Admissions Criteria
2. HONORS 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.
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.

Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

Students should demonstrate proficiency at the intermediate level within the target language. This may be accomplished by completing 6-12 hours within the language by demonstrating competency at the intermediate level. If this coursework (or associated competency) is not completed at the community college, it must be completed before the degree is granted. A grade of "C" is the minimum acceptable grade. Students are encouraged to complete the following prerequisites, or major, support, or elective courses if available during the program of study at the community college, and then feasible in General Education/Gordon Rule courses.

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)
  - CLT 3040 (3)
  - LIN 4600 (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 types of foreign or foreign-related employment, either in government or business.

Major programs leading to the bachelor of arts degree are offered in French, German, Italian, 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)
- FRE 4100 (3)
- FRE 2240 (3)
- FRE 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 2240 (3)
- FRE 3420 (3)

Supporting courses required for the minor
- 9 hours in 3000, 4000, or 5000 level courses except courses in translation.
Students should demonstrate proficiency at the intermediate level within the target language. This may be accomplished by completing 6-12 hours within the language or by demonstrated competency at the intermediate level. If this coursework (or associated competency) is not completed at the community college, it must be completed before the degree is granted. Students are encouraged to complete the following prerequisites, or major, support, or elective courses if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

ECN 1101 English I 3
ECN 1102 English II 3
Social Science (any HIS, SOC, ANT, etc.) 6
Humanities (any HUM) 6
Beginning and Intermediate "Target Language" (XXX 1120, 1121, and 2200) 14-19

■ LIBRARY AND INFORMATION SCIENCE (LIS)
The School of Library and Information Science offers undergraduate classes to meet a wide range of information literacy needs as a support of the university's academic programs. The courses provide the understanding and skills needed to access essential information resources in an increasingly information-driven, technological world, whether in support of scholarship in academic disciplines or the occupational demands of society.

Students are able to take a variety of classes that will prepare them to access and assess these information resources. Topics taught in these classes include: using the Internet to answer educational and research needs; designing and creating web pages; efficiently finding and using the information resources of the modern, and increasingly electronic, library. The School also offers the following classes that focus on using library resources in specialized areas: Science Information Sources; Business Information Sources; and Social Science Information Sources.

The School's faculty will counsel those undergraduates interested in graduate study in librarianship. 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).

For more information, visit our web site at http://www.cas.usf.edu/lis.

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

The Department of Marine Science (DMSC) 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 28 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 the 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. A newly occupied research building is shared by DMS and FMRI and houses a remote-sensing, satellite data-acquisition center. The U.S. Geological 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 in 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 the concept of freedom of information as the cornerstone of Constitutional Democracy and preparing students for future leadership roles in communications media. Graduates should understand the structure and functions of mass media systems as well as the basic processes of communication. In addition, students specialize in an area of mass communications (advertising, journalism, public relations, or telecommunications) to blend a strong introduction to professional skills with the theoretical orientation.

 Majors seeking careers in the mass media will be directed to the various media with which the School maintains close contact for summer internships, practica and part-time work. A limited number of students will have the opportunity to serve as interns with a mass communications organization and take MMC 4945 for three hours credit. See MMC 4945 in catalog course listings.

**Note:** Students may not receive credit for both an internship (MMC 4945) and a practicum (ADV 4940, JOU 3940, JOU 4941, PUR 4700, RTV 3941, RTV 4942, VIC 3943).

- **Requirements for the Major in Mass Communications**

  To be admitted to the core curriculum in Mass Communications, students must have completed 45 hours with a 2.7 minimum Overall Grade Point Average, and ENC 1101 and 1102 with a minimum grade of "C" in each. Applicants must establish a minimum score of 60 percent on the Mass Communications Diagnostic Test prior to entering MMC 2100 (Writing for Mass Media). Both courses in the Mass Communications core curriculum (MMC 2100 and MMC 3602) must be completed with a minimum grade of "C" before any other Mass Communications course may be taken. Students failing to achieve a minimum grade of "C" in both MMC 2100 and MMC 3602 will be disqualified 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.

  The Mass Communications major requires six hours of core curriculum courses (MMC 2100 and MMC 3602) and 28 hours of a combination of required and selective sequence courses for a total of 34 hours in Mass Communications within the 124-hour degree requirement. Six hours in Mass Communications writing courses (three hours in addition to MMC 2100) are a part of the graduation requirement.

  Mass Communications majors are required to take a minimum of 90 hours in courses outside the journalism and mass communications areas, with no fewer than 65 hours in the basic liberal arts and sciences. (Liberal Arts courses are listed in materials available from the School program advisor.) To facilitate this, no more than 34 hours of Mass Communications courses may be applied toward the bachelor's degree within the 124-hour graduation requirement. Mass Communications majors taking more than 34 hours of Mass Communications courses, regardless of the departments in which those courses are listed, must add those hours to the 124 hours required for graduation. In particular, film and photography courses offered in other departments may be considered to be Mass Communications courses and added to the 124-hour degree 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.

  A 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMC 2100</td>
<td>3</td>
</tr>
<tr>
<td>MMC 3602</td>
<td>3</td>
</tr>
</tbody>
</table>

  **Sequence Requirements**

  1. **ADVERTISING Requirements**

     | ADV 3000 | ADV 4800 | MMC 4203 |
     |---|---|---|
     | 3 | 3 | 3 |

  2. **JOURNALISM Requirements**

     | ADV 3101 | ADV 4940 | MMC 4420 |
     |---|---|---|
     | 3 | 1 | 2 |

  3. **Selective Requirements**

     | ADV 3300 | MMC 4203 |
     |---|---|
     | 3 | 3 |

  **Note:** The following courses are required outside the School to complete sequence requirements: ACG 3074, ECO 1000, and MAR 3023. See specific courses for prerequisites.

  2. **PUBLIC RELATIONS Requirements**

     | ADV 3000 | PUR 3000 | MMC 4203 |
     |---|---|---|
     | 3 | 3 | 3 |

     | JOU 2100 | MMC 4420 |
     |---|---|
     | 3 | 3 |

  **Selective Requirements**

     | ADV 4003 | MMC 4420 |
     |---|---|
     | 3 | 3 |

  **Note:** The following courses are required outside the School to complete sequence requirements: ECO 1000, PHI 1103, POS 2041, and POS 2112 or POS 3142, and SYG 3010. For Magazine Option, MMC 2100 and RW 2100 is also required. See specific courses for prerequisites.

  3. **PUBLIC RELATIONS Requirements**

     | ADV 3000 | PUR 3000 | MMC 4203 |
     |---|---|---|
     | 4 | 4 | 4 |

     | MMC 4420 |
     |---|
     | 3 |

  **Selective Requirements**

     | ADV 3000 | MMC 4203 |
     |---|---|
     | 3 | 3 |

  **Note:** The following courses are required outside the School to complete sequence requirements: ECO 1000, MAN 3025, POS 2041, and POS 2112 or POS 3142.
4. TELECOMMUNICATIONS Requirements

News Option
MMC 4200 (3) MMC 4420 (3) RTV 3001 (3)
RTV 3304 (4) RTV 4301 (3)

Selective Requirements (12 hrs. required, selected with advisor's approval)
Programming and Production Option
RTV 3001 (3) RTV 3304 (4) MMC 4200 (3)
RTV 2100 (3) RTV 4220 (3) MMC 4420 (3)
RTV 4500 (3) RTV 4320 (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 2000, PHI 1103, POS 2041, POS 2112 or POS 3142, and SPC 2023.

For Programming and Production: CRW 2100 or ENC 3310, and PHI 1103. See specific courses for prerequisites.

Selective Requirements (6 hrs. required, selected with advisor's approval)

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.

• Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

This is a limited access program. Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

Students should complete 18 semester hours outside the Mass Communications curriculum at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. A grade of "C" is the minimum acceptable grade. Students are encouraged to complete the following prerequisites, or major, support, or elective courses if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses.

English Composition (minimum grade of "C") 6
MMC 3602 Mass Communications and Society 3

Prior to being admitted to the School of Mass Communications, a student must:

Complete a minimum of 45 semester hours including all General Education requirements and six hours of English composition (with a minimum grade of "C"), earn a 2.7 overall GPA, and pass a School-administered English diagnostic test.

• Requirements for the Minor in Mass Communications

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

The minor in Mass Communications requires a minimum of 18 hours of School coursework, including:
MMC 2100 (3) MMC 3602 (3)
The other 12 hours may be selected from among School offerings and must include a minimum of 9 hours at the 3000-level or higher. All major course prerequisites must be met. A grade of "D" or "F" will not be counted toward a mass communications minor and a 2.5 grade point average in all minor coursework must be maintained. All minor hours must be completed at USF.

MATHMATICS (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 31 full-time faculty members, whose areas of interest include: algebra, applied mathematics, approximation theory, celestial mechanics, complex analysis, dynamical systems, functional analysis, graph theory, logic, number theory, ordinary differential equations, partial differential equations, potential theory, probability theory, real analysis, statistics, theoretical computer science, and topology.

• 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. A minimum of 12 hours of 4000 level or higher mathematics courses must be taken in residency and must be applicable to the major.

1. Mathematics Requirement (Min. 45 cr. hrs.)

Majors must complete the following core courses:

COP 4313 Symbolic Computations in Mathematics 3
MAA 4211 Intermediate Analysis I 4
MAC 2311 Calculus I 4
MAC 2312 Calculus II 4
MAC 2313 Calculus III 4
MAP 2302 Differential Equations 3
MAS 3105 Linear Algebra 3
MAS 4301 Elementary Abstract Algebra 3
MAT 2636 Technology Seminar 1
MAT 4373 Mathematics Majors Seminar 1
MGF 3301 Bridge to Abstract Mathematics 3
STA 4442 Introduction to Probability 3

In addition, majors must complete three (3) courses from the following electives:

CGS 3422 Problem Solving Using Pascal or C 3
MAA 4212 Intermediate Analysis II 3
MAA 4402 Complex Variables 3
MAD 4401 Numerical Analysis 3
MAD 4504 Theory of Computation 3
MAD 5305 Introduction to Graph Theory 3
MAP 5345 Applied Partial Differential Equations 3
MAP 5407 Methods of Applied Mathematics 3
GRS 4124 Numerical Linear Algebra 3
MAS 4156 Vector Calculus 3
MAS 4214 Elementary Number Theory 3
MTH 5405 History of Modern Mathematics 3
MTG 4212 Geometry 4
MTG 4302 Introduction to Topology 3
STA 4321 Introduction to Statistics 3
STA 5166 Computational Statistics 3
STA 5228 Sampling Techniques 3
Special topics courses, listed under MAT 4930, or other 5000-level mathematics courses can also be taken as electives, with the approval of an undergraduate advisor. In addition, one elective of high mathematical content can be taken from another department, with the approval of an undergraduate advisor and the chairman.

An undergraduate advisor will work with the student in recommending electives which are appropriate for the student’s interests and goals.

The following is a typical mathematics course program for mathematics majors:

**Semester 1**
- MAC 2311 Calculus I 4

**Semester 2**
- MAC 2312 Calculus II 4
- MAT 2936 Technology Seminar 1

**Semester 3**
- MAC 2313 Calculus III 4
- MGF 3301 Bridge to Abstract Mathematics 3

**Semester 4**
- MAP 2302 Differential Equations 3
- MAS 3105 Linear Algebra 3

**Semester 5**
- MAS 4301 Elementary Abstract Algebra 3
- COP 4313 Symbolic Computations in Mathematics 3

**Semester 6**
- STA 4442 Introduction to Probability 3
- Elective 3-4

**Semester 7**
- MAA 4211 Intermediate Analysis I 4
- Elective 3-4

**Semester 8**
- MAT 4937 Mathematics Majors Seminar 1
- Elective 3-4

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 2023
- GEB 2111
- PHY 2020
- STA 2122

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

- **Requirements for the Minor in Mathematics**

  The minor in mathematics is open to all students. Students with majors in the sciences, engineering, business, and the social sciences are particularly encouraged to pursue the minor. A student wishing to receive a minor in mathematics must meet the following course requirements (minimum of 24 cr. hrs.):

1. **Required Courses** (18 cr. hrs.)

   Either
   - MAC 2311 Calculus I 4
   - MAC 2312 Calculus II 4
   - MAC 2313 Calculus III 4
   
   Or
   - MAC 2281 Engineering Calculus I 3
   - MAC 2282 Engineering Calculus II 3
   - MAC 2283 Engineering Calculus III 3
   - MAP 2302 Differential Equations 3

   Also, both of the following:
   - MAS 3105 Linear Algebra 3
   - MGF 3301 Bridge to Abstract Mathematics 3

2. **Elective Courses** (Min. 6 cr. hrs.)

   Any 2 courses (3 or more credit hours each) which are required or elective for the major in mathematics.

- **Teacher Education Programs**

  For information concerning the degree programs for secondary school teachers, see the description given in the Mathematics Education section of this catalog.

- **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
   - CHM 2010 Biology I - Cellular Processes 3
   - BSC 2101L Biology I - Cellular Processes Lab 1
   - BSC 2111 Biology II - Diversity 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. 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
   - CHM 2200 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

   The student must complete one of the sequences

   - MAS 4123 Numerical Linear Algebra 3
   - MAD 4401 Numerical Analysis 4
   - MAP 5407 Methods of Applied Mathematics 3
   - MAP 5345 Applied Partial Differential Equations 3

2. Supporting courses

   - PHY 2053 General Physics 3
   - PHY 2053L General Physics Lab 1
   - PHY 2054 General Physics and Lab 3
   - PHY 2054L General Physics Lab 1
   - GLY 2101 Dynamic Earth: Introduction to Physical Geology 3
   - GLY 2101L Dynamic Earth Lab 1
   - GLY 2100 History of the Earth and Life 3
   - GLY 2100L Earth History Lab 1
• **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 the 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 Department of Mathematics (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:

1. have completed Elementary Abstract Algebra (MAS 4301),
2. have at least a 3.0 average in all college courses, and
3. have at least a 3.5 average in college mathematics courses.

Applications are submitted to the Undergraduate Committee of the Department of Mathematics.

The requirements for a B.A. degree in mathematics with honors are as follows:

1. completion of requirements for the major in mathematics,
2. six credit hours of graduate mathematics courses at USF,
3. completion of MAT 4970, Mathematics Senior Thesis,
4. at least a 3.0 average for all courses, and
5. at least a 3.5 average for mathematics courses.

• **Program of Study at a Florida Community/ Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured.

A student who transfers without an A.A. degree and has fewer than 60 semester hours of acceptable credit must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

<table>
<thead>
<tr>
<th>COP XXXX Computer Language Course (Pascal, FORTRAN, C, C+, or C++)</th>
<th>MAC X311 Calculus I</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC X312 Calculus II</td>
<td>MAC X313 Calculus III</td>
</tr>
</tbody>
</table>

Students must also complete two laboratory-based science courses, 4 - 8 semester hours total, from the respective science majors: Biology, Chemistry, or Physics.

**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 completed on campus; the fourth year (12 months) is completed at one of five affiliated hospitals in Florida, located in Tampa, Orlando, Tallahassee, and Jacksonville. Admission to the fourth year is limited by the number of openings in affiliated hospitals, and at the present time is competitive. Selection for the clinical program is made by the hospitals and students not admitted to a clinical program may need to select an alternative degree. Generally hospitals require a minimum GPA of 2.5, and our students admitted to clinical programs in recent years have had a mean GPA of about 3.0.

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. All sciences and mathematics requirements listed below, including Common Prerequisites and those specific to USF, with a "C" or higher in each course.

**Program of Study at a Florida Community/ Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured.

A student who transfers without an A.A. degree and has fewer than 60 semester hours of acceptable credit must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade. They may be completed at a community college or other institution or at USF. Courses available at USF are indicated with an asterisk.

1. General Biology with lab (e.g. BSC 1010, 1010L; BSC 2010, 2010L*)
2. Human Anatomy and Physiology I with lab (e.g. BSC 1085, 1085L) and Human Anatomy and Physiology II with lab (e.g. BSC 1086, 1086L)
3. Human Physiology with lab (e.g. PCB 4703C; BSC 3092*) and one of the following options: General Biology II with lab (e.g. BSC 1011, 1011L; BSC 2011, 2011L*) or Genetics with lab (e.g. PCB 3063, 3063L*) or Cell Biology with lab (e.g. PCB 3063, 3063L*)
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
  b. PHH 3420 History of Philosophy: Modern
  c. PHI 2100 Introduction to Formal Logic
     or PHI 5135 Symbolic Logic
  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
  PHH 3420 History of Philosophy: Modern
  PHH 4600 Contemporary Philosophy
  or
  PHH 4440 Continental Philosophy

PHI 2100  Introduction to Formal Logic
No credit taken on an "S/U" basis may be applied toward the minor.

Honors Program

The Honors Program in Philosophy allows superior students to pursue philosophical studies at a more advanced level than is customary in undergraduate philosophy programs. Students in the Honors Program will be required to do independent research, 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
   PHH 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 PHH 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 2600 Ethical Theory
   - PHI 3601 Contemporary Moral Issues
   - PHI 3700 Philosophy of Religion
   - PHI 4800 Aesthetics
   - PHM 3021 Philosophies of Love and Sex
   - PHM 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 4788 Philosophy of Marxism

   Group 4
   - PHP 4700 American Philosophy
   - PHP 3788 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 3.5 to remain, or be graduated from the Philosophy Honor's program.
(f) Students must complete 35 credit hours in Philosophy, including the 3-hour thesis course and the 3-hour Honors Seminar.
• Program of Study at a Florida Community/ Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

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

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

Mathematics (any courses).
Foreign Languages (Beginning and Intermediate German, French, or Latin) (1120-1121 level and 2200-2201 level)
Classics (CLT, CLA for example)

■ 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 2048: (3) PHY 3221 (3) PHY 4324C (4)
PHY 2048L: (1) PHY 3323C (4) PHY 4823L (2)
PHY 2049: (3) PHY 3822L (2) PHY 4910 (1-4)
PHY 2049L: (1) PHY 4222 (3) PHY 4930 (1)

Physics Electives (6)

B.S. PHYSICS (PHS) (44 cr. hrs.)

PHY 2048: (3) PHY 3323C (4) PHY 4604 (3)
PHY 2048L: (1) PHY 3424 (4) PHY 4823L (2)
PHY 2049: (3) PHY 3822L (2) PHY 4910 (1-4)
PHY 2049L: (1) PHY 4222 (3) PHY 4930 (1)
PHY 3101 (3) PHY 4324C (4) PHZ 5405 (3)
PHY 3221 (3) PHY 4523 (3)

The sequence PHY 2101 (2), PHY 2053 (3), PHY 2053L (1), PHY 2054 (3), and PHY 2054L (1) may be substituted for the sequence indicated.

Substitutions permitted subject to approval of adviser.

2. Supporting Courses in the Natural Sciences

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

CHM 2041 (3) CHM 2046L (1) MAC 2313: (4)
CHM 2045L (1) MAC 2311: (4) MAP 2302 (3)
CHM 2046 (3) MAC 2312: (4)

The sequence MAC 3221 (3), MAC 3222 (3), and MAC 3223 (3) may be substituted for the sequence indicated.

3. Liberal Arts Requirements

[General Education Requirements (36 cr. hrs.); Exit Requir­ements (9 cr. hrs.)]

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

4. Free Electives

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

5. Residency Requirement

A minimum of 20 credit hours of physics courses (1 above) in residency.

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 this college; for junior college teachers, see USF Graduate Catalog.

• Program of Study at a Florida Community/ Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

Mathematics (any courses).
Foreign Languages (Beginning and Intermediate German, French, or Latin) (1120-1121 level and 2200-2201 level)
Classics (CLT, CLA for example)

■ 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 2101
     - PSY 3022
     - SOP 3742

  2. **Methods Course Requirement (7 semester hours)**

     Successful completion of: PSY 3213 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 4304
     - CLP 4143
     - DEP 4005

     **Group II**
     - EXP 4404
     - EXP 4523C
     - INP 4004
     - PPE 4004

     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.
  - 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 approved by the Psychology Department. 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 4932 (6) and PSY 4970 (6). See the Psychology Department Undergraduate Advisor for details of the program and an application form.

- **Program of Study at a Florida Community/ Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

  Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

  Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

  - PSY X012 Introduction to Psychology or Any other lower level Psychology course

  - STA XXXX Any level Statistics course

  - BSC XXXX Any level Biology course or Any lower level Zoology course

**REHABILITATION COUNSELING (REF)**

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 over the last 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, and on the Internet at http://www.usf.cas.edu/ rehab_conseling/index.html.

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. GRE scores must be reported to USF before any application can be processed, and three letters of recommendation are required.

The mission of Rehabilitation Counseling is to help individuals with physical, mental, and psychiatric 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 occupational 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 and mental health counselors. A special elective concentration in substance abuse is offered, and other study concentrations can be arranged on an individual basis.
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 the 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). Within the 60-hour M.A. program, graduates are also able to meet Florida’s educational standards for licensure as a Clinical Mental Health Counselor.

### 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 12 hours taken elsewhere toward the major at the University of South Florida. Only letter grades will be counted toward the minimum of 24 credit hours taken at the University of South Florida for transfer students or 36 (for non-transfer students) credit hours necessary to complete the 36 credit hours required for the major. Students taking Religious Studies as a second major need to complete only 30 credit hours. To do so they must make a written request to the Undergraduate Director at the time they declare their major.

All majors must take:

- a. REL 3003 Introduction to Religion (3); and
- b. REL 4949 The Development of Religious Studies (3); and
- c. REL 4931 Seminar in Religion (3); and
- d. An additional 27 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 counted for transfer. Requests for transfer of credit must be made to the Undergraduate Director in writing when declaring a minor.

All minors must take:

- a. REL 3003 Introduction to Religion (3); and
- b. REL 4949 The Development of Religious Studies (3); and
- c. REL 4931 Seminar in Religion (3) - various topics
- d. An additional 9 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.

- **Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of “C” is the minimum acceptable grade.

- ENC 1101 English I 3
- ENC 1102 English II 3
- any HUM Humanities 6
- REL 3240 Introduction to the New Testament 3
- REL 3210 Hebrew Bible/Old Testament 3
- any HIS or SOC or ANT Social Studies 6
- any CLA or HEB Ancient Studies 3
- any HIS History 3
- any AML or LIT or ENL Literature 3
- any PHI Philosophy 3

### 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 additional 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 social work 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 three-stage process, i.e., common prerequisites, foundation, and core curriculum. Any student who holds a minimum of Sophomore standing and has completed common prerequisite work in political science, biology, economics, psychology and sociology (see specific requirements below) may declare a presocial 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 courses. Many students will have already taken most of the common prerequisite courses as part of general distribution at USF or in their course of study at a community college. After completion, a student will be ready for foundation courses in the pre-social work major, a final step in applying 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 common prerequisites and foundation courses (see listings);
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; dates will be posted in the Social Work office;
4. A student may be asked to complete an admission interview with a favorable action from the Undergraduate 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.

Common Prerequisite Courses (P)
A student must successfully complete, by earning a "C" or better:
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

Economics:
Basic Economics -SS

Foundation Courses (P') for Pre-Social Work Majors
1. One of the following cross-cultural courses or equivalency--

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)

2. Both of the following Social Work courses, earning a "B" or better:
   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 (4) SOW 3102 (4)
2. Social Welfare: Policy & Program 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 (3) SOW 4510L (6)
6. Multi-cultural America
   SOW 4522 (3)

**Summary:**
- Core Courses 29 hours
- Field Experience 9 hours
- **TOTAL 38 hours**

- **Program of Study at a Florida Community/ Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

   This is a limited access program. Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

   Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade. Students will be admitted to the Pre-Social Work program upon completion of these five courses:

   - American Government
   - Biology
   - Introduction to Economics
   - Macroeconomics or Microeconomics
   - Introductory Psychology
   - Introductory Sociology or Introduction to Social Problems

   Once the following courses are completed and other admissions criteria are met, students may be admitted to the School of Social Work.

   - Life cycle course spanning birth to death in an individual's life, 3-4 semester hours.
   - Cross-cultural issues, 3 semester hours.
   - SOW 3302 Introduction to Social Work, minimum grade = B.
   - SOW 3203 American Social Welfare, minimum grade = B.

* course phased out as requirement in 1998

- **SOCIOLOGY (SOC)**

   Sociology is the study of social life and the social causes and consequences of human behavior. Sociologists investigate the structure of groups, organizations, and societies. Because all human behavior is social, the subject matter of sociology ranges from intimate families to hostile mobs; from crime to religion; from the divisions of race, gender, and social class to the shared beliefs of a common culture; from the sociology of work to the sociology of emotions.

   The Sociology major is designed to provide students with a broad liberal arts education and a greater understanding and insight into the social systems and processes that bear upon everyday lives. Opportunities for students with Bachelor's degrees in Sociology are quite varied. Some go on to work for human service agencies; others work in personnel, criminal justice, and urban planning; others enter graduate programs in sociology, education, law, medicine, or social work. Toward these ends, all students are encouraged to become skilled in the use of computers and libraries.

- **Requirements for the Major in Sociology**

   The major consists of a minimum of 36 credit hours of Sociology coursework plus ISS STA 2122: Social Science Statistics or its equivalent. All university-wide regulations regarding transfer credits and credits needed for graduation apply, at least 27 of the 36 hours of coursework in Sociology must be USF credits. Only courses in which a grade of "C" or better is attained will count toward the minimum hours although lower grades are included in calculating the major GPA.

   The minimum of 36 credit hours in Sociology must include the following four core courses (12 hours):

   - SYG2000 Introduction to Sociology (May be replaced with an upper level sociology elective if a total of 12 or more hours of sociology coursework is completed before declaring a Sociology major)
   - SYA 3010 Classical Theory
   - SYA 3300 Research Methods (Prerequisite: STA 2122 Social Science Statistics or its equivalent)
   - SYA 4935 Senior Seminar (Students earning a grade less than "C" in this course must take an additional course in Sociology. In that event, the minimum number of Sociology credits is 39)

   The remaining 24 hours of sociology coursework may be comprised of any of the courses offered by the Sociology department with the exception of SYG 2412 Marriage. This course counts toward the total number of hours needed to graduate but it does not count toward the minimum number of sociology hours needed for the major. No more than three hours of SYA 4910 Individual Research may count toward the 36 hour minimum.

   Students are encouraged to make an appointment to talk with the Sociology Department Undergraduate Advisor when they have questions about major requirements or about which electives offered each semester would best meet their educational and career goals.

- **Requirements for the Minor in Sociology**

   A minor in Sociology consists of a minimum of 18 credit hours in Sociology, at least 12 of which must be USF credits. Minors must take SYG 2000 Introduction to Sociology and SYA 3010 Classical Theory. No more than three hours of SYA 4910 Individual Research, may count toward the 18 hour minimum; SYG 2412 Marriage does not count toward the total number of minimum hours for the minor. Only courses in which a grade of "C" or better is attained will count toward the minimum hours.

   While students do not declare a Sociology minor until application for graduation, they are encouraged to make an appointment with the Sociology Department Undergraduate Advisor if they wish to discuss which Sociology electives offered each semester would best meet their educational and career goals.
• Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

Students should complete two lower level introductory courses in Sociology prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. A grade of "C" is the minimum acceptable grade. Students are encouraged to take the following prerequisites, or major, support, or elective courses, if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses.

- STA 2122 Social Science Statistics
- SYG 2000 Introduction to Sociology
- WST 2010 Introduction to Women’s Studies

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.

All majors must complete 36 hours as follows:

Required Core Courses (6 hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WST 3011</td>
<td></td>
<td></td>
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</tbody>
</table>

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 5266
   - WST 4310

2. HISTORY
   - AMH 3561
   - AMH 3562
   - WST 3210
   - WST 3220
   - WST 2309
   - WST 4310

3. HUMANITIES
   - REL 3145
   - WST 4335
   - AMS 3370
   - WST 4262
   - WST 4263

4. SCIENCES
   - SOP 3742
   - SYD 4800
   - WST 4320
   - WST 4350

5. THEORY/PHILOSOPHY
   - WST 4342
   - PHI 4632
   - PHM 5125
   - WST 5001
   - WST 5318

The following courses, not included within the six areas of concentration, may be used to complete elective hours:

- WST 3010
- WST 3360
- WST 4900
- WST 4910

Students electing to major in Women’s Studies should consult the Undergraduate Advisor for timely scheduling of classes.

• Requirements for the Minor in Women’s Studies

A student wishing to minor in Women’s Studies will be required to take six courses:

- WST 3010 or WST 3011
- WST 4260
- WST 4262
- WST 4263
- WST 3275
- WST 5266

Minor in "WOMEN OF COLOR"

Women’s Studies offers a specific concentration in the area of Women of Color whose focus will be to examine the relationship between women of color and institutions of power. For those interested in the difficult task of creating a harmonious multi-ethnic world, this course of study should be personally and socially rewarding as well as academically challenging.

The concentration prepares students for graduate work and/or professional careers in traditional and non-traditional areas such as health and education, international relations, the creative arts, law, medicine, social work, government and public policy, the social sciences, and community organization.

The requirements for the minor are 15 hours which are to be selected from the following upper-level courses:

- AFA 4335
- WST 4260
- WST 4930
- ANT 4302
- WST 4262
- WST 5266
- WST 3275
- WST 4263

Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

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

Students are encouraged to take the following prerequisites, or major, support, or elective courses, if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

Social Sciences
- Liberal Arts

WST 3010 Intro to Women’s Studies
Courses to improve reading and writing skills
STUDENT ORGANIZATIONS IN THE
COLLEGE OF ARTS AND SCIENCES

Alpha Epsilon Delta (AED) - National Premedical Honor Society - Open to all USF students with an interest in health professions. To be inducted into the national honorary, students must have 3.0 overall GPA and science GPA with a minimum of 3 semesters of college work completed, including one semester at USF. Students do not need to be in the national honorary in order to participate in the chapter at USF.

Alpha Phi Sigma - To recognize and promote high scholastic achievement among students in the Criminal Justice major by supporting service projects, tutoring services, and other goal directed activities.

American Chemical Society - To enhance the students knowledge of chemistry and chemistry related fields.

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 Geographic 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.

Law 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 Literatures, 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, 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.

Preventive Society - USF Preventive 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-hands experience and the opportunity to produce a new 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-SSTC 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.

ARTS AND SCIENCES FACULTY

Africana Studies

Anthropology

Bachelors of Independent Studies
Director: F. Steier; Coordinator: F. Eilers; Area Coordinators: W. Heim (BIS Humanities), S. Kranc (BIS Natural Sciences), R. Wheeler (BIS Social & Behavioral Sciences).

Biology

Chemistry

Communication
Chairperson: E. Eisenberg; Professors: A. P. Bochner, K. N. Cisna, E. M. Eisenberg, L. S. Pettigrew, R. J. Schneider; Associate Professors: B. F. Downs, C. J. Jablonski, N. C. James, M. Neumann, A. D. Payne, F. Steier, M. L. Vanderford; Assistant Professors: E. E. Bell, J. Jorgenson, G. Rodman; Courtesy Faculty: M. Myers.

Communication Sciences and Disorders

Criminology

Economics

English

Environmental Science and Policy
Director: R. Khatar; Assistant Director: I. Bartsch

Geography

Geology

Gerontology

History

Humanities and American Studies

Interdisciplinary Social Sciences
Coordinator: R. J. Gagan; Professor: S. M. D. Stamps, Jr., R. H. Wheeler; Associate Professor: S. E. Cahill; Assistant Professor: C. R. Kasee; Lecturer: R. J. Gagan.

International Studies

Languages & Linguistics

Library and Information Science

Marine Science

Mass Communications

Mathematics

Medical Technology
Director: C. F. Hendry; Courtesy Professors: I. L. Brownarsey (Tampa General Hospital), W. Burgert (Tallahassee Memorial Regional Medical Center), N. M. Hardy (University Medical Center/Jacksonville), R. F. Holcomb (Florida Hospital), P. Patterson (St. Vincent’s Medical Center), Courtey Professors: 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. Truitt; Professors: J. P. Anton (Distinguished Professor of Greek Philosophy & Culture), J. A. Bell, P. A. French (Cole Chair in Ethics), J. A. Gould, L. L. McAlistier,
B. Silver, W. H. Truitt, R. C. Weatherford, K. Wi_redu; 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**


**Public Administration**

Director: W. J. Pammer, Jr.; Professors: J. E. Jreisat, S. A. MacManus, D. C. Menzel; Associate Professors: J. L. Daly, W. J. Pammer, Jr.; Assistant Professor: A. Njoh; Joint Appointments: Professors: J. C. Merrick; Associate Professors: J. E. Benton, R. Khator, P. N. Rigos.

**Psychology**


**Rehabilitation Counseling**

Chairperson: J. D. Rasch; Professors: W. G. Emener, J. D. Rasch; Associate Professor: T. J. Wright; Assistant Professors: C. Dixon, S. Kelley; Clinical Instructor: J. Ferrandino.

**Religious Studies**


**Social Work**


**Sociology**

Chairperson: D. Loseke; Professors: C. Ellis, D. Stamps; Associate Professors: G. Brandmeyer, S. Cahill, J. Friedman, B. Gunter, R. Hansen, M. Kleiman; Assistant Professors: L. Graham, S. Green, L. Kutcher, C. Ponticelli; Visiting Assistant Professor: L. Mayfield-Brown; Instructor: R. Buenteo; Emeriti: R. Francis, E. Nesman.

**Women's Studies**

Chairperson: L. L. McAlister; Professor: L. L. McAlister; Associate Professors: M. Myerson, J. B. Snook; Assistant Professors: I. Bartsch, C. DiPalma, G. Grewal, K. Vaz; Courtesy Associate Professors: R. A. Banes, L. M. Whiteford.

**ARTS AND SCIENCES COURSES**

**African Studies**


AFA 4150 AFRICA AND THE UNITED STATES - 6H - AF (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 as they relate 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 - XM (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 AFRICAN 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: African religion, value systems, art and the aesthetics, family and life-cycle, impact of Islam and Christianity and conflict of cultures.

AFS 2251 ENVIRONMENTAL-CULTURAL STUDY IN AFRICA - 6S - AF (3) PR: AFS 2250 or CI. Study tour. A study of traditional African society and culture, the relationship between life and the environment, and the impact of modernization on the culture and the environment.
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, the 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.)

AML 3604 AFRICAN AMERICAN LITERATURE -6A -XLW (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 ethnocentrism and class conflict will also be studied. (Also offered under American Studies.)

ANT 4034 THE CARIBBEAN - 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 of the Western World.

INR 4254 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 3103 BLACKS IN THE AMERICAN POLITICAL PROCESS (3)
An examination of the political experience of Blacks in the American political process including their political socialization, and struggle to become effective participants in the American political process. (Also offered under Political Science.)

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 Communication.)

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 2410 CULTURAL ANTHROPOLOGY -SS -AF (3)
PR: ANT 2000 or CI. Discussion of major methods of 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 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 biosocial 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 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 3610 ANTHROPOLOGICAL LINGUISTICS -SS (3)
PR: ANT 2000 or CI. The comparative study of language in its cultural context, especially emphasizing the role of language in the cultural interpretation of physical and social reality.

ANT 4034 THEORIES OF CULTURE (3)
PR: Senior standing with major in anthropology or equivalent. The major concepts that form the anthropological view of humanity are viewed in historical perspective. Basic ideas of the western philosophical tradition are analyzed from the Greeks to the 19th century when they became incorporated into the new discipline of anthropology. 20th century anthropological developments on these themes are considered.

ANT 4124 ARCHAEOLOGICAL FIELD METHODS (4-12)
PR: ANT 3100 or CI. 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 ARCHAEOLOGY -6A (3)
PR: ANT 3100 or CI. An examination of the evidence regarding the human settlement of North America from its
ANT 4158 FLORIDA ARCHAEOLOGY (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-Indian) through the elaborate Weeden Island and Safety Harbor burial and temple mound cultures to the Spanish entrada and consequences of European conquest. Review of temporal and spatial relationships within the entire eastern U.S. and elsewhere. May be part of a summer (or other semester) field school, combined with Field Methods in Archaeology and Laboratory Methods in Archaeology.

ANT 4162 SOUTH AMERICAN ARCHAEOLOGY (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, Wari, Chimú are included. Emphasis on the environmental setting and the relationship between cultural ecology and the growth of civilization.

ANT 4163 MESOAMERICAN ARCHAEOLOGY (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 4172 HISTORICAL ARCHAEOLOGY -6A -XMW (3)
PR: ANT 3100 or Cl. A survey and analysis of archaeology focused on the historic period. Laboratory research with data recovered from historic sites in addition to classwork.

ANT 4180 LABORATORY METHODS IN ARCHAEOLOGY (2-4)
PR: ANT 3100 or Cl. Data and materials recovered from archaeological survey and excavation are processed in the laboratory; includes artifact cleaning, cataloguing, identification, and analysis; soil flotation; reconstruction and conservation of artifacts, mapmaking, etc. May be offered as part of a summer (or other semester) field session. May be combined with Florida Archaeology and Field Methods in Archaeology.

ANT 4181 MUSEUM METHODS (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 of museum-related issues such as administration and curation.

ANT 4226 ANTHROPOLOGY OF ART -6A (3)
PR: ANT 2410 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 ethnic arts, and role of the artist.

ANT 4231 FOLKLORE -6A (3)
PR: ANT 2410 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 4241 MAGIC AND RELIGION -6A -XMW (3)
PR: ANT 2410 or Cl. The crosscultural study of the social and cultural aspects of religion. Religious activities in traditional and modern societies will be discussed. Religious behavior, religious institutions, 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 2410 or Cl. Focuses on various theories, models and beliefs about male-female behaviors and interactions in human cultures throughout history and in various societies in the world today. (Also offered under Women's Studies.)

ANT 4305 VISUAL ANTHROPOLOGY (3)
PR: ANT 2410 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 4312 NORTH AMERICAN INDIANS (3)
PR: ANT 2410 or Cl. An examination of the evidence for the origin and antiquity of human beings in North America and patterns of regional development until the period of contact with European colonists. Emphasis on varieties of ecological adaptation, social, political and religious systems, enculturation and worldview, folklore and visual art.

ANT 4316 ETHNIC DIVERSITY IN THE UNITED STATES -XMW (3)
PR: ANT 2410 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 4340 THE CARIBBEAN -6A -XMW (3)
PR: ANT 2410 or Cl. 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 African Studies.)

ANT 4432 THE INDIVIDUAL AND CULTURE -6A -XMW (3)
PR: ANT 2410 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 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 report presentation are stressed. Research design models from the case literature are studied and supervised research in the local community is designed and carried out.

ANT 4520 FORENSIC ANTHROPOLOGY (3)
A detailed overview of forensic anthropology, skeletal variation, techniques of stress, sex, age, population affiliation, aspects of osteological individually and identification, methods of osteological analysis. Open to majors/minors only.
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. Anatomy, genetics, and behavior are stressed; major primate types are surveyed for their biological adaptation. Primate socio-biology is discussed.

ANT 4583 PREHISTORIC HUMAN EVOLUTION -NS (3)
PR: ANT 3511 or CI. A survey of the fossil record from the early primates through the ascent of Homo sapiens sapiens, focusing on the human lineage. Biosocial patterns and cultures of the past are also covered.

ANT 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 -SA (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 2410 or CI. A review of approaches applying the anthropological perspective to contemporary human problems. Particular emphasis placed on public policy issues in the 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 -SA (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. (S/U only.)

ANT 4907 INDIVIDUAL RESEARCH (2-4)
PR: CI. Individual guidance in a selected research project. Contract required prior to registration. (S/U only.)

ANT 4930 SPECIAL TOPICS IN ANTHROPOLOGY (3)
PR: CI. Topics to be chosen by students and instructor presenting newly developing interdisciplinary 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 -SA (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 in writing 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. (S/U only.)

ANT 5015 INDIVIDUAL RESEARCH (2-4)
PR: CI. Individual guidance in a selected research project. Contract required prior to registration. (S/U only.)

ANT 5937 SEMINAR IN ANTHROPOLOGY (2-4)
PR: Graduate standing. Topics to be chosen by students and instructor.

Astronomy

AST 2005 ASTRONOMY OF THE SOLAR SYSTEM -NS (4)
PR: Junior or Senior Standing or CI. Seminar designed to assist the layman, with no scientific background, in comprehending contemporary developments in Astronomy. Necessary background material is provided by the instructor and a text. Topics covered in recent years include the space program, pulsars, x-ray astronomy, black holes, extra-terrestrial life, interacting galaxies, cosmology.

AST 3044 ARCHAEOASTRONOMY (3)
PR: Jr. or Sr. Standing or CI. Astronomical concepts and observational techniques used by prehistoric/ancient people 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 3525 NAVIGATION (3)
PR: Some knowledge of geometry, algebra, and trigonometry. Timekeeping, use of sextant, coordinates, celestial navigation with minimum equipment, spherical astronomy.

AST 3930 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 5010 INTRODUCTION TO CELESTIAL MECHANICS (3)
PR: MAC 2313 or MAC 2283 and some knowledge of differential equations, or CI. The two-body problem, introduction to Hamiltonian systems and canonical equations, 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

HUM 4909 BIS HUMANITIES, INDEPENDENT STUDY (15)
(S/U only)

HUM 4939 BIS HUMANITIES, SEMINAR PR: BIS HUM 4909 or CI (S/U only)

IDS 4944 BIS INTER-AREA STUDIES (30)
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)

ISC 4939 BIS NATURAL SCIENCES, SEMINAR PR: BIS ISC 4909 or CI (S/U only)
Biology

NOTE: Designated levels indicate for whom courses are intended: 2000-Freshman/Sophomore, 3000-Junior, 4000-Senior, 5000-Advanced Seniors and Graduate Student status. Student who attempt higher-level courses too early may not do well in them.

BOT 3373C VASCULAR PLANTS: FORM AND FUNCTION (4)

BOT 4143C FIELD BOTANY (3)
PR: BOT 3373C. Identification and classification of native and naturalized flowering plants of Florida including historical, climatic and floristic aspects of plant communities. Conducted largely in the field. Lec-lab.

BOT 4223C PLANT ANATOMY (3)
PR: BOT 3373C or MCB 3030C. A survey of the fungi with emphasis on their taxonomy, morphology, physiology and economic importance. Lec-lab.

BOT 4503 PLANT PHYSIOLOGY (3)

BOT 4503L PLANT PHYSIOLOGY LABORATORY (1)
CR/PR: BOT 4503. Laboratory portion of Plant Physiology.

BOT 4713C PLANT TAXONOMY (4)
PR: BOT 3373C. Principles of vascular plant systematics and evolution. Lec-lab.

BOT 4810 ECONOMIC BOTANY (3)
PR: BOT 3373C. Study of the uses of plants by man for food, chemicals, fibers, and medicines. Lec.

BOT 4850 MEDICAL BOTANY (3)
PR: BSC 2010, 2010L, BSC 2011, 2011L, CHM 3211, and Junior standing. Study of agents that are produced by plants and that are toxic or psychoactive in human beings or are useful as remedies. Lec.

BOT 4850L MEDICAL BOTANY LABORATORY (1)
CR/PR: BOT 4850. Laboratory study of medical botany.

BOT 5185C MARINE BOTANY (3)
PR: BOT 3373C and PCB 3043 or CI. A field course in marine plants with emphasis on ecology and functional morphology. Field work will stress the ecological aspects of plants in a subtropical marine environment in Florida. Lec-lab.

BSC 1005 BIOLOGICAL PRINCIPLES FOR NON-MAJORS-NS (3)
Lectures and demonstrations of selected biological principles, usually taught by television. For non-majors only. NO CREDIT FOR MAJORS.

BSC 2010 BIOLOGY I-CELLULAR PROCESSES-NS (3)

BSC 2010L BIOLOGY I CELLULAR PROCESSES LABORATORY (1)
CR/PR: BSC 2010. Laboratory portion of Biology I Cellular Processes.

BSC 2011 BIOLOGY II-DIVERSITY-NS (3)
An analysis of biological systems at the organismal and supraorganismal levels: evolution, speciation, history of life, and ecology. Lec.

