective | 3 |

| Semester VII | | Semester VII | |
|--------------|--------------|
| EEL 4744 Microprocessor Principles & Applications | 3 | EEL 4744 Microprocessor Principles and Applications | 3 |
| EEL 4743L Microprocessor Lab | 1 | EEL 4743L Microprocessor Lab | 1 |
| COP 4600 Operating Systems | 3 | COP 4600 Operating Systems | 3 |
| EGN 3443 Thermo | 3 | Computer Engineering Elective | 3 |
| *MW/MI (Non-engineering) | 6 | *ALAMEA Perspective Elective | 3 |

| Semester VIII | | Semester VIII | |
|---------------|---------------|
| CEN 4020 Software Engr. | 3 | CDA 4203 Comp. Sys. Design | 3 |
| CIS 4250 Ethical Issues (MW/MI) | 3 | EEL 4303L Computer Sys Design Lab | 1 |
| Quantitative Elective | 3 | CIS 4910 Comp. Engr. Project | 2 |
| Computer Science Electives | 6 | Computer Engineering Elective | 3 |
| *Approved General Education Requirements | | CIS 4250 Ethical Issues (MW/MI) | 15 |

**Bachelor of Science in Computer Engineering Curriculum**

| Semester I | |
|-------------|
| EGN 1002 Engr. Orientation | 0 |
| MAC 3281 Engr. Calculus I | 3 |
| CHM 2041 General Chemistry I | 3 |
| CHM 2045L General Chemistry I Lab | 1 |
| ENC 1101 Freshman English I | 3 |
| *Social Science Elective | 3 |
| *Historical Perspectives Elective | 3 |

| Semester II | |
|--------------|
| MAC 3282 Engr. Calculus II | 3 |
| PHY 3048 General Physics I | 3 |
| PHY 3048L General Physics I Lab | 1 |
| ENC 1102 Freshman English II | 3 |
| CHM 2046 General Chemistry II | 3 |
| *Historical Perspectives Elective | 3 |

| Summer Term | |
|--------------|
| PHY 3049 General Physics II | 3 |
| PHY 3049L General Physics II Lab | 1 |
| MAC 3283 Engr Calculus III | 3 |
| *Social Science Elective | 3 |

| Semester III | |
|---------------|
| EGN 3373 Elect. Sys. I | 3 |
| COT 3100 Intro. to Discrete Structures | 3 |
| MAP 4302 Diff. Equations | 3 |
| EGN 3343 Thermo I | 3 |
| EGN 3311 Statics | 3 |
| ENC 3210 Tech. Writing | 3 |

| Semester IV | |
|--------------|
| EEL 3302 Electronics I | 3 |
| EGN 3321 Dynamics | 3 |
| COP 3002 Intro to Computer Science | 3 |
| COP 3000L Intro to Computer Science Lab | 1 |
| EGN 4450 Intro to Linear Systems | 2 |
| EGN 3443 Engr. Statistics I | 3 |

| Semester V | |
|-------------|
| EGN 3365L Materials Engr. I | 3 |
| EEL 4851C Data Structures | 3 |

**Bachelor of Science in Information Systems Curriculum**

| Semester I | |
|-------------|
| EGN 1002 Engr. Orientation | 0 |
| ENC 1101 Freshman English I | 3 |
| MAC 3233 Elementary Calculus I | 4 |
| ACG 2001 Elem. Accounting I | 3 |
| *Approved General Education Requirements | 3 |

| Semester II | |
|--------------|
| ENC 1102 Freshman English II | 3 |
| MAC 3234 Elementary Calculus II | 4 |
| PHY 3053 or 3048 Physics I | 3 |
| PHY 3053L or 3048L Physics I Lab | 1 |
| ENG 3613 Engineering Economy I | 3 |

| Summer Term | |
|--------------|
| PHY 3054 or 3049 General Physics II | 3 |
| PHY 3049L or 3054L Physics II Lab | 1 |
| EGN 2210 Computer Tools for Engineers | 3 |
| *Science Elective | 3 |

| Semester III | |
|---------------|
| COT 3100 Intro to Discrete Structures | 3 |
| COP 3120 COBOL Programming I | 3 |
| ECO 2023 Economic Principles (Microeconomics) | 3 |
| STA 3023 Intro. to Statistics | 4 |
| *Social Science Elective | 3 |

| Semester IV | |
|--------------|
| COP 3002 Intro. to Computer Science | 3 |
| COP 3000L Intro. to Computer Science Lab | 1 |
| EGN 4450 Intro. to Linear Systems | 2 |
| ECO 2013 Economic Principles (Macroeconomics) | 3 |
### College of Engineering

#### Bachelor's Curriculum - Electrical Engineering

**Semester I**

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<th>Course Title</th>
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</tbody>
</table>

**Semester III**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 3049</td>
<td>Gen. Phys. II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 3049L</td>
<td>Gen. Phys. II Lab</td>
<td>1</td>
</tr>
<tr>
<td>MAC 3283</td>
<td>Eng. Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3613</td>
<td>Egr. Economy I</td>
<td>3</td>
</tr>
<tr>
<td>*EGN 3311</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Social Science Elective</strong></td>
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**Semester IV**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MAP 4302</td>
<td>Differ. Equations</td>
<td>3</td>
</tr>
<tr>
<td>PHY 3101</td>
<td>Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>*EGN 3373</td>
<td>Intro. to Elec. Sys. I</td>
<td>3</td>
</tr>
<tr>
<td>*EGN 3443</td>
<td>Engr. Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3343</td>
<td>Thermodynamics I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Social Science Elective</strong></td>
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**Summer Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EGN 3375</td>
<td>Intro. to Elec. Systems III</td>
<td>3</td>
</tr>
<tr>
<td>ENC 3210</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3365L</td>
<td>Materials Engineering</td>
<td>3</td>
</tr>
<tr>
<td><strong>Social Science Elective</strong></td>
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</tbody>
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**Semester V**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EGN 4450</td>
<td>Intro. to Linear Systems</td>
<td>2</td>
</tr>
<tr>
<td>EEL 3410</td>
<td>Fields and Waves</td>
<td>3</td>
</tr>
<tr>
<td>EEL 3100</td>
<td>Network Analysis &amp; Design</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4306</td>
<td>Computer Aided Design</td>
<td>2</td>
</tr>
<tr>
<td>ELR 3301L</td>
<td>Lab I (Circuits)</td>
<td>1</td>
</tr>
<tr>
<td><strong>Social Science Elective</strong></td>
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</tbody>
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**Semester VI**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EEL 4102</td>
<td>Linear Systems Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4351</td>
<td>Semiconductor Devices</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4705</td>
<td>Logic Design</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4705L</td>
<td>Logic Design Lab</td>
<td>1</td>
</tr>
<tr>
<td>EEL 4163</td>
<td>Computer Aided Design</td>
<td>2</td>
</tr>
<tr>
<td>ELR 3301L</td>
<td>Lab I (Circuits)</td>
<td>1</td>
</tr>
<tr>
<td><strong>Social Science Elective</strong></td>
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**Semester VII**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EEL 4744</td>
<td>Microprocessors</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4743L</td>
<td>Microprocessors Lab</td>
<td>1</td>
</tr>
<tr>
<td>ELR 3302L</td>
<td>Lab II (Electronics)</td>
<td>1</td>
</tr>
<tr>
<td>EEL 4906</td>
<td>Intro. to Engr. Design</td>
<td>2</td>
</tr>
<tr>
<td><em>Fine Arts Elective</em>*</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Approved Technical Elective</td>
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**Semester VIII**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EEL 4936</td>
<td>Design Project</td>
<td>3</td>
</tr>
<tr>
<td>EGN 4831</td>
<td>Technology in Society (MW/MI)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Approved Technical Elective</strong></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Approved Technical Elective</strong></td>
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<tr>
<td><strong>Approved Technical Elective</strong></td>
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<td><strong>Approved Technical Elective</strong></td>
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<td>3</td>
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</tbody>
</table>

| **Required for admissions to the Electrical Engineering Department** | 3       |
| **Approved General Education Requirements** | 3       |
5. Industrial Engineering

Students pursuing the Bachelor of Science in Industrial Engineering degree program take designated, specialized coursework in industrial processes, work analysis, production control, facilities design, operations research, human factors, computer simulation, quality control, and robotics and automation. This coursework is supplemented by engineering electives and comprehensive industrial engineering design projects.

Students completing this program are prepared for graduate study or for careers in a broad range of industries, business, and public service areas. The strength of industrial engineering lies, in part, in its breadth and the applicability of its common body of knowledge in a wide variety of enterprises. Students may be involved in traditional areas of manufacturing and production, or state-of-the-art functions in automation and robotics. The same engineering principles are also applied to business organizations, service delivery systems, and governmental administration.

The schedule which follows indicates how a serious, well-prepared student who can devote full time to coursework can satisfy degree requirements in four academic years. Students without a solid foundation and those who cannot devote full time to academics should plan on a slower pace.

Bachelor's Curriculum
Industrial and Management Systems Engineering

| Semester I | ENC 1101 | Freshman English I | 3
| MAC 3281 | Engr. Calculus I | 3
| CHM 2041 | General Chemistry I | 3
| EGN 1002 | Engr. Orientation | 0
| EGS 1113 | Intro. to Design Graphics | 3
| *Fine Arts Elective | 3
| *Social Science Elective | 3
| **Total** | **18** |

| Semester II | ENC 1102 | Freshman English II | 3
| MAC 3292 | Engr. Calculus II | 3
| CHM 2046 | General Chemistry II | 3
| CHM 2045L | Gen. Chemistry I Lab | 1
| PHY 3048 | General Physics I | 3
| PHY 3048L | Gen. Physics I Lab | 1
| EGN 2210 | Computer Tools for Engineers | 3
| **Total** | **17** |

| Semester III | PHY 3049 | General Physics II | 3
| PHY 3049L | Physics II Lab | 1
| MAC 3283 | Engr. Calculus III | 3
| EGN 3365L | Materials Engineering I | 3
| EGN 3311 | Statics | 3
| EGN 3443 | Eng. Statistics I | 3
| **Total** | **16** |

| Semester IV | MAP 4302 | Differ. Equations | 3
| EGN 3373 | Intro. to Electrical Systems I | 3
| EGN 3321 | Dynamics | 3
| EGN 3343 | Thermodynamics I | 3
| *Social Science Elective | 3
| **Total** | **15** |

| Summer Term | ENC 3210 | Technical Writing | 3
| ENG 3613 | Engineering Economy | 3
| EGN 4450 | Intro. to Linear Systems | 2
| *Science Elective | 3
| **Total** | **14** |

| Semester V | EIN 4411L | Manufacturing Processes | 3
| ACG 3074 | Managerial Acct. for Engineers | 3
| ESI 4224 | Design of Experiments | 3
| **Total** | **15** |

| Semester VI | ESI 4312 | Deterministic O.R. | 3
| ESI 4313 | Probabilistic O.R. | 3
| ESI 4221 | Industrial Statistics & Quality Control | 3
| EIN 4364L | Plant Facilities Design I | 3
| MW/MI | Non-engineering | 3
| **Total** | **15** |

| Semester VII | ESI 4911 | Senior Project | 2
| EIN 4333 | Production Control | 3
| EIN 4313L | Human Factors | 3
| *ALAMEA Perspective Elective | 3
| *Historical Perspectives Elective | 3
| **Total** | **15** |

| Semester VIII | EIN 4601 | Automation and Robotics | 3
| ESI 4323 | Ind. Syst. Simulation | 3
| EIN 4395L | Facility Design II (MW/MI) | 3
| Technical Elective | 3
| *Historical Perspectives Elective | 3
| **Total** | **15** |

*Approved General Education Requirements

6. Mechanical Engineering

Students pursuing the Bachelor of Science in Mechanical Engineering program take coursework in thermodynamics and heat transfer; instrumentation and measurements, energy conversion systems, solid and fluid mechanics, dynamics, machine analysis and design, mechanical design, controls, and fluid machinery. This is supplemented by elective coursework in such areas as power plant analysis, refrigeration and air conditioning, mechanical design, advanced mechanics, heat transfer, robotics, propulsion, vibrations, computer-aided design, manufacturing, composite materials, and aerodynamics.

Students completing this option normally enter careers in a wide range of industries which either produce mechanical products or rely on machines, mechanical devices and systems to produce electricity, petroleum products, foods, textiles, building materials, etc. Mechanical Engineering graduates may follow careers in such fields as transportation, power generation, manufacturing, instrumentation, automatic control, machine design, construction, refrigeration, heating and air conditioning, aerospace, defense and all the process industries (foods, textiles, petrochemicals, pharmaceuticals, etc.). There are career opportunities in this wide range of industries because mechanical equipment is required in every aspect of industrial production.

Bachelor's Curriculum
Mechanical Engineering

| Semester I | ENC 1101 | Freshman English I | 3
| MAC 3281 | Engineering Calculus I | 3
| CHM 2041 | General Chemistry I | 3
| CHM 2045L | Chem Lab I | 1
| EGS 1113 | Intro. to Design Graphics | 3
| EGN 3312 | Engineering Orientation | 0
| *Social Science Elective | 3
| **Total** | **16** |

| Semester II | ENC 1102 | Freshman English II | 3
| MAC 3282 | Engineering Calculus II | 3
| CHM 2046 | General Chemistry II | 3
| CHM 2046L | General Chemistry II Lab | 1
| PHY 3048 | General Physics | 3
| **Total** | **15** |
**College Regulations**

1. **Humanities and Social Science Requirements**

   While the Engineering undergraduate student is expected to complete certain requirements during the first two years of study which are directed toward the humanities and social sciences, and which are fulfilled by the completion of the General Education requirements of the University, the College of Engineering expects more of its prospective engineering graduates than this minimum. The engineer must not only be a technically competent individual, but must also be a person who can understand, adjust and contribute to the social environment.

2. **English Requirement**

   Students who have been admitted to the College of Engineering may be required to take an examination in order to evaluate their preparedness in the use and understanding of the English language. The examination will be administered by the faculty of the University's English program.

   Students evidencing an English deficiency will be required to initiate the necessary corrective programs, with the assistance of their advisers. It is recognized that such deficiencies can exist even though a student has met the University's minimum English requirements. Correction of any deficiency must commence during the first term after a student has been notified and must be completed prior to recommendation of the student for graduation by the faculty of the College.

   See Continuation and Graduation Requirements below for minimum grade requirements.

3. **Mathematics Requirement**

   Students who are pursuing an engineering program are expected to acquire a facility for the rapid and accurate solution of problems requiring the use of mathematics. This requirement includes the ability to translate physical situations into mathematical models. Students evidencing a lack of manipulative ability or of the ability to apply mathematics will be required to take remedial coursework in engineering analysis and problem solving and that is over and above their regular degree requirements. Faculty of the College who encounter students who are deficient in their mathematical ability will refer such cases to the Advising Office.

4. **Continuation and Graduation Requirements**

   The curricula for the programs offered by various departments of the College of Engineering may be divided into four categories: a) General Education (Non-Technical Requirements); b) Basic Science Requirements (i.e., Math, Chemistry and Physics); c) Engineering Core Requirements; d) Program Specialization Requirements. All undergraduate students in the College of Engineering must maintain the minimum grade-point average (GPA) of 2.0 for each category and a 2.0 GPA for all engineering courses attempted. In no case will the minimum GPA for a category be less than 2.0. It is the student's responsibility to make sure she/he meets all departmental requirements. In addition to the completion of the coursework and/or project requirements of the respective program of the College, students must be recommended for their degrees by the faculty of the College.

   Students who do not maintain the required minimums of the program pursued in each category are ineligible for further registration in the College unless individually designed continuation programs are recommended by the student’s academic adviser and approved by the department chairperson and the Engineering Associate Dean for Academic Affairs. All students who are academically dismissed from the University will be denied readmission to the College of Engineering unless they meet admission requirements in effect at the time readmission is sought and are recommended for readmission by the department and the Associate Dean for Academic Affairs.

   Students who register for a course three times without receiving a grade “D” or better (i.e., receive grades of W or F) will be denied further enrollment in the College of Engineering unless permission is obtained from the department chairperson and the College Associate Dean for Academic Affairs.
Students pursuing College of Engineering degree programs are expected to take their courses on a graded basis (ABCDF). Exceptions require written approval of the department adviser prior to registration.

The College of Engineering requires that a student complete the Basic Science, Engineering Science and Specialization Requirements for the baccalaureate degree within seven years prior to the date of graduation. Any exceptions require approval of the department and Dean's Office.

Each engineering student is required to complete the Application for Graduation - Check List and submit it to the College of Engineering Advising Office by the drop date of the term prior to the semester in which graduation is sought. Completion of this form is a requirement for graduation.

Effective fall of 1987 all students pursuing Bachelor of Science degree programs in Civil or Mechanical Engineering will be required to take the Fundamentals of Engineering Exam of the State Board of Professional Regulation at least one term prior to the term of anticipated graduation. Engineering students in other disciplines are strongly encouraged to do the same. (See the College Advising Office for applications and information.)

5. Transfer Credit
Transfer credit will be allowed by the USF College of Engineering when appropriate if the transferred course has been passed. In some cases credit for a course may be granted, but the hours accepted may be less than the hours earned at another school.

While credit for work at other institutions may be granted subject to the conditions of the previous paragraph, a minimum of thirty semester hours of engineering coursework specified by the degree granting department is required for a baccalaureate degree.

FIVE-YEAR PROGRAM - LEADING TO BACHELORS AND MASTERS DEGREES

Students who, at the beginning of their senior year, are clearly interested in graduate study are invited to pursue a Five-Year Program of study leading simultaneously to the Bachelor of Science in Engineering or Engineering Science and Master of Science in Engineering or Engineering Science degrees. The keys to this program are:

1. A two-year research program extending through the fourth and fifth year.
2. The opportunity of taking graduate courses during the fourth year and deferring the taking of senior courses to the fifth year. The requirements of the combined degrees do not differ from those for the two degrees pursued separately.

Students apply for admission to this program through their adviser, who should be consulted when additional information is needed. General requirements include:

1. Senior standing (90 credits) with at least 16 upper level engineering credits completed at the University of South Florida with a 3.0 GPA.
2. A minimum score of 1000 on the verbal and quantitative portions of the Graduate Records Examination is expected.
3. Above-average performance in the chosen Engineering program is expected.

Certificate Programs

Certificate in Biomedical Engineering

The Certificate in Biomedical Engineering provides students an opportunity to gain an enhanced experience in their chosen field while pursuing an engineering degree and to permit them to receive recognition for their endeavors. Students in the program must fulfill the requirements for an undergraduate degree, such as Bachelor of Science in Chemical Engineering, and also meet the additional requirements of the Certificate program.

Chemistry/Biology

(10 hours min.)

BSC 2010 Biology II - Cellular Processes*
BCH 3023 Biochemistry

One of the following Organic Chemistry sequences:

CHM 3210 Organic Chemistry I*
CHM 3211 Organic Chemistry II*
CHM 3200 Organic Chemistry***

Other "human sciences" (6 hrs. min.)

PSY 3044 Experimental Psychology**

One of the following:

PET 3310 Kinesiology
PET 3351 Exercise Physiology I
EXP 4104 Sensory Processes
PSB 4013C Neuropsychology

(or approved substitute)

Engineering

(9 hrs. min.****)

EEL 4935 Special Electrical Topics
ECH 5746 Intro to Biomedical Engineering

One or more of the following (to achieve 9 hrs. min. in area):

EIN 4313L Human Factors
EIN 5245 Work Physiology & Biomechanics
ECH 5747 Selected Topics in Chemical Engineering Biotechnology
ECH 5748 Selected Topics in Biomedical Engineering

(or other approved Engineering courses)

*These courses are typically required for Medical School admission. Note that there may be other required courses, such as a course in Human Genetics and the Organic Chemistry laboratories.

**These courses are not normally required for Medical School admission, but are often "highly recommended".

***This is a single semester course in Organic Chemistry. This course does not normally satisfy the admission requirements of most medical schools. It also does not count towards the Chemical Engineering degree (students must take the full year sequence).

****It is important to note that these engineering courses are above and beyond the courses necessary to satisfy the 136 hour requirement. That is, these courses will not also be countable as engineering electives towards the B.S. requirements for any of the departmental degree programs.

Certificate of Enhancement

The Certificate of Enhancement in (designated discipline) provides students an opportunity to gain an enhanced experience in their chosen field while pursuing an engineering degree and to permit them to receive recognition for the same requirements.

Requirements:

1. Enrolled in a Bachelor of Science degree program in a specified engineering discipline.
2. A minimum of 15 hours of additional elective courses, not included as a part of the B. S. degree, from an approved list. Courses must be taken on a letter-grade basis and a minimum of 9 hours must be in engineering courses.
3. A G.P.A. of 2.0 or greater for the additional hours.
4. The student must receive the engineering degree to receive the Certificate of Enhancement.

Please contact the appropriate department chairperson to be accepted in the program.

Computer Service Courses

These courses marked SC are specifically designed for the non-engineering student. Recognizing that the general purpose digital computer has made significant contributions to the advancement of all elements of the academic community and that it will have an even greater impact in the future, the College of Engineering offers several levels of credit coursework, both undergraduate and
Co-op program usually encounter no problems in scheduling their program, since required Social Science and Humanities, Mathematics and Science, and Engineering Core courses are offered every semester. Students normally apply for participation in this program during their sophomore year and pursue actual Co-op employment during their sophomore and junior years. The senior year is generally pursued on a full-time study basis, since many specialization courses are not offered every semester. The students receive a Cooperative Education Certificate upon successful completion of a minimum of two work assignments.

STAC (Southern Technology Applications Center)

The Space Act of 1958 directed NASA "to provide the widest practical and appropriate dissemination of information concerning its activities and results thereof." In order to pursue this mandate NASA established a network of Industrial Applications Centers (IACS) to disseminate and transfer NASA technology, products and processes to the private sector.

In 1977 NASA and the State University System of Florida combined resources to form the Southern Technology Application Center which operated a regional IAC in the State of Florida. STAC is a not-for-profit 501C3 Corporation partially supported by NASA and SUS grants and its effective network of experts and resources are located at the colleges of Engineering at six of the SUS universities.

In December 1991 the NASA IAC Network was reorganized to provide comprehensive technology transfer and economic development services. The new program resulted in a newwork of six Regional Technology Transfer Centers that link NASA Field Centers, Federal laboratories, universities and other Technology Transfer networks for more efficient technology transfer.

In January 1992 STAC was appointed the Southeast Regional Technology Transfer Center (RTTC) with responsibility for nine Southeastern states.

Since the early days of its existence STAC has build a reputation for successfully identifying, matching, developing and deploying the critical information and technology needed by business, industry, academic institutions and government. In today's economy, American companies, especially small firms are able to capitalize rapidly on the results of scientific research and technological innovation and realize the increased productivity necessary to compete in the dynamic marketplace.

The cornerstone of STAC's technology transfer success is a professional staff trained and experienced in engineering, physical and biological sciences, medicine, social and behavioral sciences, business planning, marketing, training, library science and government. STAC's Information Research Center accesses an international array of over 2000 databases and 35 document retrieval sources. STAC's hands-on approach enables each client to receive the attention and alternative solutions needed to make the best strategic decisions.

STAC is the connection to access the information technology, inventions, equipment, facilities and expertise that resides within NASA, the other 700+ Federal laboratories and the SUS universities.

Army & Air Force R.O.T.C. For Engineering Students

The Engineering curriculum, coupled with involvement in the Army or Air Force R.O.T.C. program, requires a minimum of five (5) years to complete the degree requirements. Army and Air Force R.O.T.C. cadets must take 16 additional hours in either military science or aerospace studies. Additionally, Air Force-sponsored summer training camp is scheduled between the sophomore and junior year for Air Force cadets, and Army cadets attend an Army-sponsored summer training program between the junior and senior years.

Cooperative Education Program

A wide variety of industries and government agencies have established cooperative programs for engineering students to provide them the opportunity to become familiar with the practical aspects of industrial operations and engineering careers. Students in the Career Resource Center's Cooperative Education (Co-op) program alternate periods of paid employment in their major field with like periods of study. Students following the

College Facilities

Each of the departments has several modern well-equipped laboratories that are used for undergraduate teaching. Some examples of specialized equipment available are a scanning electron microscope, a gas chromatograph mass spectrometer, a 250,000 lb. material testing machine, several microprocessors for computer systems, industrial robots, a low turbulence subsonic wind tunnel, computers for numerical controlled machinery, metal organic chemical vapor deposition systems, and integrated circuits design workstations.

College Computing Facilities

The College of Engineering Computing Facilities are used to provide support for specialized engineering calculations above and beyond those which are available at the IBM based Central Florida Regional Data Center (CFRDC).

The College of Engineering operates a cluster of file and computer servers for students and faculty within the College. These consist of SUN servers and four Ardent multiprocessors mini-supercomputers. The networks provide access from offices and laboratories, computer rooms and dial-in facilities. All machines are configured for E-mail, and access to Internet.

Conventional asynchronious links to the campus central facility will shortly be supplemented with an Ethernet link.

In addition to the network facilities, the College operates open access P.C. labs. Two are available for undergraduate engineering students; a third smaller lab is reserved for graduate students and faculty. Another open access P.C. lab is operated by the College in conjunction with the Technology program.

The network facilities provide access either via Ethernet or the ISDN. Connections to offices, laboratories and classrooms are available on request, subject to budget priorities. The FEEDS studies are also networked to provide demonstrations for remote classes.

The College facilities run most of the standard engineering software. Languages include Fortran, Basic, Pascal, Ada, several varieties of LISP and Prolog. Applications software includes mathematical libraries, suites of programs for VLSI design, chemical process design, civil and mechanical engineering design, robotics simulation, and circuit simulation and analysis. There are high resolution color terminals for use in conjunction with these activities, and for mechanical design there are four multiple display workstations with joysticks and digitizing pads. Similar arrangements are used for VLSI design.

Additionally, the Computer Science and Engineering Department within the College runs other facilities consisting of an Ethernet with SUN and DEC machines, an Intel Hypercube parallel computer, and extensive microcomputer laboratories.

graduate, to serve students of all colleges in order that they may be prepared to meet the computer challenge.

Computer-oriented courses are offered in two broad categories: (1) those courses which are concerned with the operation, organization and programming of computers and computer systems; and (2) those courses which are concerned with computer applications to a variety of different disciplines, by means of user-oriented-languages such as FORTRAN, PL/I, COBOL, PASCAL, BASIC, "C" and ADA.

Students in engineering, the physical sciences, and mathematics must consult their adviser for suitable computer courses, since these courses are not acceptable to a number of degree programs.

Army & Air Force R.O.T.C.

For Engineering Students

The Engineering curriculum, coupled with involvement in the Army or Air Force R.O.T.C. program, requires a minimum of five (5) years to complete the degree requirements. Army and Air Force R.O.T.C. cadets must take 16 additional hours in either military science or aerospace studies. Additionally, Air Force-sponsored summer training camp is scheduled between the sophomore and junior year for Air Force cadets, and Army cadets attend an Army-sponsored summer training program between the junior and senior years.
The College of Fine Arts exists in the context of a dynamic, contemporary, urban, research university, characterized by student diversity, growth, and emerging international prominence. It provides opportunities for students to develop their interests and talents to the highest level possible and encourages them to do so whether they wish to commit to a life in the arts or, as a general interest, to develop appreciation and involvement in the arts. For these purposes, the College educates in the practice of creating, performing, presenting and understanding theatre, music, dance and the visual arts. Our mission is threefold:

1. Teaching the disciplines for creating, performing, presenting, teaching, and understanding the arts. This is done by providing the full range of educating experiences that prepare students to:
   a. Practice an art as a full-time life commitment;
   b. Practice an art as an important element of the individual's life commitment;
   c. Appreciate the arts as important life enrichers;
   d. Teach the arts as life enrichment or professional preparation.

2. Creating and researching the arts:
   a. To expand new knowledge through the arts;
   b. To expand new knowledge about the arts;
   c. To expand new knowledge about arts education.

3. Serving the public by providing cultural enrichment and expertise. In recognition of its academic and artistic achievements the College of Fine Arts has been given program of emphasis status by the Board of Regents of the State University System. The college offers degree programs and courses in art, dance, music and theatre. In addition, it also offers courses in music education, theatre education and art education in cooperation with the College of Education.

**An Arts-Filled Environment**

Recognizing the importance of experiencing the arts beyond the classroom and studio, the College of Fine Arts offers its students, the university community, and the Tampa Bay area numerous performances and exhibitions. These provide a broad variety of experiences, ranging from the traditional to the most avant-garde. From these experiences the student can build awareness of the large array of options available to the artist, and the public can discover the varied opportunities for enjoying the arts. In addition to the presentation of work by our faculty and students, artists of international prestige are periodically in residence giving seminars and workshops and interacting with students and faculty. Through this presence, different perspectives are introduced and the artists’ presentations in performance or exhibition expand the cultural horizons of all in attendance. Lists of visiting artists and performing organizations appear in this catalog under Art, Dance, and Theatre Departments and School of Music. These units in the College of Fine Arts are responsible for the educational activities which directly benefit students.

**BACCALAUREATE-LEVEL DEGREE PROGRAMS**

Programs Leading to the Baccalaureate Degree

The College of Fine Arts offers programs leading to the Bachelor of Arts degree in the fields of Art, Dance, and Theatre, a Bachelor of Music degree in Music, and a Bachelor of Science in Music Education.

Admission to the College

A freshman student may elect to enter the College of Fine Arts as a major in one of the four departments as early as his/her initial entry into the University provided he/she has successfully completed an audition or portfolio review in the appropriate department or school. At that time, the new freshman should file a Declaration of Major or Change of Curriculum code form indicating the choice of degree program within the College of Fine Arts. However, any continuing student in the University in good standing, upon acceptance by the department or school, can apply to change from another major to a major in the College of Fine Arts.

The student desiring to make this change must initiate a Change of Major form in the college of the present major and transfer his/her current academic records to the College of Fine Arts’ advising office.

Transfer students and students from other units within USF with previous college or university fine arts course credits (art, dance, music, theatre) must have such credits evaluated and meet appropriate portfolio or audition requirements when seeking admission to the College of Fine Arts. These students are urged to make early arrangements for any necessary portfolio reviews or auditions, as well as appointments for advising, since these must take place prior to course scheduling and registration. Further, students are required to provide copies of their transcripts showing all previous college or university coursework for advising, portfolio review and/or audition appointments. Additional information may be obtained and appointments may be made by telephoning or writing the College’s advising office or the office of the department or school of particular interest.

**Advising in the College**

The College of Fine Arts operates a central advising office located in the Fine Arts Building. It maintains the records of all major students in the College (art, dance, music, theatre) and provides on-going academic advising, referral services and assistance to all present and potential students. Academic advisement is provided for each of the departments or school in the College.

Any student in the University, regardless of major, may enroll in courses offered by the College of Fine Arts when prerequisites are met and space is available. Where applicable, these courses may be used to satisfy elective or General Distribution Requirements.

In all cases, the responsibility for meeting all graduation requirements rests entirely upon the student.

**Office of Student Services and Advising**

The office of Fine Arts Office of Student Services and Advising assists students in developing their educational plans and career goals and fosters their personal development through attention to individual talents and needs.

- Our goals are:
  - To help students clarify their life and career goals
  - To help students develop their educational plans
  - To help students select appropriate courses
  - To help students interpret institutional requirements
  - To evaluate student progress toward established goals
  - To make referrals to other institutional or community support services
  - To facilitate total student development
  - To foster the development of individual student’s talent to the fullest

**Graduation Requirements**

The College of Fine Arts currently offers three undergraduate degrees, the Bachelor of Arts (B.A.), attainable in the Departments of Art, Dance, and Theatre, the Bachelor of Fine Arts (B.F.A.) in Theatre, and the Bachelor of Music (B.M.) in Music. The University requirements are presented in detail elsewhere in this catalog, but are briefly summarized here along with the college and departmental requirements:

1. 120-124 credits for the B.A., 124-126 credits for the B.M., and 154 credits for the B.F.A. with at least a "C" average (2.0) in work done at the University of South Florida and in the major. At least 40 credits must be in courses numbered 3000 or above. Since 15 hours is considered a full-time load, students are reminded that programs requiring more than 120 credit hours may require additional semesters for completion of the program.
2. General Education Requirements may be satisfied by (1) completing the University's General Education Requirements as explained in this catalog, (2) completing the A.A. degree from a Florida Junior or Community College, or (3) completing the general education requirements from another Florida state university. General education courses transferred from other accredited institutions will be evaluated based on USF General Education equivalencies. The A.A. degree is in no way a requirement for acceptance into the College of Fine Arts (or into any one of its upper-level degree programs), or a requirement for graduation from the University. Students admitted under the 1994/95 catalog must complete the Liberal Arts requirements of the University in lieu of the old General Distribution requirements.

3. Students admitted to the College of Fine 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/schoolland may be required to take specified competency tests in their major.

4. Special Fine Arts College Requirement: All majors in the College of Fine Arts must take at least 6 credit hours in one or more of the other departments/school of the College.

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 towards the B.A., B.M., or B.F.A. degree.

6. With departmental/school approval, a maximum of 4 credit hours of elective Physical Education credits taken at USF may be counted as general elective credit toward the B.A., B.M., or B.F.A. degree.

7. Satisfactorily complete the College Level Academic Skills Test CLAST and the writing and composition course requirement of 6A-10.30 (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. Department Requirements:
   - **Art Requirements:** Completion of a minimum of 46 credit hours in the major, 19 credit hours of Free Electives (of which 16 hours in art may apply), and 9 hours of non-major credits which may be distributed at the discretion of the Art Department.
   - **Dance Requirements:** Completion of a minimum of 44 credit hours in the major, 21 credit hours of Free Electives (of which 17 hours in dance may apply), and 9 hours of non-major credits which may be distributed at the discretion of the Dance Department.
   - **Music Requirements:** Completion of a minimum of 84-86 hours in the major.

   - **Music Education Requirements:** For Instrumental Specialization, the completion of a minimum of 19 credit hours of Music Education courses and 52 credit hours of Music courses. For Vocal Specialization, the completion of a minimum of 15 credit hours of Music Education courses and 56 credit hours of Music courses.
   - **Theatre Requirements:** For the B.A., the completion of a minimum of 54 - 55 credit hours in the major with 24 credit hours of Free Electives of which a maximum of 10 - 11 credit hours may be in theatre. For the B.F.A., the completion of a minimum of 75 credit hours in the major with 29-30 credit hours of Free Electives of which a maximum of 10 - 11 credit hours may be in theatre.

10. Residency Requirements: A minimum of 20 credit hours in the major department must be earned in residence. This requirement, however, may be waived by the department/school based on examination (e.g., portfolio review, audition, etc.). Also, a student must earn 30 of the last 60 hours of credits in residence at the University of South Florida. However, any course work to be taken and any credits to be earned outside of the University must have prior approval from the appropriate department/school and the college in order to apply these credits toward graduation.

Waiver of prerequisite course work totaling no more than 12 credit hours in the major or Fine Arts College Requirements is possible by demonstration of competence. Unless credit is awarded by approved official tests, i.e., A.P., CLEP, the credit hours must be made up according to departmental/school or college recommendations. The review for waiver is by faculty committee. Specific questions concerning program requirements for the B.A., B.M. and B.F.A. degrees in the College or other related problems should be directed to the Coordinator of Advising, College of Fine Arts, University of South Florida, Tampa, Florida 33620.