BSC 2021L BIOLOGY II DIVERSITY LABORATORY (1)

BSC 2022 BIOLOGY OF AGING-NS (3)
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 free elective credit.

BSC 2025 FOOD: PERSONAL AND GLOBAL PERSPECTIVES-NS (3)
The application of basic biological principles to human nutritional problems, to learn how various cultures achieve adequate nutrition and how environmental changes impact both personal and global nutrition. Lec. May be taken by majors for free elective credit.

BSC 2030 SAVE THE PLANET-NS (3)
An introduction to environmental sciences via television and independent study. Emphasis will be placed on understanding basic principles of ecology relevant to problems and topics of the earth’s environment. May be taken by majors for free elective credit. Credit will be given for either BSC 2030 or BSC 2050, but not both.

BSC 2035 SEX & TODAY’S WORLD-NS (3)
The application of basic biological principles to female and male sexual behavior and reproduction; current social problems are treated from a biological perspective. Lec. May be taken by majors for free elective credit.

BSC 2050 ENVIRONMENT-NS (3)
The application of basic scientific principles to global environmental problems; how human activities impact the environment. Lec. May be taken by majors for free elective credit. Credit will be given for either BSC 2050 or BSC 2030, but not both.

BSC 2092 HUMAN ANATOMY & PHYSIOLOGY (5)

BSC 2932 SELECTED TOPICS IN BIOLOGY (1-4)
May be repeated.

BSC 3003 MARINE BIOLOGY (3)
PR: BSC 2010, 2010L, BSC 2011, 2011L. A survey of marine environment, the types of organisms found inhabiting a variety of marine habitats, and the adaptations of the organisms to those habitats. Emphasis is on shallow water Florida environments. Lec.

BSC 4057 ENVIRONMENTAL ISSUES-XMW (3)
Study of biological, economic, ethical, legal, political and social issues relating to current environmental problems. Lec. May be taken by majors for free elective credit only.

BSC 4402L BIOLOGICAL RESEARCH METHODS (3)
PR: BSC 4931 or BSC 4932. A course to prepare Biology Honors students to work on their Honors theses. Enrollment is limited to Biology Department students. S/U only.

BSC 4850 SOCIOBIOLOGY (3)
An analysis of Animal and human behavior such as sex, territoriality, and aggression in the context of evolution. This course is restricted to seniors.

BSC 4895 INDEPENDENT STUDY (1-3)
PR: CI and CC. Specialized independent study determined by the student's needs and interests. The written contract required by the Department of Biology specifies the regulations governing independent study. May be repeated. S/U only.

BSC 4910 UNDERGRADUATE RESEARCH (1-4)
CR: CI and CC. Individual investigation with faculty supervision. S/U only.

BSC 4931 BIOLOGY HONORS SEMINAR I (2)
A course linked to the Biology Department Seminar in which students read publications related to the seminars, discuss the presentations and write critiques. Enrollment is limited to Biology Department Honors students.

BSC 4932 BIOLOGY HONORS SEMINAR II (3)
A reading and discussion course involving areas of general interest in biology. Enrollment is limited to Biology Department Honors students.

BSC 4933 SELECTED TOPICS IN BIOLOGY (1-3)
May be repeated.

BSC 4970 BIOLOGY HONORS THESIS (1-3)
PR: BSC 4402L. A thesis based on independent research carried out by the student. Enrollment is limited to Biology Department Honors students. May be repeated; only four credit hours may count for the major. S/U only.
ENY 4004C INTRODUCTION TO ENTOMOLOGY (3) PR: BSC 2010, 2010L, BSC 2011, 2011L. An introduction to general aspects of insect morphology, development, and classification. The identification of local forms will be emphasized. Lec.-lab.

ENY 4006C AQUATIC ENTOMOLOGY (3) PR: ENY 4004C or CI. Taxonomy, development, and ecology of aquatic insects with emphasis on local forms. Lec.-lab.


MCB 4404 MICROBIAL PHYSIOLOGY AND GENETICS (4) PR: MCB 3020C, PCB 3023, and BCH 3203. 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.

MCB 4404L MICROBIAL PHYSIOLOGY & GENETICS LABORATORY (1) CR/PR: MCB 4404. Laboratory portion of Microbial Physiology & Genetics.

MCB 4502 VIROLOGY (3) PR: MCB 3020C. 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.

MCB 4910 MICROBIOLOGY UNDERGRADUATE RESEARCH (1-4) CR: AND CC, individual investigation with faculty supervision. S/U only.

MCB 4934 SEMINAR IN MICROBIOLOGY (1) CC. Advanced Junior or Senior standing. May be repeated. S/U only.

MCB 5206 PUBLIC HEALTH AND PATHOGENIC MICROBIOLOGY (3) PR: MCB 3020C or CI. A comprehensive survey of pathogenic microbes responsible for disease in man and other animals and the impact of these infectious agents on the public health. These pathogens will be studied with respect to their morphology, cultivation, mechanisms of pathogenicity, laboratory diagnosis, and epidemiology.

MCB 5815 MEDICAL MYCOLOGY (3) PR: MCB 3020C or CI. A modern biological survey of the medically important fungi (yeasts and molds) important to microbiologists and environmental scientists. Lec.-lab.

PCB 3023 CELL BIOLOGY (3) PR: CHM 2211, 2211L, and PCB 3063. A discussion of the concept and significance of the cell to biology; biological molecules and metabolic processes within the cell; cellular energy conversion systems; and control of cellular metabolism. Lec.

PCB 3023L CELL BIOLOGY LABORATORY (1) CR/PR: PCB 3023. Laboratory portion of Cell Biology.

PCB 3043 PRINCIPLES OF ECOLOGY (3) PR: BSC 2010, 2010L, BSC 2011, 2011L. An introduction to the basic principles and concepts of ecology at the ecosystem, community, and population level of organization. Lec.


of selected animal parasites, including those of major importance to man. Lec.

ZOO 5425C HERPETOLOGY (3)
PR: ZOO 2713C or CI. Major aspects of amphibian and reptilian biology emphasizing fossil history, evolutionary morphology, sensory physiology, life history and reproductive behavior. Field trip-Lec-lab.

ZOO 5456C INCHTHERMALOGY (4)
PR: Senior or GS Department and ZOO 2713C or CI. PCB 4674 is recommended. Evolution, systematics, structure, behavior, physiology, and ecology of fishes. Lec-lab.

ZOO 5555C MARINE ANIMAL ECOLOGY (4)
PR: PCB 3043 or CI. Investigation of energy flow, biogeochemical cycles, and community structure in marine environments. Lec-lab.

Chemistry

BCH 3023 INTRODUCTORY BIOCHEMISTRY (3)
PR: CHM 2200 or CHM 2212 and BSC 2010C. Introduction to the chemistry and intermediary metabolism of biologically important substances. Lec.

BCH 3032L BASIC BIOCHEMISTRY LABORATORY (2)
CR: BCH 3023. Practical work in determination and characterization of important biomolecules. Lec.-lab.

BCH 4034 ADVANCED BIOCHEMISTRY (3)
PR: BCH 3023. An advanced undergraduate course emphasizing such topics as metabolic regulation, DNA and RNA structure and function, receptors, channels, antibodies, and contraction.

BCH 5045 BIOCHEMISTRY CORE COURSE (3)
PR: Either CHM 2211, CHM 2211L, and CHM 3400 or CHM 4410 or graduate standing. A one-semester survey course in biochemistry for graduate students in chemistry, biology, and other appropriate fields and for particularly well-qualified undergraduates. Lec.

CHM 2021 CHEMISTRY FOR TODAY (3)
A one-semester terminal course designed to survey some of the important concepts and technologies of modern chemistry. No credit for science majors.

CHM 2030 INTRODUCTION TO GENERAL, ORGANIC AND BIOCHEMISTRY I (3)
First half of a two-semester sequence. Fundamental concepts of general, organic, and biological chemistry. No credit for science majors.

CHM 2031 INTRODUCTION TO GENERAL, ORGANIC AND BIOCHEMISTRY II (3)
PR: CHM 2030. Second half of general, biological and organic chemistry to credit for science majors.

CHM 2040 INTRODUCTORY GENERAL CHEMISTRY -NS (4)
PR: High school chemistry and high school mathematics including algebra are recommended. An introduction to the principles and applications of modern chemistry including the properties of matter, structural view of matter and reactions, quantitative relations in chemical reactions, technological aspects and societal impact.

CHM 2041 GENERAL CHEMISTRY I -NS (3)
PR: One year of high school chemistry and two years of high school mathematics including algebra; or, completion of CHM 2040 with grade of C or better. Principles and applications of chemistry including properties of substances and reactions, thermochemistry, atomic-molecular structure and bonding, periodic properties of elements and compounds.

CHM 2045L GENERAL CHEMISTRY I LABORATORY (1)
CR: CHM 2041. Laboratory portion of General Chemistry I. Introduction to laboratory techniques; study of properties of elements and compounds; synthesis and analysis of natural and commercial materials.

CHM 2046 GENERAL CHEMISTRY II -NS (3)
PR: CHM 2041 or CHM 2045L or equivalent. Continuation of General Chemistry. Lec.-dis.

CHM 2046L GENERAL CHEMISTRY II LABORATORY (1)
PR: CHM 2045L. Laboratory portion of General Chemistry II. Continuation of chemistry laboratory.

CHM 2200 ORGANIC CHEMISTRY (4)
PR: CHM 2046 or equivalent. Fundamental organic chemistry principles. Structure, nomenclature, properties, preparation, reactions of hydrocarbons, alkyl halides, alcohols, phenols, ethers, sulfur analogs and other compounds. A one-semester course.

CHM 2210 ORGANIC CHEMISTRY I (3)
PR: CHM 2046, CHM 2046L. Fundamental principles of organic chemistry. Lecture.

CHM 2210L ORGANIC CHEMISTRY LABORATORY I (2)

CHM 2211 ORGANIC CHEMISTRY II (3)
PR: CHM 2210 or equivalent. Continuation of organic chemistry. Lecture.

CHM 2211L ORGANIC CHEMISTRY LABORATORY II (2)

CHM 2392 SELECTED TOPICS IN CHEMISTRY (3)
Topics of interest to students relating to chemistry and other sciences.

CHM 3120C ELEMENTARY ANALYTICAL CHEMISTRY (4)

CHM 3400 ELEMENTARY PHYSICAL CHEMISTRY I (3)
PR: CHM 2046, CHM 2046L, MAC 2281 or MAC 2311, PHY 2054, PHY 2054L. Introduction to thermodynamics. Properties of solutions with emphasis on biological applications.

CHM 3401 ELEMENTARY PHYSICAL CHEMISTRY II (3)
PR: CHM 3400. Reaction kinetics, enzyme kinetics, macromolecular systems, radiochemistry, molecular spectroscopy, and chemical bonding.

CHM 3402L ELEMENTARY PHYSICAL CHEMISTRY LABORATORY (1)
PR: CHM 3120C. CR: CHM 3400 and/or CHM 3401. A physical chemistry laboratory with emphasis on modern techniques and instruments. Lab.

CHM 3610C INTERMEDIATE INORGANIC CHEMISTRY (4)
PR: CHM 2046, CHM 2046L. Fundamental principles of inorganic chemistry including atomic structure, bonding theories and structural consequences, transition metal chemistry and illustrative laboratory work. Lec.-lab.

CHM 3680L USE OF THE CHEMICAL LITERATURE (1)
Discussions and assignments using abstracts, electronic databases, and other information sources to obtain chemical and technical material and including written and oral presentations. Career information and opportunities also discussed.

CHM 4320 ORGANIC CHEMISTRY -NS (3)
PR: One year of college chemistry; or senior standing and CI. A study in depth of the historical and philosophical aspects of outstanding chemical discoveries and theories. Lec.-dis.

CHM 4320C METHODS OF CHEMICAL INVESTIGATION I (4)
PR: CHM 3120C, CHM 2211, CHM 2211L, CHM 4060, CHM 4410. Theory and applications of instrumental methods in chemical research, chemical synthesis and analysis; electrochemical and calorimetric techniques, separation methods, spectroscopy, statistical analysis of data, computer data handling, and individual projects.

CHM 4311C METHODS OF CHEMICAL INVESTIGATION II (4)
PR: CHM 4130C. Continuation of CHM 4130C.

CHM 4330 BIOMOLECULES I (3)
PR: CHM 2211. Nature, structure, elucidation, synthesis and (in selected cases) organic chemical mechanisms of biochemical involvement of the major classes of organic compounds found in living systems. Lec.

CHM 4410 PHYSICAL CHEMISTRY I (3)
PR: CHM 3120C and MAC 2282 or MAC 2312, and PHY 2054 or PHY 2049. Thermodynamics, the states of matter, solutions. Lec.
### CHM 4411 PHYSICAL CHEMISTRY II
- **Course Description:** (3) PR: CHM 3120C, and MAC 2282 or MAC 2312, and PHY 2054 or PHY 2049. Introduction to quantum mechanics and molecular spectroscopy. Lec.

### CHM 4412 PHYSICAL CHEMISTRY III
- **Course Description:** (3) PR: CHM 4410. Electrochemistry, kinetic theory of gases, statistical mechanics, surface and nuclear chemistry. Lec.

### CHM 4810 ADVANCED INORGANIC CHEMISTRY
- **Course Description:** (3) PR: CHM 3610 and CHM 4410 or CI. An advanced descriptive and theoretical treatment of inorganic compounds. Lec.

### CHM 4905 INDEPENDENT STUDY
- **Course Description:** (1-3) PR: CI. 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)

### CLA 3123 ROMAN CIVILIZATION -HP
- **Course Description:** (3) Study of Ancient Roman Civilization with emphasis on social customs, political institutions, and daily life.

### Courses in Translation

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CLT 3040</td>
<td>CLASSICAL WORD ROOTS IN SCIENCE</td>
<td>(3)</td>
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<tr>
<td>CLT 3101</td>
<td>GREEK LITERATURE IN TRANSLATION -SA -XMW</td>
<td>(3)</td>
</tr>
<tr>
<td>CLT 3370</td>
<td>CLASSICAL MYTHOLOGY -HP</td>
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### Greek

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<tr>
<td>GRE 1120</td>
<td>BEGINNING CLASSICAL GREEK I</td>
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</tr>
<tr>
<td>GRE 1121</td>
<td>BEGINNING CLASSICAL GREEK II</td>
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<td>GRE 2200</td>
<td>INTERMEDIATE CLASSICAL GREEK</td>
<td>(4)</td>
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<tr>
<td>GRW 4905</td>
<td>DIRECTED READING</td>
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<td>GRW 5905</td>
<td>DIRECTED READING</td>
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<tr>
<td>GRW 5934</td>
<td>SELECTED TOPICS</td>
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### Latin

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<tr>
<td>LAT 1120</td>
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<td>BEGINNING LATIN II</td>
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<td>LNW 4381</td>
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<td>LNW 4500</td>
<td>CICERO AND ROMAN PHILOSOPHY</td>
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<td>LNW 4634</td>
<td>CATULLUS</td>
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### Classics

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<tr>
<td>CLA 3103</td>
<td>GREEK CIVILIZATION -HP</td>
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### CHS 4300 FUNDAMENTALS OF CLINICAL CHEMISTRY
- **Course Description:** (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
- **Course Description:** (2-12) 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
- **Course Description:** (4) PR: CHM 4412 or Cl. Theory and practice of instrumental methods of chemical analysis. Lec.-lab.

### Classics

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<tr>
<td>CLA 3103</td>
<td>GREEK CIVILIZATION -HP</td>
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### Course Description:
- Study of Greek Civilization from its beginning to the Roman period, with emphasis on social customs, political institutions, and daily life.
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<tr>
<th>Course Code</th>
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<th>Description/Details</th>
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<tbody>
<tr>
<td>COM 2000</td>
<td>INTRODUCTION TO COMMUNICATION -SS</td>
<td>(3) Introduction to the roles, contexts, and issues in contemporary human communication. Required of Communication majors.</td>
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<tr>
<td>COM 3014</td>
<td>COMMUNICATION, GENDER AND IDENTITY</td>
<td>(3) Examines the communicative origins and implications of gender roles.</td>
</tr>
<tr>
<td>COM 3110</td>
<td>COMMUNICATION FOR BUSINESS AND THE PROFESSIONS</td>
<td>(3) Identification of communication situations specific to business and the professions. Analysis of variables related to communication objectives and preparation of oral presentations in the form of informational reports, conference management, persuasive communications, interviews, and public hearing. Note: For non-majors only.</td>
</tr>
<tr>
<td>COM 3120</td>
<td>INTRODUCTION TO COMMUNICATION THEORY IN ORGANIZATIONS</td>
<td>(3) PR: majors, COM 2000 or Cl; non-majors, COM 3122 or COM 3110 or Cl. A survey of communication concepts which impact upon organizational effectiveness.</td>
</tr>
<tr>
<td>COM 3122</td>
<td>INTERVIEW COMMUNICATION</td>
<td>(3) A study of communication theory relative to interview situations with emphasis on the employment interview, appraisal interview, and persuasive interview. Students must sign up for a one-hour lab and the mass lecture.</td>
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<tr>
<td>COM 3122L</td>
<td>INTERVIEW COMMUNICATION LAB</td>
<td>(0) Interview laboratory for practice and individual consultation. Students must take this course in conjunction with the mass lecture COM 3122. Open to majors and non-majors. Not repeatable.</td>
</tr>
<tr>
<td>COM 4030</td>
<td>WOMEN AND COMMUNICATION -6A -XMW</td>
<td>(3) Examines women’s patterns of communication in a variety of contexts. Cross-listed with Women’s Studies.</td>
</tr>
<tr>
<td>COM 4030W</td>
<td>WRITING WOMEN AND COMMUNICATION -6A -XMW</td>
<td>(3) PR: Junior/Senior standing or Cl. Emphasizes writing stories about our lives and the lives of others as a way to understand, cope with and communicate social experiences.</td>
</tr>
<tr>
<td>COM 4027</td>
<td>COMMUNICATING ILLNESS, GRIEF, AND LOSS -6A</td>
<td>(3) PR: Junior/Senior standing or Cl. Focus on stories of illness, grief, and loss to make sense of these experiences; to understand the cultural and rhetorical influences on how stories are told; and to explore the context of everyday life, romantic relationship, families, institutions, and culture in which they occur.</td>
</tr>
<tr>
<td>COM 4122</td>
<td>COMMUNICATION AND ORGANIZATIONAL CHANGE</td>
<td>(3) PR: COM 3120 or Cl. An advanced course covering current issues in organizational transformation (e.g., organizational dialogue, learning organizations, reengineering, work teams), and the role communication processes play in such changes.</td>
</tr>
<tr>
<td>COM 4942</td>
<td>COMMUNICATION INTERN SEMINAR</td>
<td>(3) PR: Communication major, minimum GPA 3.0, 75 hours completed, 15 hours of core requirements and 9 elective hours completed, and Cl. Seminar provides students with an opportunity to put into practice concepts and skills acquired in their study of communication. Weekly seminar discussions augment intern experience. Application for seminar must be submitted one semester prior to seminar offering.</td>
</tr>
<tr>
<td>COM 5930</td>
<td>TOPICS IN COMMUNICATION STUDIES</td>
<td>(3) Topical issues in communication. Rpt. up to 12 hours as topics vary.</td>
</tr>
<tr>
<td>ORI 2000</td>
<td>INTRODUCTION TO COMMUNICATION AS PERFORMANCE</td>
<td>(3) Designed to develop proficiency in the understanding and oral communication of literary and other written materials.</td>
</tr>
<tr>
<td>ORI 3950</td>
<td>COMMUNICATION AS PERFORMANCE LAB</td>
<td>(1-3) PR: ORI 2000 or Cl. The study, rehearsal, and performance of literature for Readers Theatre and Chamber Theatre productions. May be repeated (maximum total six hours).</td>
</tr>
<tr>
<td>ORI 4120</td>
<td>PERFORMANCE OF POETRY</td>
<td>(3) PR: ORI 2000 or Cl. Critical appreciation of lyric and narrative poetry and communication of that appreciation to audience. Study of poetic theory and prosodic techniques.</td>
</tr>
<tr>
<td>ORI 4310</td>
<td>GROUP PERFORMANCE OF LITERATURE</td>
<td>(3) PR: ORI 2000 or Cl. Designed to introduce the student to and give experience in various forms of group approaches to performance.</td>
</tr>
<tr>
<td>ORI 4931</td>
<td>PERFORMANCE AND VIDEO</td>
<td>(3) PR: ORI 2000 or Cl. Study of interpersonal communication in informally structured settings with emphasis on improvising speaking and listening skills common to all forms of oral communication through a variety of experience in public discourse.</td>
</tr>
<tr>
<td>ORI 3301</td>
<td>INTERPERSONAL COMMUNICATION -SS</td>
<td>(3) PR: Junior standing or Cl. A study of interpersonal communication in informally structured settings with emphasis on the understanding, description, and analysis of human communication.</td>
</tr>
<tr>
<td>ORI 3441</td>
<td>GROUP COMMUNICATION</td>
<td>(3) PR: Junior standing or Cl. A survey of theory and research in group communication. Group discussions and communication exercises to increase awareness of the dynamics of human communication in small group settings.</td>
</tr>
<tr>
<td>SPC 3601</td>
<td>ADVANCED PUBLIC SPEAKING</td>
<td>(3) PR: SPC 2600 or Cl. Study and application of communication strategies in speaking extemporaneously and from notes. The course includes study of selected public addresses as aids to improved understanding of speaking skills.</td>
</tr>
<tr>
<td>SPC 3631</td>
<td>RHETORIC OF THE SIXTIES -HP</td>
<td>(3) Survey of the rhetorics associated with the civil rights movement.</td>
</tr>
</tbody>
</table>
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 CI. Analysis of public communication with emphasis on various presentational forms.

SPC 3681 RHETORICAL ANALYSIS (3)
This course introduces students to fundamentals of message analysis. Emphasis is placed on rhetorical devices 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 - XMW (3)
Study of orality, its forms, functions, and transformations, in traditional and literate societies from folkloric and psychological traditions and from contemporary communication and cultural studies perspectives.

SPC 4305 COMMUNICATING EMOTIONS - 6A (3)
PR: Junior/Senior standing or CI. Study of emotional experience, what emotions mean to us, how we talk about them, and the ways group and cultural memership influence them. Focus on attachment and loss in romantic, family, and group relationships.

SPC 4310 RELATIONSHIPS ON FILM (3)
Examination of the ways in which cinema inscribes conceptions and meanings of romance, love, intimacy and sexuality. Focus on systems of interpretation fostered by cinema representations of intimacy, sexualiy, emotional, 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 CI. The principles of rhetorical criticism applied to selected great speeches of Western Civilization.

SPC 4883 RHETORICAL ANALYSIS OF MASS MEDIA (3)
PR: SPC 3230 or SPC 3681. Open to non-majors with CI. 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 - XMW (3)
Examines the relationships among culture, communication, institutions, and public and private life. Students explore the possibilities and problems of contemporary forms of community through service in a volunteer organization.

SPC 4900 DIRECTED READINGS (1-3)
PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and CI. 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 9 credits.

SPC 4905 UNDERGRADUATE RESEARCH (1-3)
PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and CI. Maximum 6 hours. Individual investigations with faculty supervision.
environment. This course orient the student to the vari
able extent in oral-aural communication among children
who have hearing impairment. It addresses techniques
and methods of hearing measurement and amplification of
sound as well as the interpreter's role in audiological
evaluation and speech language therapy. This course is
restricted to majors.

SPA 3030 INTRODUCTION TO HEARING SCIENCE (3)
P.R. Junior standing and Cl. Introduction to the field of
hearing including: physics of sound, auditory anatomy and
physiology, and psychophysics of hearing.

SPA 3101 ANATOMY AND PHYSIOLOGY OF THE
SPEECH AND HEARING MECHANISM (3)
P.R. Junior standing and Cl. The neurological and anatomical
basis of communication disorders. Comparisons of
normal and pathological organic structures and their func-
tional dynamics.

SPA 3112 APPLIED PHONETICS IN COMMUNICATION
DISORDERS (3) P.R. Junior standing and Cl. Introduction to phonetic anal-
ysis of normal and disordered speech, including extensive
training in transcription using the International Phonetic
alphabet.

SPA 3310 INTRODUCTION TO DISORDERS OF HEARING (3)
P.R. 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 3380 BASIC AMERICAN SIGN LANGUAGE (4)
P.R. Cl. Introduction to American Sign Language (ASL) as
used in the deaf community. General discussion of ASL
structure and introduction to various manual communica-
tion systems and philosophies. Emphasis on building a
basic vocabulary. One hour laboratory course work is
included. Open to all majors.

SPA 4000 COMMUNICATION DISORDERS IN THE
PUBLIC SCHOOLS (3) P.R. Cl. An 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 - XMW (3) P.R. SPA 4930 and SPA 3310. Observation and participa-
tion in speech-language pathology and audiology prac-
ticum in the University clinical laboratory.

SPA 4201 PHONOLOGICAL DEVELOPMENT AND
DISORDERS (3) P.R. SPA 3011. An examination of normal and deviant
articulatory acquisition and behavior. Presentation of ma-
jor theoretical orientations and the therapeutic principles
based upon them.

SPA 4210 VOCAL DISORDERS (3) P.R. SPA 3011 and SPA 3310. A comprehensive study of
the medical and physical aspects of voice disorders. Pri-
mary emphasis is on the therapeutic management.

SPA 4222 FLUENCY DISORDERS (3) P.R. 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)
P.R. Cl. 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)
P.R. Cl. 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) P.R. Cl. A review of the sign system (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 opportu-
nity to practice one of the sign systems.

SPA 4353 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 4371 LEGAL, ETHICAL, AND TECHNICAL ISSUES
OF WORKING WITH DEAF (3) P.R. Admission to ISI Program. This course provides
the discipline of ethical, technical, procedural, communica-
tive, as well as legal issues and activities that apply to
practice of interpreting in educational situations. It focuses
on the professionalism and integration of interpreter roles
in educational settings. This course is restricted to majors.

SPA 4382 INTERMEDIATE AMERICAN SIGN LANGUAGE (4)
P.R. SPA 3380 and Cl. 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 work is
included.

SPA 4383 ADVANCED AMERICAN SIGN LANGUAGE (4)
P.R. SPA 4382 and Cl. 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. One hour laboratory
course work is included. Open to all majors.

SPA 4383L AMERICAN SIGN LANGUAGE LABORATORY (1)
P.R. Cl. Laboratory course designed to offer students
added practice with the material presented in the ASL
workshop through video and audio tapes.

SPA 4386 INTERPRETING IN PUBLIC SCHOOLS I (3)
P.R. Admission to ISI Program. CR: SPA 4386L. This course
provides techniques for interpreting instructional/
non-instructional activities and the development of com-
munication modes and languages used by deaf children.
Includes interpreting practices and understanding teach-
ing methods. This course is restricted to majors only.

SPA 4386L INTERPRETING IN PUBLIC SCHOOLS I LAB (1)
P.R. Admission to ISI Program. CR: SPA 4386. This course
provides practical application of interpreting the subjects
taught in the public school classes. Discussion includes
class goals, instructional style, interpreter roles and ethics,
language or mode choice, and analysis of the classroom
for accessibility and appropriateness for interpreting.
This course is restricted to majors only. May be repeated up to
2 credits.

SPA 4387 INTERPRETING IN PUBLIC SCHOOLS II LAB (1)
P.R. SPA 4386, SPA 4386L, CR: SPA 4387L. This course
provides advanced techniques for interpreting instruc-
tional/non-instructional activities and the development of
communication modes and languages used by deaf children.
Includes interpreting practices and understanding teaching methods. This course is restricted to majors only.

SPA 4387L INTERPRETING IN PUBLIC SCHOOLS II LAB (1)
P.R. SPA 4387. This course provides advanced assess-
ment of interpreting skills and interpreting integration of
targeted school classes and activities. Selection criteria for
using a particular sign system, mode, or language will be
assessed and discussed in individualized meetings. This
course is restricted to majors only.

SPA 4503 PRACTICA/INTERPRETING IN SCHOOLS (4)
This course provides practice sessions in school settings
under supervision of an experienced interpreter and course
instructor. Each preicum student will shadow an inter-
preter, and participate in discussion about the overall
performance. This course is restricted to majors.

SPA 462 COUNSELING OR COMMUNICATIVELY
HANDICAPPED AND FAMILY (3) P.R. SPA 3011 and SPA 3310. Discussion of role of
counseling in the treatment of communication disorders.
Based on exploration of theoretical constructs, this course
demonstrates application of therapeutic methodologies to
treatment of communication handicaps.

SPA 4930 SELECTED TOPICS (3) P.R. Cl. Intensive study of topics in Speech-Language
Pathology, Audiology, and/or Aural Rehabilitation conducted under the supervision of a faculty member.

SPA 5132 AUDIOLOGY INSTRUMENTATION
(2) PR: CI. Calibration, usage and specific applications of specialized instrumentation 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 5150L SPEECH SCIENCE INSTRUMENTATION
(2) PR: CI or SPA 3011 or equivalent. This course offers experience in the use of speech recording, monitoring and specialized instruments conducted under the supervision of a faculty member.

The study of the physiology 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 testing paradigms to assess the function of the peripheral and 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 assisting listening devices.

SPA 5403 COMMUNICATION DISORDERS: LANGUAGE
(3) PR: CI. Examination of research and clinical literature presenting major theoretical orientations pertaining to the etiology, evaluations, 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 the 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 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 3824 SURVEY OF THE CRIMINAL JUSTICE SYSTEM - SS
(3) An introduction to the structure and operation of law enforcement, prosecution, the courts, and corrections. Also included brief coverage of major reported crimes.

CCJ 3204 SUBSTANTIVE CRIMINAL LAW
(3) PR: CCJ 3004. Examines the historical basis of the American criminal law system, the substantive elements of crimes, and court procedures.

CCJ 3610 THEORIES OF CRIMINAL BEHAVIOR
(3) PR: CCJ 3024. Provides a basic understanding of the complex factors related to crime, with concentration on principal theoretical approaches to the explanation of crime.

CCJ 3621 PATTERNS OF CRIMINAL BEHAVIOR
(3) Reviews the nature and extent of the crime problem. The course will concentrate on major patterns of offender behavior including crimes against the person, property crimes, violent crimes, economic/white collar offenses, syndicated (organized) crimes, consensual crimes, female crime, political crime, and will examine criminal career development.

CCJ 3701 RESEARCH METHODS IN CRIMINAL JUSTICE I
(3) PR: CCJ 3024 or CCJ 3610 or CI. Introduces the student to some of the fundamentals of knowledge-generating processes in criminal justice.

CCJ 4100 CRITICAL ISSUES IN POLICING
(3) PR: CCJ 3024 or CCJ 3410 or CI. Focuses on some of the most critical issues in law enforcement today including: understanding and controlling police use of deadly force; police deviance; police prejudice and discrimination; violence-prone police officer; substance abuse by police officers; and administrative review of alleged police brutality.

CCJ 4110 AMERICAN LAW ENFORCEMENT SYSTEMS
(3) PR: CCJ 3024 or CCJ 3610 or CI. 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 4273 CRIMINAL LAW AND PROCEDURE
(3) PR: CCJ 3024 or CI. Emphasizes the Constitutional issues and rules that are applied and enforced by the courts while processing criminal cases.

CCJ 4282 CORRECTIONAL LAW
(3) PR: CCJ 3024 or CI. The course provides students with an introduction to legal issues in the area of correctional, with an emphasis on civil and criminal liability for correctional staff and administrators and on convicted’s rights.

CCJ 4306 AMERICAN CORRECTIONAL SYSTEMS
(3) PR: CCJ 3024 or 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 4316 CORRECTIONAL ADMINISTRATION
(3) PR: CCJ 3024 or CI. The course provides students with an introduction to issues in correctional administration in both institutional and community corrections.

CCJ 4331 ALTERNATIVES TO INCARCERATION
(3) PR: CCJ 3024 or CCJ 3610 or CI. This course explores a variety of alternatives to imprisoning the offender, including probation, parole, diversion, and other community-based intervention and treatment modalities.

CCJ 4341 INTERVENTION TECHNIQUES AND STRATEGIES
(3) PR: CCJ 3024 or CCJ 3610 or CI. The course focuses on theories and methods underlying treatment modalities currently employed in corrections.

CCJ 4450 CRIMINAL JUSTICE ADMINISTRATION
(3) PR: CCJ 4110 or CJT 4100 or CI. This course is designed to provide an in-depth examination of both the practical and theoretical aspects of the administration of criminal justice agencies. The course focus will be on law enforcement and correctional agencies.

CCJ 4501 JUVENILE JUSTICE SYSTEM
(3) PR: CCJ 3024 or CCJ 3610 or CI. Provides coverage of the juvenile and family courts, their clientele, and the complex of human service agencies and facilities that contribute to dispositional and other needs of assistance which is a topic of concern. Community-based policies will be analyzed. Gang intervention strategies and school
CCJ 4513 JUVENILE RIGHTS AND PROCEDURES (3)
PR: CCJ 4501 or Cl. The course provides students with an introduction to the Juvenile Justice system, particularly with the issues on juveniles' rights as they relate to the juveniles in trouble who are processed through the beginning of the system as well as with the rights and subsequent procedures that juveniles will encounter as they are processed further through the juvenile justice system or possibly transferred to criminal justice. Open to non-majors with CI.

CCJ 4540 JUVENILE CORRECTIONAL ALTERNATIVES (3)
PR: CCJ 4501 or Cl. Focuses on juvenile correctional responses from diversion to the use of secure facilities. How the system attempts to handle status offenders and children-in-need-of-supervision will be covered. Diversion, detention, probation, and community-based non-secure facilities will be discussed.

CCJ 4550 DEVELOPMENTAL ASPECTS OF JUVENILE DELINQUENCY (3)
PR: CCJ 3610 and CCJ 4501 or Cl. Provides the student with a developmental/life course perspective of the processes, events, and factors which occur during childhood and adolescence and cause juvenile delinquency. This course focuses on the conditions which are critical in shaping the delinquent's behavior during their formative years.

CCJ 4604 ABNORMAL BEHAVIOR AND CRIMINALITY (3)
PR: CCJ 3610 or Cl. 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 4652 JUVENILE SUBSTANCE USE (3)
PR: CCJ 4501 or Cl. Focuses on youth and drugs. It will cover such topics as the rates and patterns of the use of different drugs by youths with varying socio-demographic characteristics, the context and effects of use of various drugs, the drugs-crime connection, prevention, early intervention and treatment efforts, and drug use policy.

CCJ 4700 STATISTICAL RESEARCH METHODS IN CRIMINAL JUSTICE II (3)
PR: CCJ 3604 or CCJ 3610 or Cl. 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 M.A. in CCJ at USF. This course may not be taken for credit if the student has already successfully completed STA 3122 or SESEB 3121.

*CCJ 4900 DIRECTED READINGS (1-3)
PR: Cl. 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 profession. No more than five hours of CCJ 4900 or CCJ 4910 or any combination of the two will be accepted toward the minimum number of hours required for the major.

*CCJ 4910 DIRECTED RESEARCH (1-3)
PR: Cl. This course is designed to provide students with a research experience in which they will work closely with faculty on the development and implementation of research projects in the area of criminal justice. No more than five hours of CCJ 4910 or CCJ 4900 or any combination of the two will be accepted toward the minimum number of hours required for the major.

*NOTE: CCJ 4900 and CCJ 4910. (a) Students wishing to enroll must make arrangements with a faculty member during the semester prior to actually taking the course, (b) a minimum of 10 credit hours; (c) successful completion satisfactory prior to enrollment, (c) first consideration will be given to Criminology majors, and (d) individual faculty members may add additional requirements at their discretion.

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 Cl.

CCJ 4934 SEMINAR IN CRIMINOLOGY -6A- -XMW (3)
PR: Senior standing and Cl. These variable topic seminars are used for an in-depth study and discussion of the relationships among culture, gender, ethics, age, society, and criminal behavior. Such examinations may include the options the criminal justice does (or does not) have to deal with these interactions, and the ethics and efficacy of the system's response. Open to non-majors with Cl.

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 student 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 within the host agencies in addition to the written work or reading assignments. See requirements for the B.A. degree in Criminology for the number of hours required. (S/U only).

CJT 4100 CRIMINAL INVESTIGATION (3)
PR: CCJ 3024 or CCJ 3610 or Cl. Covers the major components of criminal investigation, with special attention to the scientific aspects of criminal investigation and the management of major cases.

CJT 4801 PRIVATE SECURITY SYSTEMS (3)
PR: Junior standing and CCJ 4110 or Cl. Examines some of the principal methods and techniques currently used to reduce or prevent losses due to theft and casualty.

Economics

ECO 1000 BASIC ECONOMICS -SS (3)
Survey of Economic principles and issues. Scarcity, choice, markets, prices, the monetary system, unemployment, inflation, international trade and finance. (No credit after completing ECO 2023/2013.)

ECO 2013 ECONOMIC PRINCIPLES (MACROECONOMICS) -SS (3)
Introduction to the theory of income determination with emphasis on monetary and fiscal policies. Objectives of full employment, price stability, economic growth, balance of payments stability.

ECO 2023 ECONOMIC PRINCIPLES (MICROECONOMICS) -SS (3)
PR: ECO 2013. Introduction to the theory of price determination. How an economy decides what to produce, how to produce and how to distribute goods and services.

ECO 2935 SELECTED TOPICS IN ECONOMICS (1-3)
PR: Cl. Topics selected by department. May be repeated if topics vary. Not available for credit to upper-level students admitted to the College of Business.

ECO 3100 MANAGERIAL ECONOMICS (3)
PR: ECO 2023. Application of microeconomic theory to problems in business decision making with a special focus on price determination. (No credit after completing ECO 3101.)

ECO 3101 INTERMEDIATE PRICE THEORY (3)
PR: ECO 2023. The price system and allocation of scarce resources between competing uses. (No credit after completing ECO 3100.)

ECO 3203 INTERMEDIATE INCOME & MONETARY ANALYSIS (3)
PR: ECO 2013 and ECO 3100 or ECO 3101 with a grade of "C" or better. Determination of income, employment, prices, and interest rates. Aggregate demand and aggregate supply.

ECO 3622 AMERICAN ECONOMIC HISTORY (3)
PR: ECO 2023. Growth and evolution of American economic institutions from Colonial times to the present.
ECP 3703 INTERNATIONAL ECONOMICS -XMW (3)
PR: ECO 3100 or ECO 3101 with a grade of "C" or better. Role of international trade in the U.S. economy. Gains from trade, balance of payments, exchange rate determination, balance of payments stability and international commercial policy.

ECP 4105 ADVANCED PRICE THEORY (3)
PR: ECO 3100 or ECO 3101 with a grade of "B" or better. An advanced survey of special topics in microeconomics: borrowing and saving, decision making under certainty, markets for capital and labor, game theory, production and exchange efficiency, social welfare, and efficiency consequences of market and non-market allocation.

ECP 4201 ADVANCED MACROECONOMIC THEORY (3)
PR: Grade of "B" or better in ECO 3203. An advanced survey of special topics in macroeconomics. Develops and contrasts the neoclassical growth, endogenous growth, real business cycle and new Keynesian models. Relevant empirical studies are presented.

ECP 4303 HISTORY OF ECONOMIC THOUGHT (3)
PR: ECO 3100 or ECO 3101 with a grade of "C" or better. Development of economic thought from Plato to Marshall.

ECP 4530 POLITICAL ECONOMY -XMW (3)
PR: ECO 2013 or CI. The Marxian school of thought. Application of Marxist theory to problems of advanced capitalist and socialist societies.

ECP 4401 INTRODUCTION TO MATHEMATICAL ECONOMICS (3)
PR: ECO 2023 and MAC 2233 or Cl. Mathematical models of optimizing behavior and economic equilibrium.

ECP 4421 INTRODUCTION TO ECONOMETRICS (3)
PR: QMB 3200 with grade of "B" or better or Cl. Survey of basic econometric techniques. Regression analysis employed to estimate consumption, investment, demand, cost, and production functions. Examines problems of autocorrelation, heteroscedasticity, multicollinearity, and specification errors.

ECP 4504 PUBLIC FINANCE (3)

ECP 4713 INTERNATIONAL MONETARY RELATIONS (3)
PR: ECO 3203 Advanced analysis of international macroeconomic relationships. Foreign exchange market, international monetary system balance of payments.

ECP 4836 INTERNATIONAL COMMERICAL POLICIES (3)
PR: ECO 3100 or ECO 3101 with a grade of "C" or better. Advanced analysis of international trade theory and commercial policy, international economic integration, multinational enterprise.

ECP 4905 INDEPENDENT STUDY (1-3)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated up to 6 credit hours. (SU only.)

ECO 4914 INDEPENDENT RESEARCH (1-3)
PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 8 hours.

ECP 4935 SELECTED TOPICS IN ECONOMICS (1-3)
PR: CI. Topics to be selected by the instructor or instructors on pertinent economic issues.

ECP 3201 ECONOMICS OF WOMEN AND WORK -XMW (3)

ECP 3203 LABOR ECONOMICS (3)
PR: ECO 3100 or ECO 3101 with a grade of "C" or better. Determinants of wage and employment levels; occupation industrial and geographical wage differentials, union and public policy effects on labor markets; the economics of discrimination; inflation and unemployment.

ECP 3302 ENVIRONMENTAL ECONOMICS -XMW (3)
PR: ECO 2023. An economic analysis of environmental issues. The economic aspects of use and pollution control are examined using the concepts of externalities, cost-benefit analysis, public goods, and property rights.

ECP 3413 ECONOMICS OF REGULATION AND ANTITRUST (3)
PR: ECO 2023. Economic analysis of the rationale and performance of government regulation and antitrust policy. Examination of antitrust issues or price fixing, mergers, and monopolization and issues of regulating electric utilities, airlines, trucking, consumer product safety, product quality, and the environment.

ECP 3530 ECONOMICS OF HEALTH (3)
PR: ECO 3100 or ECO 3101 with a grade of "C" or better. Application of economic methods to health care topics. Demand for medical care, public and private health insurance, physician and hospital supply of medical care, government regulations and national healthcare systems.

ECP 3613 ECONOMICS OF THE URBAN ENVIRONMENT (3)

ECP 4232 COLLECTIVE BARGAINING AND PUBLIC POLICY (3)
PR: ECO 2023 or CI. Administration of labor management agreements. Impact of the government role in collective bargaining and labor relations.

ECP 4451 LAW AND ECONOMICS (3)
PR: ECO 2023. Advanced analysis of the economic impact of tort, criminal, property and contract law as well as in the formation and adjudication of law.

ECS 3013 ECONOMIC DEVELOPMENT (3)
PR: ECO 2013 or CI. Economic development in emerging economies.

ECS 4003 COMPARATIVE ECONOMIC SYSTEMS -XMW (3)
PR: ECO 2013 or CI. The major economic systems: tradi­tional, capitalism, democratic socialism, communism and fascism.

English
AML 3031AMERICAN LITERATURE FROM THE BEGINNINGS TO 1800 (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 3032AMERICAN LITERATURE FROM 1800 TO 1912 (3)
A study of representative works of selected American Realists and early Naturalists, among them Whitman, Dickinson, Twain, James, Howells, Crane, Dreiser, Wharton, Robinson, Dunbar, and Johnson.

AML 3051AMERICAN 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 3453HISTORICAL PERSPECTIVES IN EARLY AMERICAN LITERATURE (3)
Examines American literature from the Colonial Period to the Civil War as a manifestation of geographical, political, social, and intellectual forces. Will not be counted toward the English major.

AML 3604AFRICAN-AMERICAN LITERATURE -6A- XLW (3)
A study of African-American literature from the nineteenth century to the present, including the works of such writers as W. E. B. Du Bois, 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.
A study of major trends and influences in American prose fiction from 1850 to the present. Includes works by such writers as Hemingway, London, Wharton, Fitzgerald, Faulkner, West, Maier, Bellow, Ellison, Donleavy, Updike, Vonnegut, and others.

A study of the major writers of the "Southern Renaissance," including such as Faulkner, Wolfe, Caldwell, Hellman, McCullers, O'Conner, Warren, Styron, Tate, Davidson, and Dickey.

The study of two or three related major authors in American literature; the course may include such writers as Melville and Hawthorne, Hemingway and Faulkner, James and Twain, Pound and Eliot, Stevens and Lowell, etc. Specific topics will vary. May be repeated twice for credit with different topics.

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.

A study of short narrative forms such as the anecdote, tall, 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 3111 FORM AND TECHNIQUE OF FICTION -6A (3)
CRW 3112 FICTION I -6A (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.

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.

An examination of the techniques employed in fixed forms from the couplet through the sonnet to such various forms as the rondeau, ballad, villanelle, sestina, etc. Principles in the narrative, dramatic, and lyric modes are also explored.

PR: CRW 3311. An introduction to poetry writing utilizing writing exercises employing poetic language and devices; these exercises progress to the writing of both rhymed and unrhymed metrical and non-metrical forms.

PR: CRW 3311, CRW 3312. A poetry workshop which provides individual and peer guidance and direction for the student's writing and which also attempts to encourage the development of critical skills.

PR: CRW 3311, CRW 3312, CRW 3312. An advanced fiction workshop wherein works may be carried over from CRW 3312 or longer forms such as the novel may be begun. May be taken twice for credit.

PR: CRW 3311, CRW 3312, CRW 3312. 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.

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.

Instructor and practice in the skills of writing and reading. Courses must be taken in numerical sequence.

Honors Section of ENC 1101. Reserved for students in the University's Honors Program.

Effective presentation of technical and semi-technical information.

Introduction to the techniques and types of professional writing, including correspondence and reports most often found in business, technical, and scientific communities.

A course teaching the techniques for writing effective prose, excluding fiction, in which student essays are extensively criticized, edited, and discussed in individual sessions with the instructor.

A course designed to develop writing skills of a high order: technical exposition; technical narration, description, and organization; graphics; proposals; progress reports; physical research reports; and feasibility reports.

CRW 4260 ADVANCED TECHNICAL WRITING (3)

CRW 4320 POETRY III (3)

PR: CRW 3311, CRW 3312, CRW 3321. 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 4330 SELECTED TOPICS IN CREATIVE WRITING (1-4)

CRW 4331 PROFESSIONAL WRITING -6A (3)

CRW 4340 LITERARY CRITICISM (3)

CRW 4400 LITERARY CRITICISM (1-4)

Directed study in special projects. Special permission of chairperson required.

CRW 4507 DIRECTED READING (3)

ENL 3015 BRITISH LITERATURE TO 1615 (3)

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 (3)

A survey of 17th Century and Neoclassical Literature, including such figures as Donne, Herbert, Crashaw, Vaughan, Marvell, Milton, Pope, Swift, Johnson, Boswell, and Goldsmith.

ENL 3251 BRITISH LITERATURE 1780-1900 (3)

The poetry and poetics of the Romantic figures, with attention to the continuing importance of romantic thinking in contemporary affairs and letters; a survey of representative figures of the Victorian and Edwardian periods, including poetry, prose, and drama.

ENL 3273 BRITISH LITERATURE 1900-1945 (3)

Survey of poetry, drama, and fiction of such writers as Eliot, Yeats, Thomas, Conrad, Shaw, Joyce, Lawrence, Huxley, Wolfe, Forster, Waugh, Owen, Auden, O'Casey, and others.

ENL 3331 EARLY SHAKESPEARE (3)

A study of from six to eight of Shakespeare's comedies, histories, and early tragedies, ending with Hamlet. Special attention to developing the student's ability to read and interpret the text.
LIT 3332 LATE SHAKESPEARE (3) A study of 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.

LIT 4132 BRITISH NOVEL THROUGH HARDY (3) A study of early and later British novels such as Fielding, Smollett, Sterne, Austen, Scott, Dickens, Eliot, and Hardy, among others.

LIT 4132 BRITISH NOVEL: CONRAD TO THE PRESENT (3) A critical study of British fiction from 1900 to the present, with emphasis on such writers as Conrad, Lawrence, Joyce, Woolf, Huxley, Orwell, Burgess, Murdoch, Golding, and others.

LIT 4171 HISTORY OF BRITISH DRAMA TO 1912 (3) 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, Middletown, Dryden, Congreve, Sheridan, and Wilde, and others.

LIT 4303 SELECTED AUTHORS (3) 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. It may be taken twice with different topics.

LIT 4311 CHAUCER (3) An intensive study of The Canterbury Tales and major critical concerns.

LIT 4338 ADVANCED STUDIES IN SHAKESPEARE (3) PR: ENL 3331 or ENL 3332, or Cl. Intensive study of selected plays of Shakespeare, with special attention to significant critical issues and to the Elizabethan and Jacobean cultural setting.

LIT 4341 MILTON (3) Study of the poetry and major prose of John Milton, with special emphasis on Paradise Lost.

LIN 3670 ENGLISH GRAMMAR AND USAGE (3) A course in the basics of traditional English grammar designed as a complement to our composition and creative writing courses, as a review for those students who will take preprofessional exams, and as a basic course for students interested in improving their knowledge of English. Will not be counted toward the English major.

LIN 4671 TRADITIONAL ENGLISH GRAMMAR (3) A course primarily using the sentence diagram to present a detailed analysis of the parts of speech, verb tenses, sentence functions, and other basic grammatical classifications of traditional English grammar.

LIN 4680 STRUCTURE OF AMERICAN ENGLISH (3) An introductory survey of traditional, structural, and generative transformational grammars and their techniques for the analysis and description of linguistic structure in general, and contemporary American English, in particular.

LIT 2000 INTRODUCTION TO LITERATURE -6A (3) The nature and significance of literature in its various forms: fiction, drama, poetry; emphasis on the techniques of reading literature for informed enjoyment. Will not be counted toward the English major.

LIT 2010 INTRODUCTION TO FICTION -6A -HP (3) 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.

LIT 2021 CURRENT SHORT FICTION (3) Traditional and experimental short stories of this generation: such writers as Updike, Malamud, O’Connor, Roth, Barth, Ionesco, and Barthelme. Will not be counted toward the English major.

LIT 2030 INTRODUCTION TO POETRY -6A (3) A study of the poem as literary form; approached from an historical perspective though not restricted to any historical period. Will not be counted toward the English major.

LIT 2040 INTRODUCTION TO DRAMA -6A -HP (3) A study of the major forms of drama as literature and theatre; approached from an historical perspective though not restricted to any historical period. Will not be counted toward the English major.

LIT 2046 DRAMA: TEXTS AND FILMS (3) A study of the great works of drama, with emphasis on recent forms and themes. Films will demonstrate the possibilities of visualization. Will not be counted toward the English major.

LIT 2091 CURRENT NOVELS (3) A study of major British and American novels since WWII; attention will be given to the cultural influences and recent literary trends. Will not be counted toward the English major.

LIT 2310 FANTASY AND SCIENCE FICTION (3) A survey of fantasy and science fiction in England and America from Mary Shelley to the present; includes such writers as Poe, Melville, Ray Bradbury, Arthur C. Clarke, among others. Will not be counted toward the English major.

LIT 2931 SELECTED TOPICS IN ENGLISH STUDIES (1-4) Varying from semester to semester, the course examines in depth a predominant literary theme or the work of a select group of writers. Will not be counted toward the English major.

LIT 3022 MODERN SHORT NOVEL (3) A study of the novella from the nineteenth century to the present. Writers include: James, Dostoevsky, Camus, Stynor, Nabokov, Gardner, Roth, Vonnegut, among others.

LIT 3043 MODERN DRAMA (3) A study of such modern and contemporary dramatists as Ibsen, Strindberg, Chekhov, Pirandello, Shaw, O’Neill, Pinter, Stoppard, Brecht, Beckett, and Ionesco.

LIT 3073 CONTEMPORARY LITERATURE -6A -XLW (3) An introduction to the fiction, poetry, and drama written since 1945—American, British, Continental, or Multicultural. Focus may be on one, two, or all three genres or on works from any combination of nationalities.

LIT 3101 LITERATURE OF THE WESTERN WORLD THROUGH THE RENAISSANCE -6A (3) A study in English of the great works of Western Literature from its beginnings through the Renaissance, including the Bible, Homer, Sophocles, Plato, Euripides, Virgil, Cicero, Dante, Petrarch, Machiavelli, and Rabelais, among others.

LIT 3102 LITERATURE OF THE WESTERN WORLD SINCE THE RENAISSANCE -6A (3) A study in English of the great works of Western Literature from the Neoclassic to the Modern Period, including such writers as Molière, Rousseau, Voltaire, Dostoevsky, Chekhov, Ibsen, Kafka, Gide, Sartre, and Camus, among others.

LIT 3103 GREAT LITERATURE OF THE WORLD - 6A -XMW -XLW (3) PR: Junior/Senior standing. A survey of world literature including samples from the ancient and modern era, western and eastern traditions, male and female writers, and various ethnic, religious, and cultural traditions. Focus on values/ethics, race, ethnicity, and gender; thinking and writing skills. Will not be counted toward the English major.

LIT 3144 MODERN EUROPEAN NOVEL (3) A study of the Modern European novel in translation as it developed from the nineteenth century to the present, including such writers as Dostoevsky, Flaubert, Kafka, Hesse, Camus, and Solzhenitsyn.

LIT 3155 TWENTIETH CENTURY LITERATURE -HP (3) 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. Does not count toward major. Open only to non-majors, but majors may take it by special arrangement.

LIT 3301 CULTURAL STUDIES AND THE POPULAR ARTS -6A -XMW -XLW (3) A study of twentieth century culture as it is represented in film, fiction, and other cultural artifacts.
LIT 3374 THE BIBLE AS LITERATURE -XMW  
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  
A survey of feminist, antifeminist, sexual identity, the feminine mystique, stereotyped and liberated female images from Sappho to the present, with special emphasis on women writers and on the emergence of the women's movement. Will not be counted toward the English major. (Also offered under Women's Studies.)

LIT 3410 RELIGIOUS AND EXISTENTIAL THEMES  
Theological and philosophical ideas, allusions, and symbols in the writings of Dostoevsky, Nietzsche, Mann, Joyce, Eliot, Camus, Sartre, among others.

LIT 3451 LITERATURE AND THE OCCULT -6A -XMW -XLW  
An introduction to the occult tradition as a major ingredient in English, Continental, American, and Multicultural literary traditions is the analysis of the origins, characteristic forms, and impact of the various magic arts from classical times through the present. Will not be counted toward the English major.

LIT 3700 SURVEY OF POETRY  
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  
Intensive study of the genres and varieties of fiction to ascertain the theoretical and technical problems involved in the work of fiction.

LIT 4365 BRITISH AND AMERICAN LITERATURE BY WOMEN -6A -XLW -XMW  
Survey of women's literary tradition in England and America from the seventeenth century to the present. Thematic focus includes self, marriage, sexuality, madness, race, and generations. Open to majors and non-majors. Writing intensive.

LIT 4930 SELECTED TOPICS IN ENGLISH STUDIES  
The content of the course will be governed by student demand and instructor interest. It will examine in depth a recurring literary theme or the work of a small group of writers. Special courses in writing may also be offered under this title. May be repeated with different topics.

REA 1105 ADVANCED READING  
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 comprehensive skills. An independent study approach is also available for students who prefer to assume responsibility for their own progress. Will not be counted toward the English major.

REA 1805 LEARNING STRATEGIES WITHIN ACADEMIC DISCIPLINES  
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. Will not be counted toward the English major.

REA 2405 SPEED READING DEVELOPMENT  
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  
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 4263 LITERATURE BY AMERICAN WOMEN OF COLOR - 6A -XLW  
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. Will not be counted toward the English major. (May also be taken for credit in Women's Studies.)

WST 4263 THIRD WORLD WOMEN WRITERS -6A -XLW  
Introduces the literature of women from various anglophone countries in Africa, the Caribbean, and South Asia; some U.S. writers will be included to represent a third world diasporic consciousness. Will not be counted toward the English major. (May also be taken for credit in Women's Studies.)

Environmental Science and Policy

EVR 2001 INTRODUCTION TO ENVIRONMENTAL SCIENCE  
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  
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  
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 4027 WETLAND ENvironments -XMW  
PR: PCB 3043 or CI. Study of the general properties and ecology of wetlands, examination of the distribution and functions of wetlands, and consideration of wetland conservation and policies.

EVR 4910 ENVIRONMENTAL SCIENCE AND POLICY PROJECT  
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  
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  
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  
The purpose of this course is to promote the student's understanding and application of environmental science within a practical organizational context. Contract and project report required. Open to senior majors only. (S/U only.)

Geography

GAE 2005 GLOBAL GEOGRAPHY -SS -HP -AF  
Comparative and analytical analysis of representative regions of the world with emphasis on cultural, political, economic, social, demographic, and physical diversity.

GAE 3009 GENERAL GEOGRAPHY  
Selected topics in regional and topical geography offered as survey courses. Open to all students.

GAE 3194 REGIONAL GEOGRAPHY  
Variable title course to systematically study and compare special regions identified by the instructor.

GAE 3202 GEOGRAPHY OF ANGLO-AMERICA  
GAE 3300 GEOGRAPHY OF MIDDLE AMERICA  
GAE 3380 GEOGRAPHY OF GULF OF MEXICO  
GAE 3410 GEOGRAPHY OF LATIN AMERICA -6A  
GAE 3500 GEOGRAPHY OF EUROPE -6A  
GAE 3554 GEOGRAPHY OF THE USSR  
GAE 3600 GEOGRAPHY OF AFRICA
The distribution, exploitation, and conservation of objects on the earth's surface. Techniques other than photographic are also considered.

4114C QUANTITATIVE METHODS
PR: 12 credit hours in Geography or CL. Statistical analysis in geographic research.

4201C ADVANCED PHYSICAL GEOGRAPHY
PR: GEO 3013 or CI. Intensive study of a topic selected from physical geography.

4210 PROCESS GEOGRAPHY
PR: GEO 3013 or GY 2010 or CI. Origin, evolution, and distribution of the landforms of North America.

4220C HYDROLOGY
PR: GEO 3013 or CI. Hydrologic cycle; precipitation, evapotranspiration, water budget, streamflow, and probability analysis.

4340 HUMAN RESPONSE TO NATURAL HAZARDS
The impact of hurricanes, tornadoes, earthquakes, sinkholes, fire, floods, and droughts on people; attempts to overcome or avoid these hazards.

4372 GLOBAL CONSERVATION - 6A -XMW
The distribution, exploitation, and conservation of physical and human resources, ecology.

4421 CULTURAL GEOGRAPHY
PR: GEO 3402 or CI. The interrelationships of culture and environment, from earlier times to the present.

4440 HISTORICAL GEOGRAPHY
PR: GEO 3402 or CI. Survey of evolving landscapes through time; analysis is made by means of systematic and regional methods in order to reconstruct the changing culture-environment equation.

4470 POLITICAL GEOGRAPHY -XMW
PR: GEO 3402 or CI. The factors underlying geo-political decisions and influencing their outcome; the geographic consequences of these decisions.

4502 ECONOMIC GEOGRAPHY
PR: GEO 3402 or CI. The spatial organization of economic production, consumption, and exchange systems.

4604 ADVANCED URBAN GEOGRAPHY -XMW
PR: GEO 3402, GEO 3602, or CI. Intensive examination of issues such as economic restructuring and inner-city decline, ghetto formation, gentrification, transportation, and policy-making.

4700 TRANSPORTATION GEOGRAPHY
PR: GEO 3402 or CI. Interrelationships between freight and passenger transportation and land use, in terms of site, traffic generation, and circulation.

4800 DIRECTED READING
PR: 20 hours in geography and CI prior to registration. May be repeated.

4910 INDIVIDUAL RESEARCH
PR: 20 hours in geography and CI prior to registration. May be repeated.

4933 GEOGRAPHY COLLOQUIUM
PR: Senior standing in Geography. Weekly topical lectures by faculty and outside speakers. Students will develop a plan for their professional or graduate careers.

5058 GEOGRAPHICAL LITERATURE AND HISTORY
PR: Senior or graduate standing in geography, or CI. 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.

MET 4002 CLIMATOLOGY
PR: GEO 3013 or CI. 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.

MET 4010C METEOROLOGY
PR: GEO 3013 or CI. The earth's atmosphere and its processes; weather forecasting and analysis, instrumentation.

URP 4052 URBAN AND REGIONAL PLANNING
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 -NS
Study of minerals, rocks, and processes of the earth's crust. Introduction to origin and classification of earth's materials and landforms.

GLY 2100L DYNAMIC EARTH LABORATORY
PR: GLY 2010 or concurrent registration. Laboratory study of earth materials, landforms, geologic structures, topographic and geologic maps. Lect-lab-field trips. Required for Geology majors; open to non-majors.

GLY 2030 ENVIRONMENTAL GEOLOGY -NS
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 -NS
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
PR: A course in geology. Study of the physical and biologic history of the earth including evolution of the major groups of organisms, continental drift, and interpretation of ancient environments.

GLY 2100L EARTH HISTORY LABORATORY
Laboratory study of the history of the earth and life. Required for Geology majors; open to non-majors.

GLY 2930 SELECTED TOPICS IN GEOLOGY
Topical courses in geology of general interest. Does not count toward the geology major.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>GLY 3200 MINERALOGY</td>
<td>(4)</td>
<td>PR: GLY 2010, one year of chemistry, or CI. Principles of crystal chemistry, crystallography and mineralogy with emphasis on common rock-forming minerals. Lec.-lab.</td>
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<tr>
<td>GLY 3400C STRUCTURAL GEOLOGY</td>
<td>(4)</td>
<td>PR: 12 hours of geology, MAC 2132 or equivalent or CI. 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.</td>
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<tr>
<td>GLY 3610C INTRODUCTION TO INVERTEBRATE PALEONTOLOGY</td>
<td>(4)</td>
<td>PR: GLY 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.</td>
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<tr>
<td>GLY 3850 GEOLOGY FOR ENGINEERS</td>
<td>(3)</td>
<td>PR: Junior standing in College of Engineering or CI. 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 in GYL 2010.)</td>
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<tr>
<td>GLY 4310 PETROLOGY</td>
<td>(4)</td>
<td>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. Lec.-lab.</td>
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<tr>
<td>GLY 4550 DEPOSITIONAL SYSTEMS</td>
<td>(4)</td>
<td>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.</td>
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<tr>
<td>GLY 4552C SEDIMENTARY GEOLOGY AND GEOCHEMISTRY</td>
<td>(4)</td>
<td>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 cyrosphere to study the sedimentary rock record. Examination of the rock record to solve problems in sedimentary geology.</td>
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<tr>
<td>GLY 4700 GEOMORPHOLOGY</td>
<td>(4)</td>
<td>PR: Senior or advanced junior standing and CI. Origin, evolution and distribution of land forms and soils. Dynamics of the earth's surface. Lec.-lab-field trips.</td>
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<tr>
<td>GLY 4730 MARINE GEOLOGY</td>
<td>(3)</td>
<td>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.</td>
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<tr>
<td>GLY 4734 BEACHES AND COASTAL ENVIRONMENTS - XMW</td>
<td>(3)</td>
<td>PR: Junior standing. A comprehensive introduction to the nature of all coastal environments including beaches, dunes, tidal inlets, estuaries, reefs, and river deltas. Emphasis will be on the natural state of these environments and how human activities have and will impact them. Consideration of coastal management policies involving economics, ethics, policy, and environmental law.</td>
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<tr>
<td>GLY 4780 GEOLOGICAL FIELD STUDIES</td>
<td>(1-3)</td>
<td>PR: 1 geology course. Lectures and field trip to study modern geologic systems and/or geologic origins of specific regions. Mapping and field description techniques introduced. Topic/destination of trip varies. Trip requires camping and vigorous physical activity. May be repeated up to 4 times; variations vary. Lec. Field trip.</td>
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<tr>
<td>GLY 4822 INTRODUCTION TO HYDROGEOLOGY</td>
<td>(4)</td>
<td>PR: GLY 2010, advanced junior or senior standing, one year each physics and calculus or CI. Ground water flow systems, ground water geology, introduction to numerical and analytical models of ground water flow. Lec.-lab.-field trips.</td>
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<tr>
<td>GLY 4900 INDEPENDENT STUDY</td>
<td>(1-3)</td>
<td>PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated. (S/U only)</td>
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<tr>
<td>GLY 4915 UNDERGRADUATE RESEARCH</td>
<td>(1-3)</td>
<td>PR: Senior or advanced junior standing and written permission of department prior to registration. Individual experimental investigations with faculty supervision. (S/U only)</td>
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<tr>
<td>GLY 4920 GEOLOGY COLLOQUIUM</td>
<td>(1)</td>
<td>PR: Senior standing in Geology. Weekly topical lectures by faculty graduate students and invited speakers. (S/U only)</td>
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<tr>
<td>GLY 4930 SELECTED TOPICS IN GEOLOGY</td>
<td>(1-4)</td>
<td>Each topic is a course under the direction of a faculty member with the content depending on the interests of the students and faculty involved. All areas of geology included. Departmental permission required prior to registration.</td>
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<tr>
<td>GLY 4970 UNDERGRADUATE HONORS THESIS</td>
<td>(3)</td>
<td>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.</td>
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<tr>
<td>GLY 4991 MOONS, PLANETS AND METEORS: AN INTRODUCTION TO PLANETARY SCIENCE - XMW</td>
<td>(3)</td>
<td>PR: Junior standing. Solar System exploration, from Aristotle to NASA. Modern views on the origins of meteorites, the Moon, Mars, Venus, and other planetary bodies, and the methods of planetary study. Meteor impacts, their effects, future hazard. Space science as a tool in the study of the Earth. Field trips, lectures, Internet exercises.</td>
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<tr>
<td>GLY 5752 GEOLOGICAL FIELD EXCURSION</td>
<td>(2)</td>
<td>Lectures and 2-3 week field excursion to study regional geology, structure and lithogenesis of geologically complex terrain. Mapping and outcrop description techniques are emphasized. Destination of trip varies. Trip requires camping and vigorous physical activity. Lec.-field trip.</td>
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<tr>
<td>GLY 5885 STATISTICAL MODELS IN GEOLOGY</td>
<td>(3)</td>
<td>PR: STA 2023 or equivalent or CI. Application of statistical methods to geologic problems. Emphasis on sampling plans, nature of geologic distributions, and application of analyses of variance to solving geologic problems. Lec.-lab.</td>
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<tr>
<td>GLY 5902 SELECTED TOPICS IN GEOLOGY</td>
<td>(3)</td>
<td>PR: Senior or advanced junior standing and CI. Each topic is a course in directed study under supervision of a faculty member. All areas of geology included. Departmental permission required prior to registration.</td>
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<tr>
<td>OCE 2001 INTRODUCTION TO OCEANOGRAPHY - NS</td>
<td>(3)</td>
<td>Overview of biogeography, chemistry, geological, and physical oceanography. May substitute for 2010 for geology majors. (Also listed under Marine Science.)</td>
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Gerontology

GEY 3000 INTRODUCTION TO GERONTOLOGY - SS               | (3)     |
This course is designed to be an introduction to the study of aging. The aging process is viewed from a multi-disciplinary perspective including the biological, psychological, and sociological aspects of aging.

GEY 3601 BEHAVIOR CHANGES IN LATER LIFE                | (3)     |
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 in older age.

GEY 4910 SOCIOCULTURAL ASPECTS OF AGING - SA - SF       | (3)     |
Consideration of human aging in a broad sociocultural context. Course emphasis will be on historical, philosophic, and demographic 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.
COLLEGE OF ARTS AND SCIENCES

UNIVERSITY OF SOUTH FLORIDA - 1997/98 UNDERGRADUATE CATALOG

GEY 4327 LONG-TERM CARE ADMINISTRATION I (3)
PR: GEY 3000. 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.

GEY 4328 LONG-TERM CARE ADMINISTRATION II (3)
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 sociocultural environment in the nursing home community, including case studies and actual visits to nursing homes. Course objective is to create efficient and humane living and working conditions in nursing homes.

GEY 4329 LONG-TERM CARE ADMINISTRATION III (3)
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.

GEY 4360 GERONTOLOGICAL COUNSELING (3)
An introduction to the study of the major mental health problems of the elderly. Current approaches to counseling the elderly in community and institutional settings are discussed.

GEY 4401 RESEARCH METHODS IN GERONTOLOGY (2)
PR: STA 2122 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.

GEY 4610 PSYCHOLOGY OF AGING (3)
A comprehensive overview of psychological aspects of aging. Topics will include age-related changes in sensation/perception, cognition, and personality, as well as application to late-life psychopathology. (Also offered under Psychology.)

GEY 4640 DEATH AND DYING (3)
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.

GEY 4905 DIRECTED READINGS (1-3)
PR: CI. A reading program with topics in gerontology conducted under the supervision of a faculty member.

GEY 4935 SPECIAL TOPICS IN GERONTOLOGY (3)
Courses on topics such as preretirement, mental health, human services organization, nursing home administration, the older woman, and elder abuse will be offered.

GEY 4991 FIELD PLACEMENT (3-9)
PR: CI. Internship in an agency or community setting. An assignment to an agency or organization, engaged in planning or administering programs for older people if in the BA program (3-6 hours). A full-time assignment to a nursing home in the BS program (9 hours) subject to availability of internship sites approved by the Department of Gerontology.

GEY 5620 SOCIOCULTURAL ASPECTS OF AGING (3)
Examines, 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.

ATF 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 offered under Africana Studies.)

ATF 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 postindependence problems of nation building and economic development. (Also offered under Africana Studies.)

AMH 2010, 2020 AMERICAN HISTORY I, II - HP (3,3)
A history of the United States with attention given to relevant developments in the Western Hemisphere, AMH 2010: European origins to 1877; AMH 2020: 1877 to present.

AMH 3110 AMERICAN COLONIAL HISTORY TO 1750 (4)
A study of the evolution of American society from the Age of Reconnaissance to 1750. Attention is given to the transformation from colonies to provinces with emphasis on ethnocultural conflict, religion, labor systems, and political culture.

AMH 3130 THE AMERICAN REVOLUTIONARY ERA (4)
Emphasis on the causes of the American revolution, the nature of Constitution-making, and the establishment of the federal system. Also examines the significance of loyalty, violence, and slavery in American society from 1750-1789.

AMH 3140 THE AGE OF JEFFERSON (4)
A comprehensive study of American society and political culture from 1789-1828. Focuses on demographic trends, party systems, expansionism, Indian policy, labor, and ethno-cultural conflicts.

AMH 3160 THE AGE OF JACKSON (4)
The United States from 1828-1850, with emphasis on social and political conflict. Consideration of evangelicalism, reform, labor movements, urbanization, and political activity in the antebellum era.

AMH 3170 THE CIVIL WAR AND RECONSTRUCTION (4)
An examination of political, social, and economic climate of the 1850's that led to the American Civil War. The course does focus upon the war itself in its military, diplomatic, and political consequences through the end of the Reconstruction (1877).

AMH 3201 THE UNITED STATES, 1877-1914 (4)
A study of the United States from the end of Reconstruction to World War I. Ranging over political, social, and international developments, the course examines the lives of Americans, including minorities and women, during prosperity, war, and the Great Depression.

AMH 3231 THE UNITED STATES, 1914-1945 (4)
A study of the United States from World War I to the end of World War II. Covering political, social, and international developments, the course examines the lives of Americans, including minorities and women, during prosperity, war, and the Great Depression.

AMH 3270 THE UNITED STATES, SINCE 1945 (4)
A study of the U.S. role in the Cold War, in Vietnam, and in the post-Cold War era. It also examines domestic developments such as the consumer culture, protest movements, and the abuses of political power.
AMH 3403 THE SOUTH SINCE 1865 (4)
Southern history since the surrender at Appomattox. Topics include Reconstruction, the Populist revolt, race relations, demogoguery 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 3423 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 - 64 (4)
The development of American Foreign Relations in the Agricultural era.

AMH 3511 U.S. DIPLOMATIC HISTORY IN THE 20TH CENTURY (4)
A history of American Foreign Relations in the Industrial era.

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 America 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.)

AMH 3800 HISTORY OF CANADA (4)
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.

ASH 3404 MODERN CHINA - SS - HP - AF (4)
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.

ASH 3501 HISTORY OF INDIA (4)
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 state of India.

EUEH 2011 ANCIENT HISTORY I - HP (3,3)
An introductory survey of ancient history. EUEH 2011 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.

EUEH 2012 ANCIENT HISTORY II - HP (3,3)
An introductory survey of ancient history. EUEH 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.

EUEH 2021, 2022 MEDIEVAL HISTORY I, II - HP (3,3)
A thematic survey of the Middle Ages. EUH-2021 deals with the nascent. Christian civilization of European, circa 300-1050 A.D.; EUH 2022 treats the mature medieval civilization of Europe, circa 1050-1500.

EUEH 2030, 2031 MODERN EUROPEAN HISTORY I, II - HP (3,3)
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.

EUEH 3142 RENAISSANCE AND REFORMATION (4)
A history of Europe from the Renaissance to the Thirty Years' War (1400-1618). The cultural, social, and economic characteristics will provide the framework for artistic, philosophical, religious, and political developments.

EUEH 3181 MEDIEVAL CULTURE (4)
A survey of thought, culture, and art in the Middle Ages. Medieval attitudes as manifested in literature, art, philosophy, education, and religion; with emphasis upon Medieval man's changing perception of himself and his world.

EUEH 3185 VIKING HISTORY (4)
The role of the Vikings in the shaping of Western history. A comprehensive survey of their institutions, outlook and daily life. Viking expansion into Europe and North America.

EUEH 3188 MEDIEVAL SOCIETY (4)
A study of the daily life and attitudes of the medieval nobleman, peasant, townsman, and the agrarian-urban economy and society which affected their lives.

EUEH 3189 MEDIEVAL POLITICS (4)
An inquiry into the nature, distribution, and use of political power during the Middle Ages, in such institutions as feudalism, monarchy, cities, and the church.

EUEH 3192 HISTORY OF 17TH AND 18TH CENTURY EUROPE (4)
A history of Europe from the beginning of the Thirty Years' War to the outbreak of the French Revolution. Political and intellectual developments will be assessed in the light of society and the economy.

EUEH 3205 HISTORY OF NINETEENTH CENTURY EUROPE (4)
A comparative study of economic, political, social, and intellectual developments in nineteenth century Europe.

EUEH 3206 HISTORY OF TWENTIETH CENTURY EUROPE (4)
A comparative study of economic, political, social, and intellectual developments in twentieth century Europe.

EUEH 3401 CLASSICAL GREECE (4)
A study of ancient Greece focusing on the brilliant period following the Persian Wars, but embracing as well the formative Bronze, Middle and Archaic ages, and the decline culminating in the conquest of Greece by Philip II of Macedon in 338 B.C.

EUEH 3402 AGE OF ALEXANDER (4)
A study focusing on the career of Alexander the Great and on the Greek and Macedonian conquest of Imperial Persia. Also treated are the great Hellenistic kingdoms prior to Rome's conquest of the eastern Mediterranean.

EUEH 3412 ROMAN REPUBLIC (4)
A study of the Roman Republic from 509 B.C. to the assassination of Julius Caesar in 44 B.C., with a prelude
EUH 3413 ROMAN EMPIRE (4)
A study of Roman history from the reign of Caesar to the death of the emperor Constantine in A.D. 337. Emphasized is Rome's government of a vast Mediterranean empire including much of the near East and Europe.

EUH 3461 GERMAN HISTORY TO 1870 (4)
A political, social, and cultural approach to the history of the Germanies from 1500 through 1870, with emphasis on the Protestant Reformation, the rise of Brandenburg-Prussian, and the unification under Bismarck.

EUH 3462 GERMAN HISTORY 1870 TO PRESENT (4)
A political, social, and cultural approach to the history of the German Empire from 1870 through the 1970's. The nation's two attempts to try for world power status are highlighted, as well as the Weimar Republic, prototype of the embattled democracy.

EUH 3501 BRITISH HISTORY TO 1668 (4)
A study of major developments in British history from the 15th century to 1668.

EUH 3502 BRITISH HISTORY 1668 TO PRESENT (4)
A study of the major themes of British history since the Glorious Revolution, including social, political, and economic developments leading to the creation of the modern democratic welfare state.

EUH 3530 BRITISH EMPIRE AND COMMONWEALTH (4)
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.

EUH 3571 RUSSIAN HISTORY TO 1865 (4)
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.

EUH 3572 RUSSIAN HISTORY 1865 TO PRESENT (4)
An analysis of the tradition from late imperial society to the contemporary Soviet system. Emphasis will be placed on continuity and change in the economic, political, and cultural aspects of Russia from 1865 to present.

HIS 2931 SPECIAL TOPICS (2-4)
This course emphasizes a selected historical problem or issue. A variety of instructional approaches will be taken, and topics may vary.

HIS 3474 SCIENCE AND CIVILIZATION (4)
A thematic study of the interrelationship of science and society in modern history emphasizing the institutional forms, value structures, and social relations in science as they have developed from the scientific revolution to the present.

HIS 3930 SPECIAL TOPICS (2-4)
This course is designed to emphasize a selected historical problem or issue that is meaningful and challenging to the student. A variety of instructional approaches will be taken to the material. Topics will be changed each semester.

HIS 4104 THEORY OF HISTORY (4)
Recommended to be taken during the senior year. Required of all history majors. An analysis of the foundations of historical knowledge and historical methodology. Includes a survey of historical thinking and writing from ancient times to the present.

HIS 4900 DIRECTED READING (1-4)
PR: Cl. Arrangement with instructor prior to registration. Readings in special topics.

HIS 4935 PRO-SEMINAR IN HISTORY -6A -XMW (4)
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.

HIS 5215 HISTORICAL WRITING (2)
A course for advanced undergraduates to combine library, research skills with an examination of various writing styles. Analytic and synthetic skills are stressed in writing articles, reviews and essays.

LAH 2020 LATIN AMERICAN CIVILIZATION (3)
An introduction to selected issues, events, and people in Latin America from 1492 to the present. Focus on Argentina, Brazil, Chile, Mexico, and Peru.

LAH 2734 LATIN AMERICAN HISTORY IN FILM -HP - AF (3)
Through the use of films and readings, the course introduces the broad sweep of Latin American history from the pre-Columbian period to today. Emphasis is placed on the social-cultural context to understand the peoples and events that have shaped Latin America.

LAH 3130 COLONIAL LATIN AMERICA (4)
A study of the Spanish and Portuguese Colonial empires in the New World from 1492-1830.

LAH 3200 MODERN LATIN AMERICA (4)
A study of the emergence of the Latin American states. The course will examine developments in Latin America during the nineteenth and twentieth centuries. Special attention is given to the Third World character of the region.

LAH 3430 HISTORY OF MEXICO (4)
Mexican history from pre-Columbian cultures to the twentieth century. Emphasis falls on the colonial political economy, social development, the wars of independence, development of the 19th century Mexican state and the Mexican revolution.

LAH 3470 HISTORY OF THE CARIBBEAN (4)
A thematic study of the circum-Caribbean from pre-Columbian cultures to the twentieth century, emphasizing the development of the Caribbean political economy with emphasis on monoculture, plantation society, and colonial/neo-colonial relationships.

LAH 3480 HISTORY OF CUBA (4)
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.

WST 3322 WOMEN IN WESTERN CIVILIZATION II - HP (3)
Survey of women in the ancient Near East, ancient Greece, ancient Rome, early Middle Ages. Origins of Western attitudes toward sex roles, female sexuality, relations of power to gender. (May also be taken for credit in Women's Studies.)

WST 3323 WOMEN IN WESTERN CIVILIZATION II - HP (3)
Survey of European women 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.)

Humanities and 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 music; social issues; popular culture; material culture; cultural diversity; and social change. These approaches will be applied to a specific cultural era.

AMS 2363 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 1880's and World War I.

AMS 3201 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)
This course will identify the myths 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 Africana Studies.)

AMS 3830 SELECTED TOPICS IN AMERICAN STUDIES (1-4)
Offerings 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, studios, directors, stars, theaters, and controversies from the perspective of critical methodological and theoretical approaches. Variable topics such as: series on a region, director, performer, subject, or period of time.

AMS 4804 MAJOR IDEAS IN AMERICA -XMW (3)
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.

AMS 4910 INDIVIDUAL RESEARCH (1-4)
The content of the course will be governed by student demand and instructor interest. Instructor approval required prior to registration.

AMS 4930 SELECTED TOPICS IN AMERICAN STUDIES (1-4)
Offerings include social implications of American Painting, Technology in Twentieth Century America, American Environmental Problems, Popular Culture in America, American Military Experience, and Labor in America.

AMS 4935 SENIOR SEMINAR IN AMERICAN STUDIES (4)
PR: Senior in American Studies or CI.

AMS 4936 SENIOR SEMINAR IN AMERICAN STUDIES (4)
PR: Senior in American Studies or CI.

HUM 2024 THE ARTS -FA (3)
Analysis of selected works of literature, music, film, and visual art, representing artists of diverse periods, cultures, genders, and races. Especially recommended for students who later take 4000-level Humanities courses.

HUM 2211 STUDIES IN CULTURE: THE ANCIENT THROUGH MEDIEVAL PERIODS -HP (3)
A survey of literature and the arts of ancient Greece, Rome, and medieval Europe. Issues to be examined may include the dialogue between local traditions and cosmopolitan cultures, the relationship of the individual to society, and the bases for moral values.

HUM 2243 STUDIES IN CULTURE: THE RENAISSANCE THROUGH THE TWENTIETH CENTURY -HP (3)
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.

HUM 2930 SELECTED TOPICS (1-4)
An introductory course dealing with a recurrent theme in the arts or focusing on a particular artistic center (a nation or city at a particular time). May be repeated up to 8 credit hours with change of content.

HUM 2951 STUDIES IN CULTURE: THE TWENTIETH CENTURY -HP (3)
Analysis of selected works of twentieth century art, including films, paintings, music, and literature, in the context of major political, social, and economic events, such as war, depression, totalitarianism, and technological change.

HUM 2971 EASTERN AND WESTERN CULTURE FROM ANTIQUITY TO 1400 -AF (3)
A comparative treatment of music, visual arts, theatre, literature, and philosophy in the East and West, proceeding chronologically from Ancient times through the Middle Ages, emphasizing Europe and India.

HUM 3251 STUDIES IN CULTURE: THE TWENTIETH CENTURY -HP (3)
Analysis of selected works of twentieth century art, including films, paintings, music, and literature, in the context of major political, social, and economic events, such as war, depression, totalitarianism, and technological change.

HUM 4402 HUMANITIES IN INDIA (4)
PR: Sophomore standing or CI. Examples from the arts and letters of India and the relationship of these arts to the Hindu and Buddhist philosophy-religions.

HUM 4404 HUMANITIES IN CHINA (4)
PR: Sophomore standing or CI. Examples from the arts and letters of China; their relationship to Taoism, Confucianism and other Chinese philosophies; Western influences on twentieth century Chinese arts and letters.

HUM 4415 HUMANITIES IN JAPAN (4)
PR: Sophomore standing or CI. Examples from the arts and letters of Japan, their relationship to Zen Buddhism and other Japanese philosophy-religions; Western influences on twentieth century Japanese arts and letters.

HUM 4433 ANCIENT GREEK CULTURE (4)
PR: Sophomore standing or CI. A study of the poetry, drama, philosophy, historical writing, painting, sculpture and architecture of ancient Greece, including such authors as Homer, Sophocles, and Plato, and monuments such as the Parthenon.

HUM 4434 THE CULTURE OF ANCIENT ROME (4)
PR: Sophomore standing or CI. A study of the poetry, drama, philosophy, historical writing, painting, sculpture and architecture of ancient Rome, including such authors as Virgil, Livy, and Cicero, the monuments of Rome, Pompeii, and Herculanum.

HUM 4435 EARLY MEDIEVAL CULTURE (4)
PR: Sophomore standing or CI. A study of the culture of Europe and the Mediterranean world from the 4th to 11th centuries through readings of early Medieval historians, poets, and theologians, as well as the study of illuminated manuscripts, mosaics, painting and architecture.

HUM 4436 HIGH MEDIEVAL CULTURE (4)
PR: Sophomore standing or CI. A study of the culture of Western Europe from the 11th to 14th centuries. Readings will include poetry and religious works; examples of painting, architecture, sculpture and music will be studied.
HUM 4437 ITALIAN RENAISSANCE CULTURE (4) PR: Sophomore standing or CI. A study of the painting, literature, music, culture, and architecture of early modern Italy (1300-1600), emphasizing humanism, the revival of antiquity, the tension between sacred and secular, and artists such as Michelangelo, Titian and Raphael.

HUM 4438 NORTHERN RENAISSANCE CULTURE (4) PR: Sophomore standing or CI. A study of the Northern Renaissance, 1400-1580, as exemplified in Germany, France, the Netherlands, England, and Spain. The course includes painting, architecture, literature and music, with special study of Durer, Van Eyck, El Greco, and Bosch.

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, Gentilleshci, Voltaire, Bach and Mozart.

HUM 4442 ARTS AND LETTERS OF THE ROMANTIC PERIOD (4) PR: Sophomore standing or CI. Continental masterworks of fiction, painting, and music in the context of European cultural history from the French Revolution to the Revolutions of 1848.

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, a 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, a 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 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 4462 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 4464 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 current topic or a theme across the arts, for example, love or death, and 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 -6A (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 of 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.

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.

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 4162 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 problems.

ISS 4164 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 specified 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 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.

STA 2122 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 3052 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)
An interdisciplinary course 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 3030 INTERNATIONAL POLITICAL CULTURES -XMW (3)
The course will explore the ways in which culture influences the nature of government, economic success or failure, and constructive and destructive modes of self and social identification.
INR 3038 INTERNATIONAL WEALTH AND POWER -SS (3)
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 NUCLEAR POLICY (3)
A study of the proliferation of nuclear weapons and its effects on regional and global security. Special emphasis will be given to matters; may be repeated as topics vary.
INR 3144 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 the military institutions of various nations and the interaction between military and political, economic, and social factors.
INR 3956 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 related 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.
INR 4910 DIRECTED RESEARCH (1-3)
PR: CI. A supervised program of interdisciplinary research in areas of specific interest. May be repeated.
INR 4931 SELECTED TOPICS (1-4)
Interdisciplinary studies with course content dependent on student demand and instructor's interest. May be repeated as topics vary.
INR 4936 SENIOR SEMINAR -XMW (3)
PR: International Studies major and senior standing. A variable topics seminar integrating concepts and analyses relating to the academic background of INT majors. Should be taken in the student's final semester.
INR 4943 INTERNSHIP IN INTERNATIONAL STUDIES (3-6)
PR: Senior status. The purpose of the course is to promote the student's understanding of global international issues within a local and practical context. (S/U only.) (For majors only.)
LAS 3004 THE AMERICAS - LATIN AND CARIBBEAN (3)
This is a telecourse that is designed to introduce the complexities of Latin America and the Caribbean to students in the U.S. (Open University - televised course.)
LAS 3118 LATIN AMERICA THROUGH FILM -AF (3)
This course will use film, video, selected readings, and lectures to teach the interested student about Latin America.
WST 3275 WOMEN IN THE DEVELOPING WORLD (3)
A comparative study of women's status in various developing nations with that in various industrialized states. (Also offered under Women's Studies Program.)

Languages and Linguistics

General Foreign Languages
FOL 3100 GENERAL FOREIGN LANGUAGE I (1-4)
A general purpose course that may be used for transfer of credit, credit by examination, and similar matters; may also be used for formal courses in less commonly taught languages or in professional translation.
FOL 4101 GENERAL FOREIGN LANGUAGE II (1-3)
A general purpose course that may be used for transfer of credit, credit by examination, and similar matters; may also be used for formal courses in less commonly taught languages or for workshops in professional interpreting.
FOL 4905 DIRECTED STUDY (1-3)
Departmental approval required.
FOL 5906 DIRECTED STUDY (1-3)
PR: FOL 4101 or equivalent.