The responsibility for seeing that all graduation requirements are met rests with the student.

**Courses for General Education and Liberal Arts Requirements:**

Courses in the College of Fine Arts in the departments of Art, Dance, Theatre, and School of Music fall within Area II of the University's General Education Requirements. (See General Education Requirements and special policies for AA degree holders and other transfer students with "General Education Requirements" met.) However, a major in any one of the four departments/school in the College of Fine Arts may utilize only those courses in the other three departments of the College for General Education Requirements. Liberal Arts requirements can be met with designated College of Fine Arts courses.

**College Policy for Academic Progress:**

The following criteria will serve as the basis for disenrollment from a major in the College of Fine Arts:

1. Grade-point average below 2.0 in the major.
2. Recommendation by major applied (studio) art, dance, music or theatre faculty with approval of respective department/school chairperson/director, or art education coordinator.
3. The department may recommend probationary status (rather than disenrollment) for one semester when academic progress is not maintained.

**Contracts and Permission Procedures**

**Directed Studies Contracts:**

All Directed Studies and other variable credit courses in the College of Fine Arts require contracts between students and instructors describing the work to be undertaken by the student and specifying the credit hours. These contracts are to be completed in quadruplicate and appropriately signed. It is the student's responsibility to obtain the necessary signatures and make the required distribution of all copies. Important: the student must have his/her signed copy of a contract at the time of registration.

**S/U Grade Contracts:**

The College of Fine 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**

Incomplete contracts must be signed with 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 the contract and the four copies must be distributed according to instructions. A student must not register for a course again to remove an "I" grade.

**Permission Procedures:**

Admission into some courses is possible only by consent of instructor (CI), consent of chairperson (CC), consent of adviser, or by auditon or portfolio review. When such special permission is required, it will be the student's responsibility to obtain any required permission prior to registration.
S/U Grading in the College

1. Non-majors enrolled in courses in the College of Fine 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 departments 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 Fine 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 Fine Arts, the only S/U graded courses available to a major student in his major subject area are those curriculum allowable courses designated S/U (that is, S/U only).

5. With the exception of such courses as may be specifically required under the College's "Special Requirements" regulation, a maximum of 9 credit hours of S/U credits in non-major courses may apply toward a degree in the College of Fine Arts.

Please refer to Academic Policies section for more information concerning the University's S/U Grading policy.

Dean's List Honors

See Academic Policies and Procedures, Programs and Services.

Interdisciplinary Study

In spite of the fact that an undergraduate interdisciplinary degree program is not formally offered in the College of Fine Arts, 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 departments within the College of Fine Arts as a means of interdisciplinary study. See the major adviser in the programs of particular interest.

Minors Program

The College of Fine Arts offers minor programs in Art, Dance, Music, Theatre. Majors in the College of Fine Arts may pursue a minor in any certified minors program at USF except within the same department/school as the major. The requirements for these programs are located under the departmental/school academic program descriptions. For University Minor Policy, consult that section in Catalog.

PROGRAMS AND CURRICULA

ART (ART)

Departmental Requirements for the B.A. Degree

The art curriculum is designed to develop the student's consciousness of aesthetic and ideological aspects of art and its relationship to life and to assist students in the realization of personal ideas and imagery. Most B.A. recipients interested in college teaching, museum or gallery work, fine or commercial studio work pursue the extended discipline and experience offered at the graduate level.

Although the Art program allows many possible courses of study, most art major students will select one area of emphasis chosen from the course offerings listed.

The major concentrations, or areas of emphasis, available to undergraduate art students are: Drawing, Painting, Sculpture, Ceramics, Electronic Intermedia (Computer Images), Graphics (Lithography and/or Intaglio), Photography, Cinematography (Film), Art History and Theory. Art majors must receive a grade of "C" or better in all art courses. Transfer studio credit will be accepted on the basis of portfolio and transcript evaluation.

For additional requirements see Graduation Requirements, College of Fine Arts. The requirements for the bachelor's degree in Art Education are listed under the College of Education.

Art Studio Concentration (46 semester hours minimum)

1. Fabrications and Introduction to Art, 8 credit hours.

2. History of Visual Arts I and II, 6 credit hours.

3. Minimum of 12 credit hours of 3000 level studio courses (exclusive of Technique Seminars.)

4. Minimum of 8 credit hours of 4000 and/or 5000 level studio courses exclusive of Technique Seminars with an emphasis in one area.

5. Two courses (8 hours credit) in Art History are required of all majors. Twentieth Century (ARH 4450) Art and one course from the following:

   ARH 4100, ARH 4301, ARH 4530
   ARH 4170, ARH 4350, ARH 4796
   ARH 4200, ARH 4430, ARH 4937

6. Art Senior Seminar, 2 credit hours.

7. Maximum of 18 semester hours of art electives.

Art History Concentration (46 semester hours minimum)

1. Fabrications and Introduction to Art, 8 credit hours.

2. Minimum of 16 credit hours of 4000 level art history courses including Twentieth Century art history.

3. Seminar in the History of Art History, 4 credit hours.

4. A minimum of 12 credit hours in Directed Readings (1 to 4 semester hours each) and/or Critical Studies in Art History (4 semester hours each).

5. Art Senior Seminar, 2 credit hours.

6. Must demonstrate competency in French or German as described under Foreign Language Competency Policy of this catalog.

7. A maximum of 20 semester hours of art electives.

For more specific information concerning this requirement, the student should consult with the art advisor or the faculty of the art history area of the art department.

Requirements for a Minor in Art (20 semester hours minimum)

1. Studio Concentration:

   ART 2201C (4) ARH 3001 (4)
   Plus: Three 4 semester hour classes from 3000 studio level (12)

2. Art History Concentration:

   ART 2202C (4) ART 3001 (4)
   Plus: Three 4 semester hour classes from any of the following:

   ARH 4100 (4) ARH 4301 (4) ARH 4450
   ARH 4170 (4) ARH 4350 (4) (Required) (4)
   ARH 4200 (4) ARH 4430 (4) ARH 4530 (4)

Visiting Artists and Artist-In-Residence

The art department is widely known for the consistent level of excellence of its programs. Aside from the contributions of its permanent staff, and to insure the continuing expansion of learning opportunities available to students, the art department has brought to the campus internationally known artists and lecturers such as Alice Aycock, Linda Benglis, Jack Burnham, James Casebere, Robert Colescott, Michael Dvortcsak, Edward Fry, Adam Gopnik, The Gorilla Girls, Nancy Holt, Barbara Kruger, Donald Kuspit, Alfred Leslie, Komar and Melamid, Marion Rigs, Tim Rollins, Miriam Shapiro, Patterson Sims, Robert Stackhouse, Sidney Tillum, Martha Wilson, Robert Zakanitch, and Elyn Zimmerman.
USF CONTEMPORARY ART MUSEUM

The USF Contemporary Art Museum (CAM) is recognized as one of the leading cultural institutions in the state by the State of Florida Cultural Institutions Program. The USF CAM brings vital, investigative, and scholarly exhibitions of contemporary art to the University and Tampa Bay Community. Artists Matt Mullican, Robert Stackhouse, Pat Steir, Tyler Turkle, and Robin Winters, as well as internationally recognized artists from Africa, Europe, and Latin America, such as Leo Copers, Patrick Corillon, Alfredo Jaar, Antonio Martorelli, Pepino Osorio, and Peter Weibel. The Museum also houses the University’s art collection with exceptional holdings in graphics, sculpture multiples, and recent photography. The Museum is actively engaged in commissioning architecturally related public art projects designed to enhance the public spaces on the USF campus. Recent projects include works by Dale Eleed, Richard Fleischner, Doug Hollis, Nancy Holt, Ned Smyth, and Elyn Zimmerman. USF CAM organizes symposia, lectures, workshops, and visiting artist presentations to engage interest in contemporary art, educate the public and facilitate the exchange of ideas among artists, museum members, experts in the art field, and the community. The exhibition, educational programs, and art collection are designed as an integral part of the studio and art history curriculum of the Art Department and other liberal studies areas while enhancing the cultural vitality of the campus and Tampa Bay communities.

DANCE (DAN)

The dance program offers professional preparation through a curriculum of study leading to a B.A. in Dance with an emphasis in Ballet, Modern Dance, or Dance Education. There is an expressed commitment to the development and production of original creative works as extensions of studio/classroom experiences, of faculty research, and in interaction with guest artists.

The presentation of dance in concert is essential to the educational mission, and provides students and the community with frequent opportunities for expanding aesthetic experiences.

Through intensive study in dance technique, creative studio studies and dance theory, students are prepared for careers in performance, choreography, and education. Additional preparation in graduate programs may lead to opportunities in Dance Sciences/Medicine, Dance Therapy, Arts Management, Performance, Choreography, or Interdisciplinary Studies.

Admission to the Dance Department is contingent upon acceptance by the University and successful completion of a performance audition. Students must complete the audition prior to Orientation and registration for Dance courses.

Requirements for the B.A. Degree

Performance Concentration

Modern Emphasis

Studio Technique

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<tr>
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<th>Title</th>
<th>Hours</th>
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<td>Ballet II</td>
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Creative Studio Studies

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<td>DAA 4702</td>
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<tr>
<td>DAA 4703</td>
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<td>DAA 3480</td>
<td>Jr. Performance Project</td>
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<tr>
<td>DAA 3480</td>
<td>Performance</td>
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</tr>
<tr>
<td>DAA 4790</td>
<td>Sr. Choreographic Project</td>
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Dance Theory

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<tr>
<td>DAN 2611</td>
<td>Music for Dance</td>
<td>2</td>
</tr>
<tr>
<td>DAN 4111</td>
<td>Survey Dance History</td>
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</tr>
<tr>
<td>DAA 4112</td>
<td>19 &amp; 20th Century Dance History</td>
<td>3</td>
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Ballet Emphasis

Studio Technique

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<tr>
<td>DAA 4206</td>
<td>Ballet IV</td>
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<td>DAA 3220</td>
<td>Ballet Variations</td>
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<td>DAA 3105</td>
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Creative Studio Studies

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<tr>
<td>DAA 4790</td>
<td>Sr. Choreographic Project</td>
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DANCE EDUCATION CONCENTRATION

The Dance Education Curriculum is designed for students who wish to develop a high level of expertise in dance and have a commitment to the development of individual potential in others. The Curriculum is designed to meet the requirements for certification in Dance Education K-12 in the State of Florida. Admission to Dance Education is contingent upon application to the program, successful audition in both Ballet and Modern Dance Technique, and acceptable academic standards (See University Requirements. Note: Students on academic appeal/or probation may not be considered for Dance Education Specialization until successful completion of their Sophomore year.)

Dance Education Students are expected to maintain a 3.0 in all Dance Major courses and an overall 2.5 GPA to be admitted to the College of Education/Professional Preparation Courses of Study. (See Special requirements for admission and internship established by the College of Education.) Students are expected to maintain this grade point average through the completion of the Internship in Dance Education.

In order to be admitted to Dance Education Specialization, students must participate in a selective admissions procedure. Enrollment in the program is limited and students can only enter during Semester I each year.

In addition to applying to the University, students must also apply directly to the Department of Dance before March 1 for priority admission consideration. Students applying after May 1 will be accepted only on a space available basis. Requests for admission to the Dance Education Specialization should be directed to:

Dr. Timothy Wilson, Chairman
Department of Dance
College of Fine Arts
University of South Florida
4202 E. Fowler Ave. FAD 204
Tampa, FL 33620

Studio Technique

(16 Semester hours minimum)

Note: Of the 12 hours in Ballet and Modern Dance, 6 hours must be in Ballet; 6 hours must be in Modern Dance; and at least 3 of these hours must be at the 3000 or 4000 level. Based on the
<table>
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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
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<tbody>
<tr>
<td>DAA 2204</td>
<td>Ballet II</td>
<td>3</td>
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<td>DAA 3205</td>
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<td>8</td>
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<td>DAA 4206</td>
<td>Ballet IV</td>
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<td>DAA 2104</td>
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<tr>
<td>DAA 4106</td>
<td>Modern IV</td>
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</table>

**Additional Required Studio Technique Courses Include:**
- DAA 3502 Jazz II
- DAA 4930 Survey Ethnic/Folk Dance

**Creative Studio Studies**
- DAA 2704 Dance Improvisation
- DAA 3700 Choreography I
- DAA 3701 Choreography II
- DAA 4702 Choreography III
- DAA 4703 Choreography IV
- DAA 3480 Jr. Performance Project
- DAA 3480 Performance

**Dance Theory**
- DAA 4930 Seminar: Dance as an Art Form
- DAN 2611 Music for Dance
- DAN 4930 Dance Kinesiology
- DAN 3800 Movement Analysis
- DAN 4111 Survey History of Dance
- DAN 4112 19th & 20th Century Dance History
- TPA 2223 Theatrical Lighting

**Professional Preparation**
- EDF 3604 Sociological Foundation/ Education
- OR EDF 3542 Philosophy of Education
- OR EDF 3122 Learning and the Developing Child
- EDG 4620 Curriculum & Instruction
- EDF 4430 Measurement for Teachers
- EEX 3010 Introduction to Special Education
- DAE 4300 Dance Pedagogy: Secondary Curriculum and Methods
- DAE 4300 Dance Pedagogy: Pre-K and Elementary Methods
- DAE 4942 Internship in Dance
- DAE 4176 Seminar in Dance Education

**Dance Minor Program**
- A minimum of 20 hours is required for a dance minor. Five hours must be in DANCE courses. Ten of the 20 hours must be upper level (3000 and 4000) courses. Studio Dance courses can be repeated only once toward minor degree.

**Courses for lower level**
- Select from:
  - Theatre Dance Styles
  - Introduction to Dance - 6A
  - Fundamentals of Modern Dance I
  - Modern Dance II
  - Fundamentals of Ballet I
  - Ballet II
  - Fundamentals of Jazz Dance
  - Music for Dance I
  - Music for Dance II
  - Dance Improvisation

**Courses for Upper Level (minimum of 10 hours required)**
- Select from:
  - Movement Theory & Body Alignment
  - Modern Dance III
  - Ballet III
  - Ballet Variations
  1. Pointe Class
  2. Men's Class
  3. Character Dance

**Department Policy For Academic Progress**
- Among elective hours, 6 credit hours of dance electives may apply toward the Dance Degree. 9 elective hours must be taken outside of the Dance Department. Of the 6 hour Special College of Fine Arts requirement TPA 2223 may count as 3 of those hours.
- Junior dance majors are required to perform in a work created by one of the Seniors. Senior dance majors are required to choreograph a group work and choreograph and/or perform a solo in fulfillment of the requirement for Senior Choreographic Project. Senior Project is designed to occur over two semesters.
- Entrance to all major technique courses is by faculty audition. Until the student is accepted into Modern Dance III or Ballet III he/she will be considered as a probationary dance major. DAA 2104 or DAA 2204 may be repeated only once for credit toward degree requirements.
- Prospective majors must contact the dance department to arrange for an audition prior to registration.

**Critiques**
1. All students will be evaluated periodically at faculty sessions as well as critiqued each semester, majors will be advised accordingly.
2. If a student evidences deficiency on some area or on continuing progress toward the degree, the student may be placed on probation within the department.
3. Failure to make satisfactory progress after being placed on probation the following semester shall constitute grounds for Departmental recommendation to drop and discontinue the major.

**Minimum Grade for Dance Courses**
A student must receive a "C" grade or better in required major courses. Should a student fail to do so, the course(s) in which the student received a "D" or "F" must be repeated and a "C" grade or better earned.

**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. A less-than-satisfactory 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 are:
1. Adequate technical skill and adaptability.
2. Evidence of creative potential.
3. "B" average in major studio classes.
4. Good health which includes adequate control of body weight.
- Class probation and department probation require review, i.e., reinstatement in good standing or recommendation to drop major.
- A dance major is expected to keep his/her weight at a level that is aesthetically acceptable for classroom training and all performances.
For other non-major requirements see both Fine Arts College requirements and the University's General Distribution and graduation requirements.

**Visiting Artists and Artists-in-Residence**

By supplementing its excellent ongoing regular staff-instructed dance curriculum with other professional resources made available through the Visiting Artist and Artist-in-Residence programs, the Dance department provides for dance students an overall dynamic program for practice, study and learning.

**MUSIC (MUS)**

The B.M. Degree (Performance, Composition and Jazz Studies):

The music curriculum is designed for students gifted in the performance and/or composition of music. Candidates for a major in music must complete the Music History-Literature requirements; (2) pass an appropriate recital or composition examination; (3) present a complete record of satisfactory recital or composition attendance for three years; (4) present a record of satisfactory recital or composition attendance for two years; (5) present a complete record of satisfactory recital or composition attendance for one year.

Students must have a minimum of 32 credit hours to complete the music major in applied music for a major in music major.

**General Requirements:**

All students seeking a Bachelor of Music degree are required to (1) complete the music history-literature requirements; (2) attend at least one full recital during the junior year; (3) present a record of satisfactory recital or composition attendance for two years; (4) present a record of satisfactory recital or composition attendance for one year.

**Core Requirements for all Performance, and Composition Concentrations (48-52 semester hours minimum):**

- **Music Theory (22)**
  - MUT 1111 (3)
  - MUT 1112 (3)
  - MUT 1241 (1)
  - MUT 1242 (1)
- **Music Literature (3)**
  - MUL 2111 (3)
- **Music History (8)**
  - MUH 3301 (3)
  - MUH 3300 (2)
- **Conducting (2)**
  - MUG 3101

- **Senior Seminar (1)**
  - MUS 4935 (1)

**Ensemble**

- **Performance Majors (8), Composition (8)**
  - All undergraduate students enrolled in applied music for 4 or 2 credit hours are required to be enrolled in a major ensemble appropriate to their performing medium.

**Music Electives**

- **Performance**
  - Piano Pedagogy
  - Composition
  - Fine Arts Requirement

**Core Requirements for Jazz Studies Performance and Jazz Studies Composition Concentrations (54-58 semester hours minimum):**

- **Music Theory (26)**
  - MUT 1111 (3)
  - MUT 1112 (3)
  - MUT 1241 (1)
  - MUT 1242 (1)
  - MUT 4571 (3)
- **Music Literature (3)**
  - MUL 2111 (3)
- **Music History (9)**
  - MUH 3301 (3)
  - MUH 3300 (2)
  - MUH 4801 (3)
- **Conducting (2)**
  - MUG 3101
- **Senior Seminar (1)**
  - MUS 4935 (1)

**Elective Hours in Music (9)**

- **Performance (8)**
  - Composition (8)

All students enrolled in applied music for 4 or 2 credit hours are required to enroll in a major ensemble appropriate to their performing medium.

**Additional Requirements for Specific Concentrations:**

**Performance Concentration**

A total of 32 credit hours of applied music is required with a minimum of 8 hours to be completed at the 400 level and concurrent registration in MUS 2010 (Recital Attendance).

Performance majors in voice must enroll for MUS 3201 for a total of 3 credits and MUO 3501 for 2 credits. Additionally, there is a program exit requirement of earned credit or the equivalent in beginning French, German, and Italian languages.

Performance majors in piano are required to enroll in MUS 4640 for 4 credits.

The following requirements for the piano pedagogy emphasis are in addition to the above performance concentration requirements:

- **Piano Pedagogy (8)**

Performance majors in voice must enroll for MUS 3201 for a total of 3 credits and MUO 3501 for 2 credits. Additionally, there is a program exit requirement of earned credit or the equivalent in beginning French, German, and Italian languages.

Performance majors in piano are required to enroll in MUS 4640 for 4 credits.

The following requirements for the piano pedagogy emphasis are in addition to the above performance concentration requirements:

- **Piano Pedagogy (8)**
  - MUS 4640 (4)
  - MUS 4641 (4)

Junior and senior recital requirements may be fulfilled in one of the following ways: (1) lecture/recital, (2) ensemble performance, (3) recital.

**Jazz Studies Concentration**

**Performance Emphasis**

The following courses are required in addition to the core requirements:

- **Jazz Studies Concentration**
  - MUS 3663 (2)
  - MUS 3664 (2)

Applied music majors are required to enroll for 4 credits in the corresponding double bass or classical guitar applied music lessons in addition to the major applied studies.

Jazz piano proficiency
Composition Emphasis
The following courses are required in addition to the core requirements:
MUC 3231 (6)  MUC 2221 (6)
MUC 4203 (3)  MUC 4204 (3)
Elective Composition (6)
Applied music (principal) with a minimum of 4 hours at the 2000 level (min. of 8 hrs.)
In addition to the principal applied music study, Jazz Bass and Jazz Guitar majors are required to enroll for 2 credits in the corresponding double bass or classical guitar applied music lessons in addition to the principal applied studies.
Jazz piano proficiency

Composition Concentration
(72 semester hours minimum)
All students seeking a degree in music with a composition concentration are required to fulfill the senior composition requirements (with the approval of the entire composition faculty) in one of the following ways; (a) a complete public performance of works by the student composer, (b) the public performance of several compositions in various concerts throughout the composer's senior year, (c) the formal presentation to the composition faculty of an extensive portfolio of compositions plus the public performance of at least one of these works during the senior year, or (d) in other ways designated by the composition faculty.

Ensemble (8)
All undergraduate students enrolled in applied music for 2 credit hours are required to be enrolled concurrently in a major ensemble appropriate to their performing medium.

Applied Music (Principal) (8)
A minimum of 8 credit hours of applied music is required with a minimum of 4 credit hours at the 2000 level and concurrent registration in MUS 2010 (recital attendance).

Composition Course (30 credit hours)
Undergraduates concentrating in composition must complete a minimum of 24 credit hours from the following sequence of courses including MUC 3402, and at least one semester of MUC 4204, satisfying all necessary prerequisites for all courses:
MUC 2221 (3,3)  MUC 3401 (3)  MUC 4311 (2)
MUC 3231 (3,3)  MUC 3402 (3)  MUC 4312 (2)
MUC 4241 (3)

One credit hour is required from:
MUC 2301 (2)  MUC 3601 (3)  MUC 4401 (3)
MUC 3441 (3)  MUC 3602 (3)  MUC 4501 (2)
MUC 3442 (3)  MUC 4403 (3)  MUC 3353 (3)

For other degree requirements see College of Education requirements and the University's General Education and graduation requirements.

MUSIC EDUCATION
Requirements for the B.S. Degree (MUE):
The music education curriculum is designed to serve students who wish to develop a high level of musical expertise and have a commitment to help develop similar musical potential in other people.

All students seeking a degree in music education are required to pass an audition in their respective performance area and to take a music theory placement test prior to registering for any music theory class. Students may obtain the dates for these examinations from the music office.

Special requirements for all music education majors: successful completion of the piano proficiency requirements as defined by the music and music education faculties; participation in a major performing ensemble each semester the student is enrolled in applied music; and the presentation of a one-half hour recital in the major performing medium during the last semester of enrollment in applied music.

Students are to present a record of satisfactory recital attendance through registration in MUS 2010 (see the specific requirements for MUS 2010 as set by the music faculty).

For other degree requirements see College of Education requirements and the University's General Education and graduation requirements.

Note exceptions applicable to this program.

1. Instrumental Specialization (72 cr. hrs.)
   Music Education courses (20 cr. hrs.)
   MUE 2090 (2)  MUE 3450 (1)*  MUE 4311 (3)
   MUE 3421 (1)  MUE 3451 (1)  MUE 4321 (2)
   MUE 3422 (1,1)  MUE 3460 (1)**  MUE 4332 (3)
   MUE 3423 (1,1)  MUE 3461 (1)  MUE 4480 (2)
   * Not required of woodwind majors
   ** Not required of brass majors

   Music courses (min. 52 cr. hrs.)
   MUS 2111 (3)  MUS 2117 (3)  MUS 1112 (3)
   MUS 2245 (1)  MUS 3301 (3)  MUS 1241 (1)
   MUS 2247 (1)  MUS 3302 (3)  MUS 1242 (1)
   MUS 2111 (3)  MUS 3101 (2)  MUS 2116 (3)
   MUS 3300 (2) or MUS 4058 (3) or MUS 4801 (3)
   Applied Music (Principal) 12 cr. hrs. with a minimum of 4 hours at the 3000 level and concurrent registration in MUS 2010.
   Music electives (2)

   Applied Music Secondary Techniques - (3 cr. hrs.)
   (One each: string, percussion, voice)
   Major performing ensembles
   (Minimum of one per semester of applied music - 6 cr. hrs.)
   Graduating recital
   Piano proficiency requirement

   Other Fine Arts Requirement selected from Art, Dance, Theatre (min. 3 cr. hrs. to be selected from one or more of the other departments of the College of Fine Arts)

2. Vocal Specialization (72 cr. hrs.)
   Music Education courses (16 cr. hrs.)
   MUE 2090 (2)  MUE 3423 (1)  MUE 4352 (2)
   MUE 3421 (1,1)  MUE 3450 (1) or 3451 (1)*
   MUE 3422 (1)  MUE 3460 (1) or 3461 (1)*
   MUE 4331 (3)  MUE 4311 (3)
   One hour courses must be repeated to achieve 16 cr. hrs.
   *As determined by audition.
   Music courses (min. 56 cr. hrs.)
   MUE 1111 (3)  MUE 2116 (3)  MUE 2111 (3)
   MUE 1112 (3)  MUE 2117 (3)  MUE 3300 (2)
   MUE 1241 (1)  MUE 2246 (1)  MUE 3301 (3)
   MUE 1242 (1)  MUE 2247 (1)  MUE 3302 (3)
   MUS 3101 (2)
   Applied Music (Principal) 12 cr. hrs. through with a minimum of 4 hours at the 3000 level and concurrent registration in MUS 2010.
   Applied Music Secondary Techniques (2 cr. hrs.)
   (one each: string, percussion)
   Major Ensembles
   (Minimum of one per semester of applied music - 6 cr. hrs.)
   Music Electives (7)
   Piano proficiency requirement
   Graduating recital
   Other Fine Arts Requirement
   Art, Dance, Theatre (min. 3 cr. hrs. to be selected from one or more of the other departments of the College of Fine Arts)

3. General Music Specialization (72 cr. hrs.)
   Music Education courses (16 cr. hrs.)
   MUE 3460 (1) or MUE 3461 (1)*
   MUE 3450 (1) or MUE 3451 (1)*
   MUE 2090 (2)
   MUE 3421 (1)  MUE 4311 (3)
   MUE 3422 (1)  MUE 4330 (3)
   MUE 3423 (1)  MUE 4352 (2)
   One hour practicum courses must be repeated to achieve 16 cr. hrs.
   *As determined by audition.
Music Association of Jazz Educators provide an important professional musicians and teachers. Student perform in professional music in Florida. such as the Ars Nova Quintet, the Metropolitan Arts Trio provide an important educational purpose. Repeated for credit as and/or permission of the instructor.

3. Admission to School of Fine Arts requires a minimum of one per semester of applied music - 6 cr. hrs. (one each: string, percussion, voice)

Major Ensembles
(minimum of one per semester of applied music - 6 cr. hrs.)

Major electives (7)

Piano proficiency requirement
Graduating recital

Other Fine Arts requirement

Art, Dance, Theatre (min. 3 cr. hrs. to be selected from one or more of the other departments of the College of Fine Arts)

Requirements for a Minor in Music (19-23 semester hour minimum)

Students seeking a minor in music may choose from three concentrations: (1) History-Theory-Literature, (2) Applied Medium, and (3) Composition. Each of the concentrations will include the same core curriculum consisting of 11 hours.

1. Core Curriculum:

Music Theory (8)

Introduction to Music Literature (3)

Music History (3)

2. Optional Concentrations:

a. History-Theory-Literature

Music History and/or Theory and/or Literature (7-8)

Music Ensemble (2)

b. Applied Music (Principal)

Performance studio courses which may include up to 2 semester hours of class-studio (6-8)

Music Ensembles (2-4)

MUS 2010 Recital Attendance concurrent with applied music (principal) registration.

Faculty jury recommendations for sophomore-level studio study (minimum)

c. Composition

9 hours

Introduction to Electronic Music (2)

Composition studio courses which may include one course of orchestration (6)

Music Ensemble (1)

3. Admission

To all studio applied music courses is by audition and/or permission of the instructor. Studio courses may be repeated for credit as stipulated in the catalog.

The Faculty:

The music faculty is made up of outstanding musicians and scholars whose talents and achievements provide a unique educational resource for all music students. Faculty ensembles such as the Ars Nova Vacuum, the Faculty Jazz Quartet, and the Metropolitan Arts Trio provide an important musical contribution to campus and Tampa area cultural life, and many music faculty perform in professional music ensembles across west central Florida.

Student Organizations:

Sigma Alpha Iota, Phi Mu Alpha Sinfonia, and Pi Kappa Lambda honor society music organizations maintain active chapters in the School of Music. Additionally, the College Music Educators National Conference and the International Association of Jazz Educators provide an important liaison with other professional musicians and teachers.

Financial Aid:

A significant number of students studying in the School of Music qualify for some degree of financial assistance. Financial aid is offered on the basis of talent, academic promise, and need. Students awarded financial assistance from the School of Music need not pursue a degree in music, but must follow specific guidelines concerning the awarding of monetary assistance. These guidelines are available from the Director of the School of Music. Write to the School of Music for specific dates each year. In addition to general university and School of Music scholarships, there are a number of donated awards. Among these are the Dawn Zimmerman Flute Scholarship, Mary Corey Bogdonas Scholarship, and the Virginia A. Bridges Music Education Award.

Visiting Scholars, Artists, and Artists-in-Residence:

The School of Music utilizes guest composers, conductors, and performing musicians to enhance its offerings in terms of teaching faculty, forum appearances, and the conducting of musical programs, symposia, and clinics. Some prominent musicians who have appeared in the past are: Norman Dello Joio, Olly Wilson, Randall Thompson, Guarneri String Quartet, Virgil Thompson, Beaux Arts Trio, Walter Trampler, Boris Goldovsky, Fred Hemke, Gregg Smith, Lukas Foss, Norman Luboff, Maurice Andre, Phil Woods, Jean Pierre Rampal, David Baker, Adele Adson, John Cage, Byron Janis, Karel Husa, Louis Bottin, Leslie Baker, David Levine, Samuel Adler, Julius Baker, Gunther Schuller, Ransom Wilson, Robert Merrill, T. J. Anderson, Doc Severinsen, Hale Smith, Bethany Beardslee, George Russell, Robert Shaw, Art Blakey, Toshiko Akiyoshi, Andre Watts, Christopher Hogwood, Howard Gardner, Edwin Gordon, Peter Webster, Bennett Reimer, David Elliott, and Elliot Elisberg.

THEATRE (TAR)

The Department Major:

The Department of Theatre is fully accredited by the National Association of Schools of Theatre (NAST). Through its curriculum and production program, the Department of Theatre offers seriously interested students the opportunity to prepare themselves, 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 who have used what they have learned from us and with us in theatre, film, television, and a variety of other careers.

The department'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, design, or theatre education. Computer assisted design (CAD), playwriting, stage combat, circus skills, musical theatre, and puppetry are among the many electives available.

Special Features:

1. The endowed British International Theatre Program (BRIT) brings five or more professional artists from the UK to work with upper level students for 6-8 weeks each spring semester.

2. The John W. Holloway endowed chair in theatre and dance provides funds annually for guest artist residencies.

3. USF's Theatre Department has a formal student Exchange Program with Middlesex University in London, England.

4. The Theatre Department Honors Program selects a small group of upper division students to work on special projects with faculty and guest artists for up to one year.

Visiting Artists and Artists-in-Residence:

TheatreUSF actively promotes guests on campus. A representative list of artists from the last ten years includes: Abel and Gordon, Peter Barkworth, Daniel Chumley, Matthew Francis, George Froscher, Christopher Fry, John and Lisel Gale, Patrick Garland, Ronald Harwood, Jeff Jones, Sam Mendes, Bob Moody, Eric Overmyer, Louise Page, Estelle Parsons, Olga
Requirements for the B.A. Degree with a major in Theatre:

Of the total 120 credit hours needed for graduation in the Performance, Design, or Theatre Arts areas, the student following the Performance area must take a minimum of 54 credit hours, and the student following the Design area or Theatre Arts area must take a minimum of 55 credit hours within the Department of Theatre. In addition, a maximum of 7 credit hours (Performance) and a maximum of 6 credit hours (Design or Theatre Arts) may apply to the theatre electives area. Of the 143-155 total credit hours needed for graduation in the Theatre Education area, the student must take a minimum of 55 credit hours within the Department of Theatre and a minimum of 37-39 credit hours within the College of Education.

The student may choose one of four areas for the B.A. degree: Performance, Design, Theatre Arts, or Theatre Education. Common to all is the following core:

Core Curriculum (35 hours)

First Year (11 credit hours)
THE 2020 Theatre Fundamentals
TPA 2200 Theatre Crafts: Stagecraft
TPP 2110 Voice-Body Improvisation
Choice of one:
TPA 2223 Theatre Crafts: Lighting
TPA 2232 Theatre Crafts: Costume

Second Year (10 credit hours)
THE 3100 Theatre History - XMW
TPA 3004 Means of Visual Expression
TPP 3111 Workshop for Text Analysis

Third Year (8 credit hours)
Choice of two:
THE 4320 Theatre of Myth and Ritual - XMW
THE 4330 Shakespeare for the Theatre - XMW - XLW
THE 4360 19th Century Theatre Revolution - XLW
THE 4401 O'Neill and After - XMW
THE 4435 Theatre of Pluralism - 6A - XMW
THE 4442 Comedy of the Classic and Neo-Classic - XLW
THE 4480 Drama - Special Topics
THE 4180 Theatre Origins (XMW) may substitute as a second literature course.

Fourth Year (6 credit hours)
Choice of one:
THE 4180 Theatre Origins - XMW
THE 4562 Contemporary Performance Theory - XMW
plus 2 credits of THE 3925 for Pl

Production Involvements: All Theatre Majors must complete 4 Pl's (Production involvements) as part of their graduation requirements. Pl's must be taken under THE 3925 Production Involvement and/or THE 4927 Advanced Production Involvement for a total of 4 Pl's. Students may register for Pl credit beginning in the second semester of the Sophomore year upon completion of 45 credit hours and are expected to register each consecutive semester until completion of the four involvements. Pl assignments are made by faculty committee following the student's completion of a Pl request form and registration in the course. Pl guidelines and request forms are available in the Theatre Office.

Audition and Portfolio Review: All students desiring admittance into the Scene Study course must audition and those entering the upper level design sequence must present a portfolio. This normally occurs after the completion of the sophomore year.

Required Course for Areas of Study:

Performance Area
(54 hours minimum with core) - 19 hours as follows:
Third Year (10 credit hours)
TPP 3500 Body Disciplines
TPP 3790 Voice Preparation
TPP 4150 Scene Study I
TPP 4152 Scene Study II

Fourth Year (9 credit hours)
TPP 4140 Styles of Acting
TPP 4180 Advanced Scene Study
TPP 4920 Senior Workshop for Actors

Design Area
(55 hours minimum with core) - 20 hours Theatre, 4 hours Art as follows:
Second Year (3 credit hours)
Complete Theatre Crafts sequence with TPA 2223 Lighting or TPA 2232 Costume
ART 3301C Drawing I

required in the Theatre Design Area, recommended to be taken upon completion of prerequisite TPA 3004 Means of Visual Expression

Third Year (9 credit hours)
TPA 4168 Stagecraft and Drafting
Choice of two depending on design concentration:
TPA 3221 Lighting: Theory and Practice
THE 4264 History of Costume
THE 4266 Architecture and Decor

Fourth Year (8 credit hours)
Choice of 2 depending on design area:
TPA 4020 Light Design
TPA 4040 Costume Design
TPA 4080 Scene Design

Theatre Arts Area
(55 hours minimum with core) - 20 hours as follows:
Two credit hours from any of the Performance sequence of courses (TPP) plus eighteen hours to be selected from the Theatre Department's course offerings.