Arabic
ARA 1120 MODERN ARABIC I (4)
CR: ARA 1120L. An intensive study of basic skills: pronunciation, listening comprehension, speaking and some composition.
ARA 1120L MODERN ARABIC I LABORATORY (1)
CR: ARA 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.)
ARA 1121 MODERN ARABIC II (4)
PR: ARA 1120 or its equivalent. CR: ARA 1120L. A continuation of ARA 1120. More sophisticated oral/aural skills are emphasized. Basic reading skills are acquired.
ARA 1121L MODERN ARABIC II LABORATORY (1)
CR: ARA 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is re-
FRE 1121 BEGINNING FRENCH II
PR: FRE 1120 or equivalent. CR: FRE 1121L. A continuation of FRE 1120.

FRE 1121L 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 18 credit hours.

FRE 2200 FRENCH III
PR: FRE 1121 or equivalent. A review of the basic structure of French.

FRE 2201 FRENCH IV
PR: FRE 2200 or equivalent. Readings in French on the intermediate level.

FRE 2240 CONVERSATION II
PR: FRE 2241 or equivalent proficiency. Conversation practice with concentration on current idiomatic usage.

FRE 2270 OVERSEAS STUDY-INTR. FRENCH
PR: Two semesters of university-level French or equivalent proficiency. Departmental approval required. May be repeated up to 12 credit hours.

FRE 3230 READING IN FRENCH LITERATURE AND CULTURE
PR: FRE 2201 or equivalent. This course is designed to build reading skills while giving students a broad background in French culture.

FRE 3420 COMPOSITION I
A fundamental composition course for students who have completed FRE 2200 and/or 2201.

FRE 3440 FRENCH FOR BUSINESS
PR: FRE 2200 or equivalent. An introduction to the French language in ordinary business transactions.

FRE 3470 OVERSEAS STUDY
An intensive study-travel project in France. Departmental approval required. May be repeated up to 12 credit hours.

FRE 3500 FRENCH CIVILIZATION
Readings and discussion on the cultural history of France.

FRE 4421 COMPOSITION II
Continuation of French composition. This course is designed to follow FRE 3420.

FRE 4471 ADVANCED OVERSEAS STUDY
PR: FRE 3470 or CI. Intensive language study in France. Departmental approval required. May be repeated up to 12 credit hours.

FRE 4700 FRENCH LINGUISTICS
PR: LIN 3010 and FRE 2201 or equivalent. An introduction to the phonological, morphological and syntactic structure of French.

FRE 4905 DIRECTED STUDY
Departmental approval required.

FRE 4930 SELECTED TOPICS
Study of an author, movement or theme.

FRE 5425 ADVANCED WRITTEN EXPRESSION
PR: FRE 4421, or equivalent. Course is designed to give advanced training in free composition in French.

FRE 5556 CONTEMPORARY FRANCE
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
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.

CHI 1120 MODERN CHINESE I
CR: CHI 1120L. Mandarin. An intensive study of basic skills: pronunciation, listening, comprehension, speaking, and some composition.

CHI 1121 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 1122 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 1123 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 2200 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
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.

CHINESE

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.)
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, Mol arie, Anouilh, Sartre, Ionesco and others. Will also include Villon, Ronsard, DuBellay, Lamartine, Hugo, Vigny, Musset, Baudelaire, Mallarme, Rimbaud, Valery, Peguy, E luard, 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, Boileau, Descartes, and Pascal.


FRW 5286 THE 20TH CENTURY NOVEL (3) PR: FRW 4100. Proust, Gide, Mauriac, Malraux, Camus, Robbe-Grillet.

FRW 5314 CLASSICAL DRAMA (3) PR: FRW 4101. Corneille, Moliere, and Racine.

FRW 5415 LITERATURE OF THE MIDDLE AGES (3) PR: FRW 4100 or FRW 4101. Major genres, including epics, Arthurian romances, drama and lyric poetry. Reading in modern French translation.

FRW 5425 LITERATURE OF THE RENAISSANCE (3) PR: FRW 4100 or FRW 4101. A study of Renaissance French humanism including Rabelais, Montaigne, and intermede poets.

FRW 5445 18TH CENTURY LITERATURE (3) PR: FRW 4100. The classical tradition and the new currents of thought in the Age of Enlightenment.


FRW 5535 ROMANTICISM (3) PR: FRW 4100 or FRW 4101. A study of the romantic and early realist movements with emphasis on Lamartine, Vigny, Musset, Hugo and Balzac.

FRW 5505 REALISM AND NATURALISM (3) PR: FRW 4100 or FRW 4101. A detailed study of realism and naturalism with emphasis on Flaubert, Zola, les Goncourt, Maupassant, and Daudet.

FRW 5934 SELECTED TOPICS (1-3) PR: Upper-level or graduate standing. Study of an author, movement or theme.

German

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 2240 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 5445 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 Indo-European through Germanic, Old, Middle, and New High German.

GET 3100 GERMAN LITERATURE IN ENGLISH TRANSLATION AND INTERPRETATION (3) Analysis and interpretation of major works of German literature, to be read in English, with regard to their thought content and relevance to our thoughts and actions.

GEW 4100 SURVEY OF GERMAN LITERATURE I (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, Hofmannshhal, George Rilke, Kaiser, Heym, Trakl, Thomas Mann, Hesse, Kafka, Benn, Brecht.

GEW 5489 20TH CENTURY LITERATURE: TO PRESENT (3) Study of major trends in German literature since WWII with emphasis on Borchert, Frisch, Durrenmatt, Boll, Uwe, Johnson, Grass, Aichinger, Eich Enzensberger, Bachmann.

GEW 5515 THE ENLIGHTENMENT (3) Selected dramas and critical writings by Lessing, Wieland, Kant.

GEW 5545 ROMANTICISM (3) Selected works by Grillparzer, Grabbe, Buchner, Hebbel, Heine, Immelman, Gerner, Keller, Meyer, Storm, Raabe, Hulshoff, and Morike.

GEW 5565 GOETHE (3) Selected novels, poems: Werther, Wahlverwandtschaften, Wilhelm Meister, Westöstlicher Divan.

GEW 5606 FAUST (3) Sources, form, content, and literary significance of Urfaust and Faust.

GEW 5615 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 (4) CR: GRK 1120L. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.

GRK 1120L BEGINNING MODERN GREEK I LABORATORY (1) 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.)
GRK 1121 MODERN GREEK II (4)
PR: GRK 1120 or its equivalent; CR: GRK 1121L. A continuation of GRK 1120. An intensive study of basic skills: pronunciation, listening comprehension, speaking and some composition.

GRK 1121L MODERN GREEK II LABORATORY (1)
CR: GRK 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.)

GRK 2200 MODERN GREEK III (4)
PR: GRK 1121 or the equivalent. For language students who intend to attain basic proficiency.

GRK 2201 MODERN GREEK IV (4)
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.

GRK 4905 DIRECTED STUDY (1-5)
Permits study options in Modern Greek not available in the regularly scheduled curriculum at departmental discretion. Degree mentors who intend to require. May be repeated up to 10 credit hours. (S/U only.)

GRK 4930 SELECTED TOPICS (1-5)
Course permits classes in Modern Greek not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours.

Hebrew

HBR 1120 MODERN HEBREW I (4)
CR: HBR 1120L. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.

HBR 1120L MODERN HEBREW I LABORATORY (1)
CR: HBR1120. 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.)

HBR 1121 MODERN HEBREW II (4)
PR: HBR 1120 or its equivalent; CR: HBR1121L. A continuation of HBR 1120. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

HBR 1121L MODERN HEBREW II LABORATORY (1)
CR: HBR 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.)

HBR 1122 MODERN HEBREW III (4)
PR: HBR 1121 or the equivalent. For language students who intend to attain basic proficiency.

HBR 2201 MODERN HEBREW IV (4)
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.

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. (S/U only.)

HBR 4930 SELECTED TOPICS (1-5)
Course permits classes 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 (4)
CR: ITA 1120L. The first course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking, and reading.

ITA 1120L BEGINNING ITALIAN LABORATORY (1)
CR: ITA 1120. A laboratory designed to offer additional practice using various instructional technologies and media.

ITA 1121 BEGINNING ITALIAN II (4)
CR: ITA 1121L. The second course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking and reading.

ITA 1121L BEGINNING ITALIAN II LABORATORY (1)
CR: ITA 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.)

ITA 2200 INTERMEDIATE ITALIAN I (3)
PR: ITA 1121 or equivalent. Readings in Italian on the elementary level. A review of the basic structure of spoken and written Italian.

ITA 2241 ITALIAN CONVERSATION II (4)
To assist students who have already made a start in speaking Italian, who have not had the advantages of travel or who have non-Italian speaking parents, to improve their skill in speaking Italian. Current events; literary discussions; free conversations; prepared speeches. Differences of media, syntactical signal.

ITA 3420 COMPOSITION (3)
A fundamental composition course for students who have completed ITA 2200 and ITA 2201.

ITA 3470 OVERSEAS STUDY (1-4)
An intensive study-travel project in Italy. Prior approval and early registration required. May be repeated up to 12 credit hours.

ITW 4100 SURVEY OF ITALIAN LITERATURE I (4)
A survey of Italian literature from the earliest monuments through the classicism of the 18th century.

ITW 4101 SURVEY OF ITALIAN LITERATURE II (4)
A survey of Italian literature beginning with the Classicism of the 18th century and continuing to present.

ITW 4905 DIRECTED STUDY (1-3)
Departmental approval required.

Japanese

JPN 1120 MODERN JAPANESE I (4)
CR: JPN 1120L. An intensive study of basic skills: pronunciation, listening comprehension, speaking, and some composition.

JPN 1120L MODERN JAPANESE I LABORATORY (1)
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 (4)
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 (1)
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 1122 MODERN JAPANESE III (3)
PR: JPN 1121 or equivalent. Continuing study to attain basic proficiency in Japanese.

JPN 2201 MODERN JAPANESE IV (3)
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.

POL 1121L BEGINNING POLISH II LABORATORY
CR: POL 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 2200 POLISH III
PR: POL 1121 or the equivalent. For language students who intend to attain basic proficiency.

POL 2201 POLISH IV
PR: POL 2200 or the equivalent. Continuation of POL 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

POL 4906 DIRECTED STUDY
Permits study options in Polish not available in regularly scheduled curriculum at departmental discretion. (S/U only.) Departmental approval required. May be repeated up to 10 credit hours.

POL 4930 SELECTED TOPICS
Course permits classes in Polish not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours.

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
PR: POR 1120 or equivalent. CR: POR 1121L. Continued development of basic skills in listening and reading comprehension, speaking and writing of Brazilian Portuguese.

POR 1121L BEGINNING PORTUGUESE II LABORATORY
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.)

POR 2200 INTERMEDIATE PORTUGUESE I
POR 2200 builds upon the four language skills (speaking, comprehension, reading, and writing) introduced in POR 1120 and POR 1121.

POR 2201 INTERMEDIATE PORTUGUESE II
For language students who intend to attain basic proficiency.

Russian

RUS 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 Cl. CR: RUS 1121L. The second course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading.

RUS 1122 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 2200 RUSSIAN III
PR: First year Russian or equivalent. Review and development of basic skills in conversation, composition, and reading.

RUS 2201 RUSSIAN IV
PR: RUS 2200 or equivalent. Review and development of basic skills in conversation, composition, and reading.

RUS 2270 OVERSEAS STUDY
Intensive study of the Russian language in Russia involving at least 20 hours per week of classroom instruction and cultural excursions conducted in Russian around Moscow and other parts of Russia. May be repeated up to 12 credit hours.

RUS 3240 CONVERSATION I
PR: Second year Russian or equivalent. Development of basic conversational skills.

RUS 3470 OVERSEAS STUDY
Intensive Russian at Moscow Linguistic University with excursions in Moscow and Russia. Must be enrolled in the USF Summer Study in Moscow program. Two years Russian required. Students from other institutions eligible.

RUS 3500 RUSSIAN CIVILIZATION -6A
A survey of the cultural history of Russia.

RUS 4241 CONVERSATION II
PR: Previous course in series or equivalent. Development of conversational skills.

RUS 4402 ADVANCED RUSSIAN CONVERSATION & COMPOSITION I
PR: RUS 4241 or Cl. Third year Russian.

RUS 4403 ADVANCED RUSSIAN CONVERSATION & COMPOSITION II
PR: RUS 4241 or Cl. Third year Russian.

RUS 4471 ADVANCED OVERSEAS STUDY
Intensive Russian at Moscow Linguistic University with excursions in Moscow and Russia. Must be enrolled in the USF Summer Study in Moscow program. Three years Russian required. Students from other institutions eligible.

RUS 4700 RUSSIAN LINGUISTICS
PR LIN 3010 or equivalent or Cl. An introduction to Russian Linguistics content: Phonology, Morphology, Word-formation, Syntax.

RUT 4900 SELECTED TOPICS
Study of an author, movement or theme.

RUS 4905 DIRECTED STUDY
Departmental approval required.

RUT 3110 RUSSIAN CLASSICS IN ENGLISH -6A -XLW
Masterpieces of 19th century Russian literature in English. The major works of Pushkin, Lermontov, Gogol, Turgeniev,
Spanish

SPN 1120 BEGINNING SPANISH I
CR: SPN 1120L. Development of basic skills in listening and reading comprehension, speaking and writing of Spanish. Not open to native or near-native speakers of Spanish. 

SPN 1120L BEGINNING SPANISH I LABORATORY
CR: SPN 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. Not open to native or near-native speakers of Spanish. (SU only)

SPN 1121 BEGINNING SPANISH II
PR: SPN 1120 or equivalent. CR: SPN 1121L. Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish. Not open to native or near-native speakers of Spanish.

SPN 1121L BEGINNING SPANISH II LABORATORY
CR: SPN 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. Not open to native or near-native speakers of Spanish. (SU only)

SPN 1130 ACCELERATED SPANISH FOR NEAR-NATIVE SPEAKERS AND OTHERS
PR: CI. Accelerated course for near-native speakers and others with some knowledge of Spanish capable of making rapid progress.

SPN 2200 SPANISH III
PR: SPN 1121 or equivalent. Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish. May NOT be taken concurrently with SPN 2201. Not open to native or near-native speakers of Spanish.

SPN 2201 SPANISH IV
PR: SPN 2200 or equivalent. Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish. May NOT be taken concurrently with SPN 2200. Not open to native or near-native speakers of Spanish.

SPN 2240 CONVERSATION I
PR: SPN 1121. For development of basic conversational skills. Not open to native or near-native speakers of Spanish.

SPN 2241 CONVERSATION II
PR: SPN 2240 or equivalent. To improve fluency in spoken Spanish. Not open to native or near-native speakers of Spanish.

SPN 2270 OVERSEAS STUDY
PR: SPN 1121. An intensive study-travel program in a Spanish-speaking country. Prior departmental approval and early registration are required.

SPN 3300 COMPOSITION
PR: SPN 2200-2201. A study of syntax, grammar and writing. Not open to native or near-native speakers of Spanish.

SPN 3340 ADVANCED SPANISH FOR NATIVE SPEAKERS I
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.

SPN 3341 ADVANCED SPANISH FOR NATIVE SPEAKERS II
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 primarily a discussion course, open to all majors and minors. May not count as Spanish major elective.

SPN 3345 AFFIRMATIVE ACTION
PR: SPN 3340. A study of Hispanic American literature in English. Emphasis on the social, political, and economic issues affecting such speakers. Not open to native or near-native speakers of Spanish.

SPN 3346 ADVANCED SPANISH FOR BUSINESS
PR: SPN 2201 or equivalent. An introduction to the Spanish language as used in undertaking ordinary business transactions.

SPN 3440 ADVANCED SPANISH FOR BUSINESS WRITING
PR: SPN 3440 or equivalent. 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 Spanish and Business majors and minors.

SPN 3500 SPANISH CIVILIZATION
PR: SPN 1121. The culture and civilization of Spain.

SPN 3520 SPANISH AMERICAN CIVILIZATION
Readings and discussions on the culture and civilization of Spanish America. Open only to non-majors.

SPN 3430 EXPOSITORY WRITING
PR: SPN 3300. Practical training in contemporary Spanish structure, usage and stylistic devices. Not open to native or near-native speakers of Spanish.

SPN 4410 ADVANCED CONVERSATION
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

SPN 4700 SPANISH LINGUISTICS
PR: LIN 3010 or equivalent (may be taken concurrently with CI) and SPN 2201 or equivalent. An introduction to Hispanic linguistics: Phonology, morphology, syntax, and lexicography.

SPN 5525 MODERN SPANISH AMERICAN CIVILIZATION
PR: SPN 3520 or equivalent or graduate standing. Advanced readings and discussions dealing with Spanish American civilization and culture, including a study of social, artistic and political trends, from Colonial Times to the present. Texts and discussions in Spanish.

SPN 5567 MODERN SPANISH CIVILIZATION
PR: SPN 3600 or equivalent or graduate standing. Advanced readings and discussions dealing with contemporary Spanish civilization and culture, including a study of recent social, artistic and political trends. Texts and discussions in Spanish.

SPT 2524 WOMEN WRITERS OF LATIN AMERICA-AF
Literature of Latin-American women (in translation). Topics related to race and ethnicity, values and ethics, social, economic, and political issues. Readings will include oral histories, interviews, diaries and memoirs, poetry, short stories, and novels. (May also be taken in Women's Studies.)

SPW 3030 INTRODUCTION TO HISPANIC LITERATURE
PR: SPN 2201 or equivalent. Prose fiction, drama, poetry, and essay; techniques of literary analysis.

SPW 4100 SURVEY OF SPANISH LITERATURE I
PR: SPW 3030 or equivalent. A study of Spanish literature from its origins through the 17th century.

SPW 4101 SURVEY OF SPANISH LITERATURE II
PR: SPW 3030 or equivalent. A study of the later periods of Spanish literature.

SPW 4131 SURVEY OF SPANISH-AMERICAN LITERATURE
PR: SPW 3030 or equivalent. An introduction to the study of Spanish-American literature from the Modernism period
to the present. Emphasis on modern writers since Darío.

SPW 4800 DIRECTED STUDY
(1-3)
Departmental approval required.

SPW 4930 SELECTED TOPICS
(1-3)
Study of an author, movement or theme.

SPW 5135 COLONIAL SPANISH AMERICAN LITERATURE
(3)
PR: SPW 4131. An introduction to Colonial Spanish American Literature from the Discovery through the Romantic Period.

SPW 5355 SPANISH AMERICAN DRAMA & POETRY
(3)
PR: SPW 4131. Major writers of all genres. Emphasis on modern writers.

SPW 5387 SPANISH AMERICAN PROSE
(3)
PR: SPW 4131. Emphasis on the gauchito theme and contemporary prose fiction.

SPW 5388 GOLDEN AGE POETRY AND DRAMA
(3)
PR: SPW 4100. Lope de Vega, Alarcon, Tirso, Calderon, and others.

SPW 5405 MEDIEVAL LITERATURE
(3)
PR: SPW 4100 or equivalent. Course gives an in-depth study of principal works and authors of the period such as El Poema de Mío Cid, Libro de Buen Amor and La Celestina.

SPW 5465 19TH CENTURY LITERATURE
(3)

SPW 5505 CERVANTES
(3)
Cervantes' masterpiece Don Quijote de la Mancha.

SPW 5725 GENERATION OF 1898
(3)
PR: SPW 4101. The major figures of the period and their main followers.

SPW 5726 VANGUARD LITERATURE OF 1918 AND 1936
(3)

SPW 5934 SELECTED TOPICS
(3)
PR: Upper-level or graduate standing. Study of an author, movement or theme.

Yoruba

YOR 1120 YORUBA I
(4)
This course is designed to familiarize students with modern orthography 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.

LINGUISTICS

ENS 1483 ENGLISH FOR FOREIGN STUDENTS I
(3)
A special course for students learning English as a second language. Intensive study and drill in American English pronunciation and listening comprehension.

ENS 1484 ENGLISH FOR FOREIGN STUDENTS II
(3)
PR: ENS 1483 or CI. A continuation of ENS 1483. Emphasis on reading and composition.

LIN 3010 INTRODUCTION TO LINGUISTICS
(3)
Introduction to the basic principles of linguistic science: phonological and grammatical analysis and description; language change and genetic relationships.

LIN 3801 LANGUAGE AND MEANING -6A
(3)
A survey introduction for non-specialists to the basic principles of semantics and the way language conveys ideas. This course is also available on WUSF/TV Channel 16 by Doctoral O.U. Program.

LIN 4040 DESCRIPTIVE LINGUISTICS
(3)
PR: LIN 3010 or CI. Introduction to the basic techniques of formalizing linguistic descriptions through elementary phonological, morphological, and syntactic data solution-problems drawn from a variety of languages. Both taxonomic and generative analysis and descriptions will be developed and compared.

LIN 4575 LANGUAGE TYPES OF THE WORLD
(3)
An introduction to linguistic typology consisting in a systematic comparison of characteristic representatives of the various language types, such as Vietnamese, Malay, Hungarian, Swahili, Sanskrit, Hebrew, and others. No knowledge of any of these languages on the part of the student is presumed.

LIN 4600 LANGUAGE AND SOCIETY
(3)
PR: LIN 3010. An analysis of the interrelation of a language and the structure of the society using it. The linguistic process is one of the processes that affect and are affected by the social process.

LIN 4710 LANGUAGE AND COMMUNICATION:
ACQUISITION AND DEVELOPMENT
(3)
PR: LIN 3010. A survey of current research and theory in the processes of normal acquisition and development of language and communication in children. The acquisition and development of phonology, syntax, semantics, pragmatics, and nonverbal communication and the role of language in general cognitive development.

LIN 4903 DIRECTED READING
(1-3)
Departmental approval required.

LIN 5321 SELECTED TOPICS
(1-3)
PR: CI. Course content depends upon students' needs and instructor's interest and may range over the entire field of linguistics.

LIN 5700 APPLIED LINGUISTICS
(3)
Analysis of the phonological, morphological, and syntactic features of English as a basis for linguistic application to problems of English language acquisition by non-native speakers.

TSL 4374 METHODOLOGY OF TEACHING ENGLISH OVERSEAS
(3)
PR: Upper-level standing. Designed to introduce and prepare the enrollee in the various facets of teaching English as a foreign language in the overseas setting. It will include aspects of teaching verbal skills and comprehension as well as writing. It involves a practicum at the English Language Institute on campus.

TSL 5321 ESOL STRATEGIES FOR CONTENT AREA TEACHERS
(3)
This course is designed for public school teachers working with limited English proficient (foreign) students in the classroom. The new ESOL requirements specify that this course be offered to content area teachers and to ESOL teachers. May not be repeated for additional credit hours.

TSL 5371 METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE
(3)
Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.

TSL 5372 ESOL CURRICULUM AND INSTRUCTION
(3)
Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.

TSL 5471 LANGUAGE TESTING
(3)
PR: TSL 5371. This is a lecture course on the methodology of testing English as a second/foreign language. May not be repeated for additional credit hours.

TSL 5525 CROSS-CULTURAL ISSUES IN ESL
(3)
PR: LIN 5700. This is a lecture course on cultural issues in teaching English as a second/foreign language. May not be repeated for additional credit hours.

Liberal Studies

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/will/body; substance and function.

IDS 3310 PROGRESS AND UTOPIA
(4)
Examination of the modern backgrounds of contemporary
practical, and the development of advertising research, and other information-based needs.

IDS 4930 SELECTED TOPICS
Course content determined by students' and instructor's interests and needs.

Library and Information Science

LIS 2001 INFORMATION RESOURCES AND LIBRARY RESEARCH
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.

LIS 2002 INTRODUCTION TO THE INTERNET
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.

LIS 2927 SELECTED TOPICS IN LIBRARY/INFORMATION SCIENCE
Covers a variety of topics in the field of library/information science such as emerging technologies, administration and service, and current professional issues. May be repeated up to 9 credit hours total when topic varies.

LIS 5315 INSTRUCTIONAL GRAPHICS
PR: CI. Theoretical aspects, planning and production of instructional graphic material. The Theory of graphic communications. Interpreting needs for instructional materials appropriate for given behavioral objectives.

LIS 5333 TV IN SCHOOL AND LIBRARIES
Small format video tape recordings and the utilization of open and closed broadcasts in schools and libraries.

LIS 5404 FOUNDATIONS OF LIBRARY AND INFORMATION SCIENCE
Introduction to the study of library and information science, history; organization; specialized literature; outstanding leaders; current trends, issues, and problems; the place of the information agency in society with its contributions to that society.

LIS 5937 SELECTED TOPICS IN LIBRARY STUDIES
Covers a variety of topics in such areas as collection development, reference services, technical services, and administration.

Marine Science

OCE 2001 INTRODUCTION TO OCEANOGRAPHY -NS
Overview of biological, chemical, geological, and physical oceanography. Also listed under Geology.

OCE 3300 SELECTED TOPICS IN MARINE SCIENCE
Selected topics in the marine sciences including marine biology, marine chemistry, marine geology, physical oceanography, and interdisciplinary topics relating to marine environments.

Mass Communications

ADV 3000 INTRODUCTION TO ADVERTISING
PR: MMC 2100 and MMC 3802. A study of the structure, functions, and persuasive language of advertising in mass media with attention to social, political, economic, and legal aspects.

ADV 3002 ADVERTISING DESIGN
PR: ADV 3000 for advertising sequence majors; VIC 3000 for other Mass Comm majors. Application of graphic design principles to various areas of advertising. Combining visual and verbal elements effectively.

ADV 3101 ADVANCED COPYWRITING
PR: ADV 3000 and ECO 1000. Study of laboratory experience in preparation of advertising copy for newspapers, magazines, radio, television, direct mail, outdoor displays, specialty items, and interactive electronic media.

ADV 3300 RADIO-TELEVISION ADVERTISING
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.

ADV 3300 ADVERTISING MEDIA STRATEGY
PR: ADV 3000 and ECO 1000. Problems, techniques, strategy of media research, planning, budgeting and effective utilization in advertising.

ADV 3700 RETAIL ADVERTISING PLANNING AND EXECUTION
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.

ADV 4800 ADVERTISING CAMPAIGNS
PR: ADV 3101, ADV 3300, MMC 4420, ECO 1000, and MAR 3023. Advanced advertising course requiring planning and production of complete general advertising campaign, including research, production methods, budgeting, and media schedules.

ADV 4940 ADVERTISING PRACTICUM
PR: CI. For advertising sequence majors. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study. (S/U only.)

FIL 2200 THE FILM AS MASS COMMUNICATION II: RHETORIC AND STYLISTICS
PR: FIL 3004. A continuation of FIL 3004 to include the effective arrangements of scenes and sequences in motion picture and television films.

FIL 3004 THE FILM AS MASS COMMUNICATION I: SYNTAX
PR: MMC 2100 and MMC 3600. 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.

FIL 4404 SOCIAL HISTORY OF THE FILM, 1945 TO THE PRESENT
PR: MMC 2100 and MMC 3600. The development of the film from 1945 to the present.

JOU 2100 BEGINNING REPORTING
PR: MMC 2100 and MMC 3600. Basic instruction in news judgment, sources of news, newsgathering, and newswriting techniques. Typing ability is required.

JOU 3101 ADVANCED REPORTING
PR: POS 2041, JOU 2100, or RTV 3304 (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.

JOU 3300 MAGAZINE ARTICLE AND FEATURE WRITING
PR: CRW 2100 and JOU 2100. Planning, researching, writing, and marketing articles for general and special interest magazines and newspaper supplement magazines; experiences in developing article ideas; inductive analysis of contemporary magazine articles.

JOU 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 news-editorial sequence majors. Practical experience outside the classroom where the
student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study. (S/U only.)

JOU 4104 PUBLIC AFFAIRS REPORTING
PR: JOU 3101 or RTV 3304 (RTV majors only), POS 2041 and POS 3142 or POS 2112. 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 1000, JOU 2100, 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 Cl. 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 4301 EDITING PRACTICUM
PR: Senior standing, JOU 4200 and Cl. For news-editorial sequence majors. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study. (S/U only.)

JOU 4344 MAGAZINE PRACTICUM
PR: Senior standing and Cl. For magazine sequence majors. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study. (S/U only.)

JOU 5116 EXPLORATIONS IN NEWSWRITING
PR: CC. Students work to develop writing styles, reporting on and creating stories about significant issues, events, and ideas. The course explores the notion that narrative style journalism can be accurate, thorough, fair, and compelling, effectively bringing readers into stories and giving them a bigger stake in the news. The focus is on going beyond traditional practices of reporting and writing news stories.

MMC 2100 WRITING FOR THE MASS MEDIA
PR: Sophomore standing; 2.7 overall grade point average; grade of "C" in ENC 1101, ENC 1102, and passing score on English Diagnostic Test. An introduction to the basic skills of writing for the mass media with practice in library research, persuasive writing, and informational writing.

MMC 3602 MASS COMMUNICATIONS AND SOCIETY

MMC 4123 MEDIA SCRIPT WRITING
PR: MMC 2100 and MMC 3602. An introduction to the techniques of writing scripts for photographic and multimedia presentation, electronic media, and industrial and documentary films.

MMC 4200 HISTORY AND PRINCIPLES OF COMMUNICATIONS LAW
PR: MMC 2100 and MMC 3602. Historical and constitutional backgrounds of freedom and control of expression, statutory enactments, major court decisions and administrative rulings which affect print media, telecommunications, advertising, and public relations.

MMC 4203 COMMUNICATION ETHICS
PR: MMC 2100 and MMC 3602 or Cl. A study of the fundamental principles and philosophies of ethics and their application to the decision-making process in the various professions of mass communications.

MMC 4420 RESEARCH METHODS IN MASS COMMUNICATIONS
PR: MMC 2100 and MMC 3602. An introduction to the theory and practice of quantitative and historical research methods as applicable to the study of media and mass communications. Emphasis on survey research, evaluation of data, and report writing.

MMC 4900 DIRECTED READING IN MASS COMMUNICATIONS
PR: Junior standing and Cl. Reading and directed study in special topics.

MMC 4910 INDIVIDUAL RESEARCH IN MASS COMMUNICATIONS
PR: Junior standing and Cl. The course provides means for a student to do independent study in an area not covered by a numbered course.

MMC 4936 SELECTED TOPICS IN MASS COMMUNICATIONS STUDIES
PR: MMC 2100, MMC 3602 I and Cl. Courses designed to meet current or specific topics of interest to instructors and students.

MMC 4945 MEDIA INTERNSHIP-SEMINAR
PR: Cl and 15 hours in Mass Comm. courses and completion of an 8-12 week paid media internship with a newspaper, broadcast station, or other media-related agency approved by the School. Report and presentation on experiences for discussion and evaluation. (S/U only.)

PGY 2110C COLOR PHOTOGRAPHY
PR: PGY 3620. Laboratory required. Development of knowledge and skills of color photography for publication and presentation. Emphasis is on the use of transparency and negative color materials in their application to the media.

PGY 3610 PHOTOJOURNALISM I
PR: MMC 2100 and MMC 3602. Laboratory required. Camera operation, darkroom techniques, picture composition; editing, ethics, history, and laws in connection with photojournalism.

PGY 3620 PHOTOJOURNALISM II
PR: PGY 3610. Laboratory required. Advanced process and practice of photography for publication. Content includes advanced camera and laboratory techniques, publication requirements, and theory of photochemical color separation used in magazine and newspaper. Emphasis is placed on student production.

PUR 4100 PRINCIPLES OF PUBLIC RELATIONS
PR: MMC 2100 and MMC 3602. The underlying theory and professional practice of public relations within corporate and institutional structures and its vital role in society; ethical standards of practice, and relationships of the practice to the public media; public relations problem-solving process.

PUR 4401 ADVANCED PUBLIC RELATIONS
PR: PUR 4401, PUR 4100, and MMC 4420. As the final course in the public relations sequence, it involves intensive study of counseling and problem-solving techniques used in professional practice. Analysis of case studies and preparation of complete public relations program. Extensive reading in the literature of contemporary practice.

PUR 4401 WRITING FOR PUBLIC RELATIONS
PR: JOU 2100 and PUR 3000. Techniques for creating effective written public relations communications to achieve organizational goals, including news releases, proposal letters, broadcast scripts, and memos. Exercises based on case study scenarios.

PUR 4401 PUBLIC RELATIONS: ISSUES, PRACTICES AND PROBLEMS
PR: PUR 3000. The theory of public relations practice and its application in the real world. The role of the public relations practitioner in business, government, and social institutions, and the nature of specialized areas of the practice. Identification of public issues, analysis of potential impact on organizations and development of strategies to deal with them successfully and responsibly. Communication techniques and trends.
RTV 4700 PUBLIC RELATIONS PRACTICUM (1)  
PR: Senior standing and CI. For public relations sequence majors. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study. (SU only)

RTV 2100 WRITING FOR RADIO AND TV (3)  
PR: ENC 3310 or CRW 2100 and RTV 3001. The art and practice of script writing for radio and television.

RTV 3001 INTRODUCTION TO TELECOMMUNICATIONS (3)  
PR: MMC 2100 and MMC 3602. A survey of the organization, structure, and function of the broadcasting industry.

RTV 3200 RADIO PRODUCTION AND DIRECTION (3)  
PR: RTV 3001. Radio production and direction; laboratory and broadcast experiences.

RTV 3225 VIDEO WORKSHOP (1)  
PR: MMC 2100 and MMC 3602. An introduction to the techniques and applications of field television production and electronic editing.

RTV 3304 BROADCAST NEWS (4)  
PR: MMC 3602 and MMC 2100. Methods in gathering, writing, and editing newscasts for radio and television.

RTV 4301 RADIO PRACTICUM (1)  
PR: RTV 3001 and CI. For telecommunications sequence majors. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study. (SU only)

RTV 4320 TV PRODUCTION AND DIRECTION (3)  
PR: RTV 3001 and RTV 3304. A basic course in the techniques of producing and directing TV programs.

RTC 4301 TV NEWS (3)  
PR: RTV 3001 and RTV 3304. Techniques in writing and video taping for television news.

RTC 4320 ELECTRONIC FIELD PRODUCTION (3)  
PR: RTV 3001 and RTV 3304. Advanced producing, scripting, lighting, camera, and editing for video production on location. Introduction to computer editing and graphics.

RTC 4500 TELECOMMUNICATIONS LAW AND POLICY (3)  
PR: for broadcast news option: RTV 3001, RTV 3304, MMC 4200, POS 3142 or POS 2112; for programming option: RTV 3001, RTV 4500, RTV 2100 or RTV 3304, and Senior standing. A study of the electronic media from the perspective of governmental regulation and the political process with special emphasis on how regulatory policy is determined.

RTC 4942 TV PRACTICUM (1)  
PR: RTV 4220 and CI. For telecommunications sequence majors. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study. (SU only)

VIC 3000 INTRODUCTION TO VISUAL COMMUNICATIONS (3)  
PR: MMC 2100 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 COMMUNICATION PRACTICUM (1)  
PR: Senior standing and CI. For visual communications sequence majors. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study. (SU only)

Mathematics

CGS 3422 PROBLEM SOLVING USING PASCAL OR C -6A (3)  
CR: MAS 3105. Introduction to Pascal or C with special emphasis on its applications to mathematics.

COP 4313 SYMBOLIC COMPUTATIONS IN MATHEMATICS -6A (3)  
PR: MAP 2302 and MAS 3105. Students will write programs to solve problems in various areas of mathematics including calculus and linear algebra with symbolic programming systems such as Maple, Mathematica, or Macsyma.

MAA 4211 INTERMEDIATE ANALYSIS I -6A (4)  

MAA 4212 INTERMEDIATE ANALYSIS II -6A (3)  
PR: MAA 4211. Riemann-Stieltjes integration, uniform convergence, and related topics.

MAA 4402 COMPLEX VARIABLES -6A (3)  
PR: MAA 4213. Complex numbers, Cauchy-Riemann equations, analytic and conformal functions, power series, Cauchy Integral Theorem, Cauchy Integral Formula, residue theory. (No credit for students with credit in MAA 5405.)

MAA 5306 REAL ANALYSIS I (3)  
PR: MAA 4211. Sets and functions, measure theory, measurable functions, Lebesque integrations and limit theorems.

MAA 5307 REAL ANALYSIS II (3)  
PR: MAA 5306. Continuation of MAA 5306, including functions of bonded variation, product measures and Fubibi's theorem, differentiation, L^1 spaces.

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 2102 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 (2)  
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 2132 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 MAC 2132 for students with credit in MAC 2233 or MAC 2234.)

MAC 2230 BUSINESS CALCULUS -6A -QM (3)  
PR: Three years of high school mathematics including two years of algebra or MAC 2102. Linear equations and functions, mathematics of finance, differentiation and integration of algebraic functions with applications to business, finance, and economics. (No credit for mathematics majors or students with credit in MAC 2233, MAC 2281, or MAC 2311.)

MAC 2233 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 2233-MAC 2234 are prerequisites for students from biological and social sciences. (No credit for mathematics majors or students with credit in MAC 2230, MAC 2281, or MAC 2311.)

MAC 2234 ELEMENTARY CALCULUS II -6A -QM (3)  
PR: MAC 2230 or MAC 2233. Techniques of integration,
differential equations, functions of several variables, series and Taylor polynomials. (No credit for mathematics majors or students with credit in MAC 2282 or MAC 2312.)

MAC 2281 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. Limits, differentiation, differentials, extrema, indefinite integrals. (No credit for students with credit in MAC 2230, MAC 2233, or MAC 2311.)

MAC 2282 ENGINEERING CALCULUS II -6A -QM (3)
PR: MAC 2281 or CC. Techniques of integration, trigonometric, log, and exponential functions, series, polar coordinates, applications. (No credit for students with credit in MAC 2234 or MAC 2312.)

MAC 2283 ENGINEERING CALCULUS III -6A (3)
PR: MAC 2282 or CC. Functions of several variables, partial derivatives, vector algebra, applications. (No credit for students with credit in MAC 2313.)

MAC 2311 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 is recommended. Limits, derivatives, applications. (No credit for students with credit in MAC 2230, MAC 2233, or MAC 2312.)

MAC 2312 CALCULUS II -6A -QM (4)
PR: MAC 2311 with a grade of "C" or better or CC. Antiderivatives, the definite integral, applications, series, log and exponential functions. (No credit for students with credit in MAC 2234 or MAC 2282.)

MAC 2313 CALCULUS III -6A (4)
PR: MAC 2312 with a grade of "C" or better or CC. Integration, polar coordinates, conic sections, vectors, indeterminate forms and improper integrals. (No credit for students with credit in MAC 2234 or MAC 2312.)

MAD 3100 DISCRETE MATHEMATICS -6A (3)
PR: MAC 2281 or MAC 2311. An introduction to some of the aspects of discrete mathematics that are fundamental to digital computing. Topics include sets, numbers, algorithms, Boolean algebra, computer arithmetic, elementary combinatorics and an introduction to graph theory.

MAD 4401 NUMERICAL ANALYSIS -6A (4)
PR: MAS 3105; ability to program a digital computer. Interpolation and quadrature, finite differences, numerical solution of algebraic and transcendental non-linear equations, numerical solution of differential equations, computer techniques.

MAD 5314 THEORY OF COMPUTATION -6A (3)

MAD 6101 LISP: PROGRAMMING WITH ALGEBRAIC APPLICATIONS (3)
PR: MGF 5306 or MAD 6510 or MAS 5311 or CI. Programming in LISP, functional languages, foundations of Lambda Calculus and algebraic applications (theorem proving and game playing).

MAD 5305 INTRODUCTION TO GRAPH THEORY (3)
PR: CI. Brief introduction to classical graph theory (4-color theorem, etc.), directed graphs, connected digraphs, condensations, incidence matrices, Polya's Theorem, networks.

MAD 5155 ABSTRACT ALGEBRA FOR TEACHERS (3)
PR: 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 (3)
PR: MAC 2313 and bachelor's degree or CC. Advanced consideration of limits continuity, derivatives, differentials. (No credit for Mathematics majors.)

MAP 2302 DIFFERENTIAL EQUATIONS -6A (3)
PR: MAC 2283 or MAC 2313. First order linear and non-linear differential equations, higher order linear equations, applications.

MAP 5316 ORDINARY DIFFERENTIAL EQUATIONS I (3)
PR: MAP 2302 or CI. Existence and uniqueness theory, properties of solutions, linear systems, stability theory, Sturm-Liouville theory.

MAP 5317 ORDINARY DIFFERENTIAL EQUATIONS II (3)
PR: MAP 5316 and MAA 5307 or CI. Topics selected from fixed point theorem, comparison theory, oscillation theory, Poincare-Bendixson Theory, Lyapunov functions, eigenfunction expansions.

MAS 4155 APPLIED PARTIAL DIFFERENTIAL EQUATIONS (3)
PR: MAP 5407 or CI. Separation of variables, the heat equation, wave equation, Laplace's equation, classification, Green's functions, with emphasis on applications.

MAP 5407 METHODS OF APPLIED MATHEMATICS (3)
PR: MAP 2302 or CI. Sturm-Liouville theory, Fourier series, Green's functions, matrix methods for linear systems of ordinary differential equations, and topics from calculus of variations, control theory, numerical solutions of differential equations.

MAS 3105 LINEAR ALGEBRA -6A (3)

MAS 4124 NUMERICAL LINEAR ALGEBRA -6A (3)
PR: MAS 3105. 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.

MAS 4156 VECTOR CALCULUS -6A (3)
PR: MAS 3105, and MAC 2313 or MAC 2283. Implicit and inverse function theorems, parametrized surfaces, submanifolds of Euclidean space, exterior calculus of differential forms, differentiation of vector fields, line and surface integrals, Stokes' Theorem, elementary continuous groups.

MAS 4214 ELEMENTARY NUMBER THEORY -6A (3)
PR: MAC 2312. Divisibility, prime numbers, Fundamental Theorem of Arithmetic, Diophantine equations, the algebra of congruences, number functions and other selected topics.

MAS 4301 ELEMENTARY ABSTRACT ALGEBRA -6A (3)
PR: MAS 3105. An introduction to the basic algebraic structures: groups, rings, integral domains, and fields; homomorphisms and isomorphisms.

MAS 5107 ADVANCED LINEAR ALGEBRA (3)
PR: MAS 4301 or CI. CR: MAS 5311. The study of finite dimensional vector spaces over arbitrary fields. Topics covered include dual spaces, canonical forms for linear transformations, inner product spaces, orthogonal, unitary and self-adjoint operators and quadratic forms.

MAS 5215 NUMBER THEORY (3)
PR: MAS 4301 or CI. Fundamental theorem of arithmetic, modular arithmetic, Chinese remainder theorem, Mersenne primes, perfect numbers, Euler-Fermat theorem, pseudoprimes, primitive roots, law of quadratic reciprocity, factorization and primality testing algorithms.

MAS 5311 ALGEBRA I (3)
PR: MAS 4301 or CI. Group theory: Sylow theorems, classification of groups of small order. Ring theory: ideals, quotient rings, polynomial rings, Euclidean domains, quotient rings, polynomial rings, Euclidean domains, principal ideal domains and unique factorization.

MAS 5312 ALGEBRA II (3)
PR: MAS 5311 or CI. Continuation of MAS 5311. Finitely generated modules over a principal ideal domain, basic field theory, finite field theory, Galois theory.

MAT 2930 SELECTED TOPICS IN MATHEMATICS (1-4)
PR: CI. The course content will depend on the interest of faculty members and student demand.
MAT 2936 TECHNOLOGY SEMINAR -6A (1) A two contact hour/week technology seminar to acquaint students majoring in mathematics, physics, and other sciences with the computer tools necessary in scientific communication and document preparation. (S/U only. May not be repeated.)

MAT 4906 INDEPENDENT STUDY -6A (1-4) PR: CI. Specialized independent study determined by the student's needs and interests. The written contract required by the College of Arts and Science specifies the regulations governing independent study. May be repeated. (S/U only.)

MAT 5306 SELECTED TOPICS IN MATHEMATICS -6A (1-4) PR: CI. The course content will depend on the interest of faculty members and student demand.