Theatre Education Area
Completion of the Theatre Education concentration certifies students to teach in Florida, grades K-12. In addition to Department of Theatre requirements, students must meet the College of Education's upper level entrance requirements and complete 37-39 credit hours in Education.
Theatre Courses:  
(54 hours minimum with core) - 20 hours as follows:  
Choice of one:  
TPP 4230 Laboratory Workshop in Performance  
TPP 4150 Scene Study  
and  
TPP 4310 Directing I  
plus fourteen hours to be selected from the Theatre Department's course offerings in consultation with the Theatre Department Advisor  
Education Courses:  
37-39 hours minimum as follows:  
Foundations:  
EDF 3214 Human Development and Learning  
EDF 3604 Social Foundations of Education  
or  
EDF 3542 Philosophy of Education  
EDG 4620 Curriculum and Instruction  
EDF 4430 Measurement for Teachers  
EEX 4070 Integrating Exceptional Students in the Regular Classroom  
EME 4402 Introduction to Computers in Education  
Special Methods:  
EDG 4320 Introduction to Creative Drama  
THE 4761 Methods of Teaching Theatre for Adolescents  
THE 4723 Theatre for Pre-Secondary Schools: Performance Process  
or  
THE 4722 Theatre for Pre-Secondary Schools: Production Process  
Practice Experience:  
EDG 4940 Internship  
EDG 4936 Seminar  
Requirement for a Minor in Theatre  
(23 hours minimum):  
THE 2020 Theatre Fundamentals  
TPA 2200 Theatre Crafts: Stagecraft  
TPP 2110 Voice-Body Improvisation  
THE 3925 Production Involvement  
THE 4927 Advanced Production Involvement  
Choice of one:  
TPA 2223 Theatre Crafts: Lighting  
TPA 2232 Theatre Crafts: Costume  
The remaining 10 hours are to be selected by the student with the advice of the theatre advisor. At least 9 hours must be upper level courses. The Theatre Advisor will be available to assist the student in developing a course of study that will meet the needs of the individual student.  
Students desiring admittance into the Scene Study sequence must audition and those entering the upper level Design sequence must have a portfolio review.  
All Theatre Minors must complete 2 PI's (Production Involvement) as part of their graduation requirements. PI's must be taken under THE 3925-Performance 1 credit and/or THE 4927 - Advanced Performance 1 credit hour for a total of two (2) hours. Students may register for PI credit in the second semester of the Sophomore year upon completion of 45 credit hours and are expected to register each consecutive semester until completion of two involvements.  
HONORS PROGRAM  
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 and or scholarly achievement. A 6-8 credit one-year sequence of courses is offered to student accepted into the Honors Program. The sequence progresses from a reading seminar to a guest artist practicum to a student thesis or project.  
THE 4593 2 credit hours  
THE 4594 3 credit hours  
THE 4595 1-3 credit hours  
Guest artists have been working professionals from New York, San Francisco, Denver, Los Angeles, Munich, London, Tel Aviv.  
British International Theatre Program (BRIT)  
The BRIT Program is available each spring semester to 16 advanced theatre students by audition. The program consists of master classes and/or production experience with select guest artists from the U.K. Advanced scene study students are eligible for tuition remission for the three credit BRIT Program course.
NEW COLLEGE OF USF
UNIVERSITY OF SOUTH FLORIDA - 1996/97 UNDERGRADUATE CATALOG

New College of the University of South Florida, located on USF's Sarasota campus, is a distinguished residential college that serves as the honors college of the State University System. It offers a nationally recognized liberal arts education at regular state tuition rates.

The New College student/faculty ratio is approximately 11:1; ninety-four percent of the faculty hold earned doctorates. Students work closely with faculty members in small classes, tutorials, and on individual projects.

Admission criteria are highly selective. New College looks for students who have demonstrated above average ability, academic motivation and self-discipline. About half the students are from Florida.

New College offers students a level of faculty support and facilities for study generally found only at very expensive private colleges. This is possible because the gap between public funding and the actual cost of a New College education is closed by annual grants to the University from the New College Foundation. The Foundation also raises substantial scholarship funds for meritorious students.

Educational Program

The New College degree is awarded for intensive, individualized study in the liberal arts and sciences. Classes, tutorials and independent study projects are tools the student, with faculty guidance, uses to discover and pursue intellectual and career interests. Study at New College culminates in a senior thesis and baccalaureate examination in the student's chosen area of concentration.

New College offers excellent academic facilities. A $5.1 million library opened on the campus in 1986, housing a collection presently numbered at over 200,000 volumes. The library is linked through inter-library loan to the USF system of over one million volumes, and to a network of thousands of other libraries. It also subscribes to computerized data bases that extend its reach beyond the region. The New College Natural Sciences laboratories, open to students around the clock, feature many research-grade instruments, including a scanning electron microscope. The college has special access to significant biologic and research sites in the Sarasota area. Open-use computer labs are supplemented by dedicated computers in various disciplines.

Campus-based studies can be supplemented by off-campus field research and internships, and by study abroad. New College participates in the Florida State University Study Centers in London and Florence, as well as in other programs, and has an exchange program with the University of Newcastle.

Areas of Study

All studies at New College lead to the Bachelor of Arts. Students may concentrate in a specific discipline or they may design, with faculty approval, an interdisciplinary concentration. The faculty offers the following areas of study: Anthropology, Art History, Biology, Chemistry, Classics, Computer Science, Economics, Environmental Studies, Fine Arts, History, Languages, Literature, Mathematics, Medieval & Renaissance Studies, Music, Philosophy, Physics, Political Science, Psychology, Public Policy, Religion, Sociology, Urban Studies.

Elementary through advanced studies in French, German, Russian, Spanish, Latin and Greek language and literature are available.

Study at New College leads to a wide range of careers. Graduates from New College go to medical, dental and law school. A large number do graduate work in the arts and sciences, leading to teaching, research and careers in government and industry. Others obtain advanced degrees in business, education, religion and architecture. Those not going on for advanced degrees have launched successful careers in journalism, fine arts, business consulting, management, finance, government planning and a host of other fields. Quite a few have become entrepreneurs, founding businesses of their own based on skills acquired while students.

Academic Calendar and Residence Requirements

The New College calendar consists of two 15-week semesters and a four-week independent study period in January. Fall semester begins in late August and ends just before Christmas. Spring semester begins the first week in February and ends in late May. Enrollment at New College is full-time.

Students may complete the degree in seven semesters (three and one-half years) as a result of New College's longer academic year and the advanced nature of the program. Three Independent Study Projects are carried out during January and/or the summer recess. Students may register for up to two additional semesters if their academic programs require it; they may also take up to two semesters of academic leave during their tenure at New College without loss of scholarship support. By special petition and with summer study, exceptionally qualified students may complete the degree requirements in three years. All students must complete a senior thesis and pass a baccalaureate examination based primarily upon the senior thesis.

Transfer students may have the number of semesters required for graduation reduced through the awarding of transfer credit for college-level work done elsewhere. The maximum allowable transfer credit is equivalent to three semesters and one independent study project.

Admissions Requirements

New College actively seeks those students who will benefit most from the demanding academic program and flexible curriculum. The college looks for evidence of intellectual potential, strong academic preparation, self-motivation and initiative, tenacity, curiosity, and concern for others.

Applicants must submit a State University System application, New College supplementary application, official high school transcript, SAT or ACT scores, a graded research paper from an English or history class, teacher's recommendation, and counselor recommendation. Transfer applicants must also submit transcripts from all colleges or universities they have attended.

New College welcomes transfer applicants. A growing number of students come to New College from Florida's two-year community colleges.

New College tuition is the same as for other institutions within the State University System. Both need-based financial aid and achievement-based scholarships are available to New College students, and about 67% of the students receive some type of direct financial assistance. Students must apply for need-based aid and for USF scholarships. Achievement scholarships from the New College Foundation are awarded by the New College Admissions Office to those students the college believes will make an outstanding contribution to the New College community.

The New College Admissions Office processes applications on a rolling basis, with decisions beginning about January 15. The Free Application for Federal Student Aid should be completed and submitted as soon as possible after January 1.

Application forms and literature can be obtained from the New College Office of Admissions, 5700 N. Tamiami Trail, Sarasota, FL 34234. (813) 359-4289.

Student Life

New College is a residential college, with the majority of its students living on campus or in adjacent neighborhoods. All students attend full-time. Students are challenged to accept major responsibilities for the direction of their own affairs, including their social and extra-curricular activities. The Student Affairs Office, through its professional staff, is responsible for personal counseling, housing, health services, and other support services.

All first-year students live on campus and participate in the community dining plan. Upper-class students may choose college or non-college housing. A medical plan gives students access to a physician.
We recognize that we live in a pluralistic, multicultural world in which nurses value and protect individual rights and freedoms. Health care must be accessible to all persons in society. Nursing strives to provide affordable health care and preventive services in diverse environments.

We believe the discipline of nursing is an integral part of the system of higher education and is responsible for the development and dissemination of knowledge. Knowledge is developed through identification of models for systematic thought, development and testing of theories for nursing, and clinical research. With this knowledge, undergraduate students are prepared to enter into professional practice and graduate students into areas of specialized practice and research. The discipline disseminates knowledge through scholarly activities and is responsible for promoting and preserving the historic and philosophic foundation of the profession.

We believe that teaching and learning are interactive processes through which learners have the freedom and responsibility to learn and teachers have the freedom and responsibility to teach. Faculty help students identify their learning needs, design learning activities to meet those needs, and evaluate the outcomes. Learning is an active lifelong process of personal and professional growth, which all members of the discipline pursue to advance the art and science of nursing.

UNIVERSITY OF SOUTH FLORIDA - 1994/95 UNDERGRADUATE CATALOG

The College of Nursing is committed to the advancement of nursing and the promotion of health care services through its education, research, and public service. To fulfill this mission, the College offers a variety of programs designed to prepare nurses for professional practice. The College offers undergraduate, graduate, and continuing education programs.

We believe that professional nursing is a science and an art that provides holistic care aimed at assisting or empowering individuals, families, and communities to achieve health. Nursing is a discipline sanctioned by society that is responsive to societal needs.

We believe that nursing has and continues to build a body of scientific knowledge through systematic inquiry, creativity and critical thinking. This scientific knowledge promotes the science-driven and research-based nursing practice that influences practice, health care delivery and health policy. Nurses use a systematic approach to assess, plan, treat and evaluate health status within the physical, psychosocial, economic, and spiritual domains.

We believe that nurses interact with individuals, groups, families, and communities for the purposes of health promotion, education, disease prevention, illness care, and rehabilitation. Nurses assume multiple roles and act in collaboration with other health care disciplines to promote modification of the environment. We believe that environment encompasses all the internal and external influences affecting people. We acknowledge that we live in a world where global events can influence health locally.

We believe that the health of individuals, families, and communities is a perceived state which fluctuates throughout the lifespan. The perceptions of individuals, families, and communities influence their reactions to the environment that lead to actions which promote, maintain, or compromise health. Health care is a multidisciplinary, cultural, social, economic, political, environmental and technological force. Health care delivery is provided through the physiologic, psychosocial and spiritual domains. Health is the right of every individual and health care is the responsibility of society.

UNDERGRADUATE PROGRAM OBJECTIVES

UPON GRADUATION, GRADUATES WILL:

1. Use concepts, principles, theories, and models from the natural and social sciences; the arts and humanities; and the art and science of nursing to guide clinical practice.

2. Use clinical judgment as the basis for nursing practice in providing and coordinating care for individuals, families, and communities across the lifespan in health promotion, disease prevention, health restoration and rehabilitation.

3. Demonstrate understanding of the research process by applying clinical data and research findings to the implementation of care.

4. Interact with other health care professionals, clients and consumers as advocate, teacher, collaborator, communicator, manager, and professional leader to plan, provide, and evaluate essential health services for culturally diverse populations.

5. Examine the impact of health care policy on the health care delivery system within a variety of settings.

6. Practice within the legal ethical parameters of professional nursing.

7. Demonstrate the potential for leadership within the profession and health care delivery system.

8. Demonstrate accountable behavior in the professional nursing role.

Undergraduate Education in Nursing

The undergraduate program in nursing is a limited access upper division major at the University of South Florida. The program has 2 sequences: one for qualified basic students with no previous preparation in nursing and one for qualified registered nurse students who are graduates of an associate degree or diploma program in nursing. Applicants for either sequence must submit applications to both the University and the College of Nursing by the appropriate deadline dates.

Applications for admission to the University may be obtained by contacting the Office of Admissions, University of South Florida, Tampa, Florida 33620. Applications for the College of Nursing are available from USF College of Nursing, Office of Student Affairs, MDC Box 22, 12901 Bruce B. Downs Blvd., Tampa, Florida 33612.
Admission Requirements

In order to be considered for full admission to the college, the applicant must:
1. Submit an application to USF by the appropriate deadline.
2. Submit an application and all supporting materials, including official transcripts, to the College of Nursing by the appropriate deadline.
3. Maintain a minimum grade point average of 2.5 with a grade of "C" or better in each Liberal Arts course required for the major.
4. Complete prior to enrollment in the major all those Liberal Arts courses required for admission to the major.
5. Complete all Liberal Arts courses required for the major with no more than two (2) repeated courses and no more than one (1) repeat of any given course.
6. Complete the College Level Academic Skills Test (CLAST) and the writing and computation course requirements of 6A-10.30 (Gordon Rule).
7. Complete an approved cardiopulmonary resuscitation (BCLS) course prior to enrollment.
8. Provide evidence of computer literacy.
9. Provide evidence of current licensure in Florida if enrolling in the program as a registered nurse.
10. Provide evidence of recent work in nursing if enrolling in the program as a registered nurse.

In addition to the minimum requirements listed above, applicants will be evaluated on factors which are relevant to program completion and professional nursing practice: i.e., community service, student activities, and cumulative grade point average.

Those applicants with the highest total rankings are accepted in order until the quota is filled. As vacancies occur prior to the enrollment date, those next on the list are accepted to fill them. Enrollment of all students is contingent upon verification through official transcripts of satisfactory completion of all requirements for admission.

Conditional Admission Policy for Registered Nurses

RN students with 5 or less outstanding courses (Liberal Arts/Prerequisites) may be admitted conditionally to the College of Nursing. Students may enroll in the appropriate sequence of the following selected courses while completing these requirements. A contract to remove the deficiencies must be developed and signed by the student and academic advisor prior to enrollment in any nursing course. Nursing courses listed below are in the preferred sequence for enrollment:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 3113</td>
<td>Culture of Nursing</td>
</tr>
<tr>
<td>NUR 3114</td>
<td>Introduction to Clinical Judgement</td>
</tr>
<tr>
<td>NUR 3064C</td>
<td>Health Assessment Across the Life Span</td>
</tr>
<tr>
<td>NUR 4766</td>
<td>Critical Care</td>
</tr>
<tr>
<td>NUR 4765C</td>
<td>Rehabilitation Across the Life Span</td>
</tr>
<tr>
<td>NUR 3145</td>
<td>Pharmacology in Nursing Practice</td>
</tr>
<tr>
<td>NUR 3829</td>
<td>Ethical/Legal Aspects in Nursing and Health Care</td>
</tr>
<tr>
<td>NUR 4941</td>
<td>Culture in Nursing Practice</td>
</tr>
<tr>
<td>NUR 4165</td>
<td>Nursing Inquiry</td>
</tr>
<tr>
<td>NUR Electives</td>
<td>The following courses are restricted to fully admitted students: NUR 4636, NUR 4636L, NUR 4838, and NUR 4948L.</td>
</tr>
</tbody>
</table>

Specific Course Requirements

The College of Nursing requires certain courses within the Liberal Arts requirements for the natural, social and behavioral sciences, and mathematics. These requirements are outlined below. Suggested courses are also included. The student must: 1) earn a grade of "C" or better in each course, 2) repeat no course more than once, 3) repeat no more than two (2) courses. Courses taken at another institution will be evaluated.
individually on the basis of content. Students in Florida community colleges can obtain information about equivalent courses from their counselors or by contacting the College of Nursing Office of Student Affairs (813-974-2191). These requirements apply to freshman students admitted for Fall of 1994 and thereafter.

Specific Course Requirements
1. Mathematics/Quantitative Methods: completion of at least one course in mathematics that meets the Gordon Rule requirement and one course in statistics.
   a. Mathematics - one course in college level algebra must be completed with a grade of "C" or better. CLEP subject exams are acceptable.
   b. Statistics - one course in statistics must be completed with a grade of "C" or better. STA 3122
2. Natural Sciences: minimum of 16 semester credits (including anatomy, physiology, and microbiology). Each course taken toward meeting this requirement must have been completed with a grade of "C" or better. At least one course must include a laboratory or have a corequisite laboratory course.
   a. Chemistry - A maximum of 6 semester credits. Courses must include content in 1) principles of chemistry, 2) structure of matter, 3) atomic and molecular structure, 4) states of matter, 5) chemical formulas and nomenclature, 6) solutions, 7) chemical kinetics and equilibrium, 8) theory and practice of quantitative analysis, 9) organic chemistry. CHM 2030, 2031 CHM 2041, 2046 can be met with CLEP. "Chemistry sequence for non-science majors.
   b. Microbiology - one course. CLEP is not acceptable. APB 3110 or MCB 3030C. The ACT/PEP examination in microbiology is acceptable.
   c. Anatomy and Physiology - one course. A combined course in anatomy and physiology which is equivalent to BSC 3092 is acceptable or individual courses. The ACT/PEP examination in anatomy and physiology is acceptable.
   d. Nutrition - one course. College of Nursing Challenge Examination or University of Florida correspondence course are acceptable. HUN 2201.
3. Social Sciences
   a. Government - one course in government/policy. CLEP is acceptable. POS 2041, POS 2112, PAD 3003, POT 4204, POS 4424, SYO 4300.
   b. Psychology, Sociology and Economics - one course in each area. CLEP is acceptable.
   c. Human Growth and Development (Life Span) - Must include birth through aging process to death. HUS 4020, DEP 4005 or DEP 3103 and GEY 3000.

CLEP Examinations
In accordance with University policies, College Level Examination Program (CLEP) general and subject examinations may be taken in several areas. CLEP examinations must be taken according to the University or community college policies related to CLEP. The CLEP general examinations apply toward the distribution requirements at USF, and successful performance results in credit for all or all of the required areas. In addition, credit may be earned for a number of College of Nursing support courses, including: American Government POS 2041; English Composition ENC 1101, 1102; Economics ECO 2013; General Chemistry CHM 2030 and CHM 2031 or CHM 2041 and CHM 2046. Additional information may be obtained from the Office of Evaluation and Testing, University of South Florida.

ACT/PEP and College of Nursing Examinations
Successful completion of the following examination(s) can be used to fulfill course requirements as designated below:

1. College of Nursing - Nutrition Challenge Examinations: a total of 3 semester credits can be earned by any undergraduate student to meet the course requirement in nutrition. Information about the College examination in nutrition may be obtained by contacting the College of Nursing Office of Student Affairs, University of South Florida.
2. Registered nurses who are graduates of diploma programs may receive 30 semester general elective lower level credits through successful completion of the ACT/PEP examinations in nursing. These credits do not apply toward meeting the University requirement of 40 upper level credits, or toward meeting the requirements of the upper level nursing major. The credits earned by passing the ACT/PEP examinations in nursing apply only to the B.S. degree with a major in nursing offered by the College of Nursing.
3. Registered nurses who are graduates of Florida associate degree programs will receive up to 25 semester lower level credits for their previous nursing education. Graduates of other associate degree nursing programs may receive up to 25 credits after individual evaluation of their transcripts.
4. Both basic and registered nurse students may earn up to 6 semester credits and fulfill the college's requirement in anatomy and physiology through successful completion of the ACT/PEP examination in anatomy and physiology, and up to 3 credits in microbiology through successful completion of the ACT/PEP examination in microbiology. ACT/PEP examination information maybe obtained from the Office of Student Affairs, College of Nursing.

Degree Requirements
Students will be certified for the Bachelor of Science degree with a major in nursing upon completion of 124 semester hours comprised of Liberal Arts requirements, science support courses (natural, social/behavioral), upper level and nursing electives, and required nursing courses.
A minimum grade of "C" or better must be attained in each course in the major and cumulative grade point ratio of 2.0 or better must be maintained throughout the program. At least 40 semester hours must be upper level work (courses numbered 3000 or above). At least 60 semester hours must be earned from a baccalaureate-degree-granting institution regardless of credit hours transferred from a Community/Junior College unless the student has received prior written approval for waiver of this policy from the Academic Regulations Committee.

Nursing Courses - Basic Baccalaureate Sequence
Basic Baccalaureate students enrolled in the nursing major Fall 1995 and thereafter meet the following courses in the five semester sequence:

Junior Year (2 semesters)
NUR 3113 Culture of Nursing (2)
NUR 3114 Introduction to Clinical Judgement (3)
NUR 3114L Introduction to Clinical Practice (2)
NUR 3064C Health Assessment Across the Life Span (3)
NUR 3629 Ethical Legal (3)
NUR 3145 Pharmacology in Nursing Practice (2)
NUR 4035 Issues in Child Health I (3)
NUR 3215L Clinical Practice in Adult Health II (3)
NUR 3284C Gerontological Nursing (2)

Senior Year (3 semesters)
NUR 4216 Adult Health II (3)
NUR 4216L Clinical Practice in Adult Health II (3)
NUR 4041 Culture in Nursing Practice (2)
NUR 4616 Family Health (4)
NUR 4616L Clinical Practice in Family Health (3)
NUR 4636 Community Health (2)
NUR 4636L Clinical Practice in Community Health (2)
NUR 4185 Nursing Inquiry (2)
NUR 4765C Rehabilitation Across the Life Span (2)
NUR 4636 Leadership/Management (3)
In addition to the requirements listed above, a minimum of 10 credits in upper level electives will be required for graduation: at least six (6) credits in upper level courses in Liberal Arts (courses in arts, humanities, natural or behavioral sciences, economics, business or management, education, etc., are acceptable) and at least four (4) credits in nursing electives (NUR 4935, Selected Topics in Nursing, and/or NUR 4905C, Independent Study in Nursing, can be used in addition to regularly approved electives. Planning with an academic advisor prior to enrollment in upper-level electives is strongly recommended.

NUR 3113 Culture of Nursing (2)
NUR 3114 Introduction to Clinical Judgement (3)
NUR 4041 Culture in Nursing Practice (2)
NUR 4362 Community Health (2)
NUR 4364 Clinical Practice in Community Health (2)
NUR 4636 Nursing Inquiry (2)
NUR 4838 Leadership/Management (3)
NUR 4948L Preceptorship (3)
The College of Public Health began offering courses in 1984 and is fully accredited by the Council on Education for Public Health.

The primary aim of the College is to provide trained health professionals who can meet the pressing health needs of the State and nation. The College also serves as a State center for public health research and information. Often cited as a bellwether state, due in part to its diverse population, Florida serves as an excellent environment for studying current and emerging health care issues.

The field of public health is broad. It focuses upon the prevention of illness, the control of infectious and chronic diseases and the methods for providing care to targeted populations such as those faced with geographic, financial, cultural and other access barriers.

Public health is concerned with keeping health care costs down and finding cost-effective ways to deal with the medically indigent population. It serves to address environmental issues as they affect populations as well as health and safety in the workplace.

Despite this diversity, the common focus of public health education is on preventing disease and promoting health in populations.

The Department of Community and Family Health offers an accelerated entry program which enables qualified students to enter the Master of Public Health (MPH) degree program with a concentration in Public Health Education following the completion of 90 semester hours of undergraduate study (usually the end of the junior year). It is recommended that students enroll in undergraduate programs related to the field of public health. These programs include social sciences, natural sciences, behavioral sciences, pre-med, nursing, education, etc. Full-time students are able to complete graduate degree requirements in 2 to 2-1/2 years. Interested individuals are encouraged to contact a health education faculty advisor during the term in which they expect to complete 60 undergraduate semester hours.

The MPH is a professional, non-thesis degree. The course of study is designed to prepare professional health educators to develop, implement, manage and evaluate programs which focus on health promotion and disease prevention. Individual and public health issues encompass the interrelationships of social, behavioral, legal, medical and economic factors. Therefore, the program emphasizes a multidisciplinary approach of developing strategies for the efficient utilization of health services, the adoption of self-care practices, and the promotion of healthier lifestyles. Career opportunities are available in a variety of work settings including hospitals and ambulatory care facilities, health maintenance organizations, voluntary health agencies, public and private school systems, colleges and universities, local and state health agencies, private industry and international health organizations.

Students seeking admission to the MPH degree program must have completed 90 undergraduate semester hours, achieved at least a 3.0 GPA, or a combined verbal and quantitative score of at least 1000 on the GRE, and satisfied the CLAST and Rule 6A-10.3 requirements.

Undergraduate students seeking careers in public health including Health Administration and Management, Environmental Health, Industrial Hygiene, Safety Management, Health Education, Maternal and Child Health, Epidemiology and Biostatistics should refer to the USF Graduate Catalog in order to plan an undergraduate program that will meet the College of Public Health admission requirements for graduate work.

Students interested in these programs should contact the Office of Academics at the College of Public Health for specific information, 974-6665.
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA - 1996/97 UNDERGRADUATE CATALOG**

**NOTE:** The State Department of Education is charged with the development and coordination of a common course designation and numbering system for community colleges and the State University System which will improve program planning, increase communication among community colleges and universities, and facilitate the transfer of students. As part of this effort, changes will be made system-wide in course prerequisites, course levels, etc. These changes are not reflected in this catalog and will be implemented during the academic year. Students should check with the academic advising office in their college or regional campus, the Center for Academic Advising for undeclared majors, or the Office of the Dean of Undergraduate Education and Community College Relations for current information.

Courses offered for credit by the University of South Florida are listed on the following pages in alphabetical order by college and subject area.

The first line of each description includes the State Common Course prefix and number (see below), title of the course, and number of credits.

Credits separated by a colon indicate concurrent lecture and laboratory courses taught as a unit.

**PHY 3040, 3041L GENERAL PHYSICS & LABORATORY (3:1)**

Credits separated by commas indicate unified courses offered in different semesters.

**AMH 2010, 2020 AMERICAN HISTORY I, II (4,4)**

Credits separated by a hyphen indicate variable credit.

**HUM 4905 DIRECTED RESEARCH (1-5)**

The abbreviation "var." also indicates variable credit.

**MAT 7912 DIRECTED RESEARCH (var.)**

The following abbreviations are used in various course descriptions:

- PR: Prerequisite
- CI: With the consent of the instructor
- CC: With the consent of the chairperson of the department or program
- CR: Corequisite
- Lec.: Lecture
- Lab.: Laboratory
- Dem.: Demonstration
- Pro.: Problem
- Dis.: Discussion

**SPECIAL INFORMATION COURSE CODES**

**ED** Courses to satisfy Rule 6A-10.30 (Gordon Rule)

**EC** Course satisfies part of the Liberal Arts General Education Requirement for English Composition

**FA** Course satisfies part of the Liberal Arts General Education Requirement for Fine Arts

**HP** Course satisfies part of the Liberal Arts General Education Requirement for Historical Perspectives

**NS** Course satisfies part of the Liberal Arts General Education Requirement for Natural Sciences

**AF** Course satisfies part of the Liberal Arts General Education Requirement for African, Latin American, Middle Eastern, or Asian Perspectives

**QM** Course satisfies part of the Liberal Arts General Education Requirement for Qualitative Methods

**SS** Course satisfies part of the Liberal Arts General Education Requirement for Social Sciences

**XLW** Course satisfies part of the Liberal Arts Exit Requirement for Literature and Writing

**XMW** Course satisfies part of the Liberal Arts Exit Requirement for Major Works and Major Issues

The University reserves the right to substitute, not offer, or add courses that are listed in this catalog.

**Alphabetical Listing of Departments and Programs**

Course descriptions are listed by college under the following department and program headings:

<table>
<thead>
<tr>
<th>Department/Program</th>
<th>College</th>
</tr>
</thead>
<tbody>
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<td>Accounting</td>
<td>Business Administration</td>
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<tr>
<td>Administration</td>
<td>Education</td>
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<tr>
<td>Adult Education</td>
<td>Education</td>
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<tr>
<td>Africana Studies</td>
<td>Arts and Sciences</td>
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<tr>
<td>Air Force ROTC</td>
<td>University-wide Courses</td>
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<tr>
<td>American Studies</td>
<td>Arts and Sciences</td>
</tr>
<tr>
<td>Ancient Studies (Religious Studies)</td>
<td>Arts and Sciences</td>
</tr>
<tr>
<td>Anthropology</td>
<td>Arts and Sciences</td>
</tr>
<tr>
<td>Arabic (Language)</td>
<td>Arts and Sciences</td>
</tr>
<tr>
<td>Army ROTC</td>
<td>University-wide Courses</td>
</tr>
</tbody>
</table>

An alphabetical list of departments and programs is provided for easy reference.

**Art Education**

- Basic and Interdisciplinary Engineering
- Biology
- Botany
- Business and Office Education
- Chemistry
- Chemical Engineering
- Chinese (Language)
- Civil and Environmental Engineering
- Classics
- Common Body of Knowledge
- Communication
- Communication Science and Disorders
- Computers in Education
- Computer Science and Engineering
- Computer Science Courses
- Cooperative Education
- Content Specializations
- Counseling Education
- Criminology
- Curriculum and Instruction
- Dance
- Developmental and Adult Education
- Developmental Counseling
- Distinctive Areas of Study
- Economics
- Electrical Engineering
- Elementary Education
- Engineering Technology
- English
- English Education
- English Language Education
- Ethics
- Fine Arts Interdisciplinary Studies
- Foreign Language Education
- Foundations Education
- French (Language)
- General Business Administration
- General Foreign Languages
- General Studies
- Geochemistry
- Geography
- Geology
- Gerontology
- German (Language)
- Government & International Affairs
- Greek (Classics)
- Hebrew (Language)
- Higher Education
- Higher Mathematics
- History
- Honors Program
- Humanities
- Humanities Education
- Human Services
- Industrial and Management Systems
- Industrial/Technical Education
- Information Systems
- Information Systems & Decision Sciences
- Interdisciplinary Studies
- International Social Studies
- Italian (Classics)
- Japanese (Language)
- Language
- Latin (Classics)
- Liberal Studies
- Library, Media & Information Studies
- Linguistics
- Management
- Management Information Systems
- Management Science
- Marketing
- Mathematics
- Mathematics Education
- Mathematics and Statistics
- Microbiology
- Micromedia
- Military Science
- Minor
- Minor in Business Administration
- Minor in Management Information Systems
- Minor in Management Science
- Minor in Marketing
- Minor in Mathematics
- Minor in Mathematics Education
- Minor in Mathematics and Statistics
- Minor in Microbiology
- Minor in Micromedia
- Minor in Military Science
- Minor in Music
- Minor in Music Education
- Minor in Music Theory
- Minor in Music Performance
- Music Education
- Music Theory
- Music Performance
- Music
- Music Education
- Music Theory
- Music Performance