MAT 4937 MATHEMATICS MAJORS SEMINAR -6A (1) PR: MAS 4301. Directed discussions on a variety of topics of interest to mathematics majors, including career opportunities in mathematics. (S/U only. May not be repeated.)

MAT 4970 MATHEMATICS SENIOR THESIS -6A (3) PR: Admission to Mathematics Honors Program and CC. Course restricted to mathematics majors. (S/U only.)

MAT 5832 SELECTED TOPICS -6A (1-4) PR: CI. Each course covers a single topic outside the usual curriculum.

MGF 2131 CHAOS AND FRACTALS -6A -QM (3) PR: High school algebra and trigonometry. Computer experiments in the behavior of functions under iteration: periodicity, attractors, stability, complex numbers, Cantor set, fractional dimension, sensitive dependence.

MGF 2202 FINITE MATHEMATICS -6A -QM (3) PR: Two years of high school algebra. Concepts and analytical skills in areas of logic, linear equations, linear programming, mathematics of finance, permutations and combinations, probability, and descriptive statistics.

MGF 3301 BRIDGE TO ABSTRACT MATHEMATICS -6A -QM (3) PR: MAC 2311 or MAC 2281. An introduction to the axiomatic nature of mathematics through topics in areas such as set theory, algebra, and calculus. The rigor of precise definitions, theorems, and proofs will be emphasized.

MHF 4403 THE EARLY HISTORY OF MATHEMATICS -6A -XMW (3) PR: MAC 2312 and upper-level standing. A study of the history and development of mathematics and its cultural impact from the formation of number systems to the Renaissance.

MHF 5306 MATHEMATICAL LOGIC AND FOUNDATIONS I (3) PR: MAS 4301 or CI. Two-course sequence covering: predicate calculus and classical model theory; transfinite set theory and the system ZFC; recursion theory and decidability.

MHF 5405 HISTORY OF MODERN MATHEMATICS (3) PR: MAC 2313. Traces the development of mathematical ideas in Western culture. Special emphasis is placed on those concepts which led to the Calculus. This course is open to majors and non-majors alike.

MTG 4212 GEOMETRY -6A (4) PR: MGF 3301 or CI. Emphasis on axiomatics, advanced Euclidean geometry, elements of projective geometry, non-Euclidean geometries.


MTG 5256 DIFFERENTIAL GEOMETRY (3) PR: MAA 4211, MAS 3105. Exterior calculus, differentiable manifolds, integration of differential forms, surfaces in 3-space, covariant derivative, curvature, matrix groups.


MTG 5317 TOPOLOGY II (3) PR: MTG 5316. The fundamental group; elements of homotopy theory and homology theory.

STA 2022 BASIC STATISTICS -6A -QM (3) Basic philosophy of statistical thinking. Acquisition of data. Techniques for organizing and presenting statistical data. Sample mean, variance and standard deviation. Statistical decisions—estimation and hypothesis testing. Design of experiments, linear association and prediction. Statistical software. (No credit for mathematics majors.)

STA 2023 INTRODUCTORY STATISTICS I -6A -QM (4) PR: Two years of high school algebra. Descriptive statistics, basic probability principles, discrete and continuous probability distributions: binomial, normal, t, and chi-square; point estimation, confidence limits, and hypothesis testing. Emphasis on applications to social sciences, life sciences, physical sciences, engineering, and business. Students who successfully complete this course may not also receive credit for QMB 2150 or STA 2122. (No credit for Mathematics Majors.)

STA 3024 INTRODUCTORY STATISTICS II -6A (3) PR: STA 2023 or CC. Factorials, ANCOV; multiple curvilinear regression; response surfaces; Latin squares; Split Plots, incomplete designs; distribution free methods.

STA 4321 INTRODUCTION TO STATISTICS -6A (3) PR: STA 4442. Basic statistical methods. Estimation, hypothesis testing, regression, ANOVA, and nonparametric theory and methods.

STA 4442 INTRODUCTION TO PROBABILITY -6A (3) PR: MAC 2313 or MAC 2283. Introduction to probability theory using calculus. Basic ideas of probability and random variables, discrete and continuous probability functions, continuous probability densities, joint distributions, transformations of random variables, moments and generating functions of random variables, and limit theorems.

STA 5166 COMPUTATIONAL STATISTICS I (3) PR: STA 4321, CGS 3422 or CC. Statistical analysis of data by means of statistics package programs. Regression, ANOVA, discriminant analysis, and analysis of categorical data. Emphasis is on inter-relation between statistical theory, numerical methods, and analysis of real life data.

STA 5228 SAMPLING TECHNIQUES (3) PR: STA 4321 or CI. Sampling versus total enumeration. Planning of a survey. Statistical sampling methods and their analysis; simple, stratified, systematic cluster, and double and multistage sampling. Use of auxiliary information in sampling. Ratio and regression estimates. Case study.

STA 5326 MATHEMATICAL STATISTICS (3) PR: STA 5446. Sample distribution theory, point and interval estimation, optimality theory, statistical decision theory and hypothesis testing.

STA 5446 PROBABILITY THEORY I (3) PR: STA 4442 and MAA 2411 or CI. Axioms of probability, random variables in Euclidean spaces, moments and moment generating functions, modes of convergence, limit theory for sums of independent random variables.

STA 5526 NON-PARAMETRIC STATISTICS (3) PR: STA 5326, CC. Topics may include: classical nonparametric statistical theory, nonparametric density estimation, nonparametric regression, generalized additive models, nonparametric pattern recognition, classification and regression trees.

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 math and computer applications.

MLS 4850 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**
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on the tissues, cells, and molecules of the human immune system, emphasizing the detection of serum antibodies and disease states.

**MLS 4862 CLINICAL HEMATOLOGY**
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on cellular components of the blood as related to laboratory diagnosis and disease, including blood coagulation and morphological and biochemical aspects of blood cells.

**MLS 4863 CLINICAL MICROBIOLOGY**
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 CHEMICAL PHYSIOLOGY**
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on the analysis of chemical substances found in the body as related to the diagnosis of human disease, including topics such as instrumentation, electrophoresis, therapeutic drug-monitoring assays, tumor markers, and toxicology.

**MLS 4865 CLINICAL IMMUNOHEMATOLOGY**
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.

**MLS 4866 CLINICAL LABORATORY MANAGEMENT AND EDUCATION**
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on concepts of laboratory management, including personnel staffing, reimbursement, quality assurance, and regulatory issues, and clinical education techniques, including writing, lecture presentation, and evaluation.

**Philosophy**

**PHI 2000 INTRODUCTION TO PHILOSOPHY-6A -HP**
An introduction to selected philosophical problems and traditions.

**PHI 3062 HISTORY OF PHILOSOPHY: ANCIENT AND MEDIEVAL**
A survey of Western philosophy from the pre-Socratics to the end of the Middle Ages.

**PHI 3420 HISTORY OF PHILOSOPHY: MODERN**
A survey of Western philosophy from the end of the Middle Ages to the nineteenth century.

**PHI 4440 CONTINENTAL PHILOSOPHY**
A study of developments in post-Kantian European philosophy.

**PHI 4681 CONTEMPORARY PHILOSOPHY -6A -XMW**
Selected schools of twentieth century thought such as idealism, positivism, pragmatism, realism, and existentialism.

**PHI 4700 AMERICAN PHILOSOPHY -6A-XMW**
Major traditions in American thought, Puritanism, the Enlightenment, Transcendentalism, Idealism, Pragmatism, and Analytic Philosophy in relation to American culture.

**PHI 1103 CRITICAL THINKING -SS**
Methods of thinking that lead to reliable conclusions, with emphasis on concrete cases in ordinary thinking and the sciences.

**PHI 2100 INTRODUCTION TO FORMAL LOGIC -6A -QM**
An elementary study of propositional, predicate, class and syllogistic logic with some attention to basic problems of logical theory.

**PHI 2600 ETHICAL THEORY**
A study of ethical theories, concepts, problems and methods.

**PHI 2631 ETHICS AND BUSINESS**
An application of traditional ethical theories to contemporary problems in business.

**PHI 3404 SCIENTIFIC METHOD**
Probability, inductive inference, the hypothetico-deductive method, experimentation, and selected topics in the philosophy of science.

**PHI 3601 CONTEMPORARY MORAL ISSUES -6A -SS**
Open to all students. A study of contemporary moral issues concerning racism, sexism, abortion, poverty, crime, war, suicide, and human rights in general.

**PHI 3633 BIOMEDICAL ETHICS**
This course will focus on the ethical issues arising from advances in medical practice, delivery of health care, and scientific research.

**PHI 3636 PROFESSIONAL ETHICS**
PR: Junior standing. An examination of the ethical problems that professionals will face in the complex, global society of the next few decades: confidentiality, divided loyalty, racism/sexism, etc.

**PHI 3640 ENVIRONMENTAL ETHICS -SS**
A study of alternative theories of environmental ethics, including the application of these theories to contemporary environmental problems, such as pollution, resource depletion, species extinction, and land use.

**PHI 3700 PHILOSOPHY OF RELIGION -6A -SS**
Analysis of religious experience and activity and examination of principal religious ideas in light of modern philosophy.

**PHI 3905 DIRECTED STUDY**
PR: Cl. Individual study directed by a faculty member. Approval slip from instructor required.

**PHI 3930 SELECTED TOPICS**
PR: Cl. Selected topics according to the needs of the student.

**PHI 4073 AFRICAN PHILOSOPHY -XMW**
A descriptive and analytical study of African philosophical thought, featuring reflective comparisons of African and Western categories of thought. (May also be taken for credit in Africana Studies.)

**PHI 4300 THEORY OF KNOWLEDGE -6A -XMW**
An examination of human knowledge; its scope and limits, and an evaluation of evidence, criteria of truth, the nature of belief, conditions for meaningfulness, theories of perception, and a study of memory and sense perception in the four major fields of nature, history, personal experience, and the a priori.

**PHI 4320 PHILOSOPHY OF MIND -6A-XMW**
A study of historical and current issues in philosophy of mind, including the nature and status of mind, mind/body dualism, the relationship of mind and body, the problems of other minds, the physical basis for intelligence, etc.

**PHI 4632 FEMINIST ETHICS -XMW**
A study of the varied approaches to moral reasoning taken by feminist ethical writers such as世界杯craft, Mill, Gilligan, Daly, Hoagland and others. (May also be taken for credit in Women's Studies.)

**PHI 4800 AESTHETICS -6A -XMW**
A study of traditional and contemporary aesthetic theories with emphasis on creative process, the nature of the art work, the aesthetic response, expressiveness, form and content, as well as art and morality.

**PHI 4905 DIRECTED STUDY**
PR: Cl. Individual study directed by a faculty member. Approval slip from instructor required.

**PHI 4930 SELECTED TOPICS**
PR: Cl. Selected topics according to the needs of the senior students. Approval slip from instructor required.

**PHI 5135 SYMBOLIC LOGIC**
PR: PHI 2100 or Cl. Study of topics such as the following: Metatheory of propositional and predicate logic, related metatheoretic results, alternative logics.
PHI 5225 PHILOSOPHY OF LANGUAGE
PR: Eight hours of philosophy, major in linguistics, or CL. An examination of semantic, syntactical, and functional theories of language with special attention given to the problems of meaning, linguistic reference, syntactical form, and the relations between scientific languages and ordinary linguistic usage. Seminar format.

PHI 5931 RESEARCH
PR: CL. Individual research supervised by a faculty member. Approval slip from instructor required.

PHI 5934 SELECTED TOPICS
PR: CL. Selected topics according to the needs of the student. Approval slip from instructor required.

PHI 3021 PHILOSOPHIES OF LOVE AND SEX
Discussion of Philosophies of Love/Sex of Plato, Aristotle, Epicurus, Aquinas, Hume, Kant, Schopenhauer, Russell, Sartre, Marx, etc.

PHM 3100 SOCIAL PHILOSOPHY -6A
An analysis of rival theories of social order and their philosophical foundations.

PHM 3400 INTRODUCTION TO PHILOSOPHY OF LAW
A study of the fundamental concepts of law from a philosophical standpoint including crime, justice, punishment, free speech, insanity, etc.

PHM 4322 ANCIENT AND MEDIEVAL POLITICAL PHILOSOPHY -6A -XMW
A survey of political philosophy from 6 B.C. until 1600 A.D. including an examination of the ethical, metaphysical, and epistemological bases of these philosophies.

PHM 4331 MODERN POLITICAL PHILOSOPHY -XMW
A survey of political philosophy from 1600 A.D. until 1900 A.D., including an examination of the ethical, metaphysical, and epistemological bases of these philosophies.

PHM 4340 CONTEMPORARY POLITICAL PHILOSOPHY -6A -XMW
A survey of political philosophy in the twentieth century, including an examination of the ethical, metaphysical, and epistemological bases of these philosophies.

PHM 5125 TOPICS IN FEMINIST PHILOSOPHY
A study of recent feminist philosophical approaches to epistemology, aesthetics or political philosophy. (May also be taken for credit in Women's Studies.)

PHP 3786 EXISTENTIALISM -6A -HP
A study of the religious and atheistic existentialists and the bearing of their views on religion, ethics, metaphysics, and theory of knowledge.

PHP 4000 PLATO -6A -XMW
The examination of Plato will include the dialogues of Protagoras, Georgias, Meno, Republic, etc.

PHP 4010 ARISTOTLE -6A -XMW
Study of Aristotle's philosophy.

PHP 4410 KANT
Lecture and discussion of Kant's philosophy, especially The Critique of Pure Reason.

PHP 4740 THE RATIONALISTS -6A
A careful study of the epistemologies of Descartes, Spinoza, Leibniz, and Malebranche.

PHP 4745 THE EMPIRICISTS -6A
A careful study of epistemologies of Locke, Berkeley, Hume, and Thomas Reid.

PHP 4784 ANALYTICAL PHILOSOPHY -6A
A study of the method devoted to clarifying philosophical problems through analysis of the language in which these problems are stated.

PHP 4788 PHILOSOPHY OF MARXISM -6A -XMW
A critical survey of Marxist philosophy from Marx and Engels to Mao Tse-Tung and Herbert Marcuse. Hegelian foundations of Marxist philosophy analyzed in detail.

WST 4342 CLASSICS IN FEMINIST THEORY -XMW
A study of classic contributions to the elaboration of feminist thought from the 18th century to the present in an attempt to discover the roots of the contemporary feminist movement. (May also be taken for credit in Women's Studies.)
PHY 4324C ELECTRICITY AND MAGNETISM II
PR: PHY 3323C; CR: MAP 2302. Introduction to special relativity, magnetic fields and potentials, magnetic materials, RL and RLC circuits, Maxwell's equations and applications. Laboratory. Second semester of sequence PHY 3323C, PHY 4324C.

PHY 4813 STATISTICAL PHYSICS
PR: PHY 3101 or CI. A statistical approach to thermodynamics and kinetic theory and introduction to statistical mechanics.

PHY 4804 INTRODUCTION TO QUANTUM MECHANICS
PR: PHY 3101, or CI. Basic concepts of quantum mechanics with applications in atomic, nuclear, and condensed matter Physics.

PHY 4744C INTRODUCTION TO ELECTRONICS AND TEST INSTRUMENTATION
PR: General Physics or CI. Introduces the fundamentals of analog and digital electronics used in measurements and instrumentation. Weekly labs give hands-on experience in breadboarding electronic circuits and using test instrumentation (oscilloscopes, digital multimeters, etc.) (Not for major credit).

PHY 4823L ADVANCED LABORATORY
PR: PHY 3822L. Experimental work primarily related to nuclear physics. Emphasis on modern physical experimental techniques employing some of the new types of equipment.

PHY 4905 INDEPENDENT STUDY
PR: CI. Specialized, independent study determined by the student's need and interest. The written contract required by the College of Arts & Sciences specifies the regulations governing independent study. May be repeated. (S/U only.)

PHY 4910 UNDERGRADUATE RESEARCH
PR: Senior or advanced junior standing and CC. An individual investigation in the laboratory or library or both, under the supervision of the instructor. Credit hours and other contractual terms, are to be determined by student/instructor agreement. (S/U only.)

PHY 4930 PHYSICS SEMINAR
PR: Senior or advanced junior standing or CC. All undergraduate physics majors must enroll in this course at least once and are expected to attend all Physics Colloquia. (S/U only.)

PHY 4936 SELECTED TOPICS IN PHYSICS
PR: Senior or advanced junior standing and CC. Each topic is a course in directed study and under the supervision of a faculty member.

PHY 5720C ELECTRONICS FOR RESEARCH
PR: CI. A rigorous introduction to the fundamentals of analog and digital electronics. Theoretical circuit analysis and weekly labs introduce practical diodes, transistors, analog and digital ICs, breadboarding techniques and electronic test instrumentation.

PHY 5937 SELECTED TOPICS IN PHYSICS
PR: Senior or advanced standing and CC. Each topic is a course in directed study under the supervision of a faculty member.

PHZ 5115 METHODS OF THEORETICAL PHYSICS I
PR: MAP 2302 or CI. Applications of mathematical techniques to classical and modern physics. Vector spaces including Hilbert space, orthogonal functions, generalized functions, Fourier analysis, transform calculus, and variational calculus.

PHZ 5127 METHODS OF THEORETICAL PHYSICS II
PR: MAP 2302 or CI. Applications of mathematical techniques to classical and modern physics. Selected topics in complex analysis, differential and integral equations, numerical methods, and probability theory.

PHZ 5304 NUCLEAR PHYSICS
PR: PHY 4604 or CI. Nuclear forces, nuclear models, nuclear structure, decay, nuclear reaction, and high energy physics.

PHZ 5405 SOLID STATE PHYSICS I
PR: PHY 3101, MAP 2302. Crystal structure, x-ray and electron diffraction, mechanical and thermal properties of solids, electrical and magnetic properties of metals, band theory of metals, insulators, and semiconductors. First semester of sequence PHZ 5405, PHZ 6426.

Political Science

CPO 2002 INTRODUCTION TO COMPARATIVE POLITICS - SS
Comparison and analysis of representative European and non-Western political systems.

CPO 4034 POLITICS OF THE DEVELOPING AREAS
An analysis of the ideologies, governmental structures, and political processes of selected nations of the non-Western world.

CPO 4930 COMPARATIVE GOVERNMENT AND POLITICS OF SELECTED COUNTRIES OR AREAS
Studies political systems with common elements. Structure, process, domestic and foreign politics, and regional roles are considered. May be repeated up to 9 credit hours as topics vary.

CPO 5934 SELECTED TOPICS IN COMPARATIVE POLITICS
Studies specific substantive areas in comparative politics such as political economy or the politics of specific countries or regions. May be repeated for credit as topics vary.

INR 2002 INTRODUCTION TO INTERNATIONAL RELATIONS
Concepts and analytical tools applied to events such as politics among nations, control of foreign policies, types of actors, war and peace.

INR 3102 AMERICAN FOREIGN POLICY
Analysis of the development and scope of United States foreign policy, emphasizing goals and objectives, policy formulation and implementation, themes and issues.

INR 4035 INTERNATIONAL POLITICAL ECONOMY
Analysis of the development and politics of the international economic system, focusing on questions of cooperation and conflict in trade, aid, and investment relationships.

INR 4254 AFRICA IN WORLD AFFAIRS
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 UN and its agencies.

INR 4334 DEFENSE POLICY
Analytic institutional factors contributing to formulation of defense policy and the impact of such policy on international relations.

INR 4403 INTERNATIONAL LAW
Examines essential components of the international legal system; recognition; succession; sea, air and space law, treaties, diplomats, International Court of Justice; laws of war, etc. Introduces the student to legal reasoning as employed in the international context.

INR 4402 INTERNATIONAL ORGANIZATIONS - SS
Studies the operations and structure of international organizations and effects on world politics; background and achievement of the UN; regional organizations and multi-national corporations.
INR 5086 ISSUES IN INTERNATIONAL RELATIONS (3)
Explore specific topics and provides the student with an opportunity for in-depth study of historical and contemporary problems in international politics. May be repeated for credit as topics vary.

POS 2041 AMERICAN NATIONAL GOVERNMENT (3)
Analysis of basic principles and procedures of the American governmental system with emphasis on current issues and trends.

POS 2080 THE AMERICAN POLITICAL TRADITION -SS -HP (3)
This course is an introductory survey of the historical developments and changes in American political institutions, processes, and thought.

POS 2112 STATE AND LOCAL GOVERNMENT AND POLITICS (3)
Analysis of the structure and function of state and local governments, of the social and political influences that shape them, and of the dynamics of their administrative processes.

POS 3142 INTRODUCTION TO URBAN POLITICS AND GOVERNMENT (3)
Governmental and political structures and processes as they function in urban areas, with special focus on municipalities and locally based public services.

POS 3195 GOVERNMENT IN METROPOLITAN AREAS (3)
Examines governmental units and interactions in metropolitan areas, proposals for changes in governance, and policy areas of area-wide concern, such as human services.

POS 3173 SOUTHERN POLITICS (3)
Examines political and social change in the South, and the rise of interest groups and the state and federal government in facilitating change.

POS 3182 FLORIDA POLITICS AND GOVERNMENT (3)
A study of Florida political culture, political parties and elections, the legislative, executive, and judicial systems, and policy patterns.

PR: POS 2041 or POS 3453 or CI. Coordinated scholarly and practical activity through class lecture and supervised field work in local political parties and election campaigns.

POS 3283 JUDICIAL PROCESS AND POLITICS (3)
The organization, development, and functioning of American court systems and the causes and consequences of judicial behavior from an empirical perspective.

POS 3453 POLITICAL PARTIES AND INTEREST GROUPS (3)
Analysis and understanding of role, functions, structure, and composition of such, and their impact on American governmental institutions.

POS 3691 INTRODUCTION TO LAW AND POLITICS (3)
Nature of law, legal process, relationship to political life of constitutional law, administrative law, the judicial process, and private law.

POS 3697 ENVIRONMENTAL LAW (3)
This course examines some of the major issues involving environmental law. Specially, the course provides a survey and analysis of statutes, both state and federal, regulating water, air, soil pollution, and resource conservation and recovery. The course will also address questions pertaining to problems of implementation, interpretation, enforcement, and development of environmental laws.

POS 3713 EMPirical POLITICAL ANALYSIS (3)
Fundamentals of empirical political inquiry: systematic data collection and quantitative analysis techniques. Laboratory exercises using the computer are required.

PR: 3.0 average in Political Science and CI. Specialized study determined by the student's needs and interests. (S/ U only.)

POS 4903 INDEPENDENT STUDY (1-3)
May be repeated for credit as topics vary.

POS 4910 INDIVIDUAL RESEARCH (1-3)
PR: 3.0 average in Political Science and CI. Investigation of some aspect of political science culminating in the preparation of an original research paper.

POS 4936 SENIOR SEMINAR (3)
PR: Senior standing and CI. An opportunity to work with others in a seminar format, exploring specialized topics.

POS 4941 FIELD WORK (1-3)
PR: 3.0 average in Political Science and CI. Opportunity for students to obtain practical experience as aids to agencies of government and political parties.

POS 4970 HONOR THESIS (3)
PR: Admission to Honor option. Writing of honor thesis under direction of faculty members.

POS 5094 ISSUES IN AMERICAN NATIONAL AND STATE GOVERNMENT (3)
Select topics of study in American government. May be repeated for credit as topics vary.

POS 5155 ISSUES IN URBAN GOVERNMENT AND POLITICS (3)
Selected issues and policies in Urban Government and politics. May be repeated for credit as topics vary.

POS 5736 POLITICAL RESEARCH METHODS (3)
A survey of methods, problems, and issues in political research and analysis for the advanced student.

POT 3003 INTRODUCTION TO POLITICAL THEORY (3)
Examines various kinds of theory used in political science for understanding political life: normative theory, empirical theory, historicist theory, analytical theory, and critical theory.

POT 3013 CLASSICAL POLITICAL THEORY (3)
Analysis of classical ideas of Plato, Aristotle, Cicero, St. Thomas, and other leading pre-modern political philosophers.

POT 4054 MODERN POLITICAL THEORY (3)
Analysis of basic political ideas of Machiavelli, Hobbes, Locke, Rousseau, Burke, and other modern philosophers.
POT 4064 CONTEMPORARY POLITICAL THOUGHT (3)
Examines various political views and political phenomena in the nineteenth and twentieth centuries. Diverse theoretical types and salient political phenomena will be presented.

POT 4109 POLITICS AND LITERATURE -6A-XLW (3)
Critical examination of the connections between politics and literature.

POT 4204 AMERICAN POLITICAL THOUGHT (3)
Examines political writings in the U.S. and responses to critical periods in history, beginning with the Founding Fathers, and culminating in recent contributions and understanding contemporary political problems and solutions.

POT 4881 THE POLITICS OF IDENTITY, DIFFERENCE AND INEQUALITY -XMW (3)
PR: POT 3003. An analysis of how relationships of social identity and difference become the basis of social, political and economic inequality in modern society. It incorporates both contemporary and "classical" discussions of inequality.

POT 4936 SELECTED TOPICS IN POLITICAL THEORY (3)
Selected topics or thinkers in political theory.

POT 5626 ISSUES IN POLITICAL PHILOSOPHY AND LAW (3)
PR: Graduate or senior standing and Cl. Selected topics in political philosophy and law. May be repeated as topics vary.

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, and struggle to become effective participants in the American political process. (May also be taken for credit in Africana Studies.)

PUP 4002 PUBLIC POLICY (3)
Examines the formation and implementation of public policy in areas such as the economy, health, etc.

PUP 4203 ENVIRONMENTAL POLITICS AND POLICY (3)
Examines the politics of environmental issues, formation and implementation of environmental policy.

PUP 4323 WOMEN AND POLITICS -6A-XMW (3)
An analysis of the impact of gender on power and influence in American society, and women's changing role in the political process. (May also be taken for credit in Women's Studies.)

PUP 5007 PUBLIC POLICY AND HEALTH CARE (3)
The study of health care policy as it relates to the policy process in the American setting.

URP 4001 CITY PLANNING AND COMMUNITY DEVELOPMENT (3)
An introduction to the development, role, and components of city planning, and the political and actual policies of government in attempting to regulate or control urbanization.

Psychology

CBH 4004 COMPARATIVE PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better, psychology major or Cl. The study of the evolution of behavior, similarities, and differences in capacities for environmental adjustment and for behavioral organization among important types of living beings.

CLP 3003 PSYCHOLOGY OF ADJUSTMENT -SS (3)
Genetic, organic, and learned factors involved in the processes of personal adjustment: applications of mental health principles to everyday living. Not for major credit.

CLP 4143 ABNORMAL PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better, psychology major or Cl. Descriptions, theoretical explanations, research evidence, and treatment of maladaptive behavior.

CLP 4414 BEHAVIOR MODIFICATION (3)
PR: PSY 3213 with a grade of C or better, psychology major or Cl. Introduction to behavior analysis, and application of learning principles, behavioral measurement, research designs, and interventions in treatment settings.

CLP 4433 PSYCHOLOGICAL TESTS AND MEASUREMENT (3)
PR: PSY 3213 with a grade of C or better, psychology major or Cl. A consideration of the instruments for intellectual and personality assessment including their applications, development, and potential abuses. Students may not receive credit for both CLP 4433 and EDF 4430.

DEP 3103 CHILD PSYCHOLOGY -SS (3)
Developmental and psychological aspects of childhood, including hereditary, maternal, psychological, and social determinants of child behavior. Not for major credit.

DEP 4005 DEVELOPMENTAL PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better, psychology major or Cl. Survey of methods, empirical findings, and theoretical interpretations in the study of human development.

DEP 4535 PSYCHOLOGY OF LANGUAGE DEVELOPMENT (3)
PR: PSY 3213 with a grade of C or better, psychology major or Cl. Available both to majors and non-majors. Surveys the course of and processes underlying normal language development. Presents data and theory on phonological, semantic, syntactic, and pragmatic development.

EXP 4204C SENSORY PROCESSES (3)
PR: PSY 3213 with a grade of C or better, psychology major or Cl. Topics include sensory and physiological bases of perception and how people process relevant information in their environments.

EXP 4304 MOTIVATION (3)
PR: PSY 3213 with a grade of C or better, psychology major or Cl. A survey of motivational processes and mechanisms from physiological and psychological viewpoints.

EXP 4404 PSYCHOLOGY OF LEARNING (3)
PR: PSY 3213 with a grade of C or better, psychology major or Cl. Survey of methods, empirical findings, and theoretical interpretations in conditioning and instrumental learning.

EXP 4523C COGNITIVE PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better, psychology major or Cl. Survey of methods, empirical findings, and theoretical interpretations of human learning, information processing, verbal learning, and judgment and decision-making.

EXP 4540 PSYCHOLOGY OF LANGUAGE (3)
Historical survey of relations between psychology and linguistics leading to the emergence of psycholinguistics as a field of study. Current status of theory and research in the field.

GERONTOLOGY PSYCHOLOGY OF AGING (3)
A comprehensive overview of psychological aspects of aging. Topics will include age-related changes in sensation/perception, cognition, and personality, as well as application to late-life psychopathology. (Also offered under Gerontology.)

INP 3101 APPLIED PSYCHOLOGY -SS (3)
The application of psychological principles and the functions of psychologist in education, government, industry, and clinical practice.

INP 4004 INDUSTRIAL PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better, psychology major or Cl. Applications of psychological principles to industry. Topics include: selection, training, motivation, job satisfaction, supervision, decision-making.

PPE 4004 PERSONALITY (3)
PR: PSY 3213 with a grade of C or better, psychology major or Cl. Methods and findings of personality theories and an evaluation of constitutional, biosocial, and psychological determinants of personality.

PSB 4013C PHYSIOLOGICAL PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better, psychology major or Cl. Gross neural and physiological components of behavior. Structure and function of the central nervous system.
system and theory of brain functions.

PSY 3022 AN INTRODUCTION TO CONTEMPORARY PSYCHOLOGY -SS (3)
A broad survey of psychology for both majors and non-majors with special emphasis on the more applied areas of psychology (e.g., social psychology, abnormal psychology, personality, and developmental psychology.)

PSY 3344 CONTEMPORARY PROBLEMS IN PSYCHOLOGY -SS (3)
The content of this course varies depending on the needs and interest of students and faculty. Offerings include in-depth coverage of specialized aspects of psychology applied to contemporary problems not studied in general introductory courses.

PSY 3044 EXPERIMENTAL PSYCHOLOGY -SS (3)
PR: PSY 3012, psychology major or CI. Designed as an in-depth examination of the basic principles and concepts of psychological science. Extensive coverage will be given to the areas of learning, perception, physiological psychology, and cognition.

PSY 3213 RESEARCH METHODS IN PSYCHOLOGY (4)
PR: PSY 3044, psychology major, or CI. This course considers the logic of experimental design, concept of control and the analysis of experimentally obtained data. The laboratory section provides experience applying the concepts discussed in lecture. Two lectures plus two-hour lab. May be taken concurrently with PSY 3044.

PSY 4205 EXPERIMENTAL DESIGN AND ANALYSIS (3)
PR: PSY 3213 with grade of C or better, psychology major, or CI. Detailed coverage of those research designs and statistical techniques having the greatest utility for research problems in psychology. Emphasis on topics from analysis of variance.

PSY 4604 HISTORY AND SYSTEMS OF PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. The historical roots of modern psychological theories, investigation of the various schools of psychology such as behaviorism, Gestalt psychology, psychoanalysis, and phenomenological psychology.

PSY 4913 DIRECTED STUDY (1-3)
PR: Upper-level standing, psychology major and CI. The student plans and conducts an individual research project or program of directed readings under the supervision of a faculty member. (SU Only)

PAD 4714C ENVIRONMENTAL PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. Explores the influences of environment on behavior. Topics considered include crowding, privacy, territorial behavior, environmental design, and pollution effects. Designed for both psychology majors and non-majors.

Public Administration

PAD 3003 INTRODUCTION TO PUBLIC ADMINISTRATION -SS (3)
Examination of organizational behavior and change, policy process, public management, financial administration, and personnel management from the perspective of public and social delivery.

PAD 4204 PUBLIC FINANCIAL ADMINISTRATION (3)
Analysis of problems in the growth and development of public budgetary theory and Federal budgetary innovations.

PAD 5035 ISSUES IN PUBLIC ADMINISTRATION AND PUBLIC POLICY (3)
Selected issues and topics in Public Administration and Public Policy. May be repeated for credit as topics vary.

PAD 5333 CONCEPTS AND ISSUES IN PUBLIC PLANNING (3)
PR: URP 4050 or URP 6056. Analysis of basic concepts, issues, and strategies of planning, policy determination, collection of information, and decision-making.

PAD 5512 ADMINISTRATIVE LAW (3)
An examination of the constitutional and statutory bases and limitations of the administrative process, administrative adjudication, rule making, and the judicial review of such actions.

PAD 5513 ADMINISTRATIVE REGULATION (3)
Analysis of the regulatory functions and processes in the American political system: regulatory commissions, their functions, powers, management, reforms, and relationship with other branches of government.

PAD 5700 RESEARCH METHODS IN PUBLIC ADMINISTRATION (3)
This course provides the student with the fundamental skills and knowledge of how research is designed, implemented, analyzed, and utilized in public sector agencies. Available to majors and non-majors.

PAD 5807 ADMINISTRATION OF URBAN AFFAIRS (3)
Analysis of the role of the administrator at the municipal level; the division of functions; policy formation; alternative governmental structures; effects on the administrative process.

PAD 5836 COMPARATIVE PUBLIC ADMINISTRATION (3)
How organizations and managers perform within a particular environment, potential impact of innovation, and how service is accomplished in a variety of socio-economic environments.

Rehabilitation Counseling

RCS 3303 REHABILITATION COUNSELING: CONCEPTS AND APPLICATIONS (3)
This introductory course (1) surveys the theories, concepts, and attitudes involved in helping disabled or unable persons become increasingly able. (2) provides initial experiences with these counseling perspectives and methods and their personal application.

RCS 5080 MEDICAL ASPECTS OF DISABILITY (4)
PR or CR: RCS 5700. A survey of medical conditions and disabilities encountered by rehabilitation and mental health counselors. Examines the relationship of client handicaps, physical and mental, to rehabilitation and mental health programming.

RCS 5404 INTERPERSONAL COUNSELING I: PERSONALITY THEORY (4)
A skill-building course on the utilization of one's self in rehabilitation and mental health counseling relationships. Includes the study of personality theories and their contribution to successful counseling and rehabilitation practice.
REL 5406 HUMAN DEVELOPMENT THEORY IN COUNSELING
Human development theory as applied in psychotherapy and case management rehabilitation, mental health, and addiction settings.

REL 5450 REHABILITATION COUNSELING ISSUES IN ALCOHOLISM AND OTHER ADDICTIONS

REL 5460 FOUNDATIONS AND ETHICS
An overview of rehabilitation history and introduction to rehabilitation processes and ethical issues in the public and private sectors. Ethical, legal, and professional standards in rehabilitation and mental health counseling are emphasized.

RCS 5802 PRACTICUM I
PR: Majors only. Supervised experience and practice in counseling in various rehabilitation and mental health settings for a minimum of 120 hours. Must be taken concurrently with RCS 5406. (S/U only.)

RCS 5905 DIRECTED STUDIES
Supervised rehabilitation studies under the direction of a faculty member.

Religious Studies
CLA 3000 ANCIENT CIVILIZATIONS
Study of the character, ideas, and cultural achievements of the peoples of the Ancient Middle East and Mediterranean and their relevance for modern Western civilization.

CLA 3801 HISTORY OF THE ALPHABET
Study, in reasonable detail, of the evolution of our "Roman" alphabet, as well as of other ancient and modern alphabets, from the writing system of ancient Egypt.

CLA 4171 MESOPOTAMIAN CIVILIZATION
Study of the Ancient Mesopotamian (Sumero-Babylonian) civilization, including customs, religion, art and architecture, languages and literatures, science and the calendar, and an introduction to cuneiform writing.

CLA 4930 SELECTED TOPICS
Course contents depend on student demand and instructor's interest and may range over the whole field of Ancient languages, literatures, and civilizations. Offerings on a semi-regular basis include Tongues of the Bible (2), and The Bible as History (3). Note: In any of the numbers CLA 4900, CLA 4930, enrollment is repeatable for different subject matters.

GRE 2040 NEW TESTAMENT GREEK I

GRE 2041 NEW TESTAMENT GREEK II

HEB 1120, 1121 BASIC HEBREW I, II
Designed to give students a working knowledge of Classical (Biblical) Hebrew and to introduce them to the Biblical literature in the original language.

REL 2210 HEBREW BIBLE/OLD TESTAMENT
An introduction to the critical study of the Hebrew Scripture against the background of the ancient Near East, with attention to the history and religion of the Hebrew people.

REL 2240 INTRODUCTION TO THE NEW TESTAMENT
An introduction to the critical study of the New Testament in context of Christian beginnings in the first century A.D.

REL 2300 INTRODUCTION TO WORLD RELIGIONS -HP
A cross-cultural overview of the major religions of the world through lectures, films, and the reading of key religious texts. Religions covered include Judaism, Christianity, Islam, Taoism, Confucianism, Hinduism, and Buddhism.

REL 2306 CONTEMPORARY WORLD RELIGIONS -HP
This course explores the unity and diversity of religious traditions in a global context in order to understand the mutual interactions between religions and cultures. Emphasis is placed on the role of religions in shaping human values which can either create or resolve social conflicts, and the impact these values can have on issues of race, ethnicity and religious diversity in a multicultural world.

REL 2500 HISTORY OF CHRISTIANITY -HP
The historical development of Christianity, its ideas and institutions, from the first century to the rise of religious modernism in the 19th century.

REL 3003 INTRODUCTION TO RELIGION
This course examines the phenomenon of religion to answer the question: Religion, what is it? Religious thought (mythology and theology) and religious behavior (ritual and morality) are closely examined.

REL 3114 COMEDY, TRAGEDY, AND RELIGION -XMW
Examines the visions of life in comedy and tragedy, and relates both to Judaism, Christianity, and Zen Buddhism.

REL 3120 RELIGION IN AMERICA
To examine the movement from state church to pluralism in American religious institutions, the religious results of non-Protestant immigration; the Jewish factor; the effect of home missions and social concern programs upon American life; political entanglements and the concept of church/state separation.

REL 3131 NEW RELIGIONS IN AMERICA
A course designed to allow the student to survey the wide spectrum of contemporary sects and cults and learn what motivates their development.

REL 3132 WITCHCRAFT AND PAGANISM IN AMERICA
A study of contemporary witchcraft and paganism, including theories, methods, history, myths and symbols, beliefs, rituals and practices, believers, recruitment, socialization, and organizations.

REL 3145 WOMEN AND RELIGION -6A
Analysis of the status and roles of women as compared to men in the Judeo-Christian tradition. Contemporary issues of feminist theology, and the controversies surrounding them. (May also be taken for credit in Women's Studies.)

REL 3146 THE RELIGIOUS QUEST IN CONTEMPORARY FILMS -6A -SS -HP
This course will use contemporary films such as Gandhi, Malcolm X, The Long Walk Home, The Color Purple, The Leap of Faith, The Chosen, and Grand Canyon, to explore the personal and social dimensions of religion in modern secular societies, with an emphasis on issues of racism, sexism and human liberation and reconciliation.

REL 3150 RELIGION AND THE MEANING OF LIFE -6A -XMW
What is the meaning of life? An exploration of answers to this question in Eastern and Western religions, and in humanistic philosophy and contemporary life.

REL 3155 LIFE AFTER DEATH
An exploration of ideas about life after death and its relations to this life, in Judaism, Christianity, Islam, Hinduism, and Buddhism.

REL 3170 RELIGION, ETHICS AND SOCIETY THROUGH FILM -6A -HP -SS
An ethical analysis of contemporary social issues through contemporary films, drawing on religious narrative traditions from Eastern and Western cultures which have contributed to the development of an ethic of human dignity, human rights and human liberation after Auschwitz and Hiroshima.

REL 3280 BIBLICAL ARCHAEOLOGY -XMW
An in depth examination of the archaeological data relating to the background and content of the Bible, including ancient customs, Biblical sites and cities, Biblical history, and material culture of the Biblical period. Special attention will also be given to excavation methods and interpretation of archaeological evidence.

REL 3310 WORLD RELIGIONS
An introduction to and a comparison of the ideas, the literature and institutions of the major religions of the world including Judaism, Christianity, Islam from the Near East and Hinduism, Taoism, Confucianism, and Buddhism from
the Far East. General comparison of Western and Eastern beliefs.

REL 3330 THE RELIGIONS OF INDIA -AF -SS (3)
All religions of the world came to India and all became Indian. What is this "Indianness" which stems from Hinduism, Buddhism, Jainism and Sikhism, but extended itself to include Judaism, Christianity, Islam, Zoroastrianism and Bahai. Readings from classical texts and modern literature.

REL 3367 ISLAM IN THE MODERN WORLD (3)
Examines the major developments in Islamic thought since the 13th century, with emphasis on the 19th and 20th century Islamic resurgence. Issues of diversity, gender, and social values will be stressed.

REL 3420 CONTEMPORARY RELIGIOUS THOUGHT (3)
An examination of the central ideas of recent theological thinkers; such men as Barth, Brunner, Bultmann, Bonhoeffer, Rahner, Tillich, Cox, Altizer, Buber, Niebuhr.

REL 3550 ROMAN CATHOLICISM -6A -XMW (3)
An examination of the history, doctrine, and ethics of the Roman Catholic Church.

REL 3600 INTRODUCTION TO JUDAISM -6A -AF (3)
An introduction to Judaism: its religious tenets; its codes of ethics; its rites and customs. This course is intended as a description of what it means to be a Jew.

REL 3602 CLASSICS OF JUDAISM -6A -AF (3)
PR: One course in Religious Studies. How to read the principal documents of Judaism beyond the Old Testament, particularly the Mishnah, Talmuds, and Midrash.

REL 3611 HISTORY OF JUDAISM (3)
A study of the evolution of the religion of ancient Israel from the Exodus to the end of the second century of our era, seen against the background of its historical, geographical, political, social and spiritual setting.

REL 3613 MODERN JUDAISM (3)
A study of Jewish life in the West since 1789, emphasizing Jewish beliefs, practices, and institutions.

REL 3700 INTRODUCTION TO ISLAM -6A -HP -AF (3)
This course introduces the basic elements of Islamic belief and practice, placing the rise of Islam in its historical context in the Middle East, and stressing issues of diversity (including ethnicity and gender).

REL 3900 DIRECTED READINGS (1-4)
PR: CI. Individual guidance in concentrated reading on a selected topic.

REL 3921 COLLOQUIUM (1-4)
This colloquium will be held in order to bring all religious studies faculty and undergraduate majors together to discuss research of a particular faculty member, student, or guest scholar. May be repeated up to 3 semester hours. Only by permission.

REL 3936 SELECTED TOPICS (1-4)
PR: CI. Course contents depend on students' needs.

REL 4113 THE HERO AND RELIGION -XMW (3)
A study of the way in which embedded religious models help to fashion the representation of an heroic protagonist. The focus of the course will be on the relationship between the hero and the "other," as differentiated by race, gender, ethnicity, or merely inner being.

REL 4133 MORMONISM IN AMERICA (3)
A study of Mormonism in America as an example of a new religion. Includes the study of history, myths and symbols, texts, beliefs, rituals and practices, believers, recruitment, socialization, and organizations.

REL 4161 RELIGION, TECHNOLOGY AND SOCIETY (3)
An exploration of the way in which religion and technology have interacted in Western civilization so as to both express and transform human values and identity. Special emphasis will be given to the value questions raised by modern technology.

REL 4171 CONTEMPORARY CHRISTIAN ETHICS -6A (4)
PR: Jr. standing or CI. This course will survey several major approaches to contemporary Christian ethics and their application to a number of ethical issues peculiar to personal and social life in contemporary society.

REL 4193 COMPARATIVE MYSTICISM (4)
A course designed to acquaint the student with the nature of mystical experience, and some of the varieties of mystical experience recorded in the writings of the mystics.

REL 4221 WHO WROTE THE BIBLE (GENESIS-KINGS) -XMW -XLW (4)
A critical examination of Genesis through 2 Kings. This course focuses on the history of the formation of the text and the development of the religious traditions represented therein. Special attention will be paid to Israelite Law, Covenant Theology, and the history of the religion(s) of Israel in their Ancient Near Eastern context.

REL 4224 HEBREW PROPHETS AND WRITINGS (4)
PR: REL 3210 or REL 4221 or CI. An investigation of the prophetic movement and the historical and cultic writings in Israel from the point of view of theological developments, history presupposed, and the religious institutions depicted. Special attention is given to a theme such as Job and the problem of evil.

REL 4244 NEW TESTAMENT I: GOSPELS, ACTS (4)
An exploration of the Gospels and Acts, including their backgrounds in Judaism and pagan religion, literary and form criticism, historical Jesus research, and the social history of earliest Christianity.

REL 4250 JESUS' LIFE AND TEACHINGS (4)
PR: CI. An examination of the various historical studies made in the quest of identifying Jesus as an historical figure. The concern is to make a reasonable assessment of who Jesus was and what he was saying to the Jews in Palestine at the beginning of the common era.

REL 4252 NEW TESTAMENT II: THE LETTERS OF PAUL AND OTHER NEW TESTAMENT WRITINGS (4)
PR: REL 4244 or REL 3240 or CI. An investigation of the phenomenon of earliest Christianity in its Pauline and non-Pauline forms, particularly as reflected in Paul's letters and in other writings of the New Testament. Special attention is given to the program of Apocalyptic, as in the book of Revelation.

REL 4333 HINDUISM (4)
The philosophy of the saints; the complex rituals of the Brahmins; the art of its temples; the psychology and physiology of yoga; the social rigidity of the caste system; the esoteric science of meditation; the ascetic activism of Mahatma Gandhi—all of these are Hinduism, and more. Close readings of classical texts, philosophic systems and medieval poems.

REL 4343 BUDDHISM IN INDIA, SRI LANKA, AND SOUTH EAST ASIA (4)
The life and teachings of the Buddha; the order of monks and nuns; the Buddhist Emperor Ashoka; schisms; the rise of the Great Vehicle and the philosophy of emptiness; Buddhist missions; Buddhist art and culture; Buddhism and national liberation; contemporary social and political issues.

REL 4344 BUDDHISM IN CHINA, JAPAN, AND TIBET (4)
Mahayana Buddhism followed the silk routes to China and Japan, and later crossed the Himalayas into Tibet. An overview of the variety of schools and practices of Buddhism and its adaptation by these ancient cultures.

REL 4508 FROM MYTH TO CHRISTIANITY (4)
Study of the religions/mythologies of the ancient Middle East and Eastern Mediterranean and how their influences shaped the theology and practices of Christianity up to the end of the fourth century; influences many of which continue to be evident in the traditional Roman and Eastern Orthodox churches.

REL 4626 REASON IN RELIGION: TALMUDIC LOGIC -XMW (3)
Analyzes the modes of thought and of logical analysis of the Talmud of Babylonia; the way in which applied logic and practical reason work in a religious definition of the social order; the dialectical argument.

REL 4670 JUDAISM AND CHRISTIANITY AFTER THE HOLOCAUST -6A -XMW -XLW (4)
This course will explore the impact of the Holocaust on
Jewish and Christian thought and identity in the light of the history of religious and cultural anti-semitism in Western civilization.

REL 4910 UNDERGRADUATE RESEARCH (1-4)
PR: Junior standing and CI. Individual investigations with faculty supervision.

REL 4931 SEMINAR IN RELIGION (3)
A course designed for students, especially Religious Studies majors, whose prior religious studies have prepared them for a cooperative creative and/or research effort in the area of religion.

REL 4936 SELECTED TOPICS (1-4)
PR: Junior standing and CI. Individual investigations with faculty supervision.

REL 4939 THE DEVELOPMENT OF RELIGIOUS STUDIES (3)
Course designed for senior majors (and minors) in religious studies to complement REL 4931 (Senior Seminar). Discussion of key figures and methodological advances in the development of the field from the 18th century to present, with readings of classics in the development.

WST 5318 FEMINIST SPIRITUALITY (3)
This course focuses on the many voices of contemporary feminist spirituality, emerging from women's experiences in diverse religions, ethnic and cultural traditions, and representing a range of theoretical perspectives from biblical feminism to goddess worship and wicca. May not be repeated. (May be taken through Women's Studies.)

Social Work

SOW 3101 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I (4)
PR: All pre-core courses. Restricted to Social Work majors, others by School permission. An integrating human behavior-social environment course emphasizing dynamics of behavior and environmental factors as they relate to social work practice with individuals.

SOW 3102 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II (4)
PR: SOW 3101. Restricted to Social Work majors; others by School permission. An integrating course emphasizing dynamics of behavior and environmental factors as they relate to social work practice with families, group organizations and communities.

SOW 3203 THE AMERICAN SOCIAL WELFARE SYSTEM-S(S) (3)
A general education introductory course which provides students with a framework for understanding the historical development of American social welfare, its value base, and its response to minorities, women, children, the elderly, and the disabled.

SOW 3302 INTRODUCTION TO SOCIAL WORK (3)
An introductory course tracing the development of social work as a profession including an examination of the knowledge, skill and attitudinal base of the profession and professional roles and functions.

SOW 3401 RESEARCH AND STATISTICS FOR SOCIAL WORK (4)
PR: All pre-core courses. Restricted to Social Work majors, others by School permission. The purpose of this course is two-fold: to familiarize the student with research as it is practiced in the profession of Social Work, and to equip the student with those theoretical understandings necessary to be a critical consumer of social work research.

SOW 4233 SOCIAL WELFARE: POLICY & PROGRAM (4)
PR: All pre-core courses. Restricted to Social Work majors, others by School permission. An advanced policy course taking an analytical approach to contemporary social welfare policy issues and current social welfare programs.

SOW 4341 MULTI-METHODS OF SOCIAL WORK PRACTICE I: MICRO-SYSTEM INTERVENTION (5)
PR or CR: SOW 3101; SOW 3401. Restricted to Social Work majors; others by School permission. First practice course emphasizing development of skills and interventional methods with individuals, families and small groups. Course includes both didactic and experiential learning components.

SOW 4343 MULTI-METHODS OF SOCIAL WORK PRACTICE II: MACRO-SYSTEM INTERVENTION (5)
PR: All pre-core courses, SOW 4341; SOW 4233, and SOW 3102 may be taken as PR or CR. Restricted to Social Work majors, others by School permission. Second practice course emphasizing intervention at the community and organizational level. Builds upon theoretical and practical content of SOW 4341. Course includes both didactic and experiential learning components.

SOW 4510 INTEGRATIVE SEMINAR (3)
PR: Completion of all social work core courses except SOW 4522. CR: SOW 4510L. Restricted to social work majors in Senior year. An integrated practice seminar which constitutes the third and final course in the practice sequence.

SOW 4510L FIELD PLACEMENT (6)
PR: Completion of all social work core courses except SOW 4522. CR: SOW 4510. Restricted to social work majors in Senior year. Supervised field placement in a social welfare organization consisting of 32 hours per week in the field. (SUJ only.)

SOW 4522 SENIOR SEMINAR: MULTICULTURAL AMERICA (3)
PR: SOW 3203, SOW 3302, SOW 3101, SOW 4341. The course focuses on the students' understanding of multicultural and intergenerational issues.

SOW 4900 DIRECTED READINGS (1-9)
PR: Completion of four social work courses including SOW 3401, upperlevel standing, and School permission. Content dependent upon student interest and ability. A contract will be jointly developed by student and instructor specifying nature of work to be completed. May be repeated up to 6 credit hours.

SOW 4910 DIRECTED RESEARCH (1-6)
PR: Completion of four social work courses including SOW 3401, upperlevel standing and school permission. Directed Research is intended to provide students with research experience in areas of specific interest in social work. A contract will be developed between student and instructor specifying the nature of work to be completed. Majors only.

SOW 4930 VARIABLE TOPICS IN SOCIAL WORK (1-3)
Restricted to Social Work majors; others by School permission. Variable title courses to expand on the four sequence areas in the Social Work core curriculum. Allows focus on areas relevant to student's educational interest.

SOW 5930C SELECTED TOPICS IN SOCIAL WORK (1-4)
Restricted to Social Work majors, both graduate and undergraduate; others by School permission. Course is taken as an elective. Variable title courses will selectively expand specific social work content areas. May be repeated in varying topic areas.

Sociology

SYA 3010 CLASSICAL THEORY (3)
PR: SYG 2000 or CI. The analysis of the philosophical foundations, central principles, and historical development of sociological theory. Required for Sociology majors and minors.

SYA 3015 CONTEMPORARY THEORY (3)
PR: SYA 3010 and SYG 2000 or CI. An examination of recent trends in sociological theory. Emphasis is on theories examining symbolic interactions, lived experience, popular culture, and social structures.

SYA 3300 RESEARCH METHODS (3)
PR: SYG2000 and STA 2122 or its equivalent. Introduction to the scientific method and its application to social science research. Research design, sampling techniques, and critical evaluation of social research. Required for Sociology majors.

SYA 3310 QUALITATIVE INQUIRY -6A –XLW (3)
PR: SYG2000 or CI. Exploration of human relationships and behaviors, organizations, and the larger culture through research techniques such as interviews, participant observation, life histories, and narratives. Permit required.
SYA 3503 VISUAL SOCIOLOGY (3)
PR: SYG2000 or Cl. An investigation of the relationship between visual representation (especially photography) and our understanding of the social world.

SYA 4430 COMPUTERS IN THE SOCIAL SCIENCES (3)
Introduction to the uses of computers in sociological research. Major emphasis is upon the use of statistical packages (principally SPSS) in data analysis.

SYA 4910 INDIVIDUAL RESEARCH (1-3)
Four courses in sociology, including SYA3300, upper level standing, at least a 3.0 overall GPA, or CI. Content depends on the interest of the student. A contract between the student and the sponsoring faculty member must be signed before class registration. May be repeated for credit. Up to 3 credits may count toward the minimum requirements for sociology credits for majors or minors. Permit required.

SYA 4930 TOPICS IN SOCIOLOGY (3)
PR: SYG2000 or Cl. Selected specialized topics in sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific content and instructor. This course, in different content areas, may be repeated for credit.

SYA 4935 SENIOR SEMINAR -XMW (3)
PR: Senior standing, SYG2000, SYA3010, SYA3300 plus 6 hours of sociology electives. The opportunity for senior Sociology majors to apply theory and methods to a selected topic of relevance in today's society. Topic changes by instructor. Majors only. Permit required.

SYA 4949 SOCIOLOGICAL INTERNSHIP (1-6)
PR: Senior or graduate standing in Sociology plus Cl. Supervised placement in community organization or agency for a minimum of 10 hours of volunteer work per week, and a weekly seminar on applying sociological skills and methods in the placement setting. May be repeated for up to 6 credit hours. (S/U only)

SYD 3441 PEASANT PERSPECTIVES -AF (3)
PR: SYG2000 or 6 hours of other Social Science Gen. Ed. coursework or CI. Examines the applicability of sociological concepts to peasant life around the world, and explores the roles played by "western" societies in creating and sustaining the conditions under which peasants live.

SYD 3700 RACIAL AND ETHNIC RELATIONS (3)
PR: SYG2000 or Cl. Comparative study of interracial relations, social tensions, attitudes, and modes of adjustment in various areas of the world.

SYD 4410 GLOBAL POPULATION (3)
PR: SYG2000 or Cl. Upper level standing. Sociological determinants of fertility, mortality, and migration; theories of population change.

SYD 4410 URBAN SOCIOLOGY (3)
PR: SYG2000 or Cl. Upper-level standing. The social structure of the community in modern industrial societies. Analysis of community change.

SYD 4800 GENDER AND SOCIETY (3)
PR: SYG2000; WST2010 or 2011; or Cl. Historical and contemporary exploration of current issues relevant to sex roles in America. Emphasis on sex role differences, interplay of masculine and feminine and institutional participation. (Also offered under Women's Studies).

SYG 2000 INTRODUCTION TO SOCIOLOGY -SS (3)
An introduction to sociological perspectives and methods and the basic areas of sociological interests such as socialization, gender, race and ethnic relations, deviance, social control, social stratification. Required for Sociology majors and minors.

SYG 2010 CONTEMPORARY SOCIAL PROBLEMS -SS (3)
The analysis of social causes and dimensions of major public issues such as crime, the environment, inequality, gender, employment, and substance abuse.

SYG 2413 MARRIAGE (3)
Study of pre-marital relations. Social, cultural, and personal factors related to success and failure in mate selection and marriage. Does not count for Sociology major credit.

SYG 3120 SOCIOLOGY OF FAMILIES (3)
PR: SYG2000 or Cl. Examination of the family as a social institution, principles of family organization. Variations in American family life by social class, race, ethnicity. Social changes and problems in American families.

SYO 3200 SOCIOLOGY OF RELIGION (3)
PR: SYG2000 or CI. An examination of the meanings of religion in lived experiences in the contemporary United States. Includes the construction and maintenance of religious meanings in communities, the impact of those meanings and communities on daily lives, use and impact of religious discourse in daily lives, social movements motivated by religious beliefs.

SYO 3500 SOCIAL ORGANIZATION (3)
PR: SYG2000 or Cl. Social organization in the broadest sense, including institutions and associations, as well as variations in role and status.

SYO 3530 SOCIAL STRATIFICATION (3)
PR: SYG2000 or Cl. Social status and social stratification, social class as a factor in behavior, social mobility.

SYO 4610 POLITICAL SOCIOLOGY (3)
PR: SYG2000 or Cl. An examination of the social factors that affect government, politics, and political behavior.

SYO 4370 OCCUPATIONS AND PROFESSIONS (3)
PR: SYG2000 or Cl. A comparative analysis of professions, particularly medicine, law, teaching, allied health professions, engineering. Focus on the process of professionalizing service occupations like police work, business management, public administration and social work.

SYO 4400 HEALTH AND SOCIETY (3)
PR: SYG 2000 or Cl. The study of disease and the sick person including the analysis of health practices, beliefs, and practitioners such as hospitals as an organization, the cost, financing, and politics of health care.

SYO 4410 DISABILITY & SOCIETY (3)
PR: SYG2000 or Cl. Examination of the applicability of sociological concepts to the experience of disability, and of disability as a means to a better understanding of the nature of social experience.

SYP 3000 SOCIAL PSYCHOLOGY-SS (3)
PR: PSY2012 or SYG2000 or Cl. An exploration of the social forces that help shape individual perceptions, behaviors, and personality. The study of ways individuals develop identity and self-worth.

SYP 4300 COLLECTIVE BEHAVIOR (3)
PR: SYG2000 or Cl. Study of the development of group and mass behavior crowds, social movements.

SYP 4420 CONSUMER CULTURE (3)
PR: SYG2000 or Cl. The exploration of how Americans' purchasing behavior connects to larger historical shifts in our economy, including disenchancement, alienation, inequality, and the rise of the credit card society.

SYP 4510 SOCIOLOGICAL ASPECTS OF DEVIANCE (3)
The examination of the social construction of deviance: How deviance is defined, implications of deviance designations. Applications of theories of deviance to questions such as motivations of delinquents and implications of criminal justice processing of deviants.

SYP 4530 SOCIOLOGY OF JUVENILE DELINQUENCY (3)
PR: SYG2000 or Cl. Sociological issues in defining delinquency; the nature of adolescence and delinquency; sociological theories of the causes of delinquency; types and consequences of social control applied to delinquents.

SYP 4640 LEISURE IN SOCIETY (3)
PR: SYG2000 or Cl. Sociological examination of leisure in the United States and other countries. Topics include changing leisure time patterns, relationships between leisure and work, personality, family, community, subcultures, religion, and social class.

SYG 4650 SPORT IN THE SOCIAL WORLD (3)
PR: SYG2000 or Cl. An examination of the broad issues concerning sport in both a historical and contemporary perspective. Sport will be viewed in relation to social
institutions, economic considerations, mass media, and the sport group as a micro-social system.

Women's Studies

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. (May also be taken for credit in Africana Studies.)

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, religion and reform movements will be examined. (May also be taken for credit in History.)

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, wars, religion and reform movements will be examined. (May also be taken for credit in History.)

AMS 3370 SOUTHERN WOMEN: MYTH AND REALITY -6A (3)
An analysis of the myths surrounding Southern Women, this course will identify these myths, discern their sources and purposes, and contrast them with history. (May also be taken for credit in American Studies.)

ANT 4302 SEX ROLES IN CROSSCULTURAL PERSPECTIVE(3)
PR: ANT 3410 or CI. Focuses on various theories, models and beliefs about male-female behaviors and interactions in human cultures throughout history and in various societies in the world today. (May also be taken for credit in Anthropology.)

COM 4030 WOMEN AND COMMUNICATION (3)
Examines women's patterns of communication in a variety of contexts. (May also be taken for credit in Communications.)

PHI 4632 FEMINIST ETHICS -XMW (3)
A study of the varied approaches to moral reasoning taken by feminist ethical writers such as Wollstonecraft, Mill, Gilligan, Daly, Hoagland and others. (May also be taken for credit in Philosophy.)

PHM 5125 TOPICS IN FEMINIST PHILOSOPHY (3)
A study of recent feminist philosophical approaches to epistemology, aesthetics or political philosophy. (May also be taken for credit in Philosophy.)

POS 4693 WOMEN AND LAW I (3)
Introduction to issues concerning the legal aspects of sex and sex-based discrimination as embodied in statutory and case law, focusing on constitutional and family law and reproductive freedom issues. Open to majors and non-majors. (May also be taken for credit in Government and International Affairs.)

POS 4694 WOMEN AND LAW II (3)
PR: POS 4693 or CI. Legal position of women in American society and remedies available to challenge current laws and practices, with specific emphasis on employment and education issues as they relate to both women and men. (May also be taken for credit in Philosophy.)

PUP 4323 WOMEN AND POLITICS -6A -XMW (3)
An analysis of the impact of gender on power and influence in American society, and women's changing role in the political process. Open to majors and non-majors. (May also be taken for credit in Government and International Affairs.)

REL 3145 WOMEN AND RELIGION -6A (3)
Status and roles of women as compared to men in the Judeo-Christian tradition. Contemporary issues of feminist theology, and the controversies surrounding them. (May also be taken for credit in American Studies.)

SOP 3742 PSYCHOLOGY OF WOMEN -SS (3)
Theories of female personality. Current research on socialization, sexuality, reproduction. Emerging lifestyles and developmental tasks of the life cycle. (May also be taken for credit in Psychology.)

SPT 2524 WOMEN WRITERS OF LATIN AMERICA (3)
Literature of Latin-American women (in translation). Topics ranged to race, class, society, values and ethics, social, economic, and political issues. Readings will include oral histories, interviews, diaries and memoirs, poetry, short stories, and novels. (May also be taken for credit in Modern Languages and Linguistics.)

SYD 4800 GENDER AND SOCIETY (3)
Feminist approach to the study of women. (May also be taken for credit in Sociology.)

WST 2308 THE FEMALE EXPERIENCE IN AMERICA -HP (3)
The female experience in America, with an emphasis on women in families of various classes, races, and ethnic groups from colonial times to 1870.

WST 2380 HUMAN SEXUAL BEHAVIOR -SS (3)
The dynamics of human sexuality: biological, constitutional, cultural, and psychological aspects. The range of sexual behavior across groups. Sources of beliefs and attitudes about sex, including sex roles and especially female sexuality.

WST 3010 INTRODUCTION TO WOMEN'S STUDIES -SS -NMW (3)
Survey of major issues relevant to the female experience. The women's movement: historical, psychological, sociological, anthropological perspectives.

WST 3011 ISSUES IN FEMINISM -SS (3)
Survey of major issues relevant to the female experience: marriage and the family, sexuality, work, creativity.

WST 3210 WOMEN IN WESTERN CIVILIZATION I -6A -HP (3)
Survey of women in the ancient Near East, ancient Greece, ancient Rome, early Middle Ages. Origins of Western society: toward sex roles, female sexuality, relation of power to gender. (May also be taken for credit in History.)

WST 3220 WOMEN IN WESTERN CIVILIZATION II -HP (3)
Survey of European women 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 History.)

WST 3275 WOMEN IN THE DEVELOPING WORLD (3)
Survey of status of women in Asia, Africa, Latin and Caribbean America, compared to that in USA, Canada, West Europe, Marxist-Leninist countries. (May also be taken for credit in Government and International Affairs.)

WST 3360 MEN AND SEXISM (3)
Theories in which sex role conditioning affects the lives of men. Factors in this conditioning, and alternatives to masculine sex role models.

WST 4260 RESEARCH ISSUES ON WOMEN OF COLOR -6A -XMW (3)
An interdisciplinary introduction to the research process as it has been carried out on women of color nationally and internationally.

WST 4262 LITERATURE BY AMERICAN WOMEN OF COLOR -6A -XLW (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 English.)

WST 4263 THIRD WORLD WOMEN WRITERS -XLW (3)
Introduces the literature of women from various anglophone countries in Africa, the Caribbean, and South Asia; some U.S. writers will be included to represent a third world diasporic consciousness. (May also be taken for credit in English.)

WST 4310 FEMINISM IN AMERICA -6A -XMW (3)
A study of feminist critiques of American women's experiences and status, and their implications for women's lives, by 19th- and 20th-century theorists, and how adequately these various critiques address the intersections of gender, class, ethnicity, and race.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WST 4320</td>
<td>WOMAN'S BODY/WOMAN'S MIND</td>
<td>(3)</td>
<td>An analysis of the historical, social and political perspectives of women's health and healing experiences, and how woman's role as patient and provider of care are shaped by public and cultural assumptions.</td>
</tr>
<tr>
<td>WST 4335</td>
<td>WOMEN AND FILM</td>
<td>(4)</td>
<td>A study of representation of women in Hollywood films and the responses of feminist film theorists and filmmakers working in documentary, experimental and narrative modes.</td>
</tr>
<tr>
<td>WST 4342</td>
<td>CLASSICS IN FEMINIST THEORY -XMW</td>
<td>(3)</td>
<td>A study of classic contributions to the elaboration of feminist thought from the 18th century to the present in an attempt to discover the roots of the contemporary feminist movement. (May also be taken for credit in Philosophy.)</td>
</tr>
<tr>
<td>WST 4350</td>
<td>WOMEN AND SCIENCE -XMW</td>
<td>(3)</td>
<td>An examination of selected issues related to women and the natural and physical sciences including: historical participation of women in science, current status of women in science, and feminist critiques of science as a discipline.</td>
</tr>
<tr>
<td>WST 4900</td>
<td>DIRECTED READINGS</td>
<td>(1-3)</td>
<td>PR: Registration requires instructor's written consent and signed contracts from instructor of choice. To provide advanced students with interdisciplinary research experience in areas of specific interest. May be repeated up to 6 credit hours.</td>
</tr>
<tr>
<td>WST 4900</td>
<td>DIRECTED RESEARCH</td>
<td>(1-3)</td>
<td>PR: Registration requires instructor's written consent and signed contracts from instructor of choice. To provide advanced students with interdisciplinary research experience in areas of specific interest. May be repeated up to 6 credit hours.</td>
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<tr>
<td>WST 4900</td>
<td>SELECTED TOPICS</td>
<td>(1-4)</td>
<td>PR: WST 3010 or Cl. Study in special areas such as Women and Work, Reproductive Law, Women and Health.</td>
</tr>
<tr>
<td>WST 4935</td>
<td>SEMINAR IN WOMEN'S STUDIES</td>
<td>(3)</td>
<td>PR: Women's Studies Major. Recognizing the interplay between personal connections and intellectual experience, this capstone course is designed to focus on topical areas related to women's studies and facilitate linking student learning experience to future plans.</td>
</tr>
<tr>
<td>WST 5001</td>
<td>FEMINIST RESEARCH AND METHODOLOGY</td>
<td>(3)</td>
<td>The main goals of this course are to develop a more comprehensive understanding of the situation of women in society and to develop a theoretical basis for integrating this knowledge into the student's graduate course of study.</td>
</tr>
<tr>
<td>WST 5286</td>
<td>WOMEN OF COLOR: ACTIVISM AND SOCIAL CHANGE</td>
<td>(3)</td>
<td>Intensive reading and discussion of the participation of women of color in contemporary revolutionary and reformist activities. Class project involvement is required.</td>
</tr>
<tr>
<td>WST 5318</td>
<td>FEMINIST SPIRITUALITY</td>
<td>(3)</td>
<td>This course will focus on the many voices of contemporary feminist spirituality, emerging from women's experiences in diverse religious, ethnic and cultural traditions, and representing a range of theoretical perspectives from biblical feminism to goddess worship and wicca. (May also be taken for credit in Religious Studies.)</td>
</tr>
</tbody>
</table>
| WST 5934    | SELECTED TOPICS                                  | (1-4)   | Study of current research methods and scholarship on women from a multidisciplinary perspective. May be repeated as topics vary. (Cl).
COLLEGE OF BUSINESS ADMINISTRATION

COLLEGE MISSION

The USF College of Business Administration will provide high quality programs preparing students to contribute to and take leading positions in business and society. Our teaching, scholarship, and service will link theory and practice to benefit the University and the community.

The College of Business Administration offers courses of study leading to both undergraduate and graduate degrees. 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 course courses (or equivalents):

- Financial Accounting
- Managerial Accounting
- Microeconomics
- Macroeconomics
- Statistics I
- Computers in Business
- Calculus for Business

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 business calculus, two semesters of accounting principles, two semesters of economic principles, one semester of statistics, and one semester of computers in business 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, administration, 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.

- Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

A student wishing to transfer to USF should complete the A.A. degree at a Florida community/junior college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If a student transfers without an A.A. degree and has fewer than 60 semester hours of acceptable credit, a student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. A transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

To be admitted to the College of Business Administration, an upper division major, a student must first be accepted to the university. Additionally, a student must have completed a minimum of 60 semester hours, earned a 2.0 all-college grade point ratio, and completed the prerequisite courses below with a 2.0 GPA, no grade lower than a "C" and a 2.0 GPA in all work attempted at USF, including any credit prior to salvage. A student working toward meeting the limited access criteria and who has completed 60 hours will be permitted to enroll in selected upper division courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>ACG X021</td>
<td>Financial Accounting</td>
</tr>
<tr>
<td>or ACG X001and ACG X011</td>
<td></td>
</tr>
<tr>
<td>ACG X071</td>
<td>Managerial Accounting</td>
</tr>
<tr>
<td>CGB X100</td>
<td>Computers for Business</td>
</tr>
<tr>
<td>ECO X103</td>
<td>Economic Principles (Macroeconomics)</td>
</tr>
<tr>
<td>ECO X023</td>
<td>Economic Principles (Microeconomics)</td>
</tr>
<tr>
<td>MAC X233</td>
<td>Calculus for Business</td>
</tr>
<tr>
<td>STA X023</td>
<td>Introductory Statistics</td>
</tr>
<tr>
<td>or QMB X100</td>
<td></td>
</tr>
</tbody>
</table>
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 12-18 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
   General Education Requirements  
   a. English Composition 6  
   b. Quantitative Methods (Calculus is required) 6  
   c. Natural Sciences 6  
   d. Social Sciences 6  
   e. Historical Perspectives 6  
   f. Fine Arts 3  
   g. African, Latin American, Middle Eastern, or Asian Perspectives 3  
   TOTAL 36  
   Exit Requirements  
   a. Major Works and Major Issues 6  
   b. 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  
   CGS 2100 Computers in Business 3  
   ECO 2013 Economic Principles: Macroeconomics 3  
   ECO 2023 Economic Principles: Microeconomics 3  
   QMB 2100 Business & Economic Statistics I 3  
   BUL 3320 Law and Business I 3  
   ECO 3100 Managerial Economics 3  
   FIN 3403 Principles of Finance 3  
   MIN 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 18-24  
   Minimum Business Courses 60-72  
   3. Electives in Business or Non-Business  
   Sufficient elective courses to reach a minimum of 120 hours  
   Minimum Total Hours 120

3. 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).

4. 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 considered for graduation. Students must have satisfactorily completed CLAST and the writing and composition course requirements of 6A-10.30 ("Gordon Rule"). For a Bachelor of Arts degree, students must demonstrate competency in a foreign language (refer to the Academic Policies and Procedures section of this catalog). American Sign Language is not approved by the College of Business for the Foreign Language Exit Requirement.

5. 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.

6. Accounting majors are not 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. When 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 for 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. 3

Finance:
   Any course offered by the Finance Department numbered 3000 or above (except FIN 3100 and FIN 3105) 3

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

The objectives of the baccalaureate degree program in accounting 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, of which 18 credit hours must be taken in residence at USF, and sufficient elective hours to reach a 120 hour total.

**Electives (9 hours)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 4123</td>
<td>Intermediate Financial Accounting III</td>
<td>(3)</td>
</tr>
<tr>
<td>ACG 4351</td>
<td>Cost Accounting and Control II</td>
<td>(3)</td>
</tr>
<tr>
<td>ACG 5201</td>
<td>Advanced Financial Accounting</td>
<td>(3)</td>
</tr>
<tr>
<td>ACG 4501</td>
<td>Governmental/Not-for-Profit Accounting</td>
<td>(3)</td>
</tr>
<tr>
<td>ACG 4642</td>
<td>Auditing II</td>
<td>(3)</td>
</tr>
<tr>
<td>ACG 4931</td>
<td>Selected Topics</td>
<td>(3)</td>
</tr>
<tr>
<td>ACG 4932</td>
<td>Honors Accounting Seminar</td>
<td>(3)</td>
</tr>
<tr>
<td>ACG 5671</td>
<td>Internal and Operational Auditing</td>
<td>(3)</td>
</tr>
</tbody>
</table>

**Required Accounting Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 3103</td>
<td>Intermediate Financial Accounting I</td>
<td>(3)</td>
</tr>
<tr>
<td>ACG 3113</td>
<td>Intermediate Financial Accounting II</td>
<td>(3)</td>
</tr>
<tr>
<td>ACG 3341</td>
<td>Cost Accounting and Control I</td>
<td>(3)</td>
</tr>
<tr>
<td>ACG 3401</td>
<td>Accounting Information Systems</td>
<td>(3)</td>
</tr>
<tr>
<td>ACG 4632</td>
<td>Auditing I</td>
<td>(3)</td>
</tr>
<tr>
<td>TAX 4001</td>
<td>Concepts of Federal Income Taxation</td>
<td>(3)</td>
</tr>
</tbody>
</table>

**Total**

(18)

**Required Economics Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 2013</td>
<td>Intermediate Income and Monetary Analysis</td>
<td>(3)</td>
</tr>
</tbody>
</table>

**Total**

(15)

The student's program must also include coursework taken in behavioral sciences and humanities, such as psychology, anthropology, and sociology, and the political environment of business and society, such as political science, public administration, and ethics. College of Business Administration advisors will recommend courses that will satisfy the program requirements.

Accounting majors can use the forgiveness policy only once in upper level accounting courses. Accounting courses taken by accounting majors on an S/U basis will not be counted toward the 120 hour graduation requirement. Independent Research, ACG 4911, will not be accepted as credit toward the minimum degree requirements in the accounting concentration.

Accounting majors must earn a "C" grade in each of the sequential upper-level accounting courses before being allowed to go on to the next course; i.e., ACG 3103, ACG 3113, ACG 3341, ACG 4632, TAX 4001.

**ECONOMICS (ECN)**

Economics offers a clear and logical approach to business decision-making. The department offers broad course choices allowing students to tailor their programs to provide training for careers in business as well as teaching, government, and law.

Students interested in majoring or minoring in economics should contact the Undergraduate Advisor in the Economics Department for more information.

**Required 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 3100 managerial Economics or ECO 3101 Intermediate Price Theory, in order to enroll in any course for which ECO 3100, 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. At least 12 hours must be taken in residence at USF. Grades of "C" or better in ECO 2013 and ECO 2023 are required for graduation with a major in Economics.

**Total**

(18)

**Requirements for a Minor in Economics**

Students throughout the University may earn a minor in Economics by satisfactorily completing 18 hours in Economics. The requirements are:

1. ECO 2013 Economic Principles: Macroeconomics
2. ECO 2023 Economic Principles: Microeconomics
3. Upper level economics electives

**Total**

(12)

**Total Economics Hours**

(18)

**Business majors may obtain a minor with only 6 additional hours in economics.**

**Before being recognized as a minor in economics, a student must obtain program approval by the Economics Department Undergraduate Advisor.**

**At least 9 hours must be taken in residence at USF.**
The Economics Pre-Law Curriculum

Economic principles provide the foundation for much of our legal system. Economics offers a series of courses to provide the abstract and applied skills required by those seeking legal careers.

Beyond ECO 2013 Economic Principles (Macroeconomics) and ECO 2023 Economic Principles (Microeconomics), students should elect ECP 4451 Law and Economics. ECP 3413 Economics of Regulation and Antitrust and ECO 4935 Economics of Crime are strongly recommended. Additional courses of interest are: ECO 4504 Public Finance, ECP 3530 Economics of Health, ECP 3302 Environmental Economics, ECP 3203 Labor Economics, ECP 3201 Economics of Women and Work.

The Economics Pre-Law Curriculum fits easily within the Economics major or minor but is open to other students. The Economics Department Undergraduate Advisor has helpful advice for students taking the Law School Admissions Test or applying for admission to law schools.

FINANCE (FIN)

The Finance major provides a broad-gauged analytical program for students anticipating a career in the 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
- 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 which include 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 the public and private sectors in domestic and international settings. It provides the background necessary for managing wealth in a risky environment. Finance relies on an interdisciplinary approach which draws on economic theory, accounting, information systems and the quantitative decision frameworks of statistics and mathematics.

The major is designed to ensure that graduates will be familiar with the tools 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 become familiar with computer applications in financial analysis, 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 4303 Financial Institutions and Markets (3)
- 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

- Financial Policies and Strategies
  - 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

Financial Services

- FIN 3604 International Finance
- FIN 4514 Advanced Investment Analysis and Management

- REE 4303 Principles of Real Estate
- REE 4303 Real Estate Investment Analysis
- 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 4504 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 (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.

INFORMATION SYSTEMS AND DECISION SCIENCES (ISM)

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

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

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 five MIS courses, which are required of all majors, plus six to nine hours of approved MIS electives. No more than three 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 4220 Business Data Communications (3)
- ISM 4300 Managing Information Services (3)

Approved MIS Electives (6-9)

Total (21-24)

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 required MIS courses. Normally ISM 3113 should be completed by the end of the first semester of the junior year.

Students may choose to take either ISM 3232 (Advanced Business Application Development) plus 6 hours of approved MIS electives OR a 2-semester sequence in COBOL programming (two 3-hour courses) plus 6 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.

USF
• **Requirements for a Minor in MIS** (for Business Majors only)

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

1. ISM 3230 Introduction to Business Application Development (3)
2. ISM 3113 Systems Analysis & Design (PR/CR ISM 3230) (3)
3. Plus, any 2 of the following: (6)
   - ISM 3233 Advanced Business Application Development
   - ISM 4212 Database Administration
   - ISM 4220 Business Data Communication
4. 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 hours 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 graduate 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 (15-24)

Total (18-24)

MAN 4504 and MAN 4507 do not count toward 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)
2. Management electives approved by department chair (9)
3. 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, 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 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
College of Business Administration
International Programs

Certificate in International Business

The Certificate in International Business provides students with the perspectives, knowledge, skills and experience necessary for successful careers in today's global environment. A statement recognizing the completion of the Certificate in International Business will appear on the student's official transcript.

To qualify for the Certificate in International Business students must satisfy the requirements of one of the undergraduate major degree programs in Business Administration, and also complete sufficient additional course work to attain a minimum of 18 semester credit hours of upper level international business or approved related course work. With approval, international courses taken to meet degree requirements may also be used to meet the 18 credit hour certificate requirement. At least four of the six international courses must be selected from a set of approved international business courses (see below). Up to two of the six courses in the certificate may be approved area studies courses, or other courses taken outside the College which are relevant to the student's international area of interest. At least 12 semester hours of the course work in the Certificate in International Business must be taken at USF. A grade point average of 2.0 or higher must be achieved in certificate course work taken at USF, as well as in any transfer work applicable to the certificate program. In addition to the specified course requirements, competency to effectively communicate in a foreign language must be demonstrated. Language competency will normally be evaluated by the USF Division of Languages. Students are strongly advised to choose a specific region of the world as the focal point for the area studies and language aspects of their programs.

Minor in International Business

Students Majoring in Business Administration

To qualify for the minor in International Business, students with a major in one of the undergraduate degree programs in Business Administration must successfully complete a minimum of 12 hours of international business or related course work. At least three courses (nine semester credit hours) in the minor must be selected from a set of approved upper level international business courses (see below). One of the courses in the minor may be an approved area studies course, or other course, taken outside the College which is relevant to the student’s international area of interest. A minimum of nine semester hours of the minor course work must be taken at USF. A grade point average of a 2.0 or higher must be achieved in minor course work taken at USF, as well as in any transfer work applicable to the minor. Competency to effectively communicate in a foreign language is strongly advised.

Non-Business Administration Majors

To qualify for the International Business minor non-business majors must complete the requirements for the minor in Business Administration (see previous Requirements for a Minor in Business Administration) and, in addition complete at least three courses (nine semester credit hours) selected from a set of approved upper level international business courses (see below). At least three of the international courses must be completed at USF. A grade point average of 2.0 or better must be achieved in the minor course work taken at USF, as well as in any transfer work applicable to the certificate program. Competency to communicate in a foreign language is strongly advised.

A statement attesting to the completion of the Minor in International Business will appear on the student's official transcript.

Courses Approved for the Certificate in International Business and the Minor in International Business

The following courses are currently approved for the International Business major and minor:

- ECO 3703 International Economics
- ECO 4713 International Monetary Economics
- FIN 3604 International Finance
- MAR 4156 International Marketing

Others courses will be added as they are developed and approved. In addition, the College frequently offers Selected Topics courses that qualify for the International Business major and minor. Students should consult with an advisor for additional approved courses.

Recommendations for Students Interested in International Business

To increase the quality and number of initial job opportunities and to enhance longer-term career objectives students are strongly advised to:

- Couple study of international business with a major or minor in one of the functional areas of business. The combination of international business and one of the traditional functional areas of business administration is a very attractive set of qualifications in the marketplace.
- Include an international internship and/or overseas study experience in the program. With careful planning, a student can complete an area studies course, an international business course and language training in a single term of relatively inexpensive study abroad. More information is available from the Business Undergraduate Programs Office and the International Business Programs Office.
- Maintain a portfolio of international academic and professional activity. Information on the content of such a portfolio is available from the International Business Programs Office.

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
- 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.

- Alpha Kappa Psi - A progressive coed professional business fraternity committed to providing a forum for leadership development in preparation for careers in all areas of business.
- 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. ASPIC'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.

BUSINESS ADMINISTRATION FACULTY

Accounting/Law
Director, School of Accountancy: R. M. Keith; James E. Ellis

Economics

Finance
Chairperson: R. Meyer; Lykes Professor of Banking & Finance; J. L. Pappas; University Distinguished Service Professor and Serge Bonanni Distinguished Professor of International Finance: A. Beenhakker; Professor Emeritus-Dean Emeritus: R. G. Cox; Professors: A. Beenhakker, S. E. Bolten, S. Kapplin, L. Meyer, J. L. Pappas, F. B. Power, A. Schwartz, K. F. Wieand; Associate Professors: S. Besley, S. B. Bulmash, D. A. Johnson, P. Kares, R. J. Rivard; Assistant Professors: J. Qi, R. Weigand; Other Faculty: J. Rader.

Information Systems & Decision Sciences

Management

Marketing

BUSINESS ADMINISTRATION COURSES

General Business Administration
BUL 3320 LAW AND BUSINESS I (3)
This course covers the nature of legal and societal institutions and environments, and major aspects of public, private, UCC and related business law.

BUL 3321 LAW AND BUSINESS II (3)
PR: BUL 3320. Legal problems in marketing of goods, nature of property, sales of personal property, securing of credit, granted, nature and use of negotiable instruments.

BUL 3360 THE LAW OF BUSINESS ASSOCIATIONS (3)
PR: BUL 3320. A study of the law of corporations, the law of partnerships, and the law of agency.

BUL 4331 LAW AND THE ACCOUNTANT (3)
PR: BUL 3320 or CI. A comprehensive study of commercial law as it affects the practice of accounting.

GEB 2350 DOING BUSINESS AROUND THE WORLD-SS (3)
This course introduces the student to: 1) the nature of international business; 2) the framework of international organizations and the monetary system within which international business functions; 3) forces affecting international business, and 4) management responses to problems caused by international environments.

GEB 2935 SELECTED TOPICS IN BUSINESS (1-6)
PR: CI. Topics to be selected by department chairs. May be repeated if topics vary. Not available for credit to upper-level students who have been admitted to the College of Business.

GEB 4805 BUSINESS POLICY -XMW (3)
PR: Senior standing and FIN 3403, MAN 3025, MAR 3023. The course is intended to provide a unifying, integrating, and coordinating opportunity to tie together concepts, principles, and skills learned separately in other, more specialized courses in Business Administration.

GEB 4906 INDEPENDENT STUDY (1-3)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated up to eight credit hours. (SU only.)
Accounting/Law

ACG 2021 PRINCIPLES OF FINANCIAL ACCOUNTING
(3)
Study of basic financial accounting principles including the recording, reporting and use of financial information and the preparation and interpretation of financial statements.

ACG 2071 PRINCIPLES OF MANAGERIAL ACCOUNTING
(3)
PR: ACG 2021. A study of the accountant's role in assisting management in the planning and controlling of business activities.

ACG 3074 MANAGERIAL ACCOUNTING FOR NON-BUSINESS MAJORS
(3)
The study of the use of accounting data internally by managers in planning and controlling the affairs of organizations towards major or CPA requirements.

ACG 3103 INTERMEDIATE FINANCIAL ACCOUNTING I
(3)
PR: ACG 2021. Theory and methodology underlying financial reporting, including the FASB's conceptual framework, the accounting process, financial statements, accounting changes, present value applications, and current assets.

ACG 3113 INTERMEDIATE FINANCIAL ACCOUNTING II
(3)
PR: ACG 3103. Continuation of ACG 3103. Topics covered include property, plant and equipment, intangibles, current liabilities, long-term debt, stockholders' equity, earnings per share computations, and investments.

ACG 3341 COST ACCOUNTING AND CONTROL I
(3)
PR: ACG 2071 or ACG 3103. Development of cost accounting systems for different entities, cost behavior patterns, cost-volume-profit analysis, relevant information for decision making, and budgets and standard costs for planning and control.

ACG 4301 ACCOUNTING INFORMATION SYSTEMS
(3)
PR: ACG 2021 and CIS 2100. This course provides students with a basic understanding of well-controlled information systems in a variety of technological environments with added emphasis placed on the collection, processing, and reporting of accounting information. Students who complete this course will not receive credit for ACG 4821.

ACG 4323 INTERMEDIATE FINANCIAL ACCOUNTING III
(3)

ACG 4351 COST ACCOUNTING AND CONTROL II
(3)
PR: ACG 3341. Application of the material covered in ACG 3341 with specific emphasis on cost allocations, performance measurements, analysis of current cost accounting systems and accounting in today's environment (giving consideration to the influences of the international environment).

ACG 4500 GOVERNMENTAL/NOT-FOR-PROFIT ACCOUNTING
(3)
PR: ACG 2021. Application of financial and managerial accounting, and auditing, principles and theory to both governmental and not-for-profit entities.

ACG 4632 COMPUTER CONTROL AND AUDIT
(3)
PR: ACG 3113 or CSE 1103. Study of information systems controls and auditing techniques emphasizing the effect both general and specific controls have on asset protection, data integrity, system effectiveness and efficiency in computerized business environments. Students who complete this course will not receive credit for IMM 4320 or ACG 3401.

ACG 4642 AUDITING II
(3)
PR: ACG 4632. Further development of material covered in ACG 4632, with special emphasis on additional reporting topics and audit techniques not previously addressed.