This completes the alphabetical listing of departments and programs.
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<tr>
<th>College/Department/Program</th>
<th>Common Course Prefixes</th>
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</thead>
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<td>Air Force ROTC</td>
<td>AFR</td>
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<tr>
<td>Architecture</td>
<td>ARC</td>
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<td>Cooperative Education</td>
<td>COE</td>
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<tr>
<td>Honors Program</td>
<td>IDH</td>
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<tr>
<td>Military Science (Army ROTC)</td>
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<td>Off-Campus Term</td>
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<tr>
<td>Public Health</td>
<td>HSC</td>
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<tr>
<td><strong>College of Arts and Sciences</strong></td>
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<td>Africana</td>
<td>AFA, AFH, AFS</td>
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<tr>
<td>American Studies</td>
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<td>Anthropology</td>
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<td>Latin</td>
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<td>Criminology</td>
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<table>
<thead>
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<td>ACG Accounting</td>
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<td>ADV Mass Communications</td>
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<tr>
<td>AFA Africana Studies, Women's Studies</td>
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<tr>
<td>AH Africana Studies, History</td>
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<tr>
<td>AFF Africana Studies, History</td>
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<tr>
<td>AFRO Air Force ROTC</td>
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<tr>
<td>AFSA Africana Studies, International Studies Program</td>
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<td>AMH African Studies, History</td>
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<td>AML English</td>
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<td>AMS American Studies, Women's Studies</td>
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<td>ANT Anthropology, Women's Studies</td>
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<td>APB Biology, Microbiology (Biology)</td>
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<td>ARA Arabic (Language)</td>
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<td>ARE Art Education, Content Specializations, Elementary Education</td>
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<td>ARH Art</td>
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<td>ASH History</td>
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<td>ASN International Studies Program</td>
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<td>AST Astronomy</td>
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<td>BCC Medicine</td>
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<tr>
<td>BCH Chemistry</td>
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<td>BOT Biology, Botany (Biology)</td>
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<td>BSC Biology</td>
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<td>BTE Business &amp; Office Education</td>
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<td>BUL General Business Administration</td>
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<tr>
<td>CAP Computer Service Courses, Computer Science &amp; Engineering, Mathematics Education, Computers in Education, Content Specializations</td>
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<tr>
<td>CBH Psychology</td>
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<td>CCJ Criminal Justice, Criminology</td>
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<td>CDA Computer Service Courses, Computer Science &amp; Engineering</td>
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<tr>
<td>CGN Civil &amp; Environmental Engineering</td>
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<td>CIS Computer Science &amp; Engineering</td>
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<tr>
<td>CHI Chinese</td>
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<tr>
<td>CJT Criminology</td>
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<td>CLA Ancient Studies (Religious Studies), Classics</td>
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<td>CLP Psychology</td>
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<td>CLT Classics</td>
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<td>COE Cooperative Education</td>
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<td>COM Communication</td>
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<td>COP Computer Service Courses, Computer Science &amp; Engineering, Library, Media &amp; Information Studies, Mathematics</td>
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<td>CRW English</td>
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<tr>
<td>CWR Civil &amp; Environmental Engineering</td>
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<td>DAA Dance, Physical Education Elective</td>
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<td>DAN Dance</td>
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<td>DEC Distributive &amp; Marketing Education</td>
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<td>DEP Psychology</td>
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<td>EAS Civil &amp; Environmental Engineering</td>
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<tr>
<td>ECI Civil &amp; Environmental Engineering</td>
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<tr>
<td>ECH Chemical and Mechanical Engineering</td>
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<td>ECP Economics</td>
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<td>ECS Economics</td>
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<tr>
<td>EDA Administration/Supervision</td>
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<tr>
<td>EDE Curriculum, Elementary Education</td>
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<tr>
<td>EDF Foundations, Measurement-Research, Computers in Education</td>
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<td>EDG Art Education, Curriculum, Communication-Speech Communication, Elementary Education, Special Education</td>
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<td>EDH Higher Education</td>
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<td>EES Civil &amp; Environmental Engineering</td>
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<td>EEX Special Education</td>
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<td>EGC Counselor Education, Rehabilitation Counseling</td>
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<td>EGI Special Education</td>
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EGM Civil & Environmental Engineering
EGN Basic & Interdisciplinary Engineering
EIA Industrial & Technical Education
EIN Industrial & Management Systems Engineering
EIV Industrial & Technical Education
ELD Special Education
ELR Electrical Engineering
EMA Civil & Environmental Engineering
EMC Chemical & Mechanical Engineering
EML Chemical & Mechanical Engineering
EMR Special Education
ENC English
ENG Computers in Education, Content Specializations
ENL English
ENS Linguistics
ENU Chemical & Mechanical Engineering
ENV Civil Engineering and Mechanics
ENY Zoology (Biology)
EPH Special Education
ES Certificate
ESI Industrial & Management Systems Engineering, Computer Science Engineering
ESL Linguistics
ETE Engineering Technology
ETG Engineering Technology
ETI Engineering Technology
EUE History
EUS International Studies Program
EVI Special Education
EVT Industrial/Technical Education
EXP Psychology
FIL Mass Communications
FIN Finance
FLE Content Specializations Foreign Language Education, French (Language)
FOL General Foreign Languages
FOW Romance (Language)
FRE French (Language)
FRW French (Language)
GEA Geography
GBE Common Body of Knowledge, Economics, General Business Administration, Information Systems & Decision Sciences
GEO Geography
GER German (Language)
GEM German (Language)
GEY Gerontology
GIA Government & International Affairs
GLY Geology
GMS Medical Sciences, Medicine
GRE Greek (Classics), Religious Studies
GRK Greek (Classics)
GRW Greek (Classics)
HBR Hebrew (Language)
HEB Ancient Studies (Religious Studies)
HES Content Specialization, Physical Education for Teachers, Public Health
HIS History
HLP Elementary Education
HSC Public Health
HUM Africana Studies, Humanities, Humanities Education
HUN Nursing
HUS Human Services, Gerontology
IDH Honors Program
IDS Fine Arts Interdisciplinary, Honors Program, Liberal Studies, Off-Campus Term
INP Psychology
INR Africana Studies, International Studies, Political Science
ISM Information Systems & Decision Sciences
ISS Africana Studies, International Studies Program, Interdisciplinary Social Sciences
ITA Italian (Language)
ITW Italian (Language)
JPN Japanese (Language)
JOU Mass Communications
LAE Curriculum, Elementary Education, English, English Education
LAH History
LAS International Studies Program
LAT Latin (Language)
LEI Physical Education for Teachers, Sociology
LIN Communication, English, Linguistics
LIS Library and Information Science
LIT English, Women's Studies
LNW Latin (Classics)
MAA Mathematics
MAC Mathematics
MAD Mathematics
MAE Content Specializations, Elementary Education, Mathematics, Mathematics Education
MAN Foundation Courses in Business (Graduate), General Business Administration, Management
MAP Mathematics
MAR Marketing
MAS Mathematics
MAT Mathematics
MCB Microbiology (Biology)
MEL Medicine
MET Geography
MGF Mathematics
MHF Mathematics
MIS Military Science
MLS Medical Technology
MMC Mass Communications
MTG Mathematics
MUC Music
MUE Elementary Education, Music Education
MUG Music
MUH Anthropology, Music
MUL Music
MUN Music
MUO Music
MUS Music
MUT Music
MVB Music
MVK Music
MVP Music
MSV Music
MVV Music
MVW Music
NGR Nursing
NUR Nursing
OCB Marine Science
OCC Marine Science
OCE Geology, Marine Science
OGC Marine Science
OGP Marine Science
ORI Communication
PAD Public Administration
PCB Biology, Marine Science, Microbiology (Biology), Zoology (Biology)
PEL Physical Education Elective
PEM Physical Education Elective
PEN Physical Education Elective
PEP Adult Education
PEQ Physical Education Elective, Physical Education for Teachers
PET Physical Education Elective, Physical Education for Teachers, Adult Education
PGY Mass Communications, American Studies, Art
PHH Philosophy
PHI Linguistics, Philosophy
PHM Africana Studies, Philosophy
PHP Philosophy
COURSE DESCRIPTIONS

PHS  Physics
PHY  Physics
PHZ  Physics
POL  Polish
POR  Portuguese (Language)
POS  Political Science, Women's Studies
POT  Political Science
POW  Portuguese (Language)
PPE  Psychology
PSB  Psychology
PSY  Psychology
PUP  Africana Studies, Political Science
PUR  Mass Communications
QMB  Information Systems & Decision Sciences, Management

REA  English
RED  Elementary Education, Reading Education
REE  Finance
REL  Religious Studies, Women's Studies
RMI  Finance
RSC  Rehabilitative Counseling
RTV  Mass Communications
RUS  Russian (Language)
RUT  Russian (Language)
RUW  Russian (Language)
SCE  Content Specializations, Elementary Education, Science Education
SED  Communication, Communication-Speech Communication, Speech Communication-English Education
       Content Specializations
SLS  Counselor Education
SOP  Psychology, Women's Studies
SOW  Human Services, Social Work
SPA  Communication Science & Disorders
SPC  Communication
SPN  Spanish (Language)
SPS  Foundations
SPT  Spanish (Language)
SPW  Spanish (Language)
SSE  Content Specialization, Elementary Education, Social Science Education
STA  Mathematics, Interdisciplinary Social Sciences
SUR  Civil & Environmental Engineering
SYA  Sociology
SYD  Sociology
SYG  Sociology
SYO  Sociology
SYP  Sociology
TAX  Accounting
THE  Theatre
TPA  Theatre
TPP  Theatre
TSL  Linguistics
TTE  Civil & Environmental Engineering
URF  Geography
URP  Political Science, Public Administration
VIC  Mass Communications
WOH  History
WST  History, International Studies Program, Women's Studies
YOR  Yoruba (Language)
ZOO  Biology, Marine Science, Zoology (Biology)

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 common numbering system is used by all public postsecondary institutions in Florida and by two participating private institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions.

Each participating institution controls the title, credit, and content of its own courses and assigns 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.

For any course prefix and each digit in the course number have meaning in the SCNS. The list of course prefixes and numbers, along with their generic titles, is referred to as the "SCNS taxonomy. Descriptions of the content of courses are referred to as "course equivalency profiles."

General Rule for Course Equivalencies: Equivalent courses at different institutions are identified by the same prefix and same last three digits of the course number. Courses at different institutions are guaranteed to be transferable between the participating institutions that offer the course, with a few exceptions. (Exceptions are listed below.)

For example, a survey course in social problems is offered by 31 different postsecondary institutions. Each institution uses "SYG 010" to identify its social problems course. The level code is the first digit and represents the year in which students normally take this course at a specific institution. In the SCNS taxonomy, "SYG" means "Sociology, General," the century digit "0" represents "Entry-Level General Sociology," the decade digit "1" represents "Survey Course," and the unit digit "0" represents "Social Problems."

In science and other areas, a "C" or "L" after the course number is known as a lab indicator. The "C" represents a combined lecture and laboratory course that meets in the same place at the same time. The "L" represents a laboratory course or the laboratory part of a course, having the same prefix and course number without a lab indicator, which meets at a different time or place.

When transfer of any successfully completed course from one participating institution to another is guaranteed in cases where the course to be transferred is offered by the receiving institution and is identified by the same prefix and last three digits at both institutions. For example, SYG 1010 is offered at a community college. The same course is offered at a state university as SYG 2010. A student who has successfully completed SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 2010 at the state university if the student transfers. The student cannot be required to take SYG 2010 again since SYG 1010 is equivalent to SYG 2010. Transfer credit must be awarded for successfully completed equivalent courses and not imposed by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed which have not been designated as equivalent.

Sometimes, as in Chemistry, a sequence of one or more courses must be completed at the same institution in order for the courses to be transferable to another institution, even if the course prefixes and numbers are the same. This information is contained in the individual SCNS course equivalency profiles for each course in the sequence.

COURSE PREFIX: The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather,

COURSE LEVEL DEFINITION

Lower 0000-1999 Freshman Level
Level 2000-2999 Sophomore Level
Upper 3000-3999 Junior Level
Level 4000-4999 Senior Level
Graduate 5000-5999 Senior/Graduate Level
Level 6000-Up Graduate Level
the content of a course determines the assigned prefix used to identify the course.

**Authority for Acceptance of Equivalent Courses:** State Board of Education Rule 6A-10.024(17), Florida Administrative Code, reads:

> When a student transfers among institutions that participate in the common course designation and numbering system, the receiving institution shall award credit for courses satisfactorily completed at the previous participating institutions when the courses are judged by the appropriate common course designation and numbering system faculty task forces to be equivalent to courses offered at the receiving institution and are entered in the course numbering system. Credit so awarded can be used by transfer students to satisfy requirements in these institutions on the same basis as native students.

**Exceptions to the General Rule for Equivalency:** The following courses are exceptions to the general rule for course equivalencies and may not be transferable. Transferability is at the discretion of the receiving institution:

<table>
<thead>
<tr>
<th>Exception</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>A.</td>
<td>Courses in the <em>900-999</em> series (e.g., ART 2905)</td>
</tr>
<tr>
<td>B.</td>
<td>Internships, practica, clinical experiences, and study abroad courses</td>
</tr>
<tr>
<td>C.</td>
<td>Performance or studio courses in Art, Dance, Theater, and Music</td>
</tr>
<tr>
<td>D.</td>
<td>Skills courses in Criminal Justice</td>
</tr>
<tr>
<td>E.</td>
<td>Graduate courses</td>
</tr>
</tbody>
</table>

College preparatory and vocational preparatory courses may not be used to meet degree requirements and are not transferable.

Questions about the SCNS and appeals regarding course credit transfer decisions should be directed to Office of the Dean, Undergraduate Education and Community College Relations, USF, SVC 2002, 4202 East Fowler Avenue, Tampa, FL 33620-6920, or the Florida Department of Education, Office of Postsecondary Education Coordination, 1101 Florida Education Center, Tallahassee, FL 32399-0400. Special reports and technical information may be requested by calling telephone number (904) 486-6402 or Suncom 278-6402.
UNIVERSITY-WIDE COURSES
UNIVERSITY OF SOUTH FLORIDA • 1996/97 UNDERGRADUATE CATALOG

COOPERATIVE EDUCATION

Academic Administrator: Ray Easterlin, Coordinator: Renée Borns.

AEROSPACE STUDIES
Professor: Lt Col Jan T. Kinner; Assistant Professors: Capt Michael H. DeMouly, Maj Jeffrey C. Randall, Maj James E. Tusing.

HONORS PROGRAM
Director: Stuart Silverman (Instructors for the Honors courses are recruited from among the University's outstanding teachers-scholars).

MILITARY SCIENCE
Professor: MAJ Debbie Nykyforchyn; Assistant Professors: MAJ Paul McCoy, CPT Gary Killbreath, CPT Alan Klyap, CPT James McFadden, MSG Kevin Bates, MSG Michael Jones, SSG Carl McMorris.

OFF-CAMPUS TERM
Director: D. Keith Lupton.

AEROSPACE STUDIES
AFR 1101 THE AIR FORCE TODAY: ORGANIZATION AND DOCTRINE (1)
Introduction to the Air Force in the contemporary world through a study of its total force structure and mission.

AFR 1120 THE AIR FORCE TODAY: STRUCTURE AND ROLES (1)
A study of the strategic offensive and defensive forces, general purpose forces, and aerospace support forces that make up the Air Force of today.

AFR 2001 LEADERSHIP LABORATORY (0)
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 2000 ENHANCED PHYSICAL FITNESS TRAINING (0)
Required of all students in AFR 2000-, 3000-, and 4000-level classes. It meets once per week for 1 and 1/2 hours. Concentrates on motivational physical fitness, healthy lifestyle and cadet espirit.

AFR 2130 U.S. AIR POWER: ASCENSION TO PROMINENCE (1)
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 U.S. AIR POWER: KEY TO DETERRENCE (1)
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 2150 FIELD TRAINING (0)
Field Training is offered during the summer months at selected Air Force bases throughout the United States. Students in the four-year program participate in four weeks of Field Training, usually between their sophomore and junior years. Students applying for entry into the two-year program must successfully complete six weeks of Field Training prior to enrollment in the Professional Officer Course (POC). The major areas of study in the Field Training program include junior officer training, aircraft and aircrew orientation, career orientation, survival training, base functions and Air Force environment, and physical training.

AFR 3220 AIR FORCE LEADERSHIP AND MANAGEMENT-I (3)
An integrated management course emphasizing the individual as a manager in an Air Force milieu. The individual motivational and behavioral processes, leadership, communication, and group dynamics are covered to provide a foundation for the development of the junior officer's professional skills as an Air Force officer (officership). The basic managerial processes involving decision making, utilization of analytic aids in planning, organizing, and controlling in a changing environment are emphasized as necessary professional concepts.

AFR 3231 AIR FORCE LEADERSHIP AND MANAGEMENT-II (3)
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 FORCES IN CONTEMPORARY AMERICAN SOCIETY I (3)
A study of the Armed Forces as an integral element of society, with an emphasis on American civil-military relations and context in which U.S. defense policy is formulated and implemented. Special themes include: societal attitudes toward the military and the role of the professional military leader-manager in a democratic society.

AFR 4211 NATIONAL SECURITY FORCES IN CONTEMPORARY AMERICAN SOCIETY II (3)
A continuation of the study of the Armed Forces in contemporary American society. Concentration is on the requisites for maintaining adequate national security forces; political, economic, and social constraints on the national defense structure; the impact of technological and international developments on strategic preparedness; the variables involved in the formulation and implementation of national security policy; and military justice and its relationship to civilian law.

ARCHITECTURE
ARC 4784 THE CITY - 6A-XMW (3)
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.

COOPERATIVE EDUCATION
IDS 3949 COOPERATIVE EDUCATION (0)
PR: 60 hours of academic credit, acceptance in Cooperative Education Program. (S/U only.)

HONORS PROGRAM
IDH 2100 ACQUISITION OF KNOWLEDGE (3)
PR: Admission into the Honors Program. 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 philosophic questions behind these operations.

IDH 3350 ARTS/HUMANITIES HONORS (3)
PR: IDH 2100. An introduction to western arts and letters from the perspectives of three period's terms (classicism, romanticism, and modernism), the relationship of ideas to art, the similarities among the arts of a given period, and important differences between periods.

IDH 3350 NATURAL SCIENCES HONORS (3)
PR: IDH 2100. An exploration of current knowledge concerning fundamental principles in the Sciences, their potential for application and attendant ethical and philosophical questions.
UNIVERSITY-WIDE COURSES

IDH 3400 SOCIAL AND BEHAVIORAL SCIENCES HONORS (3)

IDH 3500 SEMINAR IN APPLIED ETHICS (3)
PR: IDH 2010. This course explores ethical issues related to selected topics such as Ethics of Technology, Ethics in Business, Bio-Medical Ethics, Personal Ethics Development.

IDH 4000 HONORS PROGRAM SEMINAR: MAJOR WORKS/MAJORS ISSUES (4)
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 (3)
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.

IDH 4970 HONORS THESIS (3)
PR: Senior Honors Standing. The development and public presentation of a senior thesis under the direction of a mentor. Course is taken for 2 semesters.

ST. PETERSBURG CAMPUS HONORS PROGRAM

IDS 4932 HONORS PROGRAM SEMINAR (3)
PR: Admission to St. Petersburg Campus Honors Program. An intensive reading and research seminar focusing on interdisciplinary investigation of broad topics in the humanities and social and natural sciences. Topics will vary, but all possess an interdisciplinary format. Restricted to St. Petersburg Campus Honors Program students.

IDS 4960 HONORS PROGRAM PROJECT (3)
Senior Honors Program project consisting of an original creative work in literary, visual or performing arts, or in a community-oriented endeavor of substance and originality. Either a project or an Honors Thesis will fulfill the requirements for graduation as St. Petersburg Campus Honors Program students. Enrollment is limited to St. Petersburg Campus Honors Program students who have completed at least one Honors Program Seminar.

IDS 4970 HONORS PROGRAM THESIS (3)
The Honors Thesis is designed as a senior thesis for St. Petersburg Campus Honors Program students. Those students who will have completed at least one Honors Seminar prior to beginning the thesis. Either a thesis or an Honors Project will fulfill the requirements for graduation as St. Petersburg Campus Honors Program students. Enrollment is limited to St. Petersburg Campus Honors Program students who have completed at least one Honors Program Seminar.

MILITARY SCIENCE

Students not attending on an Army Scholarship may take the 1000 and 2000 level courses with no obligation to the Army. Army Scholarships and Service obligation options are discussed in class.

MIS 1000 ORGANIZATION OF THE ARMY AND ROTC (1)
Introduction, purpose, and obligation of the Army and ROTC. Introduction to military customs and traditions; rank structure and the role of an Army officer.

MIS 1400 FUNDAMENTALS OF LEADERSHIP DEVELOPMENT (1)
Basic leadership techniques and principles, professional ethics, senior-subordinate relationships, leadership problems, basic counseling and management techniques.

MIS 2801 MILITARY TRAINING MANAGEMENT AND INSTRUCTIONAL TECHNIQUES (1)
Develops an understanding of the fundamental concepts involved with methods of instruction, training management and curriculum development in the military. Actual student preparation and presentation of instruction will be an integral part of the course.

MIS 2610 LEADERSHIP ASSESSMENT (1)
Course will include an introduction to interpersonal skills required for effective leadership and diagnostic leadership assessment exercises. Topics will also include immediate first aid and injury treatment.

MIS 2601L LEADERSHIP LABORATORY (0)
Consists of two blocks of instruction per week and directly supports classroom instruction. Centered around hands-on experience which develops the student's potential. Includes instruction on drill and ceremonies; custom and courtesies, tactics, weapons and other related subjects.

MIS 3302 SMALL UNIT OPERATIONS (3)
PR: Permission of Department. Provides training required by junior officer to direct and coordinate individuals and small units in the execution of offensive and defensive tactical missions. Also provides exposure to military weapons and communications systems found at this level.

MIS 3404 LEADERSHIP FUNDAMENTALS - TACTICS AND CAMP PREPARATION (3)
PR: Permission of Department. Improves cadet proficiency in those military subjects necessary to meet minimum standards of technical competence and self-confidence required of a junior officer in the U.S. Army. Prepares cadets for participation at Advanced Camp. Major emphasis during course is placed on physical training and field training exercises.

MIS 4002 ARMY AS A PROFESSION (2)
PR: Permission of Department. Designed to prepare cadets for duty as commissioned officers. Instruction centers around proficiency/familiarization with the military justice system, military administration, the Officer Professional Management System, international laws of war, and principles of management/leadership.

MIS 4421 SEMINAR IN MILITARY LEADERSHIP & MANAGEMENT (3)
PR: Permission of Department. Provides a basic understanding of the professional soldier's responsibilities to the Army and the nation. Attempts to improve ethical decision-making skills through an examination of the need for ethical conduct, greater awareness and sensitivity to ethical issues, and the opportunity to apply these abilities in real world case study situations. Included are seminars to acquaint the new lieutenant with his/her relationship to NCOs, company grade officers, and senior officers.

MIS 4930 ADVANCED DIRECTED STUDY AND RESEARCH (1-3)
PR: CI and permission of Professor of Military Science. Intensive individual study in a particular aspect of military science that is not covered in regular course offerings. Request for enrollment must be made prior to registration in the form of a written proposal. May be repeated for credit.

OFF-CAMPUS TERM

IDS 4960 DIRECTED READINGS (1-4)
PR: OCT Program approval. Open to all students approved for OCT Program. Provides students with community related readings. May be repeated up to 8 credit hours.

IDS 4910 DIRECTED RESEARCH (1-4)
PR: OCT Program approval. To provide students with community related research experience in areas of specific interest. May be repeated up to 8 credit hours.

IDS 4942 OFF-CAMPUS TERM SOCIAL ACTION PROJECT (1-4)
PR: OCT Program approval. May be repeated up to 4 credit hours. (S/U only.)

IDS 4943 OFF-CAMPUS TERM SPECIAL PROJECT (1-2)
PR: OCT Program approval. (S/U only.)

IDS 4955 OFF-CAMPUS TERM INTERNATIONAL PROGRAM (1-2)
PR: OCT Program approval. (S/U only.)
UNIVERSITY-WIDE COURSES

UNIVERSITY OF SOUTH FLORIDA - 1996/97 UNDERGRADUATE CATALOG

MEDICINE

BMS 4402 PRINCIPLES OF HUMAN PHARMACOLOGY -NS (3)
Pharmacodynamics (effects), pharmacokinetics (absorption, distribution, metabolism, excretion) and side effects/toxicity of drugs. Designed to provide a basic understanding of mechanism of drug action resulting from modifying biologic processes. Not available on S/U basis.

PUBLIC AND COMMUNITY HEALTH EDUCATION COURSES

HSC 2100 CONTEMPORARY HEALTH SCIENCE -SS (3)
A comprehensive approach to health concerns and problems in contemporary society, including methods of assessing individual health needs.

HSC 4203 INTRODUCTION TO PUBLIC HEALTH (3)
A survey of policies and programs in public/community health with emphasis on specific needs and problems of Florida.

HSC 4541 HUMAN STRUCTURE AND FUNCTION (3)
PR: Fundamentals of biology with lab or CI. Major concepts of the structure and function of the human body systems and methods by which these concepts may be taught.

HSC 4554 SURVEY OF HUMAN DISEASES (3)
PR: Fundamentals of Biology with lab or CI. An overview of the nature, types, and mechanisms of diseases of the major body systems.

HSC 4933 SPECIAL TOPICS: PUBLIC HEALTH (1-6)
PR: CI. The content of this course will be governed by student demand and instructor interest. May be repeated for credit for different topics only.

HSC 5319 HEALTH PROBLEMS OF SCHOOL AGE POPULATION (3)
A study of health problems and needs of school age students, including a health status screening laboratory.
AFRICA N STUDIES


ANTHROPOLOGY


ASTRONOMY

Director: C. A. Williams; Professor: C. A. Williams (Mathematics Department); Visiting Professor: G. Hammond.

BACHELOR OF INDEPENDENT STUDIES

Interim Director: J. Bell; Area Coordinators: W. Heim (BIS Humanities), H. Mushinsky (BIS Natural Sciences), P. Waterman (BIS Social & Behavioral Sciences).

BIOLOGY


CHEMISTRY


COMMUNICATION


COMMUNICATION SCIENCES AND DISORDERS


CRIMINOLOGY


ENGLISH


ENVIRONMENTAL SCIENCE AND POLICY

Director: R. A. Davis, Jr.; Assistant Director: I. Bartsch

GEOGRAPHY


GEOLOGY


GERONTOLOGY


HISTORY


HUMANITIES AND AMERICAN STUDIES

Chairperson: S. L. Gaggi; Professors: C. B. Cooper, S. L. Gaggi, T. B. Hoffman (Emeritus), H. Juergensen (Emeritus), G. S. Kashdin (Emeritus), E. M. MacKay (Emeritus), J. Moore, D. Rutenberg (Emeritus), A. J. Sparks, S. A. Zylstra; Associate Professors: R. A. Banes, P. J. Brewer, Assistant Professors: D. Belgrad, J. D’Emilio, N. Yavneh; Other Faculty: S. A. Zylstra.

INTERDISCIPLINARY SOCIAL SCIENCES

Coordinator: R. J. Gagan; Professor: S. M. D. Stamps, Jr., R. H. Wheeler; Lecturer: R. J. Gagan.

INTERNATIONAL STUDIES

Director: D. Slider; Professors: C. W. Armade, A. Hechhe, H. W. Neilson, M. T. Orr; Associate Professors: M. M. Amen, R. Barylski, E. Conteh-Morgan, S. S. Northcutt, D. Slider; Assistant

LANGUAGES & LINGUISTICS

LIBRARY AND INFORMATION SCIENCE

MARINE SCIENCE

MASS COMMUNICATIONS

MATHEMATICS

MEDICAL TECHNOLOGY
Director: C. F. Hendry; Courtesy Professors: I. L. Browsary (Tampa General Hospital), W. Burgert (Tallahassee Memorial Regional Medical Center), N. M. Hardy (University Medical Center/Jacksonville), R. F. Holcomb (Florida Hospital), M. Patterson (St. Vincent's Medical Center); Courtesy Lecturers: L. Chakkaphak (St. Vincent's Medical Center), L. Ferguson (Tampa General Hospital), V. Craig (Tallahassee Memorial Regional Medical Center), P. Rogers (Florida Hospital), J. Sigler (University Medical Center).

PHILOSOPHY
Chairperson: W. H. Pruitt; Professors: J. P. Anton (Distinguished Professor of Greek Philosophy & Culture), J. A. Bell, P. A. French (Cole Chair in Ethics), J. A. Gauld, L. M. McAlister, B. Silver, W. H. Pruitt, R. C. Weatherford, K. Wedu; Distinguished Research Professors: K. S. Shrader-Frechette, S. P. Turner; Associate Professors: R. N. Taylor, J.B. Waugh; Assistant Professor: M. R. Schonfeld; Courtesy Associate Professor: M. Myerson; Courtesy Professor: D. J. Fasching.

PHYSICS

POLITICAL SCIENCE

PSYCHOLOGY

PUBLIC ADMINISTRATION
Director: W. J. Pammier, Jr.; Professors: J. E. Jreisat, S. A. MacManus, D. C. Menzel; Associate Professors: J. L. Daly, W. J. Pammier, Jr., D. Rahm; Assistant Professor: M. Y. Mongkou, A. Nich; Joint Appointments: Professors: J. C. Merrick; Associate Professors: J. E. Benton, R. Khatro, P. N. Rigos.

REHABILITATION COUNSELING
Chairperson: J. D. Rasch; Professors: W. G. Emener, J. D. Rasch; Associate Professor: T. J. Wright; Assistant Professors: C. Griffin, S. Kelley.

RELIGIOUS STUDIES
SOCIAL WORK
Interim Director: J. Amuso; Assistant Program Director: C. K. Bennett; Associate Professors: J. A. Giordano, T. U. Hancock, W. S. Hutchison, Jr., A. A. Smith, P. L. Smith, R. J. Wilk; Assistant Professors: T. Barnett-Queen, M. Rank, C. S. Roberts, A. L. Strozier; Instructors: C. K. Bennett, L. J. Vaz; Courtesy Associate Professor: M. L. Cottle; Visiting Faculty: J. Callan, J. Carpenter, R. Tilden; Visiting Instructor: C. B. Bennett.

SOCIOLOGY
Chairperson: TBA; Professors: C. Ellis, D. Stamps; Associate Professors: G. Brandmeyer, J. Friedman, B. Guter, R. Hansen, M. Klitman; Assistant Professors: C. DiPalma, G. Grawal, K. Vaz; Courtesy Associate Professors: R. A. Banes, L. M. Whiteford; Visiting Assistant Professor: L. Mayfield-Brown.

WOMEN'S STUDIES
Chairperson: L. L. McAlister; Professor: L. L. McAlister; Associate Professors: M. Myerson, J. B. Snook; Assistant Professors: J. Bandoch, C. DiPalma, G. Grawal, K. Vaz; Courtesy Associate Professors: R. A. Banes, L. M. Whiteford; Visiting Assistant Professor: L. Mayfield-Brown.

AFRICANA STUDIES
AFA 2000 INTRODUCTION TO THE BLACK EXPERIENCE [IN AFRICA AND ITS DIASPORA] - 6A - AF (3)
Fundamental perspectives on the nature and significance of the Black Experience in Africa and the black communities in the Americas.

AFA 4150 AFRICA AND THE UNITED STATES (3)
An examination of the historical and current political, economic, and cultural relations between the United States and Africa. (Also listed under International Studies.)

AFA 4331 SOCIAL INSTITUTIONS AND THE AFRICAN-AMERICAN COMMUNITY (3)
A study of social institutions and their relation to the African-American Community, with emphasis on social systems operating within and on the African-American community.

AFA 4335 BLACK WOMEN IN AMERICA - 6A - XMW (3)
An interdisciplinary survey of the contemporary experience of black women in America, including the African roots, myths and realities surrounding that experience. (Also listed under Women's Studies.)

AFA 4900 DIRECTED READINGS (2-3)
Independent readings in a particular area of African and Afro-American Studies, selected by student and instructor.

AFA 4931 SELECTED TOPICS IN AFRICANA STUDIES (1-3)
Topics offered are selected to reflect student needs and faculty interests. In depth study in such areas as the Black Student and the American Educational Process; the Black Experience in the Americas; European Expansion in Africa to 19th century; Contemporary Economic Problems in Africa.

AFH 3100 AFRICAN HISTORY TO 1850 - HP - AF (3)
An outline survey of pre-colonial African history including a prefatory introduction to the use of primary sources (such as archaeology, oral tradition, cultural anthropology, comparative linguistics, documents) in reconstructing the African past. (Also listed under History.)

AFH 3200 AFRICAN HISTORY SINCE 1850 - HP - AF (3)
Survey of the colonial and post-colonial history of Africa. Emphasis on the impact of European and other alien influences on the continent, emergence of independent African states and post independence problems of nation building and economic development. (Also listed under History.)

AFS 2250 CULTURE AND SOCIETY IN AFRICA - 6A - AF (3)
Topics include 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)
PR: AFS 2250 or CI. Study tour. A study of traditional African society and culture, the relationship between life and M. environment, and the impact of modernization on M. culture and the environment.

AMH 3571 AFRICAN AMERICAN HISTORY TO 1865 - HP (3)
A survey of African American history, with an emphasis on North America to 1865. Topics include pre-colonial Africa, transatlantic slave trade, slavery, and the Civil War. (Also offered under History.)

AMH 3572 AFRICAN AMERICAN HISTORY SINCE 1865 - HP (3)
A survey of African American history, with an emphasis on North America, from 1865 to the present. Topics include reconstruction, World War I, World War II, and the Civil Rights Movement. (Also offered under History.)

AMU 3700 BLACK LITERATURE AND THE AMERICAS (3)
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. (Also offered under English Department.)

AMS 3700 RACISM IN AMERICAN SOCIETY - SS - HP (3)
An introduction into the causes and effects of racism in American history, literature, art, the media, and folklore. Related concepts of ethnocentricism and class conflict will also be studied. (Also offered under American Studies.)

ANT 3000 THE CARIBBEAN VALU - 6A - XMW (3)
PR: ANT 3410 or CI. 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. (Also offered under Anthropology.)

CPO 4204 GOVERNMENT AND POLITICS OF AFRICA - SS - AF (3)
Designed to provide the information and analytical tools necessary to interpret current Sub-Saharan African politics. Survey of political organization in traditional African societies: politics under colonial rule; the struggle for independence, and post-independence politics.

CPO 4244 GOVERNMENT AND POLITICS OF EAST, CENTRAL AND SOUTHERN AFRICA (3)
In depth study of political developments, ideologies and modernization in East, Central and Southern Africa including race relations and white minority rule in Southern Africa.

HUM 2420 ARTS AND MUSIC OF THE AFRICAN PEOPLE (3)
An examination of the visual arts painting, sculpture, architecture and music of Sub-Saharan Africa; their meaning and impact on the arts and music of the Western World.

INF 4354 AFRICA IN WORLD AFFAIRS - XMW (3)
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.

ISS 5934 SELECTED TOPICS (1-3)
PR: CI plus senior standing or graduate status. Interdisciplinary studies with course content dependent on student demand and instructor's interest. May be repeated as topics vary.

PHI 4073 AFRICAN PHILOSOPHY - 6A - XMW (3)
A descriptive and analytical study of African philosophical thought, featuring reflective comparisons of African and Western categories of thought. (Also offered under Philosophy.)

PHM 4120 MAJOR BLACK THINKERS - XMW (3)
Survey of major themes and issues in African/African-American intellectual and political thought with an emphasis on theories of nationalism. Works of individuals such as Martin Delany, Booker T. Washington, W. E. B. DuBois, Marcus Garvey, Malcolm X, and Angela Davis are considered.

PUP 3313 BLACKS IN THE AMERICAN POLITICAL PROCESS (3)
An examination of the political experience of Blacks in the American political process including their political socialization, the struggle to become effective participants in the American political process. (Also offered under Political Science.)
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<tr>
<th>SPC 3712 COMMUNICATION AND CULTURAL DIVERSITY -SS(3)</th>
<th>AMS 4804 MAJOR IDEAS IN AMERICA -XMW(3)</th>
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<tr>
<td>Examination of communication and cultural diversity within the United States. Cultural groups include racial and ethnic (e.g. African American, Latino American, Asian American), social class, age and generational, religious (e.g. Jewish) and gender. (Also offered under Communication.)</td>
<td>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. May be repeated up to 6 credit hours.</td>
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**AMERICAN STUDIES**

AMS 2030 INTRODUCTION TO AMERICAN STUDIES -SS -HP (3)  
An overview of American Studies, the interdisciplinary study of American culture. Analysis of the arts and literature, including social issues; popular culture; material culture; cultural diversity; and social change. These approaches will be applied to a specific cultural era.

AMS 2353 ISSUES IN AMERICAN CIVILIZATION (1-4)  
An examination of selected topics such as natural environment and the quality of life, sports and American society, popular music, American communities, vigilante tradition, jazz music, role of the family, American success myth, youth in America. Topic varies.

AMS 3001 AMERICAN CULTURE 1880-1915 -6A -HP (4)  
Integration of major aspects of American life between the 1880s and World War I.

AMS 3001 COLONIAL AMERICAN CULTURE -HP (4)  
An examination of cultural patterns in America as they developed between 1600 and 1780 with an emphasis on the texture of everyday life.

AMS 3210 REGIONS OF AMERICA -HP (4)  
The pattern of American culture as revealed through an examination of selected writings and other pertinent materials dealing with selected American regions. Topic varies. Repeatable up to eight credit hours.

AMS 3230 AMERICA DURING THE TWENTIES AND THIRTIES (4)  
Selected interdisciplinary materials are used to examine the relationships among regionalism, nationalism and internationalism during the twenties and thirties. Emphasis is placed on the measure of cultural nationalism attained by the United States during this period.

AMS 3260 AMERICAN CULTURE, 1830-1860 -6A -HP (4)  
Examines the patterns of American culture in the years leading up to the Civil War. Topics include religion and social reform, race relations, and the impact of industrialization.

AMS 3302 ARCHITECTURE AND THE AMERICAN ENVIRONMENT (3)  
By means of slides, lectures and discussion the course examines 350 years of American architectural history. Architectural styles, aesthetics and the relation between a building and its social environment are stressed.

AMS 3370 SOUTHERN WOMEN: MYTH AND REALITY -6A -HP (3)  
The course examines the lives of the surrounding Southern Women, discern their sources and purposes, and contrast them with history. (Also offered under Women's Studies.)

AMS 3601 MATERIAL CULTURE AND AMERICAN SOCIETY -SS -HP (3)  
By means of slides, lectures and student projects, examines connections between artifacts and American cultural attitudes from 17th century to present. Topics include: architecture, furniture, gravestones, toys, and the material subcultures of women, African-Americans and communal societies.

AMS 3700 RACISM IN AMERICAN SOCIETY -SS - HP (3)  
An introduction into the causes and effects of racism in American history, literature, art, the media, and folklore. Related concepts of ethnocentrism and class conflict will also be studied. (Also offered under African Studies.)

AMS 3930 SELECTED TOPICS IN AMERICAN STUDIES (1-4)  
Offers include Cultural Darwinism in America, America Through Foreign Eyes, and The Female Hero in American Culture.

AMS 4152 FILM IN AMERICAN CULTURE (3)  
Surveys the contributions to American culture of major films, directors, stars, theaters, and controversies from the perspectives of genres and styles, critical methodologies and theories. Variable topics such as: series on a region, director, performer, subject, or period of time.

AMS 4910 INDEPENDENT RESEARCH (1-4)  
The content of the course will be governed by student demand and instructor interest. Instructor approval required prior to registration.

AMS 4930 SELECTED TOPICS IN AMERICAN STUDIES (1-4)  
Offerings include special implications of American Painting. Technology in Twentieth Century America, American Environmental Problems, Popular Culture in America, American Military Experience, and Labor in America.

AMS 4935 SENIOR SEMINAR IN AMERICAN STUDIES (4)  
PR: Senior in American Studies or CI.

AMS 4936 SENIOR SEMINAR IN AMERICAN STUDIES (4)  
PR: Senior in American Studies or CI.

PGY 3000 PHOTOGRAPHY IN AMERICAN CULTURE (3)  
A survey of photography as an art and a craft in America since the mid-nineteenth century. Attention devoted to technological innovations, leading personalities, major movements, and memorable icons. Open to majors and non-majors.

**ANTHROPOLOGY**

ANT 1001 THE HUMAN ADVENTURE (2)  
This course examines the anthropological evidence relevant to controversial questions concerning human origins, social practices, human and animal communication, and ancient societies. Not for major credit.

ANT 2000 INTRODUCTION TO ANTHROPOLOGY -SS -AF (3)  
The crosscultural study of the human species in biological and social perspective. Surveys the four major branches of anthropology: physical anthropology (human biology), archaeology (the analysis of the prehistoric and historic remains of human cultures), anthropological linguistics (the analysis of language in its cultural context), and cultural anthropology (the crosscultural study of peoples living in the world today, be they in tribal, peasant, or urban societies).

ANT 3005 THE ANTHROPOLOGICAL PERSPECTIVE -AF (3)  
For non-anthropology majors only. Presents the basic concepts of anthropology as they are relevant to contemporary life. Aims at enabling the student to understand the anthropologist's crosscultural view of the human species as adapting through biocultural means to life on this planet. May not be counted for credit toward an anthropology major.

ANT 3100 ARCHAEOLOGY -SS (3)  
PR: ANT 2000 or CI. The crosscultural study of humankind from its beginnings up to and including the historic period through the recovery, description, and analysis of the remains of past cultures and societies.

ANT 3410 CULTURAL ANTHROPOLOGY -SS -AF (3)  
PR: ANT 2000 or CI. Discussion of major methods and orientations to the crosscultural study of the world's peoples. Representative case studies are used to demonstrate variations in human adaptations and to encourage an appreciation of diverse values and lifestyles.

ANT 3511 BIOLOGICAL ANTHROPOLOGY -NS (3)  
PR: ANT 2000 or CI. Non-human primates, the fossil record and the biology of races are surveyed in order to understand the human animal as a product of biosocial phenomena. Anatomy, genetics, culture and evolution are emphasized.

ANT 3510 ANTHROPOLOGICAL LINGUISTICS -SS (3)  
PR: ANT 2000 or CI. An introduction to the study of the nature of language in its cultural context, especially emphasizing the role of language in the cultural interpretation of physical and social reality.

ANT 4034 THEORIES OF CULTURE (3)  
PR: Senior standing with major in anthropology or equivalent. The major concepts and controversies forming 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 4152 NORTH AMERICAN ARCHEOLOGICAL FIELD METHODS (4-12) PR: ANT 3100 or Cl. 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 4153 NORTH AMERICAN ARCHEOLOGY -6A (3) PR: ANT 3100 or Cl. 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 4155 FLORIDA ARCHEOLOGY (4) PR: ANT 3100 or Cl. 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. Recent work includes research 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 4162 SOUTH AMERICAN ARCHEOLOGY (3) PR: ANT 3100 or Cl. Describes and analyzes the sequence of cultural development in prehistoric South America. Cultures such as the Inca, Chavin, Mochica, Wara, Chinampo are emphasized. Emphasis on the environmental setting and the relationship between cultural ecology and the growth of civilization.

ANT 4163 MESOAMERICAN ARCHEOLOGY (3) PR: ANT 3100 or Cl. 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 4170 LABORATORY METHODS IN ARCHEOLOGY (2-4) PR: ANT 3100 or Cl. Data and materials recovered from archaeological survey and excavation are processed in the laboratory. Includes artifact classification, identification, and analysis; soil flotation; reconstruction and conservation of artifacts, mapping, 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 (4) PR: ANT 3100 and Cl. 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 4225 ANTHROPOLOGY OF ART -6A (3) PR: ANT 3410 or Cl. An examination of the relationship between the visual arts (sculpture, painting, masks, carving, etc.) and culture in non-Western societies. Emphasis on formal symbolic and functional comparative analysis of specific art styles based on crosscultural materials. Consideration of diffusion and change of art forms, commercial and non-commercial aspects of the artist.

ANT 4226 ANTHROPOLOGY OF ART -6A (3) PR: ANT 3410 or Cl. Focuses on crosscultural methods and techniques regarding the collection, classification, and analysis of such materials as myths, jokes, games, and items of material culture. African (or African-derived), Oceanic and Native American societies are surveyed.

ANT 4211 MAGIC AND RELIGION -6A -XMW (3) PR: ANT 3410 or Cl. The crosscultural study of the social and cultural aspects of religion. Religious activities in traditional and modern societies will be discussed. Ritual behavior, religious practitioners and symbols of belief will be considered, in light of their impact on the social, political or economic aspects of peoples' lives.

ANT 4302 SEX ROLES IN CROSS-CULTURAL PERSPECTIVE -XMW (3) PR: ANT 3410 or Cl. Focuses on various theories, models and beliefs about male and female behavior and roles in human societies throughout history and in various societies of the world today. (Also offered under Women's Studies.)

ANT 4305 VISUAL ANTHROPOLOGY (3) PR: ANT 3410 or Cl. The use of photographic techniques for the crosscultural 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 4512 NORTH AMERICAN INDIANS (3) PR: ANT 3410 or Cl. Focuses on the 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 4531 ETHNIC DIVERSITY IN THE UNITED STATES -XMW (3) PR: ANT 3410 or Cl. 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 4534 MEXICO AND CENTRAL AMERICA -XMW (3) PR: ANT 3410 or Cl. Focuses on the history, contemporary values and interpersonal relationships, and patterns of rural and urban life in Mesoamerica. Guatemala and Mexico are emphasized.

ANT 4540 THE CARIBBEAN -6A -XMW (3) PR: ANT 3410 or Cl. Main themes include: the depopulation of the aboriginal population and the resettlement of the area via slavery, indentured 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. (Also offered under Africana Studies.)

ANT 4549 RESEARCH IN THE INDIVIDUAL AND THE CULTURE -XMW (3) PR: ANT 3410 or Cl. The relationship between the individual and society is studied crossculturally. 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) PR: ANT 3410 or Cl. The crosscultural 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) PR: ANT 3410 or Cl. The study of health and human behavior in crosscultural 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 nature of medicine and the behavior of both practitioners and patients in modern societies.

ANT 4495 METHODS IN CULTURAL RESEARCH (3) PR: Cl. 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
ANT 4552 EVOLUTIONARY BIOLOGY OF THE PRIMATES (3)  
PR: ANT 3511 or CI. A survey of non-human primates focusing on biological and evolutionary patterns. Anthropology, genetics, and evolution are stressed; major primate types are surveyed for their biological adaptation. Primate sociobiology is discussed.

ANT 4583 PREHISTORIC HUMAN EVOLUTION -NS (3)  
PR: ANT 3511 or CI. A survey of the fossil record from the earliest hominins to Homo sapiens sapiens, focusing on the human lineage. Biosocial patterns and cultures of the past are also covered.

ANT 4587 HUMAN VARIATION (3)  
PR: ANT 3511 or CI. 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 4620 LANGUAGE AND CULTURE -6A (3)  
PR: ANT 3610 or CI. Examines the relationships between language and culture in crosscultural 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 4705 APPLIED ANTHROPOLOGY (3)  
PR: ANT 3410 or CI. A review of approaches applying the anthropological perspective to contemporary human problems. Particular emphasis placed on public policy issues in United States society. Discussion of the historical development of applied anthropology, problems of economic development of the Third World, and the ethics of applied research and intervention.

ANT 4750 LANGUAGE AND SOCIAL INTERACTION -6A (3)  
PR: ANT 3610 or CI. Examines the role of language and other modes of communication in the social settings of speech communities. Student field projects focus on the crosscultural description and analysis of patterns of communication in ethnographic contexts.

ANT 4901 DIRECTED READING (1-4)  
PR: CI. Individual guidance in concentrated reading on a selected topic in anthropology. Contract required prior to registration.

ANT 4907 INDIVIDUAL RESEARCH (2-4)  
PR: CI. Individual guidance in a selected research project. Contract required prior to registration.

ANT 4930 SPECIAL TOPICS IN ANTHROPOLOGY (3)  
PR: CI. Topics chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored. May be repeated as topics vary.

ANT 4932 HONORS SEMINAR (4)  
PR: Admission to the honors program in anthropology and CI. Seminar designed to provide the honors student with an opportunity to present, discuss and defend his/her own research and to explore in-depth topics in several areas of anthropology.

ANT 4935 RETHINKING ANTHROPOLOGY -6A (3)  
PR: Senior standing with major in anthropology, or equivalent. Through discussion of readings and student papers, students rethink and reevaluate anthropology as a discipline and the integration of its branches and specialty fields. Students develop and articulate their current images of anthropology.

ANT 4970 HONORS THESIS (3)  
PR: Admission to the honors program, completion of the honors seminar and CI. The student under the supervision of a faculty member will formalize, conduct, analyze, and report on a research project in anthropology. (S/U only)

ANT 5004 DIRECTED READING (1-4)  
PR: CI. Individual guidance in concentrated reading on a selected topic in anthropology. Contract required prior to registration.

ANT 5932 SELECTED TOPICS IN ANTHROPOLOGY (2-4)  
PR: CI. Individual guidance in a selected research project. Contract required prior to registration.

ANT 5937 SEMINAR IN ANTHROPOLOGY (2-4)  
PR: Graduate standing. Topics to be chosen by students and instructor.

AST 2005 ASTRONOMY OF THE SOLAR SYSTEM (4)  
Introduction to the Astronomy of the Solar System. No Physics background assumed. Topics covered include properties of light, stellar coordinates, timekeeping, eclipses, formation and dynamics of the solar system, properties of the sun and planets, space exploration and the moon, life on other worlds. This course is complementary to but independent of AST 2006. Either may be taken before the other or taken by itself.

AST 2006 STELLAR ASTRONOMY AND COSMOLOGY (4)  
An introduction to Astrophysics and the structure of the universe. No Physics background assumed. Topics covered include properties of light, stellar coordinates, measurement of the physical properties of stars, formation, structure and evolution of stars, normal and peculiar galaxies, cosmology. This course is complementary to but independent of AST 2005. Either may be taken before the other or taken by itself.

AST 2032 ILLUSTRATIVE ASTRONOMY (3)  
Constellations, use of small telescopes, etc., apparent motions of celestial objects, comets and meteors, seasons, weather. Current events in the space program. Planetarium and open sky demonstrations. Lec.-lab.

AST 3033 CONTEMPORARY THINKING IN ASTRONOMY (3)  
PR: Jr. or Sr. Standing or CI. Seminar designed to assist the layman, with no scientific background, in comprehending contemporary developments in Astronomy. Necessary background material is provided by the instructor and a text. Topics covered in recent years include the space program, pulsars, x-ray astronomy, black holes, extra-terrestrial life, interacting galaxies, cosmology.

AST 3044 ARCHAEASTRONOMY (3)  
PR: Jr. or Sr. Standing or CI. Astronomical concepts and observational techniques used by prehistoric/ancient peoples for detecting change of seasons, constructing calendars, predicting eclipses, etc. Particular attention is given to Stonehenge, and to works of N.A. Indians, the Maya and Aztecs, and the Egyptians. Lec.-lab.

AST 3552 NAVIGATION (3)  
PR: Some knowledge of geometry, algebra, and trigonometry. Timekeeping, use of sextant, constellations, celestial navigation with minimum equipment, spherical astronomy.

AST 3550 SELECTED TOPICS IN ASTRONOMY (1-4)  
PR: CI. Course content will depend upon the interest of the faculty member and student demand. May be repeated up to 8 credit hours.

AST 5506 INTRODUCTION TO CELESTIAL MECHANICS (3)  
PR: MAC 3313 or MAC 3283 and some knowledge of differential equations, or CI. The two-body problem, introduction to Hamiltonian systems and canonical variables, equilibrium solutions and stability, elements of perturbation theory.

AST 5932 SELECTED TOPICS IN ASTRONOMY (1-5)  
PR: Senior or advanced junior standing or CI. Intensive coverage of special topics to suit needs of advanced students.

BACHELOR OF INDEPENDENT STUDIES  
State University System External Degree Program  
See program description in College Section under College of Arts and Sciences for description of curriculum components.

HUM 4909 BIS HUMANITIES, INDEPENDENT STUDY (15)  
HUM 4939 BIS HUMANITIES, SEMINAR  
PR: BIS HUM 4909 or CI (S/U only)

IDS 4990 BIS INTER-AREA STUDIES  
PR: ISS 4909, ISS 4939, ISC 4909, ISC 4939, HUM 4909, HUM 4939. (S/U only)

ISC 4909 BIS NATURAL SCIENCES, INDEPENDENT STUDY (15)  
(S/U only)
An introduction to the basic biology of aging. Emphasis will be placed on understanding basic principles of biology relevant to time and the aging process which begins at birth. May be taken by majors for elective credit.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PCB 3043L</td>
<td>PRINCIPLES OF ECOLOGY LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td>PCB 3023L</td>
<td>CELL BIOLOGY LABORATORY</td>
<td>1</td>
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<tr>
<td>PR/CR: PCB 3023</td>
<td>Laboratory portion of Cell Biology.</td>
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<tr>
<td>PCB 3053</td>
<td>GENERAL GENETICS</td>
<td>3</td>
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<tr>
<td>PR: 1 year major's Biology. Introduction to genetics including the fundamental concepts of Mendelian, molecular and population genetics. Lec.</td>
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<tr>
<td>PCB 3083L</td>
<td>GENETICS LABORATORY</td>
<td>1</td>
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<tr>
<td>PR/CR: PCB 3063</td>
<td>Laboratory investigation techniques in general genetics including Mendelian and non-Mendelian relationships and gene interactions.</td>
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<tr>
<td>PCB 4064C</td>
<td>EXPERIMENTAL GENETICS</td>
<td>3</td>
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<tr>
<td>PR: PCB 3063</td>
<td>Experimental analysis of genetic systems, Lec.-lab.</td>
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<tr>
<td>PCB 4253</td>
<td>DEVELOPMENTAL BIOLOGY</td>
<td>3</td>
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<tr>
<td>PR: PCB 3023C</td>
<td>Topics in modern developmental biology to be covered in lecture and through readings so as to gain a working knowledge and understanding of the cellular and molecular mechanisms of cell differentiation in both plants and animals. Lec.</td>
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<tr>
<td>PCB 4723</td>
<td>ANIMAL PHYSIOLOGY</td>
<td>3</td>
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<tr>
<td>CR: PCB 3023C</td>
<td>Advanced presentation of mechanisms employed by animals to interact with their environment and to maintain their organization. Lec.</td>
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<tr>
<td>PCB 4723L</td>
<td>ANIMAL PHYSIOLOGY LABORATORY</td>
<td>1</td>
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<tr>
<td>CR/PR: Laboratory portion of Animal Physiology.</td>
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<tr>
<td>PCB 5116C</td>
<td>CYTOGENETICS</td>
<td>3</td>
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<tr>
<td>PR: PCB 3023C</td>
<td>Survey of the structure and function of cytoplasmic and nuclear components of plant and animal cells. Lec.-lab.</td>
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<tr>
<td>PCB 5235</td>
<td>PRINCIPLES OF IMMUNOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>PR: PCB 3023C or MCB 3030C</td>
<td>Course will emphasize the biological principles involved in the vertebrate immune response. It will present the homeostatic, defense, and detrimental aspects of the immune system in terms of basic cellular and molecular mechanisms. Techniques will be described to familiarize the student with the types of immunological tools available to the cellular and molecular biologist. Lec.</td>
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<tr>
<td>PCB 5289</td>
<td>LIMNOLOGY</td>
<td>3</td>
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<tr>
<td>PR: CI</td>
<td>An introduction to the physical, chemical, and biological nature of freshwater environments. Lec.</td>
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<tr>
<td>PCB 5306L</td>
<td>LIMNOLOGY LABORATORY</td>
<td>1</td>
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<tr>
<td>PR/CR: PCB 5306</td>
<td>Laboratory portion of Limnology, Laboratory and field experience in the area of aquatic ecology.</td>
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<tr>
<td>PCB 5415</td>
<td>BEHAVIORAL ECOLOGY</td>
<td>3</td>
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<tr>
<td>PR: PCB 4043C or PCB 4674</td>
<td>An emphasis on the evolutionary mechanisms that influence an organisms behavioral responses to environmental events. The theoretical framework is presented and analyzed.</td>
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<tr>
<td>PCB 5525</td>
<td>MOLECULAR GENETICS</td>
<td>3</td>
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<tr>
<td>PR: PCB 3063</td>
<td>Detailed examination of DNA, RNA and protein synthesis: the effects of mutations on proteins, cellular control; selected aspects of viral, bacterial, and fungal genetics.</td>
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<tr>
<td>PCB 5835</td>
<td>NEUROPHYSIOLOGY</td>
<td>3</td>
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<tr>
<td>PR: PCB 3023C</td>
<td>A comparative analysis of the physico-chemical basis and evolution of nervous systems and sensory mechanisms.</td>
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<tr>
<td>PCB 5845C</td>
<td>PRINCIPLES OF NEUROSCIENCE</td>
<td>4</td>
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<tr>
<td>PR: PCB 4723C</td>
<td>Study of the mammalian brain's structure and function, with an emphasis on the neuroanatomy, neuropharmacology, and neurophysiology of the human brain. Lec.</td>
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<tr>
<td>Microbiology</td>
<td>MCB 3030C GENERAL MICROBIOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>PR: BSC 2010 and 1 year College Chemistry. Organic chemistry and a course in genetics is recommended. Introduction to the biology of microorganisms: structure, physiology and ecology of bacteria, algae, viruses, protozoa and lower fungi. The laboratory involves preparation of culture media, staining, pure culture methodology, isolation of microbes from nature, enumeration techniques, resistance to infectious disease. Lec.-lab.</td>
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<tr>
<td>MCB 4115</td>
<td>DETERMINATIVE BACTERIOLOGY</td>
<td>5</td>
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<tr>
<td>PR: MCB 3030C</td>
<td>Survey of bacterial classification; detailed examinations of bacteria important to man in agriculture, in industry and as pathogens. Lec.-lab.</td>
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<tr>
<td>MCB 4404</td>
<td>MICROBIAL PHYSIOLOGY AND GENETICS</td>
<td>4</td>
</tr>
<tr>
<td>PR: MCB 3030C, PCB 3023C, PCB 3063, BCH 3023. A study of the physiological, metabolic, and genetic phenomena pertinent to understanding the growth, development, ecology, regulation, and reproduction of microorganisms. The course emphasizes the interdependence of physiological and genetic approaches to microbiology. Lec.</td>
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<tr>
<td>MCB 4404L</td>
<td>MICROBICAL PHYSIOLOGY AND GENETICS LABORATORY</td>
<td>1</td>
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<tr>
<td>CR: MCB 4404</td>
<td>Laboratory portion of Microbial Physiology &amp; Genetics. Biochemical characteristics and metabolic capabilities of bacteria.</td>
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<tr>
<td>MCB 4502C</td>
<td>VIROLOGY</td>
<td>3</td>
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<tr>
<td>PR: MCB 3030C</td>
<td>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. Lec.</td>
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<tr>
<td>MCB 4910</td>
<td>MICROBIOLOGY UNDERGRADUATE RESEARCH</td>
<td>1-4</td>
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<tr>
<td>PR: CI and CC</td>
<td>Individual investigation with faculty supervision. (S/U only.)</td>
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<tr>
<td>MCB 4934</td>
<td>SEMINAR IN MICROBIOLOGY</td>
<td>1</td>
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<tr>
<td>PR: Senior or advanced junior standing. May be repeated. (S/U only.)</td>
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<tr>
<td>MCB 5206</td>
<td>PUBLIC HEALTH AND PATHOGENIC MICROBIOLOGY</td>
<td>3</td>
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<tr>
<td>PR: MCB 3030C</td>
<td>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. Lec.</td>
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<tr>
<td>MCB 5815</td>
<td>MEDICAL MYCOLOGY</td>
<td>3</td>
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<tr>
<td>PR: MCB 3030C</td>
<td>A modern biological survey of the medically important fungi (yeasts and molds) important to microbiologists and environmental scientists.</td>
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<tr>
<td>Zoology</td>
<td>BSC 3092 HUMAN ANATOMY AND PHYSIOLOGY</td>
<td>5</td>
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<tr>
<td>PR: BSC 2010</td>
<td>Structure and functions of the human body. May be taken by majors for free elective credit.</td>
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<tr>
<td>ENY 4004</td>
<td>INTRODUCTION TO ENTOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>PR: BSC 2010 and BSC 2011</td>
<td>An introduction to general aspects of insect morphology, development, and classification. The identification of local forms will be emphasized. Lec.-lab.</td>
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<tr>
<td>ENY 5506</td>
<td>AQUATIC ENTOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>PR: ENY 4004</td>
<td>Taxonomy, development, and ecology of aquatic insects with emphasis on local forms. Lec.-lab.</td>
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<tr>
<td>PCB 4723C</td>
<td>ANIMAL PHYSIOLOGY</td>
<td>4</td>
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<tr>
<td>PR: PCB 3023</td>
<td>Advanced presentation of mechanisms employed by animals to interact with their environment and to maintain their organization. Lec.-lab.</td>
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<tr>
<td>PCB 5306C</td>
<td>LIMNOLOGY</td>
<td>4</td>
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<tr>
<td>PR: CI</td>
<td>An introduction to the physical, chemical, and biological nature of fresh-water environments. Lec.-lab.</td>
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<tr>
<td>ZOO 3253</td>
<td>INVERTEBRATE ZOOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>PR: BSC 2010, BSC 2011</td>
<td>An introduction to the major invertebrate groups, with emphasis on local forms. Field work will be required.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>ZOO 3253L</td>
<td>INVERTEBRATE ZOOLOGY LABORATORY</td>
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<td>ZOO 4513</td>
<td>ANIMAL BEHAVIOR</td>
<td>3</td>
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<tr>
<td>ZOO 5235</td>
<td>PARASITOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>ZOO 5425C</td>
<td>HERPETOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>ZOO 5475C</td>
<td>ORNITHOLOGY</td>
<td>4</td>
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<tr>
<td>ZOO 5555C</td>
<td>MARINE ANIMAL ECOLOGY</td>
<td>4</td>
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<tr>
<td>BCH 3023</td>
<td>INTRODUCTORY BIOCHEMISTRY</td>
<td>3</td>
</tr>
<tr>
<td>BCH 3023L</td>
<td>BASIC BIOCHEMISTRY LABORATORY</td>
<td>2</td>
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<tr>
<td>BCH 4034</td>
<td>ADVANCED BIOCHEMISTRY</td>
<td>3</td>
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<tr>
<td>BCH 5045C</td>
<td>BIOCHEMISTRY CORE COURSE</td>
<td>3</td>
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<td>CHM 2021</td>
<td>CHEMISTRY FOR TODAY</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2030</td>
<td>INTRODUCTION TO GENERAL, ORGANIC AND BIOCHEMISTRY I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2031</td>
<td>INTRODUCTION TO GENERAL, ORGANIC AND BIOCHEMISTRY II</td>
<td>3</td>
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<tr>
<td>CHM 2040</td>
<td>INTRODUCTORY GENERAL CHEMISTRY -NS</td>
<td>4</td>
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<tr>
<td>CHM 2046</td>
<td>GENERAL CHEMISTRY I</td>
<td>3</td>
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<tr>
<td>CHM 2046L</td>
<td>GENERAL CHEMISTRY I LABORATORY</td>
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<tr>
<td>CHM 2046L</td>
<td>GENERAL CHEMISTRY II LABORATORY</td>
<td>1</td>
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<tr>
<td>CHM 2046L</td>
<td>GENERAL CHEMISTRY III LABORATORY</td>
<td>1</td>
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<td>CHM 4070</td>
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of outstanding chemical discoveries and theories. Lec.-dis.

CHM 4130C METHODS OF CHEMICAL INVESTIGATION I (4)
PR: CHM 3120C, CHM 3211, CHM 3211L, CHM 4060, CHM 4410, or CHM 4410L. 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.

CHM 4131C METHODS OF CHEMICAL INVESTIGATION II (4)
PR: CHM 4130C. Continuation of CHM 4130C.

CHM 4300 BIOMOLECULES I (3)
PR: CHM 3211. Nature, structure, elucidation, synthesis and (in selected cases) organic chemical mechanisms of biologically important compounds found in living systems. Lec.

CHM 4410 PHYSICAL CHEMISTRY I (3)
PR CHM 3120C and MAC 3282 or MAC 3312, and PHY 3054 or PHY 3049. Thermodynamics, the states of matter, solutions. Lec.

CHM 4411 PHYSICAL CHEMISTRY II (3)
PR: CHM 3120C, and MAC 3282 or MAC 3312, and PHY 3054 or PHY 3049. Introduction to quantum mechanics and molecular spectroscopy. Lec.

CHM 4412 PHYSICAL CHEMISTRY III (3)

CHM 4610 ADVANCED INORGANIC CHEMISTRY (3)
PR: CHM 3610 and CHM 4410 or Cl. An advanced descriptive and theoretical treatment of inorganic compounds. Lec.

CHM 4905 INDEPENDENT STUDY (1-3)
PR: Cl. 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. May be repeated. (S/U only)

CHM 4932 SELECTED TOPICS IN CHEMISTRY (1-3)
PR: Cl. The course content will depend on the interest of faculty members and student demand.

CHM 4970 UNDERGRADUATE RESEARCH (1-3)
PR: Cl. (S/U only)

CHM 5255 INTERMEDIATE ORGANIC CHEMISTRY (3)
PR: CHM 3211, CHM 3211L, or equivalent. This course will extend organic chemistry beyond the undergraduate level and will emphasize concepts of stereochemistry and reaction mechanisms.

CHM 5255U INTERMEDIATE ORGANIC CHEMISTRY II (3)
PR: CHM 5225 or Cl. An introduction to synthetic organic chemistry for graduate students and advanced undergraduates. Lec. Semester II.

CHM 5425 APPLICATIONS IN PHYSICAL CHEMISTRY (3)
PR: CHM 4411, CHM 4412 or equivalent. Applications of chemical theory to chemical systems.

CHM 5452 POLYMER CHEMISTRY (3)
PR: Either CHM 3211, CHM 3211L, and CHM 3400 or CHM 4410 or graduate standing. Fundamentals of polymer synthesis, structure, properties, and characterization.

CHM 5621 PRINCIPLES OF INORGANIC CHEMISTRY (3)
PR: CHM 4411 or Cl. Chemical forces, reactivity, periodicity, and literature in inorganic chemistry; basic core course. Lec.

CHM 5931 SPECIAL TOPICS IN CHEMISTRY (1-3)
PR: Cl. 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 400C NUCLEAR CHEMISTRY (3)
PR: CHM 3120C. Theory and application of natural and induced radioactivity. Emphasis on the production, properties, measurement, and uses of radioactive tracers. Lec.-lab.

CHS 4300 FUNDAMENTALS OF CHEMICAL ANALYSIS (3)
PR: BCH 3033. Theoretical and practical aspects of the analysis of various body fluids, with emphasis on the medical significance. Clinical chemistry majors must take CHS 4301L concurrently. Lec.

CHS 4301L CLINICAL LABORATORY (2)
PR: BCH 3033 and Cl, CHM 3120C. Laboratory experience in some of the most important clinical determinations. CHS 4300 must be taken concurrently. Lec.-lab.

CHS 4302 CLINICAL CHEMISTRY PRACTICE (2)
PR: Cl. Laboratory practice in chemical clinical laboratories in the Tampa Bay area. (S.U only)

CHS 4310C INSTRUMENTAL ANALYSIS (4)
PR: CHM 4412 or Cl. Theory and practice of instrumental methods of chemical analysis. Lec.-lab.

CLA 3103 GREEK CIVILIZATION -HP (3)
Study of Greek Civilization from its beginning to the Roman period, with emphasis on social customs, political institutions, and daily life.

CLA 3123 ROMAN CIVILIZATION -HP (3)
Study of Ancient Roman Civilization with emphasis on social customs, political institutions, and daily life.

Courses in Translation

CLT 3340 CLASSICAL WORLD ROOTS IN SCIENCE (3)
A course in the Greek and Latin word elements used in science and technology.

CLT 3101 GREEK LITERATURE IN TRANSLATION -6A -XMW (3)
Reading and discussion of major works in Greek literature. Special emphasis on the Iliad, the dramatists Aeschylus, Sophocles, Euripides and Aristophanes. Some attention is given to the social and political background of the works. All readings are in English.

CLT 3102 ROMAN LITERATURE IN TRANSLATION -6A -XMW (3)
Reading and discussion of major works in Roman literature. Special emphasis is placed on the Aeneid, comedy and satire. Some attention is given to the political background of the works. All readings are in English.

CLT 3370 CLASSICAL MYTHOLOGY -HP (3)
Study of Greek and Roman myths embodied in classical literature and of their impact on Western civilization. All readings are in English.

Greek

GRE 1120 BEGINNING CLASSICAL GREEK I (4)
An introductory course in classical Greek grammar with appropriate readings.

GRE 1121 BEGINNING CLASSICAL GREEK II (4)
PR: GRE 1120 or equivalent. An introductory course in classical Greek grammar with appropriate readings.

GRE 2200 INTERMEDIATE CLASSICAL GREEK (4)
PR: GRE 1121 or equivalent. Readings in Greek at an intermediate level.

GRW 4905 DIRECTED READING (1-4)
Departmental approval required.

GRW 5905 DIRECTED READING (1-4)
Departmental approval required.

GRW 5934 SELECTED TOPICS (4)
Study of an author, movement or theme. May be repeated up to 12 credit hours.

Latin

LAT 1120 BEGINNING LATIN I (4)
An introductory course in Latin grammar with appropriate readings.

LAT 1121 BEGINNING LATIN II (4)
PR: LAT 1120 or equivalent. An introductory course in Latin grammar with appropriate readings.

LAT 2200 INTERMEDIATE LATIN (4)
PR: LAT 1121 or equivalent. Readings in Latin at an intermediate level.

LNW 2600 VERGIL (4)
PR: LAT 1121 or equivalent. Readings in Vergil's Aeneid. Study of the tradition, techniques, and artistry of Roman epic poetry. Available to majors and non-majors.

LNW 4381 LIVY (4)
PR: Basic knowledge of Latin. Readings in the ideas and artistry of this Roman historian.
in their study of communication. Weekly seminar sessions augment intern experience. Application for seminar must be submitted one semester prior to seminar offering.

**ORI 3000 INTRODUCTION TO COMMUNICATION AS PERFORMANCE**

(3) Designed to develop proficiency in the understanding and performance of communication of literary and other written materials.

**ORI 3950 COMMUNICATION AS PERFORMANCE LAB**

(1-3) PR: ORI 3000 or CI. The study, rehearsal, and performance of literature for Readers Theatre and Chamber Theatre productions. May be repeated (maximum total six hours).

**ORI 4120 PERFORMANCE OF POETRY**

(3) PR: ORI 3000 or CI. Critical appreciation of lyric and narrative poetry and communication of that appreciation to audience. Study of poetic theory and prosodic techniques.

**ORI 4140 PERFORMANCE OF DRAMA**

(3) PR: ORI 3000 or CI. Critical appreciation and oral interpretation of special textual materials which are inherently dramatic in nature and poetry, narrative prose, drama, biography, and history.

**ORI 4310 GROUP PERFORMANCE OF LITERATURE**

(3) PR: ORI 3000 or CI. Designed to introduce the student to and give experience in various forms of group approaches to performance.

**ORI 4831 PERFORMANCE AND VIDEO**

(3) PR: ORI 3000. CR: ORI 3950. This course features adaptation, direction, and performance of literature for video productions.

**ORI 5930 TOPICS IN PERFORMANCE GENRES**

(3) Variable topics course. Rpt. up to 12 hours as topics change.

**SPC 2023 PUBLIC SPEAKING -SS**

(3) 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 experience in public discourse.

**SPC 3231 RHETORICAL THEORY -AP**

(3) 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 3230 INTERPERSONAL COMMUNICATION THEORY**

(3) PR: Junior standing or CI. The study of source, message, and receiver variables in human communication; communication settings; descriptive and predictive models of communication; communication as a process.

**SPC 3441 GROUP COMMUNICATION**

(3) PR: Junior standing or CI. A survey of theory and research in group communication. Group discussions and communication exercises to increase awareness of the dynamics of human communication in small group settings.

**SPC 3513 ARGUMENTATION AND DEBATE**

(3) PR: Junior standing or CI. Study of principles of argumentation as applied in oral discourse, analysis of evidence and modes of reasoning. Practice in debate preparation and delivery.

**SPC 3481 ADVANCED PUBLIC SPEAKING**

(3) PR: SPC 2023 or CI. Study and application of communication strategies in speaking extemporaneously and from manuscript. The course includes study of selected public addresses as aids to increased understanding of speaking skills.
SPC 3631 RHETORIC OF THE SIXTIES -HP (3) 
Survey of the rhetorics associated with the civil rights movement, the Great Society, the anti-Vietnam War movement, the counterculture, the black power movement, and the women's movement.

SPC 3653 POPULAR FORMS OF PUBLIC COMMUNICATION (3) 
PR: Junior standing or Cl. Analysis of public communication with emphasis on various presentational forms.

SPC 3681 RHETORICAL ANALYSIS (3) 
This course introduces students to fundamentals of message analysis. Student examines persuasive strategies and language in oral and written discourse (not repeatable).

SPC 3712 COMMUNICATION AND CULTURAL DIVERSITY -SS(3) 
Examination of communication and cultural diversity within the United States. Cultural groups include racial and ethnic (e.g., African American, Latino American, Asian American), social class, age and generational, religious (e.g. Jewish) and gender. (Also offered under Africana Studies.)

SPC 4201 ORAL TRADITION -LMW (3) 
Study of orality, its forms, functions, and transformations, in traditional and literate societies from folkloric and psychological traditions and from contemporary communication and cultural studies perspectives.

SPC 4310 RELATIONSHIPS ON FILM (3) 
Examination of the ways in which cinema inscribes conceptions and meanings of romance, love, intimacy and sexuality. Focus on systems of representation fostered by cinema representations of intimacy, sexuality, emotion, subjectivity, and betrayal.

SPC 4431 FAMILY COMMUNICATION (3) 
Examines the processes and functions of communication in the development of families. 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 OF SOCIAL CHANGE (3) 
PR: SPC 3230 or SPC 3681. This course examines how social change is symbolized and motivated in the rhetorics of institutions, campaigns, social movements and individuals.