ACG 5935 SELECTED TOPICS IN ACCOUNTING
(1-4)
PR: CI. The course content will depend on student demand and instructor's interest.

ACG 5936 HONORS ACCOUNTING SEMINAR
(3)
PR: Honors accounting student in final semester of bachelor's program. Use of case studies to explore the interaction of accounting and business topics that have been previously emphasized in separate courses.

ACG 5950 ADVANCED FINANCIAL ACCOUNTING
(4)

ACG 5975 INTERNAL AND OPERATIONAL AUDITING
(3)
PR: ACG 3113 and ACG 3401, CR: ACG 4632. To provide students with an opportunity to learn about the theory and practice of Internal and Operational Auditing and to apply relevant audit principles and techniques to selected audit problems.

Economics

ECO 1000 BASIC ECONOMICS-SS
(3)
Survey of Economic principles and basic economic concepts. Scarcity, choice, markets, prices, the monetary system, unemployment, inflation, international trade and finance. (No credit after completing ECO 2023/2013. No credit toward the major or minor in Economics)

ECO 2013 ECONOMIC PRINCIPLES (MACROECONOMICS)-SS
Introduction to the theory of income determination with emphasis on monetary and fiscal policies. Objectives of full employment, price stability, economic growth, balance of payments stability

ECO 2023 ECONOMIC PRINCIPLES (MICROECONOMICS)-SS
Introduction to the theory of price determination. How an economy decides what to produce, how to produce and how to distribute goods and services.

ECO 2935 SELECTED TOPICS IN ECONOMICS
(1-3)
PR: CI. Topics selected by department. May be repeated if topics vary. Not available for credit to upper-level students admitted to the College of Business.

ECO 3100 MANAGERIAL ECONOMICS
(3)
PR: ECO 2023. Application of microeconomic theory to problems in business decision making with a special focus on price determination. (May not receive credit for both ECO 3100 and ECO 3101.)
ECO 3101 INTERMEDIATE PRICE THEORY (3)
PR: ECO 2023. The price system and allocation of scarce resources between competing uses. (May not receive credit for both ECO 3100 and ECO 3101.)

ECO 3203 INTERMEDIATE INCOME & MONETARY ANALYSIS (3)
PR: ECO 2013 and ECO 3100 or ECO 3101 with a grade of "C" or better. Determination of income, employment, prices, and interest rates. Aggregate demand and aggregate supply.

ECO 3622 AMERICAN ECONOMIC HISTORY (3)
PR: ECO 2023. Growth and evolution of American economic institutions from Colonial times to the present.

ECO 3703 INTERNATIONAL ECONOMICS - XMW (3)
PR: ECO 3100 or ECO 3101 with a grade of "C" or better. Role of international trade in the U.S. economy. Gains from trade, balance of payments, exchange rate determination, balance of payments stability and international commercial policy.

ECO 4105 ADVANCED PRICE THEORY (3)
PR: Grade of B or better in ECO 3100 or ECO 3101. An advanced survey of special topics in microeconomics: borrowing and saving, decision making under certainty, markets for capital and labor, game theory, production and exchange efficiency, social welfare, and efficiency consequences of market and non-market allocation.

ECO 4201 ADVANCED MACROECONOMIC THEORY (3)
PR: Grade of B or better in ECO 3203. An advanced survey of special topics in macroeconomics. Develops and contrasts the neoclassical growth, endogenous growth, real business cycle and new Keynesian models. Relevant empirical studies are presented.

ECO 4303 HISTORY OF ECONOMIC THOUGHT (3)
PR: ECO 3100 or ECO 3101 with a grade of "C" or better. Development of economic thought from Plato to Marshall.

ECO 4322 MARXIST POLITICAL ECONOMY - XMW (3)
PR: ECO 2013 or Cl. The Marxist school of thought in economics. Application of Marxist theory to problems of advanced capitalist and socialist societies.

ECO 4401 INTRODUCTION TO MATHEMATICAL ECONOMICS (3)
PR: ECO 2013, QMB 3200, and MAC 2233 or Cl. Mathematical models of optimizing behavior and economic equilibrium.

ECO 4421 INTRODUCTION TO ECONOMETRICS (3)
PR: QMB 3200 with grade of "B" or better or Cl. Survey of basic econometric techniques. Regression analysis employed to estimate consumption, investment, demand, cost, and production functions. Examines problems of autocorrelation, heteroscedasticity, multicollinearity, and specification errors.

ECO 4504 PUBLIC FINANCE (3)

ECO 4713 INTERNATIONAL MONETARY RELATIONS (3)
PR: ECO 3203 Advanced analysis of international macroeconomic relationships. Foreign exchange market, international monetary system, balance of payments.

ECO 4723 INTERNATIONAL COMMERCIAL POLICIES (3)
PR: ECO 3100 or ECO 3101 with a grade of "C" or better. Advanced analysis of international trade theory and commercial policy, international economic integration, multinational enterprise.

ECO 4905 INDEPENDENT STUDY (1-3)
PR: Cl. Specialized independent study determined by the student's needs and interests. May be repeated up to 6 credit hours. (S/U only.)

ECO 4914 INDEPENDENT RESEARCH (1-3)
PR: Cl. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 6 hours.

ECO 4935 SELECTED TOPICS IN ECONOMICS (1-3)
PR: Cl. Topics to be selected by the instructor or instructors on pertinent economic issues.

ECP 3201 ECONOMICS OF WOMEN AND WORK - XMW (3)
PR: ECO 1000 or ECO 2013 and 2023. Survey of research on women, men and work in the labor market and the household. Focuses on the economic status of women. Includes historical perspective, examination of the family as an economic unit, changing work roles, gender differences in occupation and earnings.

ECP 3202 LABOR ECONOMICS (3)
PR: ECO 3100 or ECO 3101 with a grade of "C" or better. Determinants of wage and employment levels; occupation, industrial and geographical wage differentials, union and public policy effects on labor markets; the economics of discrimination, inflation and unemployment.

ECP 3203 ENVIRONMENTAL ECONOMICS - XMW (3)
PR: ECO 2023. An economic analysis of environmental issues. The economics of resource use and pollution control are examined using the concepts of externalities, cost-benefit analysis, public goods, and property rights.

ECP 3413 ECONOMICS OF REGULATION AND ANTITRUST (3)
PR: ECO 2013. Economic analysis of the rationale and performance of government regulation and antitrust policy. Examination of antitrust issues or price fixing, mergers, and monopolization, and issues of regulating electric utilities, airlines, trucking, consumer product safety, product quality, and the environment.

ECP 3530 ECONOMICS OF HEALTH (3)
PR: ECO 3100 or ECO 3101 with a grade of "C" or better. Application of economic methods to health care topics. Demand for medical care, public and private health insurance; physician and hospital supply of medical care; government regulations and national healthcare systems.

ECP 3613 ECONOMICS OF THE URBAN ENVIRONMENT (3)

ECP 4232 COLLECTIVE BARGAINING AND PUBLIC POLICY (3)
PR: ECO 2023 or Cl. Administration of labor management agreements. Impact of the government role in collective bargaining and labor relations.

ECP 4451 LAW AND ECONOMICS (3)
PR: ECO 2023. Advanced analysis of the economic impact of tort, criminal, property and contract law as well as in the formation and adjudication of law.

ECP 4721 LABOR ECONOMIC DEVELOPMENT (3)
PR: ECO 2013 or Cl. Economic development in emerging nations.

ECS 4003 COMPARATIVE ECONOMIC SYSTEMS (3)
PR: ECO 2013 or Cl. The major economic systems: traditional, capitalism, democratic socialism, communism and fascism.

Finance
FIN 2104 PERSONAL FINANCE (3)
Survey of the problems and techniques of personal financial planning. Includes consumer credit, insurance, home ownership, and personal investing, with attention given to current economic and legal constraints. Not available for credit to upper level students who have been admitted to the College of Business. May not be counted toward major requirements in FIN or GBA.

FIN 2107 INTRODUCTION TO INVESTMENTS (3)
Emphasizes the operations of the security markets in the U.S. and the risks and returns of alternative investment methods. Designed for upper division business and advanced economics students. Not available for credit to upper level students who have been admitted to the College of Business. May not be counted toward major requirements in FIN or GBA.

FIN 2935 SELECTED TOPICS IN FINANCE (1-6)
PR: Cl. Topics to be selected by department chair. May be repeated if topics vary. Not available for credit to upper level students who have been admitted to the College of Business Administration. May be repeated up to 6 credit hours.
FIN 3233 MONEY AND BANKING (3)
PR: ECO 2013. Examines the structure and operations of our monetary system, commercial banking, central banking, monetary policy, and capital markets, and provides an introduction to monetary theory and policy.

FIN 3403 PRINCIPLES OF FINANCE (3)
PR: ACG 2071 or CI and ECO 2023. Study of the processes, decisions structures, and institutional arrangements concerned with the use and acquisition of funds by a firm. Includes an examination of the management of the asset and liability structure of the firm under certain and risky situations. The financial decision process will include and recognize the international as well as domestic aspects of financial management.

FIN 3604 INTERNATIONAL FINANCE (3)
PR: ECO 2013, FIN 3403 or CI. Study of factors affecting international business, assessment of risks, international managerial finance, institutions and instruments of international business finance.

FIN 4245 FEDERAL RESERVE SYSTEM AND MONETARY POLICY (3)
PR: FIN 4504 or CI. An analysis of the Federal Reserve System, with special emphasis on monetary theory and the formulation and administration of monetary policy.

FIN 4303 FINANCIAL INSTITUTIONS AND MARKETS (3)
PR: FIN 3403. A study of financial institutions and their roles in helping to allocate savings in the economy. Also includes a description and analysis of securities issued and traded in money and capital markets.

FIN 4324 BANK MANAGEMENT (3)
PR: FIN 3403 and FIN 3233. Application of traditional finance concepts to the management of commercial banks with emphasis on decision making and problem solving techniques to major problem areas in banking.

FIN 4412 WORKING CAPITAL MANAGEMENT (3)
PR: FIN 3403. This course is designed to provide the student with an understanding of short-term financial management. Topics to be covered include cash management, credit and collection policy, inventory decisions, and sources of short-term financing.

FIN 4414 ADVANCED CORPORATION FINANCE (3)
PR: FIN 4504. An examination of the financial policies of corporations, with special reference to dividend policy, financial structure, capital expenditures, acquisitions, mergers, and reorganization.

FIN 4443 FINANCIAL POLICIES AND STRATEGIES (3)
PR: FIN 3403. A seminar for majors in Finance. Primarily a case course examining financial policies and the application of financial analysis to alternative strategies.

FIN 4504 PRINCIPLES OF INVESTMENTS (3)
PR: ECO 2013 and FIN 3403. Survey of the risks and returns of investment media in relation to the investment objectives of individual and institutional investors. Includes an examination of the techniques used in analyzing investment market and risky situations. The study includes an understanding of short-term financial management.

FIN 4514 ADVANCED INVESTMENT ANALYSIS AND MANAGEMENT (3)
PR: A comprehensive survey of security analysis and portfolio management. The course will utilize a quantitative approach to investment selection and management.

FIN 4905 INDEPENDENT STUDY (1-3)
PR: CI. Specialized independent study determined by the students' needs and interests. May be repeated up to six credit hours. (SU only.)

FIN 4915 INDEPENDENT RESEARCH (1-3)
PR: CI. Individual study contract with instructor and department chairperson. The research project will be mutually determined by the student and instructor. May be repeated up to six hours.

FIN 4934 SELECTED TOPICS IN FINANCE (1-3)
PR: CI. Topics to be selected by instructor and department chairperson. May be repeated up to six hours.

REE 3043 REAL ESTATE DECISION MAKING (3)
PR: FIN 3403. Acquaints students with the range of knowledge required to engage in real estate decision making in the United States. Integrates the institutional framework with which decisions are made, the elements of financial analysis, deal structuring, and marketing, and the pricing, financing and allocation of real property in the real estate markets.

RMI 3011 PRINCIPLES OF INSURANCE (3)
-analysis, theories of urban development patterns, and the role of taxation will be studied along with the application of analytical techniques for decision making.

RMI 4115 LIFE, HEALTH, AND DISABILITY INSURANCE (3)
PR: QMB 3200, RMI 3011. The course will analyze the use of life, health, and disability insurance contracts as a method of dealing with the risks of death, sickness, and disability. It will include an analysis of cost determination of the various types of coverage.

RMI 4210 PROPERTY INSURANCE (3)
PR: RMI 3011. Course dealing with recognition of personal and business property risks, and coverages which may be used in dealing with these risks. Considers the underwriting, marketing, and social problems associated with these coverages. Topics include commercial and residential fire insurance, inland marine and transportation policies, and multiperil contracts. Not limited to Finance majors.

RMI 4220 CASUALTY INSURANCE (3)
PR: RMI 3011. Course dealing with personal and business casualty risks and coverages which may be used in dealing with these risks. Considers the underwriting, marketing, and social problems associated with these coverages. Topics include workers' compensation, public liability, auto liability, suretyship and crime insurances. Not limited to Finance majors.

Information Systems and Decision Sciences

CSS 2100 COMPUTERS IN BUSINESS (3)
A study of the use and impact of computers in all areas of business organizations. Course includes hands-on experience and the use of software packages for business analysis.

ISM 3011 MANAGEMENT INFORMATION SYSTEMS (3)
PR: CGS 2100; ACG 2071; ACG 2021 or equivalent. The study of information management, management information systems requirements and information systems in modern organizations. (May not be counted toward major requirements in MIS.)

ISM 3113 SYSTEMS ANALYSIS AND DESIGN (3)
PR/CR: ISM 3230. Study of the techniques and procedures used in assessing information requirements, analyzing information flows and processing activities, and designing computer-based business systems.

ISM 3230 INTRODUCTION TO BUSINESS APPLICATION DEVELOPMENT (3)
PR: CGS 2100 or equivalent, or CI. Introduction to problem-solving and business application development. Review of programming and programming languages. Basic programming concepts are presented in a modern programming language. Principles of programming style are emphasized. Projects cover business applications.

ISM 3232 ADVANCED BUSINESS APPLICATION DEVELOPMENT (3)
PR: ISM 3230. Advanced presentation of business application development using a modern programming language. Advanced topics include data structures, indexing, file processing, and user interfaces. Good program design techniques are emphasized. Advanced business applications are developed. (May not be counted toward major requirements in MIS.)
ISM 3431 MANAGEMENT SCIENCE PRODUCTION/OPERATIONS MANAGEMENT APPLICATIONS (3)
PR: MAC 2233. Fundamentals of production operations management (POM) and fundamentals of management science (MS). The application of MS models in the solution of POM problems.

ISM 4212 DATABASE ADMINISTRATION (3)
PR: ISM 3113, ISM 3230. Principles of database design/management for mainframe, micro, and client/server environments; including data modeling, physical vs. logical representation and back-up and recovery management.

ISM 4220 BUSINESS DATA COMMUNICATIONS (3)
PR: ISM 3113. Infrastructure of communication, including network architectures, communication protocols, transmission standards and media access control methods.

ISM 4233 INFORMATION SYSTEM INTERFACE DESIGN (3)
PR: ISM 3230. The fundamental concepts of human perception and cognition are studied in order to develop effective human-computer interfaces. Various types of interfaces are examined. Students will develop human-computer interfaces via state-of-the-art development languages and systems.

ISM 4234 OBJECT-ORIENTED DESIGN AND DEVELOPMENT (3)
PR: ISM 3232. This course presents an object-oriented approach to software development of business information systems. Students will learn to create object models of the business world and to develop information system designs based on these objects. The designs will be implemented using any of the C++, VisualBasic, or other OO (object-oriented) programming languages.

ISM 4240 DISTRIBUTED OPERATING SYSTEMS (3)
PR: ISM 3230. Introduction to distributed operating systems fundamentals such as distributed systems architecture, file structures, client-server, open systems, resource allocation, and basic tools for manipulating these operating environments.

ISM 4290 SENIOR SEMINAR IN INFORMATION SYSTEMS (3)
PR: ISM 3113, ISM 4300. A seminar covering advanced topics in systems management, analysis and design. Applications of these procedures to actual or hypothetical cases.

ISM 4300 MANAGING INFORMATION SERVICES (3)
PR: MAN 3025, ISM 3113, ISM 4212 and ISM 4220. Current issues in information systems management focusing on organizational policies, procedures and standards for managing distributed computing resources.

ISM 4320 INFORMATION SYSTEMS CONTROLS (3)
PR: MIS Major or CI. A study of information systems control and its application in system design and system management. Students who complete this course will not receive credit for ACG 4621.

ISM 4400 DECISION SUPPORT SYSTEMS APPLICATIONS-COMPUTER ASSISTED DECISION MAKING (3)
PR: FIN 3403, QMB 3200, and ISM 3113. Methods and techniques for developing systems to support decision making in business organizations.

ISM 4905 INDEPENDENT STUDY (1-6)
Independent study as directed by designated faculty. May be repeated up to 6 credit hours. (S/U only)

ISM 4930 SELECTED TOPICS IN MIS (1-3)
Selected topics in MIS.

ISM 4950 INDEPENDENT RESEARCH (1-6)
PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor.

MAN 4504 OPERATIONS MANAGEMENT: A SYSTEMS APPROACH (3)
PR: ISM 3431 or equivalent. Studies problems of “operations” in all types of enterprises in both the public and private sectors. Emphasis is placed on the application of various decision science methodologies to problem situations.

MAN 4507 OPERATION PRODUCTION SYSTEMS (3)
PR: MAN 4504 or CI. Study of closed loop production planning and control systems. Master production planning, inventory management, materials requirements planning, capacity, management, production activity. Relationship to organizational effectiveness.

QMB 2100 BUSINESS AND ECONOMIC STATISTICS I -QM (3)
PR: MAC 2233. Description of sample data; calculation of probabilities, frequency functions of random variables, the binomial and normal distributions; sampling theory and estimation; test of hypotheses; elements of Bayesian decision theory.

QMB 3200 BUSINESS AND ECONOMIC STATISTICS II (3)
PR: MAC 2233, QMB 2100. Theory and use of statistical inference. Point and interval estimations; criteria for choosing estimators and decision rules; hypotheses tests; analysis of variance; correlation; multiple regression; and non-parametric methods.

QMB 4600 QUANTITATIVE APPROACH FOR BUSINESS DECISIONS (3)
PR: ISM 3431. The use of systematic approaches and management science tools for decision making and problem solving in an organizational setting. Emphasis is on qualitative approaches for problem identification, analysis, choice and implementation.

QMB 4703 SIMULATION AND MODELING TECHNIQUES (3)
PR: ISM 3431 or CI. A study of manual and computer simulation techniques and their application to problem solving in management (behavioral and quantitative). Knowledge of a computer language and the basic tools and techniques of management science is advised.

MAN 3025 PRINCIPLES OF MANAGEMENT (3)
Study of the fundamentals of management. It treats topics in organizational theory, organizational behavior, and interpersonal relations which are relevant to effective management performance.

MAN 3240 ORGANIZATIONAL BEHAVIOR ANALYSIS (3)
PR: MAN 3025. The course covers research literature relevant to organizational functioning including behavioral effects of power and authority, formal organization, structural variation, leadership, motivation, and communication.

MAN 3301 HUMAN RESOURCE MANAGEMENT (3)
To develop a broad exposure to new approaches, techniques, and future trends in the management of personnel. A study of the major functions in personnel including job analysis, manpower planning, selection, performance evaluation, training, and wage and salary administration.

MAN 3401 INDUSTRIAL RELATIONS (3)
A conceptualization of the administrative problems arising from unionization. Emphasis on the relationship between management and employee representatives in private and public employment.

MAN 4120 MANAGERIAL BEHAVIORAL LABORATORY (3)
PR: MAN 3240 or equivalent. Development of direct understanding of personal, interpersonal, and intergroup factors present in organizational interaction. Stress is on a series of experiential exercises and written application of results within a laboratory setting.

MAN 4120 THEORY AND PRACTICE OF MANAGEMENT SKILLS (3)
This course involves the transference of management theories into practice. It requires the active involvement of students in developing and practicing the skills needed to be a successful manager.

MAN 4220 ORGANIZATIONAL DEVELOPMENT AND CHANGE (3)
PR: MAN 3240 or CI. A lab course where students experimentally apply behavioral science techniques in an "action-research" framework to the cycle of planned change so as to build a more effective organization.

MAN 4282 ORGANIZATIONAL ASSESSMENT (3)
PR: MAN 3240. The analysis and measurement of factors which influence organizational effectiveness and the quality of work life. Data based cases will be used by students to assess managerial and supervisory skills and to measure organizational functioning and work design.
MAN 4402 EMPLOYMENT LAWS (3)
Federal and state regulation of the employment relationship, including wage and hour laws; EEO; affirmative action programs; employee benefits; insurance; workers' compensation, safety, health, employee's personal rights; collective bargaining; industrial relations system.

MAN 4430 SEMINAR IN NEGOTIATIONS AND ADMINISTRATION OF LABOR AGREEMENTS (3)
Case studies in contact negotiation, administration, grievance settlement, and arbitration. Assumes familiarity with collective bargaining and industrial relations systems.

MAN 4802 ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT (3)
PR: ACC 2021, ACC 2071, MAR 3023, or Cl. Study of the factors involved in starting and managing a small- to medium-sized business. Emphasis on conduct of pre-business feasibility study, start-up of business, successful management of the firm, and options for succession or termination.

MAN 4804 SMALL BUSINESS MANAGEMENT COUNSELING (3)
PR: MAN 4802 or Cl. Field application in small business settings by (a) analyzing an on-going small business and developing recommendations for making improvements; or (b) conducting a feasibility study for a new enterprise and developing a strategy for implementation if favorable.

MAN 4905 INDEPENDENT STUDY (1-3)
PR: Cl. Specialized independent study determined by the students needs and interests. May be repeated up to 8 credit hours. (S/U only.)

MAN 4930 SELECTED TOPICS IN MANAGEMENT (1-3)
PR: Cl. Topics to be selected by instructor and department chairperson for pertinent Management issues.

MAN 4931 INDEPENDENT RESEARCH (1-4)
PR: Cl. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 8 hours.

Marketing
MAR 2931 SELECTED TOPICS IN MARKETING (1-4)
PR: Cl. Topics to be selected by department chairman. May be repeated if topics vary. Not available for credit to upper-level students who have been admitted to the College of Business. May be repeated up to 8 credit hours.

MAR 3023 BASIC MARKETING (3)
PR: ACG 2021, ECO 2013, ECO 2023, or Cl. Survey of the marketing of goods and services within the economy. Attention is paid to the impact of marketing on other functional areas of business as well as society.

MAR 3400 PROFESSIONAL SELLING (3)
PR: MAR 3023 or Cl. A study of the stages of the professional selling process, and the role of sales in today's marketing environment. Emphasis on learning adaptive selling techniques and developing effective interpersonal communications skills. Sales careers are examined.

MAR 3513 MARKETING RESEARCH (3)
PR: QMB 3200, MAR 3023. A study of research methods and techniques applicable to problem solving in marketing. Attention is also given to defining information needs, determining the value of information, interpreting and reporting information for use in marketing decision making.

MAR 3823 MARKETING MANAGEMENT (3)
PR: MAR 3023. An applications oriented study of the marketing function at an intermediate level. Emphasis upon techniques for analysis and problem-solving. Builds upon the principles and concepts learned in MAR 3023, and provides a strong foundation for the remaining courses in the marketing curriculum.

MAR 4156 INTERNATIONAL MARKETING (3)
PR: MAR 3023. A study of procedures and problems associated with establishing marketing operations in foreign countries. Includes the institutions, principles and methods involved in the solution of these business problems as well as the effects of national differences on business practices and buyer behavior.

MAR 4203 CHANNELS MANAGEMENT (3)
PR: MAR 3023. A detailed study of marketing channels as a functional area of marketing management responsibility and as a part of marketing strategy. Attention is given to wholesaling and retailing and their structural, dynamic interrelationships including distribution logistics.

MAR 4213 LOGISTICS AND PHYSICAL DISTRIBUTION MANAGEMENT (3)
PR: MAR 3023 or Cl. A study of logistics in the marketing of goods and services. Includes a description and analysis of the logistics environment as well as components of the physical distribution system with emphasis on information flows and the application of quantitative techniques used in establishing and controlling customer service levels.

MAR 4231 RETAILING MANAGEMENT (3)
PR: MAR 3023. A comprehensive study of the retailing structure, institutions, and environment. Includes pertinent management theories and practices in analyzing, organizing, planning and controlling retail operations, both large and small.

MAR 4333 PROMOTION MANAGEMENT (3)
PR: MAR 3023 or Cl. A study of the role of promotion in the marketing program of the firm, including the promotional tools available to the marketing manager and the various types of decisions made in the promotional area. Decision making process in development of a promotional program is emphasized.

MAR 4403 SALES MANAGEMENT (3)
PR: MAR 3023 or Cl. A study of sales management and strategy as a subset of marketing management. Emphasis is placed on developing the problem-solving and decision-making skills required of the sales manager in the modern market-oriented company.

MAR 4453 BUSINESS TO BUSINESS MARKETING (3)
PR: MAR 3023. A study of the marketing of goods and services to the industrial and institutional sectors. Includes characteristics of the markets and channels of distribution, sales, management, research and promotional practices, marketing policies and strategies.

MAR 4503 BUYER BEHAVIOR (3)
PR: MAR 3023. A study of the basic concepts of buyer behavior, including pre- and post-purchase attitudes and behavior patterns, information processing relating to the functional areas of marketing and the buyer's decision-making process. Managerial applications to marketing are emphasized.

MAR 4824 MARKETING MANAGEMENT PROBLEMS (3)
PR: Senior Standing, MAR 3823, MAR 3613, and two other 4000 level marketing courses, or Cl. The integration of marketing knowledge applied to decision roles in managing the total marketing effort of firms, and coordination with other major functional areas on specific problems.

MAR 4903 INDEPENDENT RESEARCH (1-3)
PR: Cl. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 6 credit hours.

MAR 4905 INDEPENDENT STUDY (1-3)
PR: Cl. Specialized independent study determined by the students' needs and interests. May be repeated up to 6 credit hours. (S/U only.)

MAR 4933 SELECTED TOPICS IN MARKETING (1-3)
PR: Cl. Topics to be selected by instructor and department chairperson.
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.
3. Completion of all portion of the CLAST with passing scores.
4. Completion of the following prerequisites:
   - EDF 1005 Introduction to Education
   - EDG 2701 Teaching Diverse Populations
   - EME 2040 Introduction to Educational Technology
   - At least 9 of the 15 hours beyond the General Education requirements
5. An overall minimum GPA of 2.5 on all attempted hours plus a minimum ACT score of 20 or SAT score of 950 (840 if taken before 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 1030 (940 if taken before 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.
6. 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 admissions information and prerequisites. Information regarding admission requirements for programs 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 must have the approval of the chairperson from the department in which the equivalent course is taught.
3. Courses completed ten years ago or longer will count as elective credit only.

**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.
2. Completion of General Education, "Gordon Rule," foreign language requirements and all other program prerequisites.
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.

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.

Students must earn a "C" grade or higher in their required major courses. "SU" grades are not accepted.

5. Placement in a school approved by the College of Education and the Florida Department of Education.

Applications for internship may be obtained in the Office of Student Academic Services. 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 and 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 for the appropriate 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 education requirements, 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.

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).

**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 two 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 provides 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 the 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:

- **Program**
- **Department**
- **Code**

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<tr>
<th>Program</th>
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<th>Code</th>
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<td>Special Education</td>
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<tr>
<td>Teacher Education Program</td>
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</table>

A Bachelor of Arts degree may be awarded when competency in a foreign language is demonstrated.

**Teacher Education Program**

There are four distinct areas in the teacher education program, and all teacher candidates must meet certain minimum requirements in each. The five 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. **Common Prerequisites**
   - (24 credit hours)
   - Common Prerequisites will apply to all transfer students beginning in Fall 1998.

3. **Professional Education Core**
   - (36-45 credit hours)
   - The required courses in the professional education core are as follows:*

  EFR 1005 Introduction to Education (3)
   EDG 2701 Teaching Diverse Populations (3)
   EME 2040 Introduction to Educational Technology (3)
   Electives (may be specified by program) (15)

* 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)
EDF 3604 Social Foundations of Education (3) or
EDF 3542 Philosophy of Education (4)
EDG 4620 Curriculum and Instruction (3)
EDF 4430 Measurement for Teachers (3)
EEX 4070 Exceptional Student Ed (2)
Methods Course(s) (4-9)
Internship and Seminar (10-12)
Reading Requirement (2-3)

*Students should see their advisors upon admittance to the College of Education for specific core requirements for their majors.

4. Teaching Specialization Preparation (27-49 credit hours)

Course requirements in the area of teaching specialization vary according to field of specialization. These specialization requirements are listed with the programs that follow in the departmental section.

5. Liberal Arts Exit Requirements

(6 credit hours)

a. Six hours from the list of approved courses dealing with
Major Works and Major Issues.*
b. Three hours of Literature and Writing from the list of approved courses.*

* See advisor for approved courses.
Three of these nine hours may be taken S/J.

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, Industrial-Technical Education, and Technology Education.

BUSINESS AND OFFICE EDUCATION

The Business and Office Education curriculum is designed to serve students who wish to focus on the needs of today's workplace, and combine teaching with business experience while achieving initial teaching certification for grades 6-12.

- 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.

  Specialization Requirements (33 cr. hrs.):
  Accounting (2 courses) Information Processing/Economics (2 courses)
  Word Processing
  Bus Com./ENC 3210 or 3213 Principles of Management
  Business Law
  Electives (3 hours approved by advisor)
  General Office/Administrative competencies met through successful completion of BTE 4909.

- Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

  Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured.

  If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, they must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

  Students must complete the prerequisite courses listed below prior to being admitted to the upper-division major. Students who do not complete these prerequisites can be admitted to the University, but not to the upper-division major. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

  - EDF 1005 Introduction to Education
  - EDF 2701 Teaching Diverse Populations
  - EME 2040 Introduction to Educational Technology

  (Equivalent course or demonstrated competency may be substituted)

  Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

  - ACG X001 Financial and Managerial Accounting I
  - ACG X011 Financial and Managerial Accounting II
  - ECO X013 Economic Principles (Macroeconomics)
  - ECO X023 Economic Principles (Microeconomics)
  - XXX XXX Electives in Business Administration, 3 semester hours

  At least one course taken to meet the natural science requirements in General Education must include a laboratory component.

ADMISSION REQUIREMENTS TO THE UNIVERSITY PROGRAM OF STUDY

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

Admission will require an overall GPA of 2.5 with a minimum score of 840 on the SAT (950 if taken after April 1, 1995) or 20 on the ACT. However, an overall 2.25 GPA will be acceptable with a minimum score of 940 on the SAT (1030 if taken after April 1, 1995) or 22 on the ACT. Official grade forgiveness will be used as appropriate.

Professional education courses taken at the community college will transfer as general electives.

Introduction/General Psychology and Sociology are recommended.

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.
**Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured.

If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, they must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students must complete the prerequisite courses listed below prior to being admitted to the upper-division major. Students who do not complete these prerequisites may be admitted to the University, but not to the upper-division major. Unless stated otherwise, a grade of “C” is the minimum acceptable grade.

- **EDF 1005** Introduction to Education
- **EDG 2701** Teaching Diverse Populations
- **EME 2040** Introduction to Educational Technology

(Equivalent course or demonstrated competency may be substituted)

An additional 15 semester hours should be completed in a Vocational Specialty Area. At least one course taken to meet the natural science requirements in General Education must include a laboratory component.

**ADMISSION REQUIREMENTS TO THE UNIVERSITY PROGRAM OF STUDY**

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

Admission will require an overall GPA of 2.5 with a minimum score of 840 on the SAT (950 if taken after April 1, 1995) or 20 on the ACT. However, an overall 2.25 GPA will be acceptable with a minimum score of 940 on the SAT (1030 if taken after April 1, 1995) or 22 on the ACT. Official grade forgiveness will be used as appropriate.

Professional education courses taken at the community college will transfer as general electives.

Introduction/General Psychology and Sociology are recommended.

**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 theory with 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 EVT 4165 EVT 4562 ADE 4384 EVT 4367 EVT 4365 EIV 4360 EVT 4946 EVT 4084

  *Another course may be substituted with advisor’s approval.*

**Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured.

If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, they must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students must complete the prerequisite courses listed below prior to being admitted to the upper-division major. Students who do not complete these prerequisites can be admitted to the University, but not to the upper-division major. Unless stated otherwise, a grade of “C” is the minimum acceptable grade.

- **EDF 1005** Introduction to Education
- **EDG 2701** Teaching Diverse Populations
- **EME 2040** Introduction to Educational Technology

( Equivalent course or demonstrated competency may be substituted)

An additional 15 semester hours should be completed in a Technological Area of Specialization. At least one course taken to meet the natural science requirements in General Education must include a laboratory component.

**ADMISSION REQUIREMENTS TO THE UNIVERSITY PROGRAM OF STUDY**

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

Admission will require an overall GPA of 2.5 with a minimum score of 840 on the SAT (950 if taken after April 1, 1995) or 20 on the ACT. However, an overall 2.25 GPA will be acceptable with a minimum score of 940 on the SAT (1030 if taken after April 1, 1995) or 22 on the ACT. Official grade forgiveness will be used as appropriate.

Professional education courses taken at the community college will transfer as general electives.

Introduction/General Psychology and Sociology are recommended.

**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.

Recommended 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 Program

Student 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 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 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 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:

  ARE 4313  LAE 4414*  MUE 4210  RED 4310
  HLP 4722  MAE 4310  SCE 4310  RED 4511
  LAE 4314  MAE 4326  SSE 4313

  Students are advised that the Elementary Education specialization will require an enrollment of more than the traditional four semesters of the junior and senior years in order to complete the program specialization courses and the required sequence of internship.

  *approved Liberal Arts Exit Requirement

• Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)
  Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, they must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students must complete the prerequisite courses listed below prior to admission to the upper-division major. Students who do not complete these prerequisites can be admitted to the University, but not to the upper-division major. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

EDF 1005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology
(Required course or demonstrated competency may be substituted)
STUDENTS should also complete 15 hours beyond those taken to meet General Education Requirements from the following liberal arts and sciences areas: a) fine arts or humanities; b) political sciences, sociology, economics, cultural geography, or speech; c) mathematics; d) natural sciences; and/or e) psychology. Among these 15 hours must be included one course in mathematics, and combined with the General Education Requirements, two courses in the natural sciences, one of which must include a laboratory component.

ADMISSION REQUIREMENTS TO THE UNIVERSITY PROGRAM OF STUDY

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

Admission will require an overall GPA of 2.5 with a minimum score of 840 on the SAT (950 if taken after April 1, 1995) or 20 on the ACT. However, an overall 2.25 GPA will be acceptable with a minimum score of 940 on the SAT (1030 if taken after April 1, 1995) or 22 on the ACT. Official grade forgiveness will be used as appropriate.

Professional education courses taken at the community college will transfer as general electives.

American History and American National Government are recommended.

EARLY CHILDHOOD EDUCATION:

Pre-Kindergarten/Primary

• Requirements for the B.S. Degree (EEC):
  General 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  EEC 4200  EEC 4230
  EME 4402

  Specialization (30):

  EEC 4008*  EEC 4203  EEC 4211  EEC 4212
  EEC 4300  EEC 4303  EEC 4401  EEC 4706
  PET 4088  RED 4310

  *approved Liberal Arts Exit Requirement

• Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)
  Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, they must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students must complete the prerequisite courses listed below prior to admission to the upper-division major. Students who do not complete these prerequisites can be admitted to the University, but not to the upper-division major. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.
ARH 2050/2051 Art History
ART X205/X206

EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology
(Preapproved course or demonstrated competency may be substituted)

ADMISSION REQUIREMENTS TO THE UNIVERSITY PROGRAM OF STUDY

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

Admission will require an overall GPA of 2.5 with a minimum score of 840 on the SAT (950 if taken after April 1, 1995) or 20 on the ACT. However, an overall 2.25 GPA will be acceptable with a minimum score of 940 on the SAT (1030 if taken after April 1, 1995) or 22 on the ACT. Official grade forgiveness will be used as appropriate.

Professional education courses taken at the community college will transfer as general electives. Introduction/General Psychology and Sociology are recommended.

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:

A. Art Education
B. English Education
C. Foreign Language Education
D. Mathematics Education
E. Science Education
F. 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

The Art Education curriculum is designed to serve students who wish to develop their artistic competence and have a commitment to help develop a similar artistic potential in others.

Art Education majors may specialize in one area of the Art Department or become generalists by taking various studio classes.

For other degree requirements not listed below, the University's General Education and graduation requirements 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 2400C  ART 2510C  ART 2701C
ART 3110C  ART 4402C  ARH 4450
Art Studio Electives approved by adviser
Art History Elective

Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured.

If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, they must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Courses that transfer: art history, art studio - evaluated by College of Fine Arts by portfolio only.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

EDF 1005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology
(Preapproved course or demonstrated competency may be substituted)

If students are coming to the University from a community college, the following prerequisite courses will be accepted as meeting lower level requirements:

ART 1300/1301 Drawing I and Drawing II
ART X205/X206 Color Fundamentals. 6 semester hours
ARH 2050/2051 Art History Survey I and II or Art History Survey II

Plus two of the following courses:

ART X510 Painting
ART X400 Printmaking
ART X100 Crafts

At least one course taken to meet the natural science requirements in General Education must include a laboratory.

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 2000 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: LAE4464), the fall or spring immediately preceding internship. LAE 4325 should be taken the semester prior to enrolling in LAE 4530. Methods courses are available in Fall and Spring Semesters, only.

Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured.
If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, they must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Students must complete the prerequisite courses listed below prior to being admitted to the upper-division major. Students who do not complete these prerequisites can be admitted to the university, but not to the upper-division major. Students who do not complete these prerequisites can be admitted to the University, but not to the upper-division major. Unless stated otherwise, a grade of "C" is the minimum acceptable grade. EDF 1005 Introduction to Education EDF 2701 Teaching Diverse Populations EME 2040 Introduction to Educational Technology (Equivalent course or demonstrated competency may be substituted)

In addition, fifteen semester hours must come from the following areas: courses in elementary and intermediate grammar, composition and advanced conversation; culture and civilization in the target language.

At least one course taken to meet the natural science requirements in General Education must include a laboratory component.

ADMISSION REQUIREMENTS TO THE UNIVERSITY PROGRAM OF STUDY

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

Admission will require an overall GPA of 2.5 with a minimum score of 840 on the SAT (950 if taken after April 1, 1995) or 20 on the ACT. However, an overall 2.25 GPA will be acceptable with a minimum score of 940 on the SAT (1030 if taken after April 1, 1995) or 22 on the ACT. Official grade forgiveness will be used as appropriate.

Professional education courses taken at the community college will transfer as general electives. Introduction/General Psychology and Sociology are recommended.

FOREIGN LANGUAGE EDUCATION:

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

Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured.

If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, they must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students must complete the prerequisite courses listed below prior to be admitted to the upper-division major. Students who do not complete these prerequisites can be admitted to the University, but not to the upper-division major. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

EDF 1005 Introduction to Education EDF 2701 Teaching Diverse Populations EME 2040 Introduction to Educational Technology (Equivalent course or demonstrated competency may be substituted)

In addition, fifteen semester hours must come from the following areas: courses in elementary and intermediate grammar, composition and advanced conversation; culture and civilization in the target language.

At least one course taken to meet the natural science requirements in General Education must include a laboratory component.

ADMISSION REQUIREMENTS TO THE UNIVERSITY PROGRAM OF STUDY

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

Admission will require an overall GPA of 2.5 with a minimum score of 840 on the SAT (950 if taken after April 1, 1995) or 20 on the ACT. However, an overall 2.25 GPA will be acceptable with a minimum score of 940 on the SAT (1030 if taken after April 1, 1995) or 22 on the ACT. Official grade forgiveness will be used as appropriate.

Professional education courses taken at the community college will transfer as general electives. Introduction/General Psychology and Sociology are recommended.

MATHEMATICS EDUCATION (MAE):

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 2311 MAD 3100 MHE 4403
     - MAC 2312 MAS 3103 MTG 4212
     - MAC 2313 MAS 4301 STA 2023
     - MGF 3301 MAS 4214

2. Mathematics Education:
   - Eleven hours in teaching mathematics at the secondary level.
   - Required courses are:
     - MAE 4320 MAE 4551 MAE 4330
     - Two courses in teaching math with technology (see program advisor).

Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured.

If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, they must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students must complete the prerequisite courses listed below prior to being admitted to the upper-division major. Students who do not complete these prerequisites can be admitted to the University, but not to the upper-division major. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

EDF 1005 Introduction to Education EDF 2701 Teaching Diverse Populations EME 2040 Introduction to Educational Technology (Equivalent course or demonstrated competency may be substituted)

In addition, fifteen semester hours must come from the following areas: courses in elementary and intermediate grammar, composition and advanced conversation; culture and civilization in the target language.

At least one course taken to meet the natural science requirements in General Education must include a laboratory component.
otherwise, a grade of "C" is the minimum acceptable grade.

EDF 1005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EDG 2040 Introduction to Educational Technology

(Equivalent course or demonstrated competency may be substituted)
Calculus and Analytic Geometry I, 4 semester hours
Calculus and Analytic Geometry II, 4 semester hours
Computer Programming Language (Microcomputer-based Fortran, Pascal, C or C++), 3 semester hours

At least one course taken to meet the natural science requirements in General Education must include a laboratory component.

ADMISSION REQUIREMENTS TO THE UNIVERSITY PROGRAM OF STUDY

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

Admission will require an overall GPA of 2.5 with a minimum score of 840 on the SAT (950 if taken after April 1, 1995) or 20 on the ACT. However, an overall 2.25 GPA will be acceptable with a minimum score of 940 on the SAT (1030 if taken after April 1, 1995) or 22 on the ACT. Official grade forgiveness will be used as appropriate.

Professional education courses taken at the community college will transfer as general electives.

Introduction/General Psychology and Sociology are recommended.

■ 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.

   • Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)
   Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured.
   If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, they must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.
   Students must complete the prerequisite courses listed below in order to be admitted to the upper-division major. Students who do not complete these prerequisites can be admitted to the University, but not to the upper-division major. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

   • Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)
   Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured.
   If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, they must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

EDF 1005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology

(Equivalent course or demonstrated competency may be substituted)

Biology Teacher Education:
Biology with Lab, 8 semester hours
Chemistry with Lab, 8 semester hours or Physics with Lab, 8 semester hours
Science electives, 6 semester hours

Chemistry Teacher Education:
Chemistry with Lab, 8 semester hours
Biology with Lab, 8 semester hours or Physics with Lab, 8 semester hours

Physics Teacher Education:
Physics with Lab, 8 semester hours
Biology with Lab, 8 semester hours or Chemistry with Lab, 8 semester hours

ADMISSION REQUIREMENTS TO THE UNIVERSITY PROGRAM OF STUDY

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

Admission will require an overall GPA of 2.5 with a minimum score of 840 on the SAT (950 if taken after April 1, 1995) or 20 on the ACT. However, an overall 2.25 GPA will be acceptable with a minimum score of 940 on the SAT (1030 if taken after April 1, 1995) or 22 on the ACT. Official grade forgiveness will be used as appropriate.

Professional education courses taken at the community college will transfer as general electives.

Introduction/General Psychology and Sociology are recommended.

■ 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:
   AFH 3100 or LAH 3200
   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 4334*, SSE 4334, and SSE 4640.
   *must be completed prior to SSE 4334 and SSE 4640.

   • Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)
   Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured.
   If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, they must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.
Students must complete the prerequisite courses listed below prior to being admitted to the upper-division major. Students who do not complete these prerequisites can be admitted to the University, but not to the upper-division major. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

EDF 1005: Introduction to Education
EDG 2701: Teaching Diverse Populations
EME 2040: Introduction to Educational Technology
(If taken after April 1, 1995, or 20 on the ACT. However, an overall 2.25 GPA will be acceptable with a minimum score of 940 on the SAT or 22 on the ACT. Official grade forgiveness will be used as appropriate.