SPC 4680 HISTORY AND CRITICISM OF PUBLIC ADDRESS (3) 
PR: SPC 3601 or Cl. The principles of rhetorical criticism applied to selected great speeches of Western Civilization.

SPC 4683 RHETORICAL ANALYSIS OF MASS MEDIA (3) 
PR: SPC 3230 or SPC 3681; Open to non-majors with Cl. An introduction to the criticism of media forms and effects. Contemporary perspectives of the aesthetic and persuasive dimensions of mass media are examined. Students will engage in critical study of media artifacts.

SPC 4714 COMMUNICATION, CULTURE AND COMMUNITY -LMW (3) 
Examines the relationships among culture, communication, institutions, and public and private life. Students explore the possibilities and problems of contemporary forms of community through a volunteer organization.

SPC 4900 DIRECTED READINGS (1-3) 
PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and Cl. Maximum 6 hours.

SPC 4903 HONORS READINGS (3) 
PR: Admission to Communication Honors Program. Focused readings directed toward preparation of a proposal for an undergraduate honors thesis. May be repeated up to six credits.

SPC 4906 UNDERGRADUATE RESEARCH (1-3) 
PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and Cl. Maximum 6 hours. Individual investigations with faculty supervision.

SPC 4930 SELECTED TOPICS (1-3) 
PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and Cl. May be repeated.

SPC 4932 SENIOR SEMINAR IN COMMUNICATION (3) 
PR: Senior standing, minimum GPA 3.0, 15 hours of core requirements and 9 elective hours completed, and Cl. Communication major. Exploration of selected topics of current significance to the several areas of communication through group discussion and research.

SPC 4970 HONORS THESIS (3) 
PR: Admission to Communication Honors Program. Involves individual research and preparation of an undergraduate honors thesis. May be repeated up to six credit hours.

SPC 5930 TOPICS IN DISCOURSE (Variable topics course. Rpt. to 12 hours).

COMMUNICATION SCIENCES AND DISORDERS

SPA 3002 INTRODUCTION TO DISORDERS OF SPEECH AND LANGUAGE -SS (3) 
PR: SPA 3002, SPA 3112 or Cl. This course introduces theoretical concepts and research findings concerning the normal developmental processes of language learning as a basis for differentiating developmental delay or disorder of language.

SPA 3101 INTRODUCTION TO SPEECH SCIENCE (3) 
PR: SPA 3101 and 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 3203 INTRODUCTION TO HEARING SCIENCE (3) 
PR: Junior standing and Cl. Introduction to the field of hearing including: physics of sound, auditory anatomy and physiology, and psychophysics of hearing.

SPA 3310 ANATOMY AND PHYSIOLOGY OF THE SPEECH AND HEARING MECHANISM (3) 
PR: Junior standing and Cl. The neurological and anatomical basis of communication disorders. Comparisons of normal and pathological organic structures and their functional dynamics.

SPA 3312 APPLIED PHONETICS IN COMMUNICATION DISORDERS (3) 
PR: Junior standing and Cl. Introduction to phonetic analysis of normal and disordered speech, including extensive training in transcription using the International Phonetic Alphabet.

SPA 3330 INTRODUCTION TO DISORDERS OF HEARING (3) 
PR: SPA 3030 and SPA 3101. The etiology, pathology, and management of disorders of the outer ear, middle ear, inner ear, retrocochlear, and central auditory systems.

SPA 3330 BASIC AMERICAN SIGN LANGUAGE (3) 
PR: Cl. 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 laboratory course (SPA 3380L) to be taken concurrently. Open to all majors.

SPA 3380L BASIC AMERICAN SIGN LANGUAGE LABORATORY (1) 
PR: Cl. A laboratory designed to offer additional practice in sign language by means of videotapes. Concurrent enrollment at each level of sign language is required. There are no prerequisites. May be repeated up to 2 credit hours.

SPA 4000 COMMUNICATION DISORDERS IN THE PUBLIC SCHOOLS (3) 
PR: Cl. Examination of the speech, language and hearing problems affecting school-age children and the classroom teacher's role in the detection, prevention, and amelioration of communication disorders. (Non-major course only).

SPA 4050 INTRODUCTION TO THE CLINICAL PROCESS -LMW (3) 
PR: SPA 4930 (Lang. Dev.) and SPA 3310. Observation and participation in speech-language pathology and audiology practicum in the University clinical laboratory.
SPA 4201 PHONOLOGICAL DEVELOPMENT AND DISORDERS (3)
PR: SPA 3011. An examination of normal and deviant articulatory acquisition and behavior. Presentation of major theoretical orientations and the therapeutic principles based upon them.

SPA 4210 VOCAL DISORDERS (3)
PR: SPA 3011 and SPA 3310. A comprehensive study of the medical and physical aspects of voice disorders. Primary emphasis is on therapeutic management.

SPA 4220 AUDITORY DISORDERS (3)
PR: SPA 4201. A comprehensive study of disfluent speech behavior. Differential diagnosis, principles of therapeutic intervention, procedures for children and adults will be studied. Major theories and models of the development and origin of stuttering are also presented.

SPA 4331 FUNDAMENTALS OF FINGERSPELLING (2)
PR: CI. A concentrated study of technique in fingerspelling emphasizing clarity and rhythm in expression as well as receptive understanding.

SPA 4332 STRUCTURE OF SIGN LANGUAGE (3)
PR: CI. Semiotic and linguistic consideration of American Sign Language (ASL). Includes aspects of phonology, syntax, semantics, and discourse in ASL.

SPA 4335 SIGN LANGUAGE CODES (3)
PR: CI. A review of the sign systems (SEE I, SEE II, L.O.V.E., 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.

SPA 4363 NATURE AND NEEDS OF HEARING IMPAIRED (3)
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 4382 INTERMEDIATE AMERICAN SIGN LANGUAGE (3)
PR: SPA 3380, SPA 3380L, and CI. 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 laboratory course (SPA 4382L) to be taken concurrently.

SPA 4383 INTERMEDIATE AMERICAN SIGN LANGUAGE LABORATORY (1)
PR: SPA 3380 and SPA 3380L. A laboratory designed to offer additional practice in sign language by means of videotapes. Concurrent enrollment in SPA 4382 of sign language. May be repeated up to 2 credit hours.

SPA 4383A ADVANCED AMERICAN SIGN LANGUAGE (3)
PR: SPA 4382, SPA 4382L, and CI. 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. A one hour laboratory course (SPA 4383L) to be taken concurrently.

SPA 4383L ADVANCED AMERICAN SIGN LANGUAGE LABORATORY (1)
PR: CI. An advanced laboratory course designed to offer students added practice with the material presented in the ASL coursework through video and audio tapes. To be taken concurrently with Advanced American Sign Language (SPA 4383).

SPA 4562 COUNSELING OF COMMUNICATELY HANDICAPPED AND FAMILY (3)
PR: SPA 3011 and SPA 3310. Discussion of role 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 4930 SELECTED TOPICS (3)
PR: CI. Intensive study of topics in Speech-Language Pathology, Audiology, and Aural Rehabilitation conducted under the supervision of a faculty member.

SPA 6132 AUDIOLOGY INSTRUMENTATION (2)
PR: CI. Calibration, usage and specific applications of specialized instruments available in dealing with the identification and measurement of hearing disorders.

SPA 5150 ADVANCED SPEECH SCIENCE (3)
PR: SPA 3011 or equivalent. Advanced study of the acoustics, production and perception of normal and disordered speech.

SPA 5155 SPEECH SCIENCE INSTRUMENTATION (2)
PR: CI or SPA 3011 or equivalent. This course offers experience in the use of speech recording, monitoring and analyzing equipment for the evaluation of normal and disordered voice and speech characteristics.

SPA 5300 ADVANCED HEARING SCIENCE (3)
The study of the physiological acoustics of the auditory periphery; the neuroanatomy and electrophysiology of the central auditory system; and psychoacoustic principles as they relate to clinical audiologic measurement paradigms.

SPA 5312 PERIPHERAL AND CENTRAL AUDITORY TESTS (4)
PR: CI. The study of behavioral and electrophysiologic clinical tests designed to assess the function of the peripheral and the central auditory system. Tests which incorporate nonspeech stimuli and those which utilize speech stimuli will be included.

SPA 5328 AURAL REHABILITATION: ADULTS (3)
This course is designed to provide information about and strategies for aural rehabilitation intervention with hearing-impaired adults. Topics covered include: speechreading, auditory training, hearing and assistive listening devices.

SPA 5403 COMMUNICATION DISORDERS: LANGUAGE (3)
PR: CI. Examination of research and clinical literature presenting major theoretical orientations pertaining to the etiology, evaluation, and treatment of those factors that hinder or interrupt normal language acquisition or function.

SPA 5408 LANGUAGE LEARNING IN THE SCHOOL-AGE YEARS (3)
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)
PR: CI. Participation in speech-language pathology and audiology practicum in University Communication Disorders Center and selected field settings.

SPA 5552 DIAGNOSTIC PRINCIPLES AND PRACTICES (2)
PR: CI. The evaluation, interpretation and reporting of diagnostic tools and their results in the assessment of speech and language disorders.

Criminology

CCJ 3003 CRIME AND JUSTICE IN AMERICA -SS (4)
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 criminal offenders and victims of crime. May be taken by both majors and non-majors for credit, subject to departmental approval for declared majors.

CCJ 3020 SURVEY OF THE CRIMINAL JUSTICE SYSTEM -SS (3)
PR: PSY 2012, SOC 2000, or equivalent, or CI. An introduction to the structure and operation of law enforcement, prosecution, the courts, and corrections. Also includes brief coverage of major reported crimes.

CCJ 3210 SUBSTANTIVE CRIMINAL LAW (3)
PR: CCJ 3020, POS 2041 or CI. Examines the historical basis of the American criminal law system, the substantive elements of the crime, and court procedures.

CCJ 3510 THEORIES OF CRIMINAL BEHAVIOR (3)
PR: CCJ 3020. Provides a basic understanding of the complex factors related to crime, with concentration on principal theoretical approaches to the explanation of crime.

CCJ 3621 PATTERNS OF CRIMINAL BEHAVIOR (3)
Reviews the nature and extent of the crime problem. The course will concentrate major patterns of offender behavior involving crimes against the person, property crimes, violent crimes, economic/white collar offenses, syndicated (organized) crimes, consensual crimes, female crime, political crime, and will examine criminal career data.

CCJ 3701 RESEARCH METHODS IN CRIMINAL JUSTICE I (3)
PR: Junior standing and CCJ 3020 or CI. Introduces the
CCJ 4110 AMERICAN LAW ENFORCEMENT SYSTEMS (3)
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.

CCJ 4230 CRIMINAL RIGHTS AND PROCEDURES (3)
Emphasizes the Constitutional issues and rules that are applied and enforced by the courts while processing criminal cases.

CCJ 4310 ALTERNATIVES TO INCARCERATION (3)
PR: Junior standing plus CCJ 4360 or CI. This course explores a variety of alternatives to imprisoning the offender, including probation, parole, diversion, and other community-based intervention and treatment approaches.

CCJ 4340 INTERVENTION TECHNIQUES AND STRATEGIES (3)
PR: Senior standing or CI. Introduces the student to theories and methods underlying treatment modalities currently employed in corrections.

CCJ 4360 AMERICAN CORRECTIONAL SYSTEMS (3)
PR: Junior standing plus CCJ 3610 or CI. Analysis of the different treatment philosophies and techniques currently in use in the field, with special attention to experimental and demonstration programs.

CCJ 4450 CRIMINAL JUSTICE ADMINISTRATION (3)
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 4501 JUVENILE JUSTICE SYSTEM (3)
PR: CCJ 3020 or CI. Provides coverage of the juvenile and family courts, their clientele, and the complex of human services agencies and facilities that contribute to efforts at juvenile correctional intervention.

CCJ 4604 ABNORMAL BEHAVIOR AND CRIMINALITY (3)
PR: CCJ 3610, or CI. A systematic introduction to the relationship between mental illness and criminality, with focus on psychiatric labeling of deviant behavior and its implications for the handling of the criminal offender.

CCJ 4700 STATISTICAL RESEARCH METHODS IN CRIMINAL JUSTICE II (3)
PR: Junior standing or CI. Beginning with the scientific method, the tools commonly used to analyze criminal justice data will be emphasized. Recommended for students who intend to continue their education beyond the B.A. Required of students attending the MA program in CCJ at USF. This course may not be taken for credit if the student has already successfully completed STA 3122 or GEB 3121.

CCJ 4910 DIRECTED RESEARCH (1-3)
PR: CI. 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. No more than five hours of CCJ 4900, CCJ 4910 or any combination of the two will be accepted toward the major requirement for the major.

CCJ 4933 SELECTED TOPICS IN CRIMINOLOGY (3)
PR: Junior standing. Lecture course. Topic varies and is designed to address a wide variety of issues in criminology and criminal justice. Open to non-majors with CI.

CCJ 4934 SEMINAR IN CRIMINOLOGY - 6A -XMW (3)
PR: Senior standing and CI. These variable topic seminars are used for the in-depth study and discussion of the relationships among culture, gender, ethics, age, society, and criminal behavior. Such examinations may include the options the criminal justice does (or does not) have to deal with these interactions, and the ethics and efficacy of the system's response. Open to non-majors with CI.

NOTE: CCJ 4933 and CCJ 4934. No more than 6 hours of CCJ 4933, CCJ 4934, or any combination of the two will be accepted toward the minimum number of hours required for the major.

CCJ 4940 INTERNSHIP FOR CRIMINAL JUSTICE MAJORS (3)
PR: Senior standing. 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. The student will be required to complete an internship agreement. See requirements for the B.A. degree in Criminology for the number of hours required. (S/U only.)

CJT 4100 CRIMINAL INVESTIGATION (3)
Covers the major components of criminal investigation, with special attention to the scientific aspects of criminal investigation and the management of criminal cases.

CJT 4820 PRIVATE SECURITY SYSTEMS (3)
PR: Junior standing plus CCJ 4110 or CI. Examines some of the principal methods and techniques currently used to reduce or prevent losses due to theft and casualty.

ENGLISH

AML 3031 AMERICAN LITERATURE FROM THE BEGINNINGS TO 1860 (3)
A study of representative works from the period of early settlement through American Romanticism, with emphasis on such writers as Cooper, Irving, Bryant, Hawthorne, Emerson, Melville, Thoreau, and Poe, among others.

AML 3032 AMERICAN LITERATURE FROM 1860 TO 1912 (3)
A study of representative works of selected American Realists and early Naturalists, among them Whitman, Dickinson, Twain, James, Howells, Crane, Dreiser, Wharton, Hawthorne, and others.

AML 3051 AMERICAN LITERATURE FROM 1912-1945 (3)
A study of poetry, drama, and fiction by such writers as Pound, Stein, Fitzgerald, Hemingway, Faulkner, Porter, Toomer, Cummings, Williams, Anderson, Steinbeck, Wright, West, Stevens, Henry Miller, and others.

AML 3082 BLACK LITERATURE (3)
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. (Also offered in Africana Studies.)

AML 4111 NINETEENTH-CENTURY AMERICAN NOVEL (3)
A study of the American novel from its beginnings through 1900, including such novelists as Cooper, Hawthorne, Melville, James, Twain, Crane, and Dreiser, among others.

AML 4121 TWENTIETH-CENTURY AMERICAN NOVEL (3)
A study of major trends and influences in American prose fiction from 1900 to the present. Includes works by such writers as Hemingway, London, Wharton, Fitzgerald, Faulkner, West, Mailer, Bellow, Ellison, Donleavy, Updike, Vonnegut, and others.

AML 4261 LITERATURE OF THE SOUTH (3)
A study of the major writers of the "Southern Renaissance," including writers such as Faulkner, Wolfe, Caldwell, Heflin, McCullers, O'Connor, Warren, Styron, Tate, Davidson, and Dickey.

AML 4300 SELECTED AMERICAN AUTHORS (3)
The study of two or three related major authors in American literature, focusing on several major figures; 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 repeated twice for credit with different topics.

**CRW 2100 NARRATION AND DESCRIPTION -6A** (3)
A study of narrative and descriptive techniques in prose. By making the student sensitive to language usage, it is designed to bridge the gap between expository writing and imaginative writing.

**CRW 3111 FORM AND TECHNIQUE OF FICTION -6A** (3)
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.

**CRW 3112 FICTION I** (3)
PR: 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 -6A** (3)
PR: CRW 3111, CRW 3112. A fiction workshop which provides individual and peer guidance and direction for student writing and which also attempts to encourage the development of critical skills.

**CRW 3311 FORM AND TECHNIQUE OF POETRY** (3)
An examination of the techniques employed in fixed forms from the couplet through the sonnet to such various forms as the Rondel, ballad, villanelle, sestina, etc. Principles in the narrative, dramatic, and lyric modes are also explored.

**CRW 3312 POETRY I** (3)
PR: CRW 3311. An introduction to poetry writing utilizing writing exercises employing poetic language and devices; the exercises progress to the writing of both rhymed and unrhymed metrical and non-metrical forms.

**CRW 4120 FICTION III** (3)
PR: CRW 3311, CRW 3312, CRW 3121. An advanced fiction workshop wherein works may be carried over from CRW 3121 or longer forms such as the novel may be begun. May be taken twice for credit.

**CRW 4320 POETRY III** (3)
PR: CRW 3311, CRW 3312, CRW 3212. An advanced poetry workshop wherein students are expected to create works exhibiting a firm knowledge of the principles explored in the preceding courses. May be taken twice for credit.

**CRW 4930 SELECTED TOPICS IN CREATIVE WRITING** (1-4)
PR: 12 hours of CRW courses or CI. The focus of the course will be governed by student demand and instructor interest. Topics to be covered may include writing the literary essay, writing in mixed genres, and utilizing popular conventions in serious works. May be repeated up to 8 credit hours.

**ENC 1101, 1102 FRESHMAN ENGLISH -6A -EC** (3,3)
Instruction and practice in the skills of writing and reading. Courses must be taught in numerical sequence.

**ENC 1121 FRESHMAN ENGLISH: HONORS -6A -EC** (3)
Honors Section of ENC 1101. Reserved for students in the University's Honors Program.

**ENC 1122 FRESHMAN ENGLISH II: HONORS -6A -EC** (3)
PR: ENC 1121. Honors Section of ENC 1102. Reserved for students in the University's Honors Program.

**ENC 3210 TECHNICAL WRITING -6A** (3)
Effective presentation of technical and semi-technical information.

**ENC 3213 PROFESSIONAL WRITING -6A** (3)
Introduction to the techniques and types of professional writing, including correspondence and reports most often found in business, technical, and scientific communities.

**ENC 3310 EXPOSITORY WRITING -6A** (3)
A course teaching the techniques for writing effective prose, excluding fiction, in which student essays are extensively critiqued, edited, and discussed in individual sessions with the instructor.

**ENC 4260 ADVANCED TECHNICAL WRITING** (3)
PR: ENC 3210, or ENC 3310, or GEB 3211, or CI. Advanced Technical Writing is a course designed to develop writing skills of a high order: technical exposition; technical narration, description, and argumentation; graphics; proposals; progress reports; physical research reports; and feasibility reports.

**ENC 4311 ADVANCED COMPOSITION** (3)
PR: ENC 3310 or CI. Instruction and practice in writing effective, lucid, and compelling prose, with special emphasis on style, logical argumentation, and critical thinking.

**ENC 4930 SELECTED TOPICS IN PROFESSIONAL AND TECHNICAL WRITING** (3)
PR: ENC 3213, ENC 3210, or ENC 3310 or CI. Focus of the course will be determined by student demand and instructor interest. Topics to be covered may include legal writing, the conventions of business writing, and writing for the social sciences.

**ENG 4013 LITERARY CRITICISM** (3)
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.

**ENG 4080 HISTORY OF THE ENGLISH LANGUAGE** (3)
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 4906 INDIVIDUAL RESEARCH** (1-4)
Directed study in special projects. Special permission of chairperson required.

**ENG 4907 DIRECTED READING** (3)
Readings in special topics.

**ENG 4935 HONORS SEMINAR I** (3)
PR: Admission to English Honors Program (should be taken concurrently with ENG 4936). A study of two or three major American or British writers. Students will be expected to participate in class discussion, make formal presentations, and complete a major research project.

**ENG 4936 HONORS SEMINAR II** (3)
PR: Admission to English Honors Program (should be taken concurrently with ENG 4935). A study of critical theory from Aristotle to the present. Students will be expected to participate in class discussion, make formal presentations, and complete a major research project.

**ENG 4970 HONORS THESIS SEMINAR** (3)
PR: ENG 4935 and ENG 4936. For students writing honors theses. Class time will be devoted to exchange of research findings, instructor and peer critique of method, structure, and rhetoric of individual projects.

**ENG 5087 HISTORY OF THE ENGLISH LANGUAGE** (3)
Senior Honors Seminar. Will trace the history of the English language from its beginnings in Continental Europe, through the Anglo-Saxon and Middle English periods, the Renaissance, and the Nineteenth Century, to the present day with emphasis on both the structural development of the language and the political, social, and intellectual forces that have determined this development.

**ENL 3015 BRITISH LITERATURE TO 1616**
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 3230 BRITISH LITERATURE 1616-1780**
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**
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
A study of six to eight of Shakespeare's comedies, A study of six to eight of Shakespeare's poetry, prose, and drama. 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.

A study of from six 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.

A study of from six to eight of Shakespeare's plays, major tragedies, and late romances. Special attention to developing the student's ability to read and interpret the text.

A study of early and later British novels such as Fielding, Smollett, Sterne, Austen, Scott, Dickens, Eliot, and Hardy, among others.

A 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.

A study of the history of British Drama from its liturgical origins to the beginning of the twentieth century, exclusive of Shakespeare. Included are the mystery and morality plays, and representative works by Marlowe, Jonson, Middleton, Dryden, Congreve, Sheridan, and Wilde, and others.

The study of two or three related major figures in English, American, or World Literature. The course may include such writers as Fielding and Austen, Keats and Yeats, Joyce and Flaubert, etc. Specific topics will vary. May be taken twice for credit with different topics.

An intensive study of The Canterbury Tales and major critical concerns.

Advanced study in Shakespeare

Study of the poetry and major prose of John Milton, with special emphasis on Paradise Lost

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.

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.

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.

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 be counted toward the English major.

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 be counted toward the English major.

A study of the great works of drama, with emphasis on recent forms and themes. Films will demonstrate the possibilities of theatricalization. Will not be counted toward the English major.

A study of major British and American novels since WW II; attention will be given to the cultural influences and recent literary trends. Will not be counted toward the English major.

Varying from semester to semester, the course examines in depth a predominant literary theme or the work of a select group of writers.

The nature and significance of literature in its various forms: fiction, drama, poetry; emphasis on the techniques of reading literature for enjoyment. Will not be counted toward the English major.

A study of the novella of the nineteenth century to the present. Writers include: James, Dostoevsky, Camus, Styron, Nabokov, Gardner, Roth, Vonnegut, among others.

A study of such modern and contemporary dramatists as Ibsen, Strindberg, Chekhov, Pirandello, Shaw, O'Neill, Pinter, Stoppard, Brecht, Beckett, and Ionesco.

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.

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.

A study in English of the great works of Western Literature from the Neoplatonists to the Modern Period, including such writers as Moliere, Racine, Voltaire, Dostoevsky, Chekhov, Ibsen, Kafka, Gide, Sartre, and Camus, among others.

A study in English of the great works of Western Literature from the Neoplatonists to the Modern Period, including such writers as Moliere, Racine, Voltaire, Dostoevsky, Chekhov, Ibsen, Kafka, Gide, Sartre, and Camus, among others.

A study of the Modern European novel in translation as it developed from the sixteenth century to the present, including such writers as Dostoevsky, Flaubert, Kafka, Hesse, Camus, and Solzhenitsyn.

A study of the Modern European novel in translation as it developed from the sixteenth century to the present, including such writers as Dostoevsky, Flaubert, Kafka, Hesse, Camus, and Solzhenitsyn.

Major emphasis on literary types, literary personalities of the Old and New Testaments, and Biblical archetypes of British and American literary classics. Fall Semester, Old Testament; Spring Semester, New Testament. Course may be
repeated for credit with change of content; may be counted only once toward the English major.

**LIT 3383 THE IMAGE OF WOMEN IN LITERATURE** (3)
A survey of feminism, antifeminism, and identity, the female mystique, and liberation in the age of Sappho to the present, with special emphasis on women writers and on the emergence of the women's movement. (Also offered under Women's Studies.)

**LIT 3410 RELIGIOUS AND EXISTENTIAL THEMES** (3)
Theological and philosophical ideas, allusions, and symbols in the writing of Sartre, Nietzsche, Mann, Joyce, Eliot, Camus, Sartre, among others.

**LIT 3451 LITERATURE AND THE OCCULT - 6A - XMW - XLW** (3)
An introduction to the occult tradition as a major ingredient in English, Continental, American, and Multicultural literature; analysis of the origins, classifications, and areas of the various magic arts from classical times through the present.

**LIT 3550 TWENTIETH CENTURY LITERATURE - HP**
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. Designed for non-majors, but majors may take it by special arrangement.

**LIT 3700 SURVEY OF POETRY** (3)
A chronological sampling of the major poems written in English from the Middle Ages to the present. Recommended as the first course in the poetry option.

**LIT 4011 THEORY OF FICTION** (3)
Intensive study of the genres and varieties of fiction to ascertain the theoretical and technical problems involved in the work of fiction.

**LIT 4930 SELECTED TOPICS IN ENGLISH STUDIES** (1-4)
The content of this 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 repeated with different topics.

**REA 1105 ADVANCED READING** (3)
Designed to help students develop maximum reading efficiency. The course includes extensive instruction and laboratory practice in the improvement of adequate rates of reading, vocabulary, and comprehension skills. An independent study approach is also available for students who prefer to assume responsibility for their own progress.

**REA 1605 LEARNING STRATEGIES WITHIN ACADEMIC DISCIPLINES** (2)
To provide within any academic discipline the necessary learning strategies needed for success related to academic coursework. Practice of learning strategies will be within the framework of the student's coursework, providing direct transfer to academic area material.

**REA 2405 SPEED READING DEVELOPMENT** (2)
A course designed to develop speed reading techniques on various levels of difficulty. Emphasis is placed on comprehension via numerous practice drills. Will not be counted toward the English major. (S/U only.)

**REA 2505 VOCABULARY** (3)
A practical course in rapid vocabulary improvement for students in all areas. Stress is on words in context. Will not be counted toward the English major.

**WST 4262 LITERATURE BY AMERICAN WOMEN OF COLOR - 6A - XMW** (3)
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. (May also be taken for credit in Women's Studies.)

**ENVIRONMENTAL SCIENCE AND POLICY**

**EVR 2001 INTRODUCTION TO ENVIRONMENTAL SCIENCE** (3)
CR: EVR 2001L. An introductory lecture course linking the human and physical/chemical world. The course will develop an understanding of population and resource interactions.

**EVR 2001L ENVIRONMENTAL SCIENCE LAB** (1)
CR: EVR 2001. A laboratory course linking the human and physical/chemical world. The lab will develop an understanding of population and resource interactions and complement the lecture course. Field trips.

**EVR 2861 INTRODUCTION TO ENVIRONMENTAL POLICY** (3)
An introduction to environmental policy using class lectures, student projects, and independent readings. Emphasis will be placed on understanding basic policy mechanisms and major policy actions relating to environmental issues at the national and international level.

**EVR 4910 ENVIRONMENTAL SCIENCE AND POLICY PROJECT** (3)
Environmental science project consisting of research in a field related to environmental science/environmental policy. Supervised by a faculty member. Open to senior majors only. (S/U only.)

**EVR 4921 ENVIRONMENTAL SCIENCE AND POLICY SEMINAR** (1)
A reading and discussion seminar focusing on the interdisciplinary nature of environmental science and environmental policy. Restricted to senior majors. Repeatable up to 3 cr. hrs. (S/U only.)

**EVR 4930 SELECTED TOPICS** (1-4)
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, Economics and Law included.

**EVR 4940 ENVIRONMENTAL SCIENCE INTERNSHIP** (3)
The purpose of this course is to promote the student's understanding and application of environmental science within a practical organizational context. Contact and project report required. Open to senior majors only. (S/U only.)

**GEOGRAPHY**

**GEA 3005 GLOBAL GEOGRAPHY - SS - HP - AF** (4)
Comparative and analytical analysis of representative regions of the world with emphasis on cultural, political, economic, environmental, and physical diversity.

**GEA 3009 GENERAL GEOGRAPHY** (4)
Selected topics in regional and topical geography offered as survey courses. Open to all students.

**GEA 3100 REGIONAL GEOGRAPHY** (4)
Variable title course to systematically study and compare special regions identified by the instructor.

**GEA 3202 GEOGRAPHY OF ANGLO-AMERICA** (4)
**GEA 3300 GEOGRAPHY OF MIDDLE AMERICA** (4)
**GEA 3302 GEOGRAPHY OF THE MIDEAST** (4)
**GEA 3400 GEOGRAPHY OF LATIN AMERICA - 6A** (4)
**GEA 3500 GEOGRAPHY OF EUROPE - 6A** (4)
**GEA 3554 GEOGRAPHY OF THE USSR** (4)
**GEA 3600 GEOGRAPHY OF FRANCE** (4)
**GEA 1930 GEOGRAPHY OF CURRENT EVENTS - SS** (4)
Application of basic geographic principles of the analysis of contemporary events in various parts of the world.

**GEO 2041C MAP INTERPRETATION** (4)
Analysis and synthesis of various types of maps and map projections.

**GEO 2371 INTRODUCTION TO EARTH SYSTEMS SCIENCE - NS** (4)
The application of basic earth system science analysis to environmental problems. Review of human activity and impact on the surface of the earth at local and global scales. For non-majors only.

**GEO 3013 INTRODUCTION TO PHYSICAL GEOGRAPHY** (4)
Principles and concepts of the discipline; maps, earth-sun relationships, weather, climate, soil, water, and landforms.

**GEO 3402 HUMAN GEOGRAPHY** (4)
Systematic treatment of man's activities on earth; population, settlement, agriculture, industry, trade, transportation, and political aspects are among those considered.
GEO 3602 URBAN GEOGRAPHY (4)
PR: GEO 3402 or Cl. Spatial analysis of urban areas; growth, location, spacing, and size. Development, site, situation, internal structure, and hinterland are considered.

GEO 3901 ELEMENTS OF GEOGRAPHY (1)
Independent study; various topics in physical and cultural geography. (S/U only.)

GEO 3931C SELECTED TOPICS (3-4)
PR: GEO 3013 or Cl. Map compilation and graphic presentation.

GEO 4114C GEOGRAPHIC TECHNIQUES AND METHODOLOGY (4)
PR: 12 credit hours in Geography or Cl. Selected topics in various geographic techniques and methodologies and their application.

GEO 4124C AIR PHOTO INTERPRETATION (4)
PR: GEO 3013 or Cl. Detection, identification, and analysis of objects on the earth’s surface. Techniques other than photographic are also considered.

GEO 4201C ADVANCED PHYSICAL GEOGRAPHY (4)
PR: GEO 3013 or Cl. Intensive study of a topic selected from physical geography.

GEO 4220C PROCESS GEOMORPHOLOGY (4)
PR: GEO 3013 or GYL 2010 or Cl. Origin, evolution, and distribution of the landforms of North America.

GEO 4280C HYDROLOGY (4)
PR: GEO 3013 or Cl. Hydrologic cycle; precipitation, evapotranspiration, water budget, streamflow, and probability analysis.

GEO 4340 HUMAN RESPONSE TO NATURAL HAZARDS (4)
The impact of hurricanes, tornadoes, earthquakes, sink holes, tidal waves, fire, freezes, and droughts on people; attempts to overcome or avoid these hazards.

GEO 4372 GLOBAL CONSERVATION - 6A-XMW (4)
The distribution, exploitation, and conservation of physical and human resources, ecology.

GEO 4421 CULTURAL GEOGRAPHY (4)
PR: GEO 3402 or Cl. The interrelationships of culture and nature, from prehistoric times to the present.

GEO 4446C QUANTITATIVE METHODS (4)
PR: 12 credit hours in Geography or Cl. Statistical analysis in geographic research.

GEO 4502C CARTOGRAPHY (4)
PR: GEO 3013. Map compilation and graphic presentation.

GEO 4604 ADVANCED URBAN GEOGRAPHY-XMW (4)
PR: GEO 3402 or Cl. The geographic factors underlying political decisions and influencing their outcome; the geographic consequences of these decisions; geopolitics.

GEO 4822C ECONOMIC GEOGRAPHY (4)
PR: GEO 3402 or Cl. The spatial organization of economic production, consumption, and exchange systems.

GEO 4802C ECONOMIC GEOGRAPHY (4)
PR: GEO 3402 or Cl. The spatial organization of economic production, consumption, and exchange systems.

GEO 4900 DIRECTED READING (1-4)
PR: 20 hours in geography and Cl prior to registration. May be repeated.

GEO 4910 INDIVIDUAL RESEARCH (1-4)
PR: 20 hours in geography and Cl prior to registration. May be repeated.

GEO 4933 GEOGRAPHY COLLOQUIUM (1)
PR: Senior standing in Geography. Weekly topical lectures by faculty and outside speakers. Students will develop a plan for their professional or graduate careers.

GEO 5058 GEOGRAPHIC LITERATURE AND HISTORY (3)
PR: Senior or graduate standing in geography, or Cl. The origins and development of the discipline as revealed through an examination of the principal written sources. Special attention paid to leading personalities and modern periodicals.

GEO 6002 CLIMATOLOGY (4)
PR: GEO 3013 or Cl. An introductory course which includes an examination of climatic classification systems, problem climates, and the application of climate to selected topics such as world vegetation patterns, agriculture, housing and health.

GEO 6003C METEOROLOGY (4)
PR: GEO 3013 or Cl. The earth’s atmosphere and its processes; weather forecasting and analysis; instrumentation.

URP 4052 URBAN AND REGIONAL PLANNING (4)
The geographic foundations of the modern city, metropolitan development, and the trend toward megalopolis. Examined are the political problems of conflicting jurisdictions at the local, county, state, national, and international levels.

GEOLOGY

GLY 2010 DYNAMIC EARTH: INTRODUCTION TO PHYSICAL GEOLOGY -WS (3)
Study of minerals, rocks, and processes of the earth’s crust. Introduction to origin and classification of earth’s materials and landforms.

GLY 2010L DYNAMIC EARTH LABORATORY (1)
PR: GYL 2010 or concurrent registration. Laboratory study of earth materials, landforms, geologic structures, topographic and geologic maps. Lec-lab-field trips. Required for Geology majors; open to non-majors.

GLY 2030 ENVIRONMENTAL GEOLOGY -NS (3)
A first course in geology emphasizing environmental aspects of the earth’s crust, such as earthquakes, depletion of the earth’s resources, water supply problems, and geologic land use and planning. No credit for students with 2010. May substitute for 2010 for geology majors.

GLY 2040 ORIGINS: FROM THE BIG BANG TO THE ICE AGE -WS (3)
The history of the cosmos, origin of the universe, galaxies, the solar system, and earth, evolution of life, great extinctions including the dinosaurs, evolution of the primates, and the environmental future of the planet. (For both non-science and science majors.)

GLY 2100 HISTORY OF THE EARTH AND LIFE -NS (3)
PR: A course in geology. Study of the physical and biological history of the earth, including evolution of the major groups of organisms, continental drift, and interpretation of ancient environments.

GLY 2100L EARTH HISTORY LABORATORY (1)
Laboratory study of the history of the earth and life. Required for Geology majors; open to non-majors.

GLY 2930 SELECTED TOPICS IN GEOLOGY (1-3)
Topical courses in geology of general interest. Does not count toward the geology major.

GLY 3200 MINERALOGY (4)
PR: GYL 2010, one year of chemistry, or Cl. Principles of crystal chemistry, crystallography and mineralogy with emphasis on common rock-forming minerals. Lec-lab.

GLY 3400C STRUCTURAL GEOLOGY (4)
PR: 12 hours of geology, MAC 2132 or equivalent or Cl. Study of the origin and development of structural features of the earth’s crust. Applications of principles of geology, physics, and mathematics to understanding relationships of strata and interpreting structural features. Study of regional tectonics and major structural provinces. Lec-lab.

GLY 3610C INTRODUCTION TO INVERTEBRATE PALEONTOLOGY (4)
PR: GYL 2100. BSC 2010C or equivalent strongly encouraged as background. Lectures cover principles and applications of paleontology, including biostratigraphy, taphonomy, paleoecology, and micro- and macroevolutionary patterns and processes. Labs survey the invertebrate phyla comprising the bulk of the fossil record.

GLY 3850 GEOLOGY FOR ENGINEERS (3)
PR: Junior standing in College of Engineering or Cl. 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. (No credit toward the geology major, or for those with credit for GLY 4010.)

GLY 4310 Petrology
PR: GLY 3200, CI. 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. 4

GLY 4550 depositional systems
PR: GLY 4552C. Study of modern sedimentary environments and their relationships to one another in order to understand environments preserved in the rock record. Physical, chemical, and biological aspects of terrestrial, transitional and marine sedimentary environments will be examined in light of their eventual preservation in the stratigraphic record. 4

GLY 4552C Petrology of sedimentary rocks
PR: GLY 2010, GLY 3200, and one year of chemistry. A lecture and laboratory class that integrates knowledge of the lithosphere, atmosphere, biosphere, hydrosphere, and earth system to study the sedimentary rock record. Examination of the rock record to solve problems in sedimentary geology. 4

GLY 4700 Geomorphology
PR: Senior or advanced junior standing and CI. Origin, evolution and distribution of land forms and soils. Dynamics of the earth's surface. Rec-lab-field trips. 4

GLY 4730 Marine Geology
PR: 12 hours of geology or CI. General survey of the geology of the ocean floor from beaches to ocean trenches including sediments, processes, tectonics and history. 3

GLY 4905 Independent Study
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated. (S/U only) 1-3

GLY 4915 Undergraduate Research
PR: Senior or advanced junior standing and written permission of department prior to registration. Individual experimental investigations with faculty supervision. (S/U only) 1-3

GLY 4920 Geology Colloquium
PR: Senior standing in Geology. Weekly topical lectures by faculty, graduate students and invited speakers. (S/U only) 1

GLY 4930 Selected Topics in Geology
PR: 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. Departmental permission required prior to registration. 1-4

GLY 4970 Undergraduate Honors Thesis
Open to seniors admitted to the Geology undergraduate honors program. Students will complete an independent research project under supervision of a faculty member, and present results in a senior thesis and a public presentation. 3

GLY 5752 Geological Field Excursion
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. Rec-field trip. 2

GLY 5865 Statistical Models in Geology
PR: STA 3023 or equivalent or CI. Application of statistical methods to geological problems. Emphasis on sampling plans, nature of geologic distributions, and application of analyses of variance to solving geologic problems. Lec-lab. 3

GLY 6327 Long-term Care Administration I
PR: GEY 4327. Administration of long-term care institutions from a group dynamics perspective. Emphasis on informed problem-solving and decision-making via analysis of the psychosocial and socioeconomic environment in the nursing home community. Course objective is to create efficient and humane living and working conditions in nursing homes. 3

GLY 4935 Special Topics in Geology
PR: Courses on topics such as preretirement, mental health, human services organization, nursing home administration, the older woman, and elder abuse will be offered. May be repeated up to 6 credit hours. 1-3

OCE 3001 Introduction to Oceangraphy-NS
Overview of biological, chemical, geological, and physical oceanography. May substitute for 2010 for geology majors. (Also listed under Marine Science.) 3

GERONTOLOGY

GEY 3000 Introduction to Gerontology-SS
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. 3

GEY 3601 Behavior Changes in Later Life
A survey of physical and psychological aspects of aging from middle age through older age. Course emphasis will be on basic age-related changes and their implications for behavior across age. 3

GEY 3625 Sociocultural Aspects of Aging -6A-SS-AF
Consideration of human aging in a broad sociocultural context. Course emphasis will be on historical, philosophic, and sociocultural aspects of aging, theories of social gerontology, attitudes toward aging and the aged, cross-cultural perspectives on aging, the sociology of retirement, and aging and the community. 3

GEY 4327 Long-term Care Administration I
PR: GEY 3000, AGC 2011. A survey of Long Term Care (LTC) environments. Explored are such issues as definitions of LTC, physiological conditions of LTC uses, the institutional setting, the sociopsychological context, and methods of evaluation and intervention. 3

GEY 4328 Long-term Care Administration II
PR: GEY 4327. Administration of long-term care institutions from a group dynamic perspective. Emphasis on informed problem-solving and decision-making via analysis of the psychosocial and socioeconomic environment in the nursing home community. Course objective is to create efficient and humane living and working conditions in nursing homes. 3

GEY 4329 Long-term Care Administration III
PR: GEY 4328. This course will familiarize the student with the basic aspects of nursing home administration through the practical application of management theory and concepts. 3

GEY 4360 Gerontological Counseling
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. 3

GEY 4401 Research Methods in Gerontology
PR: STA 3122 or equivalent. Restricted to Gerontology majors, others by departmental permission. Methods and techniques of social research in gerontology. Design of gerontological studies, collection and analysis of data, interpretation of results, and preparation of reports. 3

GEY 4640 Death and Dying
PR: GEY 3000. 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. 3

GEY 4900 Directed Readings
PR: CI. A reading program with topics in gerontology conducted under the supervision of a faculty member. 1-3

GEY 4938 Special Topics in Gerontology
Courses on topics such as preretirement, mental health, human services organization, nursing home administration, the older woman, and elder abuse will be offered. May be repeated up to 6 credit hours. 1-3

GEY 4975 Internship Placement
PR: CI. 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 in the BS program (9 hours). Subject to availability of internship sites approved by the Department of Gerontology.
GEY 5620 SOCIOLOGICAL ASPECTS OF AGING
(3) Examine, within a sociological frame of reference, the interrelationships between the aged (or aging) and the structure and function of the social systems and its major institutionalized subsystems.

GEY 5630 ECONOMICS AND AGING
(3) 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) Study of the various psychological, medical, legal, and religious problems caused by dying and death, and of how individuals and groups have responded in the past and present.

HUS 3001 INTRODUCTION TO HUMAN SERVICES
(3) An introduction to the field of human services. Study of the professions and agencies involved in providing human services. Analysis of the values and ethics of various professional associations.

HUS 4020 THE LIFE CYCLE
(4) An examination of individuals and the physiological and psychosocial changes which occur during infancy, childhood, adolescence, young adulthood, middle age and old age.

HUS 4100 INTERVIEWING
(3) PR: HUS 3001. The principles and techniques of interviewing. Use of interviewing in information gathering, research and helping relationships and developing skills in communication across cultural, social and age barriers.

AFH 3100 AFRICAN HISTORY TO 1850 - HP - AF
(3) An outline survey of pre-colonial African history including a preatory introduction to the use of primary sources (such as archaeology, oral tradition, cultural anthropology, comparative linguistics, documents) in reconstructing the African past. (Also offered under Africana Studies.)

AFH 3200 AFRICAN HISTORY SINCE 1850 - HP - AF
(3) Survey of the Colonial and post-colonial history of Africa. Emphasis on the impact of European and other alien influences on the continent, emergence of independent African states, and post-independence problems of nation building and economic development. (Also offered under Africana Studies.)

AMH 3201 THE UNITED STATES, 1877-1929
(4) A study of America from the end of Reconstruction to the stock market crash. Ranging over political, social, and diplomatic developments, the course covers industrialization, reform, imperialism, feminism, race relations and World War I.

AMH 3252 THE UNITED STATES SINCE 1929
(4) The United States from the Great Depression to the present. Covering political, social and diplomatic developments, the course examines the New Deal, World War II, the Cold War, Vietnam, civil rights, feminism and Watergate.

AMH 3403 THE SOUTH SINCE 1865
(4) Southern history since the surrender at Appomattox. Topics covered include Reconstruction, the Populist revolt, race relations, demography and disfranchisement, Southern women, and the Civil Rights Movement.

AMH 3421 EARLY FLORIDA
(4) 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 3433 MODERN FLORIDA
(4) An historical survey of Florida from the territorial period to the modern era. An examination of the social, political, and economic changes occurring in Florida between 1821 and the 1980s.

AMH 3500 AMERICAN LABOR HISTORY
(4) 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 3510 U.S. DIPLOMATIC HISTORY TO 1898 - 6A
(4) The development of American Foreign Relations in the Agricultural era.

AMH 3511 U.S. DIPLOMATIC HISTORY IN THE 20TH CENTURY

AMH 3530 IMMIGRATION HISTORY
(4) 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 3540 UNITED STATES MILITARY HISTORY
(4) A study of American military policy and practices from colonial days to the present. Attention is given both to tactics and to strategy in the unfolding formulation and development of American armed might.

AMH 3545 WAR AND AMERICAN EMPIRE
(4) 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
(4) 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. (May also be taken for credit in Women's Studies.)

AMH 3562 AMERICAN WOMEN II
(4) 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. (May also be taken for credit in Women's Studies.)

AMH 3571 AFRICAN AMERICAN HISTORY TO 1865 - HP
(3) A survey of African American history, with an emphasis on North Americas to 1865. Topics include pre-colonial Africa, transatlantic slave trade, slavery, and the Civil War. (May also be taken for credit in Africana Studies.)

AMH 3572 AFRICAN AMERICAN HISTORY SINCE 1865 - HP
(3) A survey of African American history, with an emphasis on North America, from 1865 to the present. Topics include reconstruction, World War I, World War II, and the Civil Rights Movement. (May also be taken for credit in Africana Studies.)
<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>AMH 3800</td>
<td>HISTORY OF CANADA</td>
<td>(4)</td>
</tr>
<tr>
<td>ASH 3404</td>
<td>MODERN CHINA - SS - HP - AF</td>
<td>(4)</td>
</tr>
<tr>
<td>EUH 3402</td>
<td>AGE OF ALEXANDER</td>
<td>(4)</td>
</tr>
<tr>
<td>EUH 3412</td>
<td>ROMAN REPUBLIC</td>
<td>(4)</td>
</tr>
<tr>
<td>EUH 3413</td>
<td>ROMAN EMPIRE</td>
<td>(4)</td>
</tr>
<tr>
<td>EUH 3461</td>
<td>GERMAN HISTORY TO 1870</td>
<td>(4)</td>
</tr>
<tr>
<td>EUH 3462</td>
<td>GERMAN HISTORY 1870 TO PRESENT</td>
<td>(4)</td>
</tr>
<tr>
<td>EUH 3450</td>
<td>DIRECTED READING</td>
<td>(1-4)</td>
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</tbody>
</table>

A study of Canadian experience from its French origins through the British conquest to its present multi-racial character. Attention will also be given to the forces of nationalism, separatism, and regionalism.

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.

A study of the major themes of Indian history from the Indus culture to the present. Emphasis will be given to the Classical, Mogul and British periods as well as the modern independent sub-continent.

An introductory survey of ancient history. EUH 2031 treats the ancient Near East and Greece from the origins of civilization to the full development of the Hellenistic kingdoms prior to conflict with Rome.

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. 395.

A thematic study of the Middle Ages. EUH 2021 deals with the nascent, Christian civilization of Europe, circa 300-1050 A.D.; EUH 2022 traces the mature medieval civilization of Europe, circa 1050-1500.

A thematic survey of Europe in the modern age. EUH 2030 treats the period from the Renaissance to the French Revolution; EUH 2031, from the French Revolution to the present.

A historical overview of the Middle Ages, with attention to political, social, and economic developments.

A thematic survey of Europe in the modern age. EUH 2021 treats the period from the Renaissance to the French Revolution; EUH 2022 traces the mature medieval civilization of Europe, circa 1050-1500.

A thematic survey of Europe in the modern age. EUH 2030 treats the period from the Renaissance to the French Revolution; EUH 2031, from the French Revolution to the present.

A thematic survey of Europe in the modern age. EUH 2021 treats the period from the Renaissance to the French Revolution; EUH 2022 traces the mature medieval civilization of Europe, circa 1050-1500.

A study of the major themes of Indian history from the Indus culture to the present. Emphasis will be given to the Classical, Mogul and British periods as well as the modern independent sub-continent.

An introductory survey of ancient history. EUH 2012 treats the ancient Near East and Greece from the origins of civilization to the full development of the Hellenistic kingdoms prior to conflict with Rome.

A comparative study of economic, political, social, and intellectual developments in nineteenth century Europe.

A comparative study of economic, political, social, and intellectual developments in twentieth century Europe.

A comparative study of economic, political, social, and intellectual developments in ancient Greece.

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 western Mediterranean.

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.

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.

A comparative study of economic, political, social, and cultural development leading to the creation of the modern democratic welfare state.

A study of the development of the British Empire from the age of initial expansion overseas to the creation of the multinational commonwealth. Included are examinations of theory and myth of colonialism as well as the literature of imperialism.

A survey of the social, political, economic, and cultural development of Russia from the year 800 to 1865. Topics include the personality of Russian rulers, the origins of Russian Socialism, and Russia's relationship to the West.

A study of the development of the British Empire from the age of initial expansion overseas to the creation of the multinational commonwealth. Included are examinations of theory and myth of colonialism as well as the literature of imperialism.

A survey of the social, political, economic, and cultural development of Russia from the year 800 to 1865. Topics include the personality of Russian rulers, the origins of Russian Socialism, and Russia's relationship to the West.

A study of the development of the British Empire from the age of initial expansion overseas to the creation of the multinational commonwealth. Included are examinations of theory and myth of colonialism as well as the literature of imperialism.

A study of the social, political, economic, and cultural development of Russia from the year 800 to 1865. Topics include the personality of Russian rulers, the origins of Russian Socialism, and Russia's relationship to the West.

A comparative study of economic, political, social, and intellectual developments in ancient Greece.

A thematic survey 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.
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<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>HIS 4920</td>
<td>COLLOQUIUM IN HISTORY</td>
<td>(2-4)</td>
<td>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. May be repeated for credit.</td>
</tr>
<tr>
<td>HIS 4936</td>
<td>PRO-SEMINAR IN HISTORY -6A -XMW</td>
<td>(4)</td>
<td>PR: Cl. Advanced topics in the various fields of history. Emphasis on discussion of assigned readings and on research and writing of a major paper. Required of all history majors. May be repeated up to 12 credit hours.</td>
</tr>
<tr>
<td>HIS 5215</td>
<td>HISTORICAL WRITING</td>
<td>(2)</td>
<td>A course for graduate and advanced undergraduates to combine library, archival and research skills with an examination of various writing styles. Analytic and synthetic skills are stressed in writing articles, reviews and essays.</td>
</tr>
<tr>
<td>LAH 2734</td>
<td>LATIN AMERICAN HISTORY IN FILM -HP - AF</td>
<td>(3)</td>
<td>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.</td>
</tr>
<tr>
<td>LAH 3130</td>
<td>COLONIAL LATIN AMERICA</td>
<td>(4)</td>
<td>A study of the Spanish and Portuguese Colonial empires in the New World from 1492-1830.</td>
</tr>
<tr>
<td>LAH 3200</td>
<td>MODERN LATIN AMERICA</td>
<td>(4)</td>
<td>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.</td>
</tr>
<tr>
<td>LAH 3430</td>
<td>HISTORY OF MEXICO</td>
<td>(4)</td>
<td>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.</td>
</tr>
<tr>
<td>LAH 3470</td>
<td>HISTORY OF THE CARIBBEAN</td>
<td>(4)</td>
<td>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.</td>
</tr>
<tr>
<td>LAH 3480</td>
<td>HISTORY OF CUBA</td>
<td>(4)</td>
<td>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.</td>
</tr>
<tr>
<td>WST 3210</td>
<td>WOMEN IN WESTERN CIVILIZATION I -HP</td>
<td>(3)</td>
<td>Survey of women in the ancient Near East, ancient Greece, ancient Rome, early Middle Ages. Origins of Western attitudes toward sex roles, female sexuality, relation of power to gender. (May also be taken for credit in Women's Studies.)</td>
</tr>
<tr>
<td>WST 3220</td>
<td>WOMEN IN WESTERN CIVILIZATION II -HP</td>
<td>(3)</td>
<td>Survey of Europeans from the late Middle Ages to the twentieth century: differing consequences of historical change for women and men. (May also be taken for credit in Women's Studies.)</td>
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**Humanities**

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>HUM 2024</td>
<td>THE ARTS -FA</td>
<td>(3)</td>
<td>Analysis of selected works of literature, music, film, and visual art, representing artists of diverse periods, cultures, genders, and races. Especially recommended for students who later take 4000-level Humanities courses.</td>
</tr>
<tr>
<td>HUM 2211</td>
<td>STUDIES IN CULTURE: THE ANCIENT THROUGH MEDIEVAL PERIODS -HP</td>
<td>(3)</td>
<td>A survey of literature and the arts of ancient Greece, Rome, and medieval Europe. Issues to be examined may include the dialogue between local traditions and cosmopolitan cultures, the relationship of the individual to society, and the bases for ethical values.</td>
</tr>
<tr>
<td>HUM 2243</td>
<td>STUDIES IN CULTURE: THE RENAISSANCE THROUGH THE TWENTIETH CENTURY -HP</td>
<td>(3)</td>
<td>A historical survey of the visual arts, literature, music and thought of Europe from the Renaissance through the twentieth century. Issues to be examined may include the relationship between science and the arts and the consequences of the growing contacts among world civilizations and the impact of technological change.</td>
</tr>
</tbody>
</table>
INTERDISCIPLINARY ARTS AND SCIENCES

HUM 4440 ARTS AND LETTERS IN THE 17TH AND 18TH CENTURIES (4)
PR: Sophomore standing or CI. A study of the visual arts, literature, and music from the mysticism and ornament of the Baroque to the rationalism and classicism of the Enlightenment, including such artists, authors and composers as Rembrandt, Gentileschi, Voltaire, Bach and Mozart.

HUM 4444 NINETEENTH CENTURY EUROPEAN ARTS AND LETTERS (4)
PR: Sophomore standing or CI. A study of continental literary, musical, and artistic masterworks from the Revolutions of 1848 until the outbreak of World War I.

HUM 4445 TWENTIETH CENTURY ARTS AND LETTERS I (4)
PR: Sophomore standing or CI. Analysis of selected works of twentieth century art. The course will focus on a particular phase in the development of modernism, the set of themes, or certain stylistic aspects of various arts of the twentieth century.

HUM 4446 TWENTIETH CENTURY ARTS AND LETTERS II (4)
PR: Sophomore standing or CI. Analysis of selected works of twentieth century art. The course will focus on a particular phase in the development of modernism, the set of themes, or certain stylistic aspects of various arts of the twentieth century.

HUM 4452 NINETEENTH CENTURY AMERICAN CULTURE (4)
PR: Sophomore standing or CI. Study of selected works of art tracing the course of American art from the expansionism in civilization, and the interaction between the arts and the sciences in American ways of life and work. 1790-1890.

HUM 4455 TWENTIETH CENTURY AMERICAN CULTURE (4)
PR: Sophomore standing or CI. Study of selected works, tracing the course of expansion in the production and enjoyment of works of art, and interaction between the idealistic and pragmatic concerns for development of the arts in the 20th century.

HUM 4452 ANCIENT LATIN AMERICAN CULTURE (4)
PR: Sophomore standing or CI. Analysis of selected Latin American works of art in their cultural context, with emphasis on major art forms selected from the Pre-Columbian period.

HUM 4454 LATIN AMERICAN CULTURE SINCE 1492 (4)
PR: Sophomore standing or CI. Analysis of selected Latin American works of art in their cultural context, with emphasis on major art forms selected from the colonial through contemporary periods.

HUM 4905 DIRECTED STUDY (1-4)
PR: CI. Specialized individual study determined by the student's needs and interests.

HUM 4930 SELECTED TOPICS IN HUMANITIES (1-4)
PR: Sophomore standing or CI. 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; course may be repeated for credit with change of content.

HUM 4931 SEMINAR IN HUMANITIES - 8A (4)
PR: Humanities major or CI. Senior standing. Discussion of interdisciplinary humanities. Includes essay.

HUM 4938 MAJOR ISSUES IN THE HUMANITIES - XMW (3)
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. May be repeated up to 6 credit hours with change in content.

HUM 4941 STUDY ON LOCATION (1-4)
The art of a culture will be examined during travel in groups, led by an instructor, to important cities or sites. Monuments, museums, architecture, plays, and/or concerts will be studied. Reading assignments and lectures.

INTERDISCIPLINARY ARTS AND SCIENCES

INTERDISCIPLINARY SCIENCES

ISC 4930 SELECTED TOPICS (1-4)
Interdisciplinary studies with cell and molecular biology perspective. Course content dependent on student demand and instructor's interest.

LIBERAL STUDIES

IDS 2931 SELECTED TOPICS (2-5)
Selected topics in the liberal arts. A basic introduction to the substance and theory of contemporary topics in the arts and sciences. May be repeated as topics vary.

IDS 2932 SELECTED TOPICS (3)
Selected topics in the liberal arts and sciences. May be repeated as topics vary.

IDS 3300 STRUCTURES OF KNOWLEDGE AND KNOWING (4)
Distinguishing the modalities of human knowledge and awareness as reflected in the classic distinctions: sensory/motor; emotive; normative/descriptive/non-rational; logical/mathematical; ethical/physical/moral; qualitative/quantitative; mind/body; substance and function.

IDS 3310 PROGRESS AND UTOPIA (4)
Examination of the modern backgrounds of contemporary awareness; particularly the development of historical awareness of ourselves as scientifically, technologically, and socially progressive in relation to both utopic and non-utopic futures.

IDS 3320 FREEDOM AND THE SELF (4)
Analysis of the idea of freedom in relation to the idea of self, involving comparative treatment of the variety of standpoints of containing the individual personality in relation to the social context.

IDS 4344 SEMINAR: MAN AND NATURE (3)
PR: Senior standing or CI. Examination of aspects of contemporary theories of nature and man deriving in the liberal arts, to the purpose of developing a general assessment of contemporary knowledge and methods of knowing.

IDS 4930 SELECTED TOPICS (1-4)
Course content determined by students' and instructor's interests and needs.

MEDICAL TECHNOLOGY

MLS 4031 INTRODUCTION TO MEDICAL TECHNOLOGY (1)
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on principles and methods of medical technology, including professional ethics, safety regulations, quality control, phlebotomy, medical terminology, laboratory mathematics, and computer applications.

MLS 4860 CLINICAL URINALYSIS AND BODY FLUIDS (2)
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on laboratory methodology and diagnosis using urine and other fluids such as semen, spinal, pleural, peritoneal and joint fluids.

MLS 4861 CLINICAL IMMUNOLOGY (2)
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on the purpose of developing a general assessment of contemporary knowledge and methods of knowing.

MLS 4863 CLINICAL MICROBIOLOGY (6)
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course emphasizing pathogens responsible for disease in man, including morphology, physiology, and laboratory diagnosis of bacteria, fungi, parasites and viruses.

MLS 4864 CLINICAL CHEMISTRY (6)
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on the analysis of chemical substances found in the body as related to the...
diagnosis of human disease, including topics such as instrumentation, electrophoresis, therapeutic drug-monitoring assays, tumor markers, and toxicology.

MAL 4865 CLINICAL IMMUNOHEMATOLOGY (6)
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on blood and tissue typing, including blood group systems, transfusion associated disease, HLA testing, and preparation of blood and blood components for transfusion therapy.

MAL 4866 CLINICAL LABORATORY MANAGEMENT AND EDUCATION (1)
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on concepts of laboratory management, including personnel staffing, reimbursements, quality assurance, and regulatory issues, and clinical education techniques, including writing, lecture presentation, and evaluation.

INTERDISCIPLINARY SOCIAL SCIENCES
ISS 3010 INTRODUCTION TO THE SOCIAL SCIENCES (3)
Views social institutions and issues from perspectives of changing paradigms. Integrates the range of social science fields into a global interdisciplinary vantage.

ISS 3930 SELECTED TOPICS IN THE SOCIAL SCIENCES (1-4)
Interdisciplinary studies with course content dependent on student demand and instructor's interest. May be repeated as topics vary.

ISS 4102 THE CITY AND URBANIZATION (3)
An interdisciplinary perspective will be used to analyze the emergence of the city, urban revolution and metropolis. Urban planning and governance will be examined in looking at how urban areas deal with social and physical problem.

ISS 4106 URBAN SOCIAL ISSUES: AN INTERDISCIPLINARY APPROACH (3)
This course is designed to examine current metropolitan issues from an interdisciplinary perspective. Topic selection will be within the broad framework of technological changes, economic conditions, political ideologies, and their impact on changing social patterns.

ISS 4900 DIRECTED READINGS (1-3)
PR: CI. A supervised program of intensive reading of interdisciplinary materials in areas of specific interest. May be repeated.

ISS 4910 DIRECTED RESEARCH (1-3)
PR: CI. A supervised program of interdisciplinary research in areas of specific interest. May be repeated.

ISS 4935 SEMINAR IN THE SOCIAL SCIENCES -XMW (3)
PR: Senior standing and ISS 3010. The seminar which caps the interdisciplinary major. Weds personal curiosity with the application of models to research on salient social issues.

ISS 4934 SELECTED TOPICS (1-3)
PR: CI plus senior standing or graduate status. Interdisciplinary studies with course content dependent on student demand and instructor's interest. May be repeated as topics vary.

STA 3122 SOCIAL SCIENCE STATISTICS -6A -QM (3)
The course presents statistics with the view that numbers are a limited, but important aspect of understanding the world. Draws concepts and hypothesis from a wide range of disciplines. Covers topics through bivariate analysis, parametric and non-parametric.

INTERNATIONAL STUDIES

AREA STUDIES
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. The same course may be repeated, but only when the countries of concentration differ. The regularly offered area study courses are:

AFA 4150 AFRICA AND THE UNITED STATES -SS -HP -AF (3)
ASN 3012 JAPAN TODAY (3)

ASN 3014 CHINA TODAY -AF (3)
ASN 3030 THE MIDDLE EAST -AF (3)
EUS 3000 EUROPE -SS (3)
EUS 3022 RUSSIA -SS -AF (3)
LAS 3002 LATIN AMERICA (3)

ASN 3105 THE PACIFIC CENTURY -SS -HP -AF (3)
Explores the themes and trends which have affected the entire Asia-Pacific region. Textual material and videos trace the emergence of the modern nations of Northeast and Southeast Asia, focusing on the political and economic development of the past 150 years. (Open University televised course.)

INR 1015 WORLD PERSPECTIVE -SS -AF (3)
An interdisciplinary study of the international system, major world regions and problems.

INR 2085 WORLD TENSIONS (2)
A study of the major causes and consequences of critical tensions which lead to serious social disturbances among and within the independent states of the world.

INR 2930 SELECTED TOPICS (1-4)
International studies with course content dependent on student demand and instructor's interest. For non-majors only. May be repeated as topics vary.

INR 3003 INTRODUCTION TO INTERNATIONAL STUDIES (3)
An interdisciplinary study which stresses methods and analysis. A major portion will focus on the roles which different disciplines play in interpreting the international scene.

INR 3018 WORLD IDEOLOGIES -XMW (3)
A course which details and examines the ideologies of today's independent countries, analyzing them in their political, social, cultural and historical context.

INR 3038 INTERNATIONAL WEALTH AND POWER -SS (3)
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)
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. Departmental approval required.

INR 3084 INTERNATIONAL TERRORISM -SS -AF (3)
A study of contemporary international terrorism and its causes, ranging from national liberation movements to networks of philosophical anarchists.

INR 3141 INTERNATIONAL NUCLEAR POLICY (3)
A study of security issues, regional and global (such as proliferation, arms control, arms transfer) as they relate to contemporary international politics.

INR 3336 INTELLIGENCE AND U.S. FOREIGN POLICY (3)
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 3770 COMPARATIVE MILITARY SYSTEMS (3)
A comparative study of ways in which the military institutions of various nations are organized and interact with politics, societies and economies.

INR 3955 OVERSEAS STUDY (1-6)
A program of individual or group research in a foreign country.

INR 4089 CONFLICT IN THE WORLD -XMW (3)
PR: Junior/Senior standing. An interdisciplinary course examining theories of conflict, conflict resolution processes and strategies, theories and peacemaking strategies, and the concept of Early Warning Systems relating to the outbreak of conflict.

INR 4250 THE POLITICAL ECONOMY OF THE SOUTHERN NATIONS -SS -AF (3)
A multidisciplinary study of the efforts of the nations in the South (Africa, Asia, Latin America and the Middle East) to improve their status through political and economic development.

INR 4900 DIRECTED READINGS (1-3)
PR: CI. A supervised program of intensive reading of interdisciplinary materials in areas of specific interest. May be repeated.
Permits study options in Arabic not intended to attain basic proficiency. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

CHI 1121 MODERN CHINESE II LABORATORY
CR: CHI 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

CHI 1121 MODERN CHINESE III
PR: CHI 1121 or the equivalent. For language students who intend to attain basic proficiency.

CHI 2201 MODERN CHINESE IV
PR: CHI 2200 or the equivalent. Continuation of CHI 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

CHI 4905 DIRECTED STUDY
Permits study options in Modern Chinese not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours. (S/U only.)

CHI 4930 SELECTED TOPICS
(1-5) Course permits classes in Arabic not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours.

Chinese

CHI 1110 MODERN CHINESE I
CR: CHI 1120L. Mandarin. An intensive study of basic skills: pronunciation, listening, comprehension, speaking, and some composition.

CHI 1120L MODERN CHINESE I LABORATORY
CR: CHI 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

CHI 1121 MODERN CHINESE II
CR: CHI 1121L. Mandarin. PR: CHI 1120 or equivalent. A continuation of CHI 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

CHI 1121 MODERN CHINESE II LABORATORY
CR: CHI 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

CHI 1121 MODERN CHINESE III
PR: CHI 1121 or the equivalent. For language students who intend to attain basic proficiency.

CHI 2201 MODERN CHINESE IV
PR: CHI 2200 or the equivalent. Continuation of CHI 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

CHI 4905 DIRECTED STUDY
Permits study options in Modern Chinese not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours. (S/U only.)

CHI 4930 SELECTED TOPICS
(1-5) Course permits classes in Modern Chinese not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours.

French

FRE 1040 FRENCH FOR READING
Designed to provide a reading ability in French that will support research in other disciplines. Primarily for graduate students.

FRE 1120 BEGINNING FRENCH I
CR: FRE 1120L. The first course in the study of elementary French. Emphasis on the development of basic skills in comprehension, speaking and reading.

FRE 1120L BEGINNING FRENCH I LABORATORY
CR: FRE 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

FRE 1121 BEGINNING FRENCH II
PR: FRE 1120 or equivalent. CR: FRE 1121L. A continuation of FRE 1120.

FRE 1121 BEGINNING FRENCH II LABORATORY
CR: FRE 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

FRE 1170 OVERSEAS STUDY-ELEM. FRENCH
Elementary-level French taught in France. In lieu of FRE 1120 and FRE 1121. Departmental approval required. May be repeated up to 8 credit hours.

FRE 2200 FRENCH III
PR: FRE 1122 or equivalent. A review of the basic structure of French.
FRE 2201 FRENCH IV (3) PR: FRE 2200 or equivalent. Readings in French on the intermediate level.

FRE 2202 CONVERSATION I (3) PR: FRE 1121. For development of basic conversational skills.

FRE 2270 OVERSEAS STUDY-INTR. FRENCH (1-6) PR: Two semesters of university-level French or equivalent proficiency. Departmental approval required. May be repeated up to 12 credit hours.

FRE 2400 FRENCH LITERATURE AND CULTURE (3) PR: FRE 2201 or equivalent. This course is designed to build reading skills while giving students a broad background in French culture.

FRE 3240 CONVERSATION II (3) PR: FRE 2241 or equivalent proficiency. Conversation practice with concentration on current idiomatic usage.

FRE 3420 COMPOSITION I (3) A fundamental composition course for students who have completed FRE 2200 and/or 2201.

FRE 3430 FRENCH FOR BUSINESS (3) PR: FRE 3400 or Cl. Intensive language study in French. Departmental approval required. May be repeated up to 12 credit hours.

FRE 3470 OVERSEAS STUDY (1-6) An intensive study-travel project in France. Departmental approval required. May be repeated up to 12 credit hours.

FRE 3500 FRENCH CIVILIZATION (3) PR: Two semesters of university-level French or equivalent. Readings and discussion on the cultural history of France.

FRE 4421 COMPOSITION II (3) Continuation of French composition. This course is designed to follow FRE 3420.

FRE 4471 ADVANCED OVERSEAS STUDY (1-6) PR: FRE 3470 or Cl. Intensive language study in France. Departmental approval required. May be repeated up to 12 credit hours.

FRE 4700 FRENCH LINGUISTICS (3) PR: LIN 3010 and FRE 2200 or equivalent. An introduction to the phonological, morphological and syntactic structure of French.

FRE 4905 DIRECTED STUDY (1-3) Departmental approval required.

FRE 4930 SELECTED TOPICS (1-3) Study of an author, movement or theme.

FRE 4970 ADVANCED WRITTEN EXPRESSION (3) PR: FRE 4421 or equivalent. Course is designed to give advanced training in free composition in French.

FRE 5566 CONTEMPORARY FRANCE (3) PR: FRE 3500 or equivalent or graduate standing. An advanced course in French civilization and culture including a study of recent social, artistic and political trends as well as various current intellectual movements. Text and discussions in French.

FRW 4100 INTRODUCTION TO FRENCH NOVEL (3) PR: FRE 3230, FRE 3420. A study of the history of the novel from its early appearance to present times with emphasis on the 19th and 20th centuries. Authors to be studied include Chretien de Troyes, Rabelais, Balzac, Flaubert, Proust, Camus, Sartre, Robbe-Grillet, and others. Specific content may vary from year to year.

FRW 4101 INTRODUCTION TO FRENCH DRAMA AND POETRY (3) PR: FRE 3230. A study of the history of drama and poetry. Will include medieval drama, Racine, Corneille, Molieres, Anouilh, Sartre, Ionesco and others. Will also include Villon, Ronsard, DuBellay, Lamartine, Hugo, Vigny, Musset, Baude­ laire, Mallarme, Rimbaud, Valery, Peguy, Eliard, Apollinaire, Char, and others. Course content may vary from year to year.

FRW 5222 CLASSICAL PROSE AND POETRY (3) PR: FRW 4101. Emphasis on Malherbe, La Fontaine, Boul­ eau, Descartes, and Pascal.


FRW 5288 THE 20TH CENTURY NOVEL (3) PR: FRW 4100. Proust, Gide, Mauriac, Malraux, Camus, Robbe-Grillet.

GER 1120 BEGINNING GERMAN I (4) CR: GER 1120L. Development of basic skills in listening and reading comprehension, speaking and writing of German.

GER 1120L BEGINNING GERMAN I LABORATORY (1) CR: GER 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

GER 1121 BEGINNING GERMAN II (4) PR: GER 1120 or equivalent. CR: GER 1121L. Continued development of basic skills in listening and reading comprehension, speaking and writing German.

GER 1121L BEGINNING GERMAN II LABORATORY (1) CR: GER 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

GER 2200 GERMAN III (3) PR: GER 1121 or equivalent. A review of the basic structure of spoken and written German. May be taken concurrently with GER 2201.

GER 2201 GERMAN IV (3) PR: GER 1121 or equivalent. Readings in German on the intermediate level. May be taken concurrently with GER 2200.

GER 3244 CONVERSATION I (3) PR: GER 1121. For development of basic conversational skills.

GER 3420 COMPOSITION I (3) A fundamental course for students who have completed GER 2200 or GER 2201.

GER 3500 GERMAN CIVILIZATION (3) PR: GER 2200 or GER 2201. Readings in German on the cultural history of Germany.

GER 4410 CONVERSATION II (3) Free conversation based on the current German idiom.

GER 4421 COMPOSITION II (3) Practical training in modern German usage and differences of style.

GER 5845 HISTORY OF THE GERMAN LANGUAGE (3) A diachronic approach to the study of the German language. The course traces the history and development of the language from IndoEuropean through Germanic, Old, Middle, and New High German.
**GET 3100 GERMAN LITERATURE IN ENGLISH**
**TRANSLATION ; VARIABLE TOPICS -XMW**
(3)
Analysis and interpretation of major works of German literature, to be read in English, with regard to their thought content and selection of our thoughts and actions.

**GEW 4100 SURVEY OF GERMAN LITERATURE**
(4)
Old High German and Middle High German literature in modern German; translation; the literature of Humanism and Baroque, the classical period.

**GEW 4101 SURVEY OF GERMAN LITERATURE II**
(4)
The Romantic period, 19th and 20th centuries.

**GEW 4900 DIRECTED STUDY**
(1-3)
Departmental approval required.

**GEW 4930 SELECTED TOPICS**
(1-3)
Study of an author, movement or theme.

**GEW 5475 20TH CENTURY LITERATURE TO 1945**
(3)
A study of major styles in German literature from 1900 to WW II with emphasis on Hauptmann, Schnitzler, Hofmannsthal, George Rilke, Kaiser, Heym, Trakl, Thomas Mann, Hesse, Kafka, Benn, Brecht.

**GEW 5515 THE ENLIGHTENMENT**
(3)
Selected dramas and critical writings by Lessing, Wieland, Kant.

**GEW 5545 ROMANTICISM**
(3)
Jenaer circle and Heidelberg circle; the late romantic period, the writers between Classicism and Romanticism.

**GEW 5555 REALISM**
(3)
Selected works by Grillparzer, Grabbe, Buchner, Hebbel, Heine, Immrnerman, Stifter, Keller, Meyer, Storm, Raabe, Huls, and Morike.

**GEW 5505 GOETHE**
(3)

**GEW 5506 FAUST**
(3)
Sources, form, content, and literary significance of Urfaust and Faust.

**GEW 5515 SCHILLER**
(3)
Selected dramas, philosophical and aesthetic writings.

**GEW 5934 SELECTED TOPICS**
(1-3)
PR: Upper-level or graduate standing. Study of an author, movement or theme.

**Greek**

**GRK 1120 BEGINNING MODERN GREEK I**
CR: GRK 1120L. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.
(4)

**GRK 1120L BEGINNING MODERN GREEK I LABORATORY**
CR: GRK 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)
(1)

**GRK 1121 MODERN GREEK II**
PR: GRK 1120 or its equivalent; CR: GRK 1121L. A continuation of GRK 1120. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.
(4)

**GRK 2200 MODERN GREEK III**
PR: GRK 1121 or the equivalent. For language students who intend to attain basic proficiency.
(4)

**GRK 2201 MODERN GREEK IV**
PR: GRK 2200 or its equivalent. Continuation of GRK 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.
(4)

**GRK 4905 DIRECTED STUDY**
(1-5)
Permits study options in Modern Greek not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours. (S/U only.)

**Hebrew**

**HBR 1120 MODERN HEBREW I**
CR: HBR 1120L. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.
(4)

**HBR 1120L MODERN HEBREW I LABORATORY**
CR: HBR 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)
(1)

**HBR 1121 MODERN HEBREW II**
PR: HBR 1120 or its equivalent; CR: HBR 1121L. A continuation of HBR 1120. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.
(4)

**HBR 2200 MODERN HEBREW III**
PR: HBR 1121 or the equivalent. For language students who intend to attain basic proficiency.
(4)

**HBR 2201 MODERN HEBREW IV**
PR: HBR 2200 or its equivalent. Continuation of HBR 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.
(4)

**HBR 4905 DIRECTED STUDY**
(1-5)
Permits study options in Modern Hebrew not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours.

**Italian**

**ITA 1120 BEGINNING ITALIAN I**
CR: ITA 1120L. The first course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking, and reading.
(4)

**ITA 1120L BEGINNING ITALIAN LABORATORY**
CR: ITA 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)
(1)

**ITA 1121 BEGINNING ITALIAN II**
CR: ITA 1121L. The second course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking and reading.
(4)

**ITA 1220 INTERMEDIATE ITALIAN I**
PR: ITA 1121 or equivalent. Readings in Italian on the elementary level. A review of the basic structure of spoken and written Italian.
(4)

**ITA 3240 ITALIAN CONVERSATION I**
To develop fluency and correctness in spoken Italian. Intensive study for conversational skill based particularly upon the current Italian idiom. Syntax is intensified and the vocabulary and idiomatic expressions expanded.
Japanese
JPN 1120 MODERN JAPANESE I 
CR: JPN 1120L. An intensive study of basic skills: pronunciation, listening comprehension, speaking, and some composition.
JPN 1120L MODERN JAPANESE I LABORATORY 
CR: JPN 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)
JPN 1121 MODERN JAPANESE II 
PR: JPN 1120 or equivalent. CR: JPN 1121L. A continuation of JPN 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.
JPN 1121L MODERN JAPANESE II LABORATORY 
CR: JPN 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)
JPN 2200 MODERN JAPANESE III 
PR: JPN 1121 or equivalent. Continuing study to attain basic proficiency in Japanese.
JPN 2201 MODERN JAPANESE IV 
PR: JPN 2200 or equivalent. Continuation of JPN 2200. Practice of writing, speaking, and listening skills to attain basic proficiency.
JPN 4905 DIRECTED STUDY 
Permits study options in Japanese not available in regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours. (S/U only.)
JPN 4930 SELECTED TOPICS 
Course permits study options in Japanese not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours.

Polish
POL 1120 BEGINNING POLISH I 
CR: POL 1120L. This course features all four major skills: listening, reading, speaking, and writing. Grammar exercises, dictation, readings and vocabulary-building are central in this first course. Knowledge of Russian can help.
POL 1120L BEGINNING POLISH I LABORATORY 
CR: POL 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)
POL 1121 BEGINNING POLISH II 
PR: POL 1120 or equivalent. CR: POL 1121L. This course continues the four basic skills of POL 1120, with continued emphasis on structures, dialogues, readings, dictation, and vocabulary-building. Knowledge of Russian can help.

Portuguese
POR 1120 BEGINNING PORTUGUESE I 
CR: POR 1120L. Development of basic skills in listening and reading comprehension, speaking and writing of Brazilian Portuguese.
POR 1120L BEGINNING PORTUGUESE I LABORATORY 
CR: POR 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)
POR 1121 BEGINNING PORTUGUESE II LABORATORY 
CR: POR 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)
POL 1120 BEGINNING RUSSIAN I 
CR: RUS 1120L. The first course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading.
RUS 1120L BEGINNING RUSSIAN I LABORATORY 
CR: RUS 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)
RUS 1121 BEGINNING RUSSIAN II 
PR: RUS 1120 or CI. CR: RUS 1121L. The second course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading.
RUS 1121L BEGINNING RUSSIAN II LABORATORY 
CR: RUS 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)
RUS 1122 BEGINNING RUSSIAN III LABORATORY 
CR: RUS 1122L. A survey of Russian literature, including literature from the 18th century and continuing to present. A survey of Russian literature, covering the entire period of Russian language development, with emphasis on structures, dialogues, readings, dictation, and vocabulary-building. Knowledge of Russian can help.
SPAN 1130 ACCELERATED SPANISH FOR NEAR-NATIVE SPEAKERS AND OTHERS (1-6)
PR: Cl. Accelerated course for near-native speakers and others with some knowledge of Spanish capable of making rapid progress.

SPAN 2200 SPANISH III (3)
PR: SPN 1121 or equivalent. A review of the basic structure of spoken and written Spanish. May be taken concurrently with SPN 2201. Not open to native or near-native speakers of Spanish.

SPAN 2201 SPANISH IV (3)
PR: SPN 1121 or equivalent. Readings in Spanish on the intermediate level. May be taken concurrently with SPN 2200. Not open to native or near-native speakers of Spanish.

SPAN 2240 CONVERSATION I (3)
PR: SPN 1121. For development of basic conversational skills. Not open to native or near-native speakers of Spanish.

SPAN 3241 CONVERSATION II (3)
PR: SPN 2240 or equivalent. To improve fluency in spoken Spanish. Not open to native or near-native speakers of Spanish.

SPAN 3270 OVERSEAS STUDY (1-6)
PR: SPN 1121. An intensive study-travel program in a Spanish-speaking country. Prior departmental approval and early registration are required.

SPAN 3300 COMPOSITION (3)
PR: SPN 2240-2201. A study of syntax, grammar and writing. Not open to native or near-native speakers of Spanish.

SPAN 3340 SPANISH FOR NATIVE SPEAKERS I (3)
PR: Native or near native oral/aural proficiency. 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 grammatical problems affecting such speakers. Texts and discussions in Spanish. This is primarily a discussion type of course, open to all majors and minors. May not count as Spanish major elective.

SPAN 3341 SPANISH FOR NATIVE SPEAKERS II (3)
PR: SPN 3340. 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 without formal training in a language. Emphasis on those aspects of written expression such as style and syntax which are problematic for such speakers. Texts and discussions in Spanish. This is a discussion course, open to all majors and minors. May not count as Spanish major elective.

SPAN 3440 SPANISH FOR BUSINESS (3)
PR: SPN 2201 or equivalent. An introduction to the Spanish language as used in undertaking ordinary business transactions.

SPAN 3441 ADVANCED SPANISH FOR BUSINESS WRITING (3)
PR: SPN 3440 or equivalent. Continuation of SPN 3440. Advanced business communication in Spanish through discussion, reading, and writing of representative texts from Spain, Mexico, and the Spanish speaking Caribbean. Emphasis on business forms and composition of proposals, reports, records, and the language of advertisement. Texts and discussions in Spanish. This is a discussion course, open to all majors and minors. May not count as Spanish major elective.

SPAN 3520 SPANISH AMERICAN CIVILIZATION (3)
Readings and discussions on the culture and civilization of Spanish America. For majors and non-majors.

SPAN 3530 SPANISH CIVILIZATION (3)
PR: SPN 1121. The culture and civilization of Spain.

SPAN 3541 SPANISH AMERICAN HISTORY (3)
PR: SPN 3520. Reading and discussions on the culture and civilization of Spanish America. For majors and non-majors.

SPAN 4301 EXPOSITORY WRITING (3)
PR: SPN 3300. Practical training in contemporary Spanish structure, usage and stylistic devices. Not open to native or near-native speakers of Spanish.

SPAN 4413 ADVANCED CONVERSATION (3)
PR: SPN 3241 or equivalent. Intensive practice in the formulation and expression of ideas in standard Spanish. Not open to native or near-native speakers of Spanish.
SPN 4470 ADVANCED OVERSEAS STUDY (1-6) PR: SPN 3270. Intensive language study in Spain. Departmental approval required.

SPW 5934 SELECTED TOPICS (3) PR: SPW 3030 or equivalent. Study of an author, movement or theme.

Yoruba

YOR 1120 YORUBA I (4) This course is designed to familiarize students with modern oral and written Yoruba and to develop skills in reading, writing, speaking, and understanding spoken Yoruba. Pronunciation in Yoruba and achieving basic communicative competence in the language are among the skills to be attained in the course.

YOR 1121 YORUBA II (4) A continuation of YOR 1120, this course delves further into the structure of Yoruba and its grammatical functions. Also covered is practice in reading elementary texts with emphasis on grammar, vocabulary, and an appreciation for style. Also included is composition and drills in oral work. May be repeated up to 8 credit hours.
<table>
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<tr>
<th>TSL 4374 Methodology of Teaching English Overseas</th>
<th>3</th>
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<tbody>
<tr>
<td>PR: Upper-level standing. Designed to introduce and prepare the enrollee in the various facets of teaching English as a foreign language in the overseas setting. It will include aspects of teaching verbal skills and comprehension as well as writing. It involves a practicum at the English Language Institute on campus.</td>
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<tr>
<th>TSL 5321 ESOL Strategies for Content Area Teachers</th>
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<tr>
<td>This course is designed for public school teachers working with limited English proficient (LEP) students in the classroom. The new ESOL requirements specify that this course be offered to content area teachers and to ESOL teachers. May not be repeated for additional credit hours.</td>
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<tr>
<th>TSL 5371 Methods of Teaching English as a Second Language</th>
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<tr>
<td>Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.</td>
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<tr>
<th>LIBRARY AND INFORMATION SCIENCE</th>
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<tbody>
<tr>
<td>LIS 2001 Information Resources and Library Research</td>
<td>3</td>
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<tr>
<td>An introduction to the resources of the University of South Florida Library. Emphasis will be placed on library materials germane to the course work of the undergraduate.</td>
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<tr>
<th>LIS 2002 Introduction to the Internet</th>
<th>3</th>
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<tr>
<td>Covers the history, structure, and use of the Internet, with an emphasis on using the Internet to answer educational, research, and other information-based needs.</td>
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<tr>
<th>LIS 2937 Selected Topics in Library/Information Science</th>
<th>(1-3)</th>
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<tbody>
<tr>
<td>Covers a variety of topics in the field of library/information science such as emerging technologies, administration and service, and other professions. May be repeated up to 3 credit hours total when topic varies.</td>
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<tr>
<th>LIS 5315 Instructional Graphics</th>
<th>3</th>
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<tr>
<td>PR: Cl. Theoretical aspects, planning and production of instructional graphic material. The Theory of Graphic Communications. Interpreting needs for instructional materials appropriate for given behavioral objectives.</td>
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<tr>
<th>LIS 5333 TV in School and Libraries</th>
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<tr>
<td>Small format video tape recordings and the utilization of open and closed broadcasts in schools and libraries.</td>
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<tr>
<th>LIS 5404 Foundations of Library and Information Science</th>
<th>3</th>
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<tbody>
<tr>
<td>Introduction to the study of library and information science, such as library service, organization, specialized literature, outstanding leaders; current trends, issues, and problems; the place of the information agency in society with its contributions to that society.</td>
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<tr>
<th>LIS 5937 Selected Topics in Library Studies</th>
<th>(1-4)</th>
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<tbody>
<tr>
<td>PR: Cl. Covers a variety of topics in such areas as collection development, reference services, technical services, and administration.</td>
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<tr>
<th>MARINE SCIENCE</th>
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<tr>
<td>OCE 3001 Introduction to Oceanography-NS</td>
<td>3</td>
</tr>
<tr>
<td>Overview of biological, chemical, geological, and physical oceanography. (Also listed under Geology.)</td>
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<tr>
<th>OCE 4930 Selected Topics in Marine Science</th>
<th>(1-4)</th>
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<tbody>
<tr>
<td>Selected topics in the marine sciences including marine biology, marine chemistry, marine geology, physical oceanography, and interdisciplinary topics relating to marine environments.</td>
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<tr>
<th>MASS COMMUNICATIONS</th>
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<tr>
<td>ADV 3000 Introduction to Advertising</td>
<td>3</td>
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<tr>
<td>PR: MMC 3100 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.</td>
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<tr>
<th>ADV 3002 Advertising Design</th>
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<tr>
<td>PR: ADV 3000 for advertising majors; VIC 3000 for other Mass Comm majors. Application of graphic design principles to various areas of advertising. Combining visual and verbal elements effectively.</td>
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<tr>
<th>ADV 3101 Advertising Copywriting</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR: ADV 3000 and ECO 2023. Study of laboratory experience in preparation of advertising copy for newspapers, magazines, radio, television, direct mail, outdoor displays, and special items.</td>
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<thead>
<tr>
<th>ADV 3103 Radio-Television Advertising</th>
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<tbody>
<tr>
<td>PR: ADV 3000. An intensive study and analysis of radio and television for advertising purposes, including copywriting, script and storyboard preparation, time buying and selling techniques, audience research methods, and basic production concepts.</td>
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<thead>
<tr>
<th>ADV 3300 Advertising Media Strategy</th>
<th>3</th>
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<thead>
<tr>
<th>ADV 3700 Retail Advertising Planning and Execution</th>
<th>3</th>
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</thead>
<tbody>
<tr>
<td>PR: ADV 3000 and ADV 3101. A study of retail advertising, including management decisions, processes, procedures, media planning, production techniques, and problems affecting the development of advertising to fulfill retail objectives.</td>
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<thead>
<tr>
<th>ADV 4800 Advertising Campaigns</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR: ADV 2001, ADV 3000, ADV 3300, MMC 4420, ECO 2013, ECO 2023, and MAR 3023. Advanced advertising course requiring planning and production of complete general advertising campaign, including research, production methods, budgeting, and media schedules.</td>
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<thead>
<tr>
<th>ADV 4940 Advertising Practicum</th>
<th>1</th>
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<tbody>
<tr>
<td>PR: Cl. For selected advertising sequence majors. Practical experience outside the classroom in a live advertising situation where the student works for academic credit under the tutelage of a professional practitioner. (S/U only.)</td>
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<thead>
<tr>
<th>FIL 3004 The Film as Mass Communication I: Syntax</th>
<th>(3)</th>
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<tbody>
<tr>
<td>PR: MMC 3100 and MMC 3602. The language, conventions, elements, and patterns of the film medium as related to current models of effective mass communication and new theories of nonverbal communication. Concurrent laboratory experiences in control of light and line.</td>
<td></td>
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<thead>
<tr>
<th>FIL 3200 The Film as Mass Communication II: Rhetoric and Stylistics</th>
<th>(3)</th>
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</thead>
<tbody>
<tr>
<td>PR: FIL 3004. A continuation of FIL 3004 to include the effective arrangements of scenes and sequences in motion picture and television films. Concurrent laboratory experiences in sound and editing.</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>FIL 4404 Social History of the Film, 1945 to the Present</th>
<th>(3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR: MMC 3100 and MMC 3602. The development of the film from 1945 to the present.</td>
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<thead>
<tr>
<th>JOU 3100 Beginning Reporting</th>
<th>(3)</th>
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<tbody>
<tr>
<td>PR: MMC 3100 and MMC 3602. Basic instruction in news judgment, sources of news, newsgathering, and newswriting techniques. Typing ability is required.</td>
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<thead>
<tr>
<th>JOU 3101 Advanced Reporting</th>
<th>(3)</th>
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<tbody>
<tr>
<td>PR: POS 2041, JOU 3100, or RTV 3300 (RTV majors only), JOU 4200 (may be taken concurrently), and PHI 1103. Getting information and writing the more complex and specialized story, techniques of investigative and analytical reporting, including ethical and legal considerations.</td>
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<thead>
<tr>
<th>JOU 3102 Magazine Article and Feature Writing</th>
<th>(3)</th>
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<tbody>
<tr>
<td>PR: CRW 2100, JOU 3100. Planning, researching, writing, and marketing articles for general and special interest magazines and newspaper magazine supplements; experiences in developing article idea; inductive analysis of contemporary magazine articles.</td>
<td></td>
</tr>
</tbody>
</table>
MMC 3306 CRITICAL WRITING: EDITORIALS, REVIEWS, COLUMNS
PR: JOU 3101, JOU 4200. 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 personal columns.

JOU 3940 REPORTING PRACTICUM
PR: JOU 3101 and CI. For selected News-Editorial Sequence majors. Practical experience outside the classroom in the live newspaper reporting situation where the student works for academic credit under the tutelage of a professional practitioner. (S/U only.)

JOU 4104 PUBLIC AFFAIRS REPORTING
PR: JOU 3101, POS 2041 and 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 4200 NEWS EDITING I
PR: ECO 1003, JOU 3100, and SYG 3010. Evaluating news and its display, editing and rewriting copy for the mass media, with emphasis on the daily newspaper; news judgment, headlines, makeup; ethical problems.

JOU 4206 NEWSPAPER DESIGN AND TYPOGRAPHY
PR: JOU 4200 or CI. Theoretical and practical applications of newspaper design; problems in newspaper layout; the research of newspaper typography and design and its application: redesign of contemporary newspapers.

JOU 4941 EDITING PRACTICUM
PR: Senior standing, JOU 4200 and CI. For selected News-Editorial Sequence majors. Practical experience outside the classroom at a daily newspaper copdesk, where the student works for academic credit under the tutelage of a professional news editor. (S/U only.)

JOU 4944 MAGAZINE PRACTICUM
PR: Senior standing and CI. For selected Magazine Sequence majors. Practical experience outside the classroom in a live magazine or industrial publication situation where the student works for academic credit under the tutelage of a professional practitioner.

JOU 5116 EXPLORATIONS IN NEWSWRITING
PR: Graduate Status in Mass Communications or CI. 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 what is sometimes a bigger stake in the news. The focus is on going beyond traditional practices of reporting and writing news stories.

MMC 3100 WRITING FOR THE MASS MEDIA
PR: Sophomore standing; 2.7 GPR; grade of "C" in ENC 1101, ENC 1102, typing proficiency, and passing score on English Diagnostic Test. An introduction to the basic skills of writing for the mass media with practice in library research, persuasive writing, and informational writing.

MMC 3602 MASS COMMUNICATIONS AND SOCIETY
PR: Sophomore standing. 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 4123 MEDIA SCRIPT WRITING
PR: MMC 3100 and MMC 3602. An introduction to the techniques of writing scripts for photographic and multimedia presentation, electronic media, and industrial and documentary film.

MMC 4200 HISTORY AND PRINCIPLES OF COMMUNICATIONS LAW
PR: MMC 3100 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, and public relations.
COLLEGE OF ARTS AND SCIENCES

UNIVERSITY OF SOUTH FLORIDA - 1996/97 UNDERGRADUATE CATALOG

PUR 4700 PUBLIC RELATIONS PRACTICUM (1)
PR: Senior standing and CI. For selected Public Relations Sequence majors. Practical experience outside the classroom in a professional public relations situation where the student works for academic credit under the tutelage of a professional practitioner.

RTV 3202 INTRODUCTION TO TELECOMMUNICATIONS (3)
PR: MMC 3100 and MMC 3602. A survey of the organization, structure, and function of the broadcasting industry.

RTV 3100 WRITING FOR RADIO AND TV (3)
PR: ENC 3310 or CRW 2100, RTV 3002. The writing of radio and television scripts such as documentaries, children's programs, commercials, dramas, talks, and demonstrations.

RTV 3210 RADIO PRODUCTION AND DIRECTION (3)
PR: RTV 3002. Radio production and direction; laboratory and broadcast experiences.

RTV 3225 VIDEO WORKSHOP (1)
PR: MMC 3100 and MMC 3602. An introduction to the techniques and applications of field television production and electronic editing.

RTV 3300 BROADCAST NEWS (4)
PR: MMC 3602 AND MMC 3100. The study and methods in gathering, writing, and editing newscasts for radio and television.

RTV 3941 RADIO PRACTICUM (1)
PR: RTV 3210 and CI. The study, rehearsal, and production of radio programs and materials. (S/U only.)

RTV 4220 TV PRODUCTION AND DIRECTION (3)
PR: RTV 3002, and junior standing. A basic course in the techniques of producing and directing TV programs.

RTV 4301 TV NEWS FILM (3)
PR: RTV 3002 and RTV 3300. Techniques in writing and filming for television news.

RTV 4320 ELECTRONIC FIELD PRODUCTION (3)
PR: RTV 3002 and RTV 3300. Advanced producing, scripting, lighting, camera, and editing for video production on location. Introduction to computer editing and graphics.

RTV 4500 THE BROADCAST PROGRAM (3)
PR: RTV 3002. Program concepts, resources, costs, selection and scheduling. Analysis of programming in terms of structure and strengths.

RTV 4700 TELECOMMUNICATIONS LAW AND POLICY (3)
PR: for Broadcast News Option: RTV 3002, RTV 3300, MMC 4200, POS 3142 or POS 2112; for Programming Option: RTV 3002, RTV 4500, RTV 3100 or RTV 3300, and Senior standing. A study of broadcasting industry from the perspective of governmental regulation and the political process with special emphasis on how regulatory policy is determined.

RTV 4942 TV PRACTICUM (1)
PR: RTV 4420 and CI. The study, rehearsal and production of television programs and materials. (S/U only.)

VIC 3000 INTRODUCTION TO VISUAL COMMUNICATIONS (3)
PR: MMC 3100 and MMC 3602. The survey of visual communication theory, techniques, and their contemporary application and social influences as applied to the visual media with emphasis on still photography, motion pictures, video tape, and graphics.

VIC 3943 VISUAL COMMUNICATIONS PRACTICUM (1)
PR: Senior standing and CI. For selected Visual Communications Sequence majors. Practical experience outside the classroom in a professional environment where the student works for academic credit under the tutelage of a professional practitioner. (S/U only.)

MATHMATICS

CGS 3422 COMPUTER APPLICATIONS OF MATHEMATICS -6A (3)
CR: MAS 3103. Introduction to FORTRAN (WATFIV) with special emphasis on its applications to Mathematics.

COP 4213 MATHEMATICAL PROBLEM SOLVING USING PASCAL -6A (3)
PR: MAS 3103, and the ability to program at least one other language. The highly structured programming language PASCAL is used to solve numerical and non-numerical problems in mathematics involving graph theory, combinatorics, and number theory. Non-numerical data structures and algebraic manipulation are emphasized.

MAA 4211 MULTIVARIATE CALCULUS -6A (4)
PR: MAC 3131 or MAC 3283 with a grade of "C" or better, MAS 4301 and MAS 3103. Vector-valued functions, multiple integrals, line and surface integrals.

MAA 4212 INTERMEDIATE ANALYSIS -6A (4)

MAC 2104 REAL ANALYSIS I (3)
PR: MAA 4212. Riemann-Stieltjes integrals, uniform convergence, Fourier series, Lebesque measure and integration on R.

MAC 5307 REAL ANALYSIS II (3)

MAA 5405 APPLIED COMPLEX ANALYSIS (3)
PR: CI. Complex numbers, analytic and harmonic functions. Series. Contour integrals, residue theory. Conformal mappings. (A survey course emphasizing techniques and applications.)

MAC 2114 COLLEGE ALGEBRA -6A -QM (3)
PR: Two years of high school algebra. 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.

MAC 2114 COLLEGE TRIGONOMETRY -6A -QM (3)
PR: Two years of high school algebra. Angles, Trigonometric functions, properties and graphs of trigonometric functions, right triangles, laws of sines and cosines, polar coordinates. (No credit for students with credit in MAC 2132.)

MAC 2114 COLLEGE ALGEBRA AND TRIGONOMETRY -6A -QM (4)
PR: Two years of high school algebra. Real numbers and their properties, algebraic expression, equations and inequalities, functions, polynomials, exponential and logarithmic functions. Angles, trigonometric functions, properties and graphs of trigonometric functions, right triangles, laws of sines and cosines, polar coordinates. (No credit for students with credit in MAC 2132 for students with credit in MAC 3233 or MAC 2102.)

MAC 3233 ELEMENTARY CALCULUS I -6A -QM (4)
PR: Three years of high school mathematics including two years of algebra or MAC 2102. Differentiation and integration of algebraic functions with applications, exponential and logarithmic functions. MAC 3233-MAC 3234 are primarily for students from Biological Sciences, Social Sciences and Business. (No credit for math majors or students with credit in MAC 3281 or MAC 3311).

MAC 3234 ELEMENTARY CALCULUS II -6A -QM (4)
PR: MAC 3233. Techniques of integration, differential equations, functions of several variables, series and Taylor polynomials. (No credit for Mathematics majors or students with credit in MAC 3282 or MAC 3312.)

MAC 3281 ENGINEERING CALCULUS I -6A -QM (3)
PR: Two years of high school algebra, and a semester of trigonometry or MAC 2132. A year of high school geometry is recommended. Differentiation, limits, differentials, extrema, indefinite integral. (No credit for students with credit in MAC 3233 or MAC 3311.)

MAC 3282 ENGINEERING CALCULUS II -6A -QM (3)
PR: MAC 3281 or CC. Definite integral, trigonometric functions, log, exponential, series, applications. (No credit for students with credit in MAC 3234 or MAC 3312.)

MAC 3283 ENGINEERING CALCULUS III -6A (3)
PR: MAC 3282 or CC. Techniques of integration, numerical methods, analytic geometry, polar coordinates, Vector algebra, applications. (No credit for students with credit in MAC 3313.)

MAC 3293 CALCULUS I -6A -QM (4)
PR: Two years of high school algebra, and a semester of trigonometry or MAC 2132. A year of high school geometry
1998197
rem, Mersenne primes, perfect numbers, Euler-Fermat the-

MAD 180
MAD
MAD
MAD
MAE 5875 ABSTRACT ALGEBRA
MAP 5316
MAP 5345
MAP
MAP
credit for students with credit in MAC
aspects of discrete mathematics that are
digital computing. Topics include sets, numbers, algorithms,
Boole.

MAP 5307 DISCRETE MATHEMATICS -6A
PR: MAC 3281 or MAC 3311. An introduction to some of
the aspects of discrete mathematics that are fundamental to
digital computing. Topics include sets, numbers, algorithms,

MAP 5101 LISP: PROGRAMMING WITH ALGEBRAIC
APPLICATIONS
PR: MHF 5306 or MAD 6510 or MAC 5311 or Cl. Program-
ing in LISP, functional languages, foundations of Lambda
Calculus and algebraic applications (theorem proving
and game playing).

MAP 5304 INTRODUCTION TO GRAPH THEORY
PR: Cl. Brief introduction to classical graph theory (4-color
theorem, etc.), directed graphs, connected digraphs, con-
densations, incidence matrices, Polya's Theorem, networks.

MAE 5875 ABSTRACT ALGEBRA FOR TEACHERS
PR: MAS 5103 and MAS 4301 and bachelor's degree or CC.
Groups, fields, vector spaces as they relate to high school
algebra and geometry. (No credit for Mathematics majors.)

MAE 5877 MATHEMATICAL ANALYSIS FOR TEACHERS
PR: MAC 3313 and bachelor's degree or CC. Advanced
consideration of limits continuity, derivatives, differentials.
(No credit for Mathematics majors.)

MAT 2930 SELECTED TOPICS IN MATHEMATICS
PR: Cl. The course content will depend on the interests
of faculty members and student demand.

MAT 4906 INDEPENDENT STUDY -6A
PR: Cl. 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
regarding independent study. May be repeated. (S/U only.)

MAT 4930 SELECTED TOPICS IN MATHEMATICS -6A
PR: Cl. The course content will depend on the interests
of faculty members and student demand.

MAT 4937 MATHEMATICS MAJORS SEMINAR -6A
Directed discussions on a variety of topics of interest to
math majors, including career opportunities in mathematics. May
be repeated up to 2 credit hours. (S/U only.)

MAT 4939 MATHEMATICS HONORS SEMINAR -6A
PR: Admission to Mathematics Honors Program or CC.
Directed discussions on a variety of topics of mathematical
interest. May be repeated up to 8 credit hours. (S/U only.)

MATH 2100 MODERN MATHEMATICS WITH
MATHEMATICAL APPLICATIONS
PR: Two years of high school algebra. Topics in finite math,
real vs. computer number systems, inequalities, functions,
graphs, introduction to BASIC programming and microcom-
puters, exact and approximate solutions of algebraic equa-
tions, probability, computer simulations of models.

MATH 2202 FINITE MATHEMATICS -6A -QM
PR: Two years of high school algebra. Concepts and analyti-
cal skills in areas of logic, linear equations, linear program-
mation, mathematics of finance, permutations and combina-
tions, probability, and descriptive statistics.

MATH 3103 LINEAR ALGEBRA -6A
PR: MAC 3282 or 3312. Linear equations, matrices, real
vector spaces, relationship between linear transformations and
matrices, determinants, inner product spaces, eigenval-
ues and eigenvectors.

MATH 3124 NUMERICAL LINEAR ALGEBRA -6A
PR: MAC 3103. This course will consider efficient and stable
numerical methods for dealing with matrix computations
such as the solution of systems, calculation eigenvalues and
vectors, least squares, and so on.

MATH 4156 VECTOR ANALYSIS -6A
PR: MAC 3313 or MAC 3283 or Cl. The algebra and calculus
of vectors, line and surface integrals, Divergence Theorem,
Stokes' Theorem, generalized coordinates, applications.
(No credit for both MAA 4211 and MATH 4156.)

MATH 4161 ELEMENTARY NUMBER THEORY -6A
PR: MAC 3312. Divisibility, prime numbers, Fundamental
Theorem of Arithmetic, Diophantine equations, the algebra
of congruences, number functions and other selected topics.

MATH 4301 ELEMENTARY ABSTRACT ALGEBRA -6A
PR: MAC 3312 or MAC 3282. An introduction to basic set
theory: sets, functions, and relations. An introduction to the
basic algebraic structures: groups, rings, and fields. Ho-
momorphisms and isomorphisms. A rigorous treatment of
the real and complex number systems.

MATH 5107 ADVANCED LINEAR ALGEBRA
PR: MAS 3103, MAS 4301 (or MAF 4102) or Cl; CR: MAS
3511. The study of finite dimensional vector spaces over
arbitrary fields. Topics covered include dual spaces, canonical
forms for linear transformations, inner product spaces, orto-
ogonal, unitary and self-adjoint operators and quadratic
forms.

MATH 5215 NUMBER THEORY
PR: MAS 3103 and MAS 4301, or Cl. Fundamental theorem
of arithmetic, modular arithmetic, Chinese remainder the-
orem, Mersenne primes, perfect numbers, Euler-Fermat the-
orem, pseudoprimorbs, primitive roots, law of quadratic
reprocity, factorization and primality testing algorithms.

MATH 5311 ALGEBRA I
PR: MAS 3103 and MAS 4301, or Cl. 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.

MATH 5312 ALGEBRA II
PR: MAS 5103 or Cl. Continuation of MATH 5311. Finite
ly generated modules over a principal ideal domain, basic field
theory, finite fields, Galois theory.

MATH 5936 HONORS SEMINAR -6A
PR: Admission to Mathematics Honors Program or CC.
Directed discussions on a variety of topics of mathematical
interest. May be repeated up to 8 credit hours. (S/U only.)

MATH 6970 MATHEMATICS SENIOR THESIS
PR: Cl. Each course covers a single topic outside the usual
curriculum.