Professional education courses taken at the community college will transfer as general electives.

Introduction/General Psychology and Sociology are recommended.

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 assessments, 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):

• 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 assessment 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 performance 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.

Music Education courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUE 2090 (3)</td>
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<td>MUE 3421 (1)</td>
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<td>MUE 3422 (1)</td>
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<td>MUE 3433 (3)</td>
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<td>MUE 4330 (3)</td>
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<td>MUE 4332 (3)</td>
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<td>MUE 4936 (3)</td>
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<td>MUE 4960 (9)</td>
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<tr>
<td>MUE 3450 (1)*</td>
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<td>MUE 4360 (1)**</td>
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<tr>
<td>MUE 3461 (1)</td>
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</table>

* This course also satisfies 3 hours of Historical Perspectives in the Liberal Arts Curriculum.
** This course also satisfies 3 hours of ALAMIA Perspectives in the Liberal Arts Curriculum.
*** Either course also satisfies 3 hours of Liberal Arts Exit Requirements in Major Works/Major Issues.

Applied Music (Principal) 12 cr. hrs. with a minimum of 4 hours at the 3000 level and concurrent registration in MUS 2010.

Music electives

<table>
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<tr>
<th>Course</th>
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<tr>
<td>MUL 2111 (3)**</td>
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<tr>
<td>MUG 3101 (2)</td>
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<tr>
<td>MUH 2051 (3)**</td>
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<tr>
<td>MUH 3301 (3)***</td>
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<tr>
<td>MUT 1111 (3)</td>
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<tr>
<td>MUT 1121 (3)</td>
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<td>MUT 1216 (3)</td>
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<tr>
<td>MUT 2117 (3)</td>
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<tr>
<td>MUT 2246 (1)</td>
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* This course also satisfies 3 hours of Historical Perspectives in the Liberal Arts Curriculum.
** This course also satisfies 3 hours of ALAMIA Perspectives in the Liberal Arts Curriculum.
*** Either course also satisfies 3 hours of Liberal Arts Exit Requirements in Major Works/Major Issues.

Music courses

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* This course also satisfies 3 hours of Historical Perspectives in the Liberal Arts Curriculum.
** This course also satisfies 3 hours of ALAMIA Perspectives in the Liberal Arts Curriculum.
*** Either course also satisfies 3 hours of Liberal Arts Exit Requirements in Major Works/Major Issues.

Music Education (Principal) (32-34 hours)

Piano proficiency requirement

Fine Arts Elective (3 hours)

Music Education majors must take 3 hours in the Art, Dance, or Theatre departments. Students should make certain that this 3-hour course is certified in the Fine Arts Perspectives of the Liberal Arts Curriculum in order to graduate within statutory limits/guidelines.

• 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: 11 hours
   - Music History (3)
   - Music Theory (8)

2. Optional Concentrations:
   a. History-Theory-Literature 9-10 hours
      - Music History and/or Theory and/or Literature (7-8)
      - Music Ensemble (2)
   b. Applied Music (Principal) 8-12 hours
      - Performance Studio courses which include up to 2 semester hours of class-studio (6-8)
      - Music Ensembles (2-4)
   c. Composition 9 hours
      - Music Ensemble (1)
      - Composition (2)
      - Introduction to Electronic Music (6)
      - Composition Studio courses which may include one course of orchestra
Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

Students should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Please be aware of the immunization, foreign language, and continuous enrollment policies of the university.

A music theory placement examination will be administered prior to initial registration in the music theory course sequence. Auditions for admission, level-ranking, and determination of USF credit hour requirements in applied study in the music performance program must be arranged through the School of Music. Secondary piano proficiency audition but credit hours are not required. Other secondary instruments will not apply toward performance or composition programs but may be applicable toward the Music Education degree (see Music Education program).

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade. If students are coming to the University from a community college, the following prerequisite courses will be accepted as meeting lower level requirements.

EDF 1005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology
(Equivalent course or demonstrated competency may be substituted.)

MUT 1111 Music Theory
or MUT 1121, 1122, 2126, or 2127
MUT 1112 Music Theory
or MUT 1121, 1122, 2126, or 2127
MUT 2116 Music Theory
or MUT 1121, 1122, 2126, or 2127
MUT 2117 Music Theory
or MUT 1121, 1122, 2126, or 2127
MUT 1241 Music Theory
or MUT 1121, 1122, 2126, or 2127
MUT 1242 Music Theory
or MUT 1121, 1122, 2126, or 2127
MUT 1244 Aural Theory
or MUT 1221, 1222, 2226, 2227, 1261, 2266, 2267, 1271, 1272, 2276, or 2277
MUT 1245 Aural Theory
or MUT 1221, 1222, 2226, 2227, 1261, 2266, 2267, 1271, 1272, 2276, or 2277
MUT 2246 Advanced Aural Theory
or MUT 1221, 1222, 2226, 2227, 1261, 2266, 2267, 1271, 1272, 2276, or 2277
MUT 2247 Advanced Aural Theory
or MUT 1221, 1222, 2226, 2227, 1261, 2266, 2267, 1271, 1272, 2276, or 2277
MVX 1X1X Secondary Applied Music Courses, 2-4 semester hours
MVX 2X2X Secondary Applied Music Courses, 2-4 semester hours
MUN XXXX Chamber Music Ensemble, 4 semester hours

Secondary Piano Proficiency by Examination
or MVK 1111, 1112, and 2122
or MVK 1111r, 1112r, 2121r, and 2121r
or MVK 1211 and 2221

ADMISSION REQUIREMENTS TO THE UNIVERSITY PROGRAM OF STUDY
Admission will require an overall GPA of 2.5 with a minimum score of 840 on the SAT (950 if taken after April 1, 1995) or 20 on the ACT. However, an overall 2.25 GPA will be acceptable with a minimum score of 940 on the SAT (1030 if taken after April 1, 1995) or 22 on the ACT. Official grade forgiveness will be used as appropriate.

Professional education courses taken at the community college will transfer as general electives.

Introduction/General Psychology and Sociology are recommended.

Music students must be accepted by audition in their performance area by the School of Music. A music theory placement examination will be administered prior to initial registration in the music theory course sequence.

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

(Under Revision)
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 Sport 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:**
   - BSC 3092 Human Anatomy & Physiology
   - HSC 2400 First Aid

2. **CORE COURSES FOR ALL TRACKS:**
   - PET 3010 Personal/Professional Development Seminar
   - PET 3310 Kinesiology
   - PET 3351 Exercise Physiology I

3. **ADDITIONAL REQUIRED COURSES FOR 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 3422 Instructional Design & Content: Movement Experiences
     - 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:**
   - [PTS]
     - EDF 3604 Social Foundations of Education
     - EDF 4430 Measurement for Teachers
     - EDF 4131 Learning and the Developing Adolescent
     - PET 3031 Motor Development & Assessment
     - PET 3421 Curriculum and Instruction in Physical Education
     - PET 3422 Instructional Design & Content: Movement Experiences
     - 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 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 I
     - 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 & Wellness
     - PEP 3940 Practicum in Health Promotion/Wellness
     - PEP 4941 Wellness Internship
     - PET 3951 Communications Skill for Wellness Leaders
     - 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

   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.

- **Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured.

If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, they must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students must complete the prerequisite courses listed below prior to be admitted to the upper-division major. Students who do not complete these prerequisites may be admitted to the University, but not to the upper-division major. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

- EDF 1005 Introduction to Education
- EDF 2701 Teaching Diverse Populations
- EME 2040 Introduction to Educational Technology

(Equivalent course or demonstrated competency may be substituted.)

The following courses are recommended to be completed before entering the programs:
- Anatomy & Physiology with Lab: 3-4 semester hours
- Care & Prevention of Athletic Injuries: 3-4 semester hours
- Anatomy & Physiology II with lab
- Skill Development courses in:
  - Conditioning, Fitness & Wellness courses: 4-5 semester hours
- Physical Activities

**ADMISSION REQUIREMENTS TO THE UNIVERSITY PROGRAM OF STUDY**

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

Admission will require an overall GPA of 2.5 with a minimum score of 840 on the SAT (950 if taken after April 1, 1995) or 20 on the ACT. However, an overall 2.25 GPA will be acceptable with a minimum score of 940 on the SAT (1030 if taken after April 1, 1995) or 22 on the ACT. Official grade forgiveness will be used as appropriate.

Introduction/General Psychology and Sociology are recommended.

**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 4609
- EDF 3214 EDF 3810 EDF 5136
- EDF 3228 EDF 4131 EDF 5285
- EDF 3542 EDF 4905 EDF 5672

The Counselor Education program offers undergraduate courses focusing on human services skill development, decision-making and personal growth. Course content contributes
to student success in academic and personal endeavors and may serve to orient students to post-graduate work in human services fields.

MHS 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. Since no teams start in the summer, there are no summer admissions. The program sequence must be 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 2010 EEX 4015 EEX 4846
RED 4310 LAE 4314 RED 4511

Mental Retardation (MR Certification)

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

EEX 2010 EEX 4015 EEX 4243
EMR 4941 EEX 4221 EEX 4604
MAE 4310 EEX 4846 EMR 4011
RED 4310 LAE 4314 RED 4511

Specific Learning Disabilities (LD Certification)

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

EEX 2010 EEX 4015 EEX 4243
ELD 4941 EEX 4221 EEX 4604
MAE 4310 EEX 4846 ELD 4011
RED 4310 LAE 4314 RED 4511

Program of Study at the Community College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

Students must complete the prerequisite courses listed below prior to be admitted to the upper-division major. Students who do not complete these prerequisites can be admitted to the University, but not to the upper-division major. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

EDF 1005 Introduction to Education
EDG 2701 Teaching Diverse Populations

EME 2040 Introduction to Educational Technology (Equivalent course or demonstrated competency may be substituted)

Students should also complete 15 hour beyond those taken to meet General Education Requirements from the following liberal arts and sciences areas: a) fine arts or humanities; b) political sciences, sociology, economics, cultural geography, or speech; c) mathematics; d) natural sciences: and/or e) psychology. Among these 15 hours must be included one course in mathematics, and combined with the General Education Requirements, two courses in the natural sciences, one of which must include a laboratory component.

ADMISSION REQUIREMENTS TO THE UNIVERSITY PROGRAM OF STUDY

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

Admission will require an overall GPA of 2.5 with a minimum score of 840 on the SAT (950 if taken after April 1, 1995) or 20 on the ACT. However, an overall 2.25 GPA will be acceptable with a minimum score of 940 on the SAT (1030 if taken after April 1, 1995) or 22 on the ACT. Official grade forgiveness will be used as appropriate.

Professional education courses taken at the community college will transfer as general electives.

Introduction/General Psychology and Sociology are recommended.

Majors are required to complete a concentration of 15 semester hours in one of five subject areas: English, Mathematics, Science, Social Sciences, or Foreign Language. Suggested courses are:

ENGLISH: Freshman English, Introduction to Speech, and 6 hours of literature, or
MATHEMATICS: General Education or higher . . . one STA prefix allowed, or
SCIENCE: Biology, Physics or Chemistry, and Earth Science (i.e. Astronomy, Geology), or
SOCIAL SCIENCE: American History I and II, Introduction of Sociology, American National Government, Geography, and General Psychology, or
FOREIGN LANGUAGE: Any 15 hours of a single foreign language.

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.

The 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 opportunities 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 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 and Wellness Programs. 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.

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.

EDUCATION FACULTY

Adult and Vocational Education

Chairperson: W. E. Blank; Professors: W. E. Blank, W. B. James; Associate Professors: R. Hill, J. Scaglione, K. Smith; Assistant Professor: T. Gardner; Visiting Instructors: J. Grisham, W. Helton, G. Kilpatrick; Other Faculty: T. Conrad, M. Paul.

Childhood/Language Arts/Reading Education


Educational Leadership


Educational Measurement and Research


Music Education

Director: C. P. Doane; Professor Emeritus: V. A. Bridges; Professors: C. P. Doane, J. J. Heller; Associate Professors: J. L. S. Moore, J. W. Richmond.

Physical Education


Psychological and Social Foundations


Secondary Education

EDUCATION COURSES

Adult Education

**ADE 4384 WORKING WITH THE ADULT LEARNER:**

**ADULT EDUCATION**

An investigation of the needs of the adult learner. Identification of principles of adult learning; physiological, psychological and social characteristics of adult learners, and corresponding implications are explored.

Art Education

**ARE 3044 EXPERIENTIAL BASIS OF ARTISTIC MIND**

PR: Admission to College of Education. Designed to awaken the language of image and metaphor, with emphasis on the internal and expressive aspects of art as well as their application in the schools and the community.

**ARE 3354 ART TEACHING STRATEGIES I**

PR: Admission to College of Education and ARE 3044. A combination of theory, philosophy and practice in both public and private learning centers to provide the student with a variety of teaching concepts and media exploration in art education and to further enable the student to understand stages of young people, three to eighteen.

**ARE 4112 EDUCATION THROUGH CRAFTS**

An in-depth study of arts and craft media for children. Emphasis will be placed on innovative use of new materials and curriculum in school restructuring.

**ARE 4440 ART TEACHING STRATEGIES II**

Media and the learning process will be explored through photographic arts, cinematography and video systems. Teaching strategies and media criticism for application at elementary and secondary levels.

**ARE 4443 CRAFTS WORKSHOP IN ART EDUCATION**

PR: Admission to College of Education and ARE 3044. The study and practice of processes and media involved with the exploration and expression of cultural traditions and individual ideas through crafts.

**ARE 4642 COMMUNITY ARTS**

PR: Admission to College of Education and ARE 3044. Explores the arts as infrastructure through identification, exploration and experimentation of/with unique community spaces, populations and new environments for and learning in the arts.

**ARE 4909 DIRECTED STUDY: ART EDUCATION**

PR: Senior standing. Designed to extend competency in field of art education.

**ARE 4936 SENIOR SEMINAR IN ART EDUCATION**


**ARE 4940 INTERNSHIP: ART EDUCATION**

CR: ARE 4936. One full semester of internship in a public or private school. In special programs where the internship experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 semester hours. (S/U only.)

Business and Office Education

**BTE 4401 SPECIAL TEACHING METHODS:**

**BUSINESS EDUCATION**

PR: Successful completion of BE competencies, or CI. Methods, techniques, and materials for skill development.

**BTE 4410 METHODS OF TEACHING: BUSINESS EDUCATION**

PR: Successful completion of BE competencies, or CI. Methods, techniques, and materials for instruction.

**BTE 4909 DIRECTED STUDY: BUSINESS EDUCATION**

PR: Senior standing. To extend competency in teaching field.

**BTE 4936 SENIOR SEMINAR IN BUSINESS AND OFFICE EDUCATION**

PR: Senior standing; CR: BTE 4940. Synthesis of teacher candidate's courses in complete college program.

**BTE 4940 INTERNSHIP: BUSINESS EDUCATION**

CR: BTE 4936. One full semester of internship in a public or private school. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 semester hours. (S/U only.)
strategies for utilizing literature to teach literacy in content areas of the curriculum.  

ECC 4230 PROGRAMS FOR YOUNG CHILDREN  
PR: Admission to College of Education. Develops students' understanding of programs in early childhood, philosophical orientations that guide program development, and components of high quality programs.  

ECC 4211 INTEGRATED CURRICULUM: SCIENCE AND MATHEMATICS  
PR: Admission to College of Education. Provides students with knowledge of beginning sequential science and mathematical concepts for the appropriate stages of cognitive development of young children. Emphasis will be placed on how science and mathematics are integrated throughout the curriculum and become valued functional tools.  

ECC 4212 INTEGRATED CURRICULUM: SOCIAL SCIENCES/ HUMANITIES & ARTS  
PR: Admission to College of Education. Emphasis is placed on understanding concepts associated with the major content areas within the social sciences. Planning, implementing, and evaluating appropriate learning experiences for children age 3 through grade 3 will link understanding to practice.  

ECC 4300 COGNITIVE EXPERIENCES FOR YOUNG CHILDREN  
PR: Admission to College of Education. Emphasizes theoretical and practical aspects of cognitive development for children ages 3 through 6 with focus on planning integrated experiences and content in science, mathematics, and social studies.  

ECC 4303 CREATIVE AND AFFECTIVE EXPERIENCES FOR YOUNG CHILDREN  
PR: Admission to College of Education. Develops students' understandings of young children's creative expression through art, music, movement, play, and drama. Emphasizes how to plan, implement, and evaluate appropriate learning experiences as well as selection of appropriate instructional materials.  

ECC 4401 CHILD, FAMILY & TEACHER RELATIONS  
PR: Admission to College of Education. Focuses on developing an understanding of traditional and non-traditional families, structural and life style variations and parenting in diverse cultures and at-risk families. Implications from these understandings will guide development of a parent involvement plan that includes effective ways to communicate with parents, conference with parents, and plan parent meetings and home visits.  

ECC 4906 LANGUAGE AND EMERGING LITERACY  
PR: Admission to College of Education. Provides knowledge of language development and emerging literacy for typical and atypical development in children from birth to third grade, including ESOL children.  

ECC 4905 INDEPENDENT STUDY: ELEMENTARY EARLY CHILDHOOD EDUCATION  
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)  

ECC 4909 DIRECTED STUDY: EARLY CHILDHOOD EDUCATION  
PR: Senior standing. To extend competency in teaching field.  

ECC 4940 INTERNSHIP: EARLY CHILDHOOD  
CR: ECC 4936. Teacher candidate is required to demonstrate professional competencies during one semester of full-day internship in a public or private elementary school and attend a weekly seminar. (SU only.)  

ECC 4941 FIELD EXPERIENCE I  
PR: Admission to College of Education. Field placement with three and four year olds where teacher candidates have opportunities to apply knowledge and skills in authentic situations and become objective observers of young children's development. Weekly seminars are conducted in conjunction with the field experience which provide teacher candidates an opportunity for reflection on their understandings.  

ECC 4942 FIELD EXPERIENCE II  
PR: Admission to College of Education. Field placement in kindergarten or primary grade where teacher candidates have opportunities to apply knowledge and skills in authentic situations. Emphasis on developing deeper understanding of children's development and implications of development for program planning for both typical and atypical children.
MUE 4210 MUSIC FOR THE CHILD (3)
PR: Admission to Elementary program. Music fundamentals; the development of music skills and knowledge of music materials and teaching strategies for presenting music to children in the elementary school.

RED 4310 EARLY LITERACY LEARNING (3)
PR: Admission to College of Education. Prepares preservice teachers to understand the foundations of literacy and the learning principles and instructional strategies necessary to provide literacy instruction to emergent, novice, and transitional readers and writers.

SCE 4310 TEACHING ELEMENTARY SCHOOL SCIENCE (3)
PR: Admission to College of Education and completion of General Distribution Requirements in the Natural Science area. Techniques and materials for teaching science in the elementary school.

SSE 4313 TEACHING ELEMENTARY SCHOOL SOCIAL STUDIES (3)
PR: Admission to College of Education or Ci. Methods of planning and teaching subjects related to the study of people and their relationships with other people and their environment.

English Education
LAE 4323 METHODS OF TEACHING ENGLISH: MIDDLE SCHOOL (3)
Whole language methods of integrating reading, writing, speaking, listening, viewing and critical thinking activities into a literature-based program for middle school students. Must be taken one or two semesters prior to internship. Recommended to be taken with LAE 4464.

LAE 4464 ADOLESCENT LITERATURE FOR MIDDLE AND SECONDARY STUDENTS - LAW (3)
PR: English Education majors or Ci. A study of the types of literature read by adolescents with an emphasis upon the criteria for the choice of good books and knowledge of available books and teaching materials. Recommended to be taken with LAW 4464 two semesters prior to internship.

LAE 4530 METHODS OF TEACHING ENGLISH: PRACTICUM (3)
PR: Senior standing or enrollment in Plan II Master's Program. Required concurrently with LAE 4325 or LAE 4642. Taken one semester (spring or fall) prior to internship.

LAE 4642 METHODS OF TEACHING ENGLISH: HIGH SCHOOL (3)
PR: LAE 4464. Whole language methods of integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature-based program for high school students. Must be taken one semester prior to internship with LAE 4530.

LAE 4936 SENIOR SEMINAR IN ENGLISH EDUCATION (2)

LAE 4940 INTERNSHIP: ENGLISH EDUCATION (1-12)
One full semester of internship in a public or private school. Intern takes Senior Seminar in English Education concurrently. In special programs where the internship experience is distributed over two or more semesters, student will be registered for credit which accumulates from 9 to 12 semester hours. (SIU only)

LAE 5932 SELECTED TOPICS IN THE TEACHING OF ENGLISH (3)
PR: Certification in English and/or Mass Communications and approval of graduate advisor. Investigation of topics which are of special interest to the student and are related to the teaching of English in the secondary school. Topics will be selected by the student in accordance with his particular goals and will be approved by the student's graduate advisor.

Foreign Language Education
FLE 4314 FOREIGN LANGUAGE TEACHING IN THE ELEMENTARY SCHOOL (3)
PR: EDG 4620 or concurrent registration, and fluency in target language and in English. Methods of planning and teaching foreign languages in the elementary school. The emphasis is on teaching communicatively and on integrating culture in the K-6 classroom.

FLE 4333 FOREIGN LANGUAGE TEACHING IN THE SECONDARY SCHOOL (3)
PR: FLE 4314, and fluency in the target language and in English. Methods of teaching foreign languages within a communicative framework. Includes examination and practice of current instructional techniques in listening, speaking, reading and writing skills, testing, error correction, and computer assisted language instruction. The emphasis is on teaching foreign languages and teaching for cultural understanding at the secondary level 7-12.

FLE 4370 PRACTICUM IN FOREIGN LANGUAGE TEACHING IN THE SECONDARY SCHOOL (3)
PR: Senior standing or enrollment in Plan II Master's Program (or CC). Required concurrently with FLE 4333. Fluency in the target language and in English. Preinternship field experience in a K-12 environment. Will include observation and practice in a K-12 classroom as well as class meetings.

FLE 4909 SENIOR SEMINAR IN FOREIGN LANGUAGE EDUCATION (2)

FLE 4936 INTERNSHIP: FOREIGN LANGUAGE EDUCATION (1-12)
One full semester of internship in a public or private school. Intern takes Senior Seminar in Education concurrently. (SI U only)

Education -- General
EDG 4909 DIRECTED STUDIES (3)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

Industrial and Technical Education
EIA 3192 TECHNOLOGY EDUCATION AND SOCIETY (4)
Introduction to programs, facilities and opportunities in teaching technology education. Includes historical, current and futuristic implications of technology in society.

EIA 4360 SPECIAL TEACHING METHODS: TECHNOLOGY EDUCATION (3)
Equips Technology Education instructors with professional competencies for classroom and laboratory settings. Includes the selection of appropriate methods, planning, and delivery of instruction, along with supervision of students in laboratory areas.

EIV 4210 PROGRAM MANAGEMENT: INDUSTRIAL-TECHNICAL EDUCATION (4)
Planning, organizing, motivating and controlling of the learning environment in Industrial-Technical Education Classroom and Laboratories. Program standards for OSHA, program review, record keeping, and budgeting will be examined.

EIV 4314 METHODS OF TEACHING: DIVERSIFIED COOPERATIVE TRAINING (3)
Methods, techniques, and materials for instruction. This course specializes in Diversified Cooperative Training.

EIV 4360 SPECIAL TEACHING METHODS: INDUSTRIAL-TECHNICAL EDUCATION (4)
PR: ETV 4365 or CI. Instructional techniques in industrial-technical education. Vocational Industrial Clubs of America activities may be included.

EIV 4390 PROGRAM MANAGEMENT: DIVERSIFIED COOPERATIVE TRAINING (3)
Organization, coordination, and budgeting of adult, cooperative, and special programs.

ETV 4065 HISTORY AND PRINCIPLES OF VOCATIONAL EDUCATION (4)
An overview of current policies and principles in vocational education including their historical, sociological, and philosophical bases. Open to majors and non-majors.

ETV 4084C PROFESSIONAL DEVELOPMENT IN INDUSTRIAL-TECHNICAL EDUCATION (1-3)
Designed for the ITE teacher in forming plans of professional
The development of selected instructional materials, use of
projects vary.

This course is an approach to identifying, assessing, and
will
CR ; EVT 4936 .

semester hours .

issue .(S/U
offices, social agencies, businesses and industries on
place .

Issues related to gender equity in schools and the
needs of minority, handicapped, disadvantaged,
and economic factors ; males and females in traditional and
non-traditional occupations.

PR: Cl. Specialized independent study determined by the
student's needs and interests. May be repeated when sub-
jects vary. (S/U only.)

PR: Senior standing. To extend competency in teaching
field. Offered only as a scheduled class.

PR: Senior standing; CR: EVT 4940. Synthesis of teacher
candidate's courses in complete college program.

CR: EVT 4936. One full semester of internship in a public or
private school. In special programs where the intern experi-
ence is distributed over two or more semesters, students will
be registered for credit which accumulates from 9 to 12
semester hours. (S/U only.)

CR: EVT 4936. One full semester of internship in a public or
private school. In special programs where the intern experi-
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be registered for credit which accumulates from 9-12
semester hours. (S/U only.)

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private school. In special programs where the intern experi-
ence is distributed over two or more semesters, students will
be registered for credit which accumulates from 9-12
semester hours. (S/U only.)

CR: EVT 4936. One full semester of internship in a public or
private school. In special programs where the intern experi-
ence is distributed over two or more semesters, students will
be registered for credit which accumulates from 9-12
semester hours. (S/U only.)
be repeated for a total of 2 credit hours.

MUE 3461 ADVANCED WOODWIND TECHNIQUES (1)
PR: Sophomore standing, woodwind instrument major or MUE 3450. The course develops knowledge and skills dealing with advanced principles of teaching and performing on woodwind instruments.

MUE 3461 ADVANCED BRASS TECHNIQUES (1)
PR: Sophomore standing, brass instrument major or MUE 3460. The course develops knowledge and skills dealing with advanced principles of teaching and performing on all brass instruments.

MUE 4210 MUSIC FOR THE CHILD (3)
PR: Admission to the College of Education. Music fundamentals, the development of music skills and knowledge of music, music appreciation and other musical activities as they relate to a comprehensive music curriculum in Grades K-6.

MUE 4311 FOUNDATIONS OF ORGANIZATION AND DEVELOPMENT IN THE SCHOOL (3)
PR: A study of principles, techniques, materials, and activities as they relate to a comprehensive music curriculum in Grades K-6.

MUE 4350 CLASSROOM MUSIC IN THE ELEMENTARY SCHOOL (3)
PR: Development and implementation of methods and techniques for teaching music to children in the elementary school.

MUE 4351 MUSIC IN THE ELEMENTARY SCHOOL (3)
PR: CL. Development and implementation of methods and techniques for teaching music to children not participating in secondary school music performing groups.

MUE 4353 CHORAL METHODS IN THE ELEMENTARY SCHOOL (3)

MUE 4352 FOUNDATIONS OF CHORAL MUSIC (2)
This course deals with the development of knowledge and skills needed to effectively organize and teach a choral music program for elementary and intermediate grade level students. Include school observation and participation component. Major status or instructor permission required.

MUE 4353 FOUNDATIONS OF ORGANIZATION AND DEVELOPMENT IN THE SCHOOL (3)

MUE 4354 FOUNDATIONS OF INSTRUMENTAL MUSIC (2)
PR: CL. MUE 3450, MUE 3460, MVP 1211. Junior standing. Introduction to the foundation of instrumental music instruction in the elementary and middle school.

MUE 4420 MARCHING BAND TECHNIQUES (2)
PR: Junior standing. This course is required of instrumental music education majors. It will provide the student with the needed skills in creating for and teaching the public school marching band.

MUE 4909 DIRECTED STUDY: MUSIC EDUCATION (1-3)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

MUE 4936 SENIOR SEMINAR IN MUSIC (3)

MUE 4940 INTERNSHIP: MUSIC EDUCATION (1-12)
CR MUE 4936. One full semester of internship in a public or private school. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9-12 semester hours. (S/U only.)

Physical Education -- Elective

HLP 3081 PERSONAL WELLNESS: A LIFETIME COMMITMENT (3)
An examination of the bases for adopting a positive health lifestyle with a major emphasis on diet, weight management, physical fitness, stress management, and substance abuse management.

PEL 1121 GOLF (2)
Introduction to the sport of golf. Fundamental skills, information, strategy, and participation. (S/U only.)

PEL 1341 TENNIS I (2)
Introduction to the sport of tennis. Basic skills, playing strategies, lecture, demonstration, and participation. (S/U only.)

PEL 1346 BADMINTON (2)
Progressive experiences in badminton, fundamental skills, strategy, information and participation. (S/U only.)

PEL 2122 GOLF II (2)
Continuation of PEL 1121. Emphasis on course play and refinement of strategies. (S/U only.)

PEL 2221 VOLLEYBALL (2)
Review and refinement of fundamental skills, presentation and practice of the various offensive strategies. (S/U only.)

PEL 2342 TENNIS II (2)
Continuation of PEL 1341L. Refinement of basic skills, supplementary strokes, greater emphasis on tactics and playing strategies. (S/U only.)

PEL 2441 RACKETBALL (2)
Development and refinement of the skills and strategies of Racketball with opportunity for competition and tournament play. (S/U only.)

PEL 2621 BASKETBALL (2)
Review and refinement of fundamental skills, presentation and practice of the various offensive and defensive strategies. (S/U only.)

PEM 2116 STRENGTH AND AEROBIC DEVELOPMENT (2)
Strength development activities combined with aerobic training for individual improvement. (S/U only.)

PEM 2311 WEIGHT TRAINING (2)
Knowledge and techniques necessary for increasing muscle function. Assessment of status and development of a personal program (S/U only.)

PEM 2141 JOGGING (2)
Introduction to the knowledge and techniques necessary for increasing cardiorespiratory efficiency. Assessment of status and development of a personal program. (S/U only.)

PEM 2441 KARATE (2)
Introductory experiences in the sport of Karate. Fundamental skills, strategy, information, and participation. (S/U only.)

PEM 2530 SELECTED TOPICS (1-2)
Activities offered are selected to reflect student need and faculty interest. May be repeated up to 6 hours. (S/U only.)

PEN 1121 SWIMMING I (2)
Development and refinement of the essential skills and information necessary for enjoying swimming. Emphasis on personal safety. (S/U only.)

PEN 2113 LIFEGUARD TRAINING (2)
PR: PEN 2122 or equivalent. Knowledge and skills necessary for saving the lives of others in the event of aquatic emergency. ARC certification offered. (S/U only.)

PEN 2122 SWIMMING II (2)
PR: PEN 1121 or equivalent. Continuation of PEN 1121. Special emphasis on development of endurance and efficient stroke. (S/U only.)

PEN 2136 SKIN & SCUBA DIVING (2)
PR: PEN 2172 or equivalent. Development of the essential skills and knowledge necessary for enjoying the sport of Skin & Scuba Diving. Correct utilization and care of equipment; emphasis on personal safety. (S/U only.)

PET 3831 SELECTED TOPICS (1-3)
Topics offered are selected to reflect student need and faculty interest. May be repeated up to 9 credit hours. (S/U only.)

Professional Physical Education

HLP 4941 WELLNESS INTERNSHIP (15)
PR: CC. Completion of all curriculum requirements. Supervised performance in adult fitness and/or wellness programs. Full semester on-site. Open to Wellness Leadership Physical Education Majors only. (S/U only.)

HSC 2400 FIRST AID (2)
Meets the American Red Cross certification requirements in standard and advanced first aid.

PEP 3840 PRACTICUM IN HEALTH PROMOTION/WELLNESS (4)
PR: CI. Completion of Semesters I and II and admission to the College of Education. Practical experience as a professional in a community or worksite health promotion or wellness program. (S/U only.)
PR: Red Cross beginning swimmer's skills or equivalent. Includes analysis of swimming skills, teaching methodology, conducting class activities, and organizing and conducting aquatic programs. (2)

PET 3170 AQUATIC EXERCISE
PR: CC. An instructor training course in aquatic exercise. Focuses on teaching aerobic, strength, flexibility, and weight control exercises performed in swimming pools. Open to non-majors. (2)

PET 2010 PERSONAL/PROFESSIONAL DEVELOPMENT SEMINAR
PR: CC. Identification of personal and professional knowledge, skills, and attitudes necessary for successful professional practice of physical educators and wellness leaders. Introduction to career opportunities and the historical, philosophical, and technical foundations of the profession. Development of a personal-professional development plan. Field work required. Majors only. (3)

PET 2822C CARE AND PREVENTION OF PHYSICAL INJURIES
Principles and techniques of conditioning athletes for competition; prevention and care of injuries in physical education and athletic activities. (2)

PET 3031 MOTOR DEVELOPMENT AND ASSESSMENT
PR: CC. Study of the assessment, evaluation and motor development performance of children and adolescents and application of principles of motor skills acquisition in physical education instruction. Open to non-majors. (3)

PET 3080 SURVEY OF WELLNESS PROGRAM
PR: CC. An analysis of various types of wellness programs in the public and private sector including community-based programs, commercial health and fitness enterprises, government-based programs, corporate-based programs, and hospital health and fitness centers. (3)

PET 3310 KINESIOLOGY
PR: CC. A study of the structure and function of the skeletal and muscular systems and of mechanical principles related to psycho-motor performance. Open to non-majors. (3)

PET 3351 EXERCISE PHYSIOLOGY I
PR: CC. A study of the effects of physical activity on the body. Topics include acute and chronic adaptation of the cardiovascular, muscular, metabolic, hormonal, and energy systems to exercise. Open to non-majors. (3)

PET 3421 CURRICULUM AND INSTRUCTION IN PHYSICAL EDUCATION
PR: CC. Development of knowledge and skills related to the instruction process of physical education. Preparation of materials and planning instruction. (3)

PET 3422 INSTRUCTIONAL DESIGN AND CONTENT: MOVEMENT EXPERIENCES
PR: CC. This course develops a variety of motor skills and includes the study of systems for analyzing movement. It prepares students to plan and conduct movement experiences in a wide variety of educational settings. (3)

PET 3441 INSTRUCTIONAL DESIGN AND CONTENT: MIDDLE SCHOOL PHYSICAL EDUCATION
PR: CC. The development of physical education content and instructional practices for middle school students. The focus is upon matching appropriate content and learning experiences to the unique needs of the pre- and early adolescent learner. (3)

PET 3640 ADAPTED PHYSICAL EDUCATION
PR: CC. A study of characteristics, programming needs and planning of physical education for students with disabilities. (3)

PET 3799 CAREER DECISION-MAKING AND PROFESSIONAL ETHICS
PR: CC. Teacher certification career decision-making activities. Monitor and continue personal-professional development plan developed in previous semester. Ethical practices for teachers. Taken concurrently with PET 3943. (1)

PET 3943 PHYSICAL EDUCATION INTERNSHIP: MIDDLE SCHOOL
PR: CC. A part-time internship in middle school physical education. Focus on the relationship of physical education to the needs of the pre- and early adolescent learner, the organization and purpose of the middle school, and application appropriate content and methodologies. (4)

PET 4088 HEALTH, SAFETY, NUTRITION AND MOTOR SKILLS FOR THE YOUNG CHILD
PR: CC. A part-time internship in early childhood education. Provides an introduction to the teaching of developmentally appropriate motor activities; to provide continuous health services; to create and maintain a healthy learning environment; and sequence appropriate health instruction for Pre-K through 3rd grade students. (3)

PET 4142 TRENDS AND TASKS - SECONDARY PHYSICAL EDUCATION
PR: CC. Current trends are evaluated from a historical and philosophical perspective. Non-teaching tasks are identified as part of the professional role. Evaluate and continue personal-professional development plan developed in previous semesters. Taken concurrently with Physical Education Internship: Elementary. Physical Education Majors only. (1)

PET 4304 PRINCIPLES AND ISSUES IN COACHING
The application of principles from philosophy, psychology, sociology, and physiology to competitive athletics and coaching. (3)

PET 4353 EXERCISE PHYSIOLOGY II
PR: CC. & PET 3352. A study of Exercise Physiology focusing on the adult. Includes specific populations such as the obese, heart patients, arthritics, elderly, and high performance athletes. Open to non-majors. (3)

PET 4384 HEALTH-FITNESS APPRAISAL & EXERCISE PRESCRIPTION
PR: CC. & PET 3352. Techniques in conducting health-fitness test and exercise prescription for adults. Includes cardiovascular strength, flexibility, body composition, health risk testing, exercise prescribing, and monitoring. Open to non-majors. (3)

PET 4401 ORGANIZATION & ADMINISTRATION OF PHYSICAL EDUCATION PROGRAMS
PR: CC. A study of organizational and administrative procedures for physical education programs in elementary and secondary schools. Includes scheduling, budget, facilities, extra-curricular programs, and the selection and supervision of staff. (3)

PET 4404 ORGANIZATION & ADMINISTRATION OF WELLNESS PROGRAMS
PR: CC. Design and implementation of various types of wellness programs with emphasis on assessment and evaluation, management, staffing, participant adherence, program design, budgeting, legal liability, and marketing. (3)

PET 4432 INSTRUCTIONAL DESIGN AND CONTENT: PHYSICAL EDUCATION ELEMENTARY I
PR: CC. This is the second of a three-course sequence in which students study movement forms and instructional processes suitable for elementary age students. (3)

PET 4433 INSTRUCTIONAL DESIGN AND CONTENT: PHYSICAL EDUCATION ELEMENTARY II
This course prepares students to select, plan, conduct complex movement experiences for students K-6. (3)

PET 4442 INSTRUCTIONAL DESIGN AND CONTENT: PHYSICAL EDUCATION SECONDARY
PR: CC. Development of knowledge and skills related to the teaching of selected movement activities such as team sports, gymnastics, and physical fitness. Focus is on understanding mechanical principles utilized within those activities as well as on instructional progression and the prepara-
tion of materials for instruction at the secondary school level.

PET 4443 INSTRUCTIONAL DESIGN AND CONTENT: PHYSICAL EDUCATION SECONDARY (3)
PR: CC. In this course, students are prepared to plan, conduct, and evaluate complex movement experiences in games, dance, gymnastics and physical fitness appropriate for students.

PET 4905 INDEPENDENT STUDY: PROFESSIONAL PHYSICAL EDUCATION (1-4)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

PET 4933 SENIOR SEMINAR IN SECONDARY PHYSICAL EDUCATION (3)

PET 4934 SENIOR SEMINAR IN ELEMENTARY PHYSICAL EDUCATION (3)
PR: CC. Synthesis of teacher candidate's course in complete college program. Reflective evaluation of teaching experience. Required concurrently with Associate Teaching in Physical Education: Elementary. Physical Education Majors only.

PET 4942 PHYSICAL EDUCATION INTERNSHIP: ELEMENTARY (4)
PR: CC. A part-time internship in elementary school physical education. Focus on the nature of the total elementary school curriculum, characteristics of students, and application of appropriate content and instructional competencies. (S/U only.)

PET 4944 PHYSICAL EDUCATION INTERNSHIP: SECONDARY (4)
PR: CC. A part-time internship in high school level physical education with focus on the relationship of physical education to the needs of the early adolescent and the implementation of appropriate content and methodology. (S/U only.)

PET 4946 ASSOCIATE TEACHING PHYSICAL EDUCATION: ELEMENTARY (12)
PR: CC. A full-time internship in the elementary school in which the student undertakes the full range of teaching responsibilities in elementary physical education. May not be repeated. (S/U only.)

PET 4947 ASSOCIATE TEACHING PHYSICAL EDUCATION: SECONDARY (12)
PR: CC. A full-time internship in middle, junior or senior high school physical education programs with focus on the implementation of appropriate content and methodology to meet the needs of secondary students. (S/U only.)

Psychological and Social Foundations

EDF 3133 LEARNING AND THE DEVELOPING CHILD (4)
PR: General psychology and admission to College of Education. Preadolescent child development and learning, theory, and behavioral analysis applied to instruction and to the organization and management of classroom.

EDF 3214 HUMAN DEVELOPMENT AND LEARNING (3)
PR: General psychology and admission to College of Education. Application of respondent and operant learning principles to classroom learning, teaching models for different instructional goals, analysis of teacher behavior, micro-teaching.

EDF 3228 HUMAN BEHAVIOR AND ENVIRONMENTAL SELECTION -6A-XMW (3)
Learning principles, behavior analysis applied to global environmental and social issues. Requires elementary computer word processing skills.

EDF 3542 PHILOSOPHY OF EDUCATION -XMW (4)
PR: Upper level standing. A study of philosophy of education with an emphasis on aspects that are relevant to an understanding of the issues and problems of American education.

EDF 3604 SOCIAL FOUNDATIONS OF EDUCATION -XMW (3)
Social, economic and political context within which schools function and the values which provide direction for our schools; the culture as a motivating influence in instruction.

EDF 4131 LEARNING AND THE DEVELOPING ADOLESCENT (4)
PR: General psychology and admission to College of Education. Adolescent growth and development, learning theory, and behavioral analysis applied to instruction and to the organization and management of the classroom.

EDF 4905 INDEPENDENT STUDY: EDUCATIONAL FOUNDATIONS (1-4)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

EDF 4939 DIRECTED STUDY: EDUCATIONAL FOUNDATIONS (1-3)
PR: Senior Standing. To extend competency in teaching field. Offered only as a scheduled class.

EDF 5136 ADOLESCENCE (4)
Study of the educational, intellectual, personality, physical, social and vocational factors in adolescence and their relationship to the school counseling program.

EDF 5285 PROGRAMMED INSTRUCTION AND TEACHING MACHINES (3)
Principles for programming in the several academic subjects.

EDF 5672 AMERICAN DEMOCRACY AND PUBLIC EDUCATION (3)
Interdependence of the public school and democracy in the United States and the responsibility of the school in fostering and strengthening basic democratic principles.

IDS 3115 VALUES AND CHOICES -6A-XMW (3)
An in-depth examination of ethical values and their relationship to choices in contemporary society using historical perspective and inquiry of moral/ethical dilemmas. Available to majors or non-majors.

MHS 4001 INTRODUCTION TO GUIDANCE PROCESSES (3)
PR: Upper level standing. An introduction to the role and function of guidance, school psychology, social work and other pupil personnel services. Opportunities for increasing self-awareness.

MHS 4052 HUMAN RELATIONS SKILLS IN COUNSELING -XMW (4)
PR: EGQ 4001 or Cl. Introduction to the theory of human relations and development of skills required for effective interpersonal relations. Lecture sessions and laboratory training.

MHS 4905 INDEPENDENT STUDY: GUIDANCE AND COUNSELING EDUCATION (1-4)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

SDS 4040 INTRODUCTION TO STUDENT PERSONNEL WORK IN HIGHER EDUCATION (2)
PR: CI. Study of student personnel services in institutions of higher education, identification of the needs of students and of the ways to respond to meet these needs. Survey of service units on a campus in terms of structure, organization, funding, etc.

SLS 1101 THE UNIVERSITY EXPERIENCE (2)
PR: Freshman only or Cl. An extended introduction to orientation to USF. Topics include purposes of higher education, structure and function of USF, overview of the processes of career planning and selecting a major, study skills, and managing out-of-class time.

SLS 2401 CAREER DEVELOPMENT PROCESS (2)
Students will study vocational choice theories and participate in career decision processes. Development of self-awareness, knowledge of career opportunities and requirements, necessary for decision making. Available to lower level majors or non-majors.

Reading Education

RED 4511 LITERACY IN THE INTERMEDIATE AND MIDDLE GRADES (3)
PR: RED 4310. Prepares preservice teachers to facilitate literacy learning for students who are beyond the primary
grades. Students will develop an understanding of instructional strategies and materials appropriate for remedial, multicultural, and mainstream students to promote literacy development across the curriculum, and theories of reading disabilities.

Science Education

SCE 4327 SCIENCE, TECHNOLOGY, SOCIETY INTERACTION - XMW (4) Achieve a historical and philosophical understanding of (1) the nature of the scientific enterprise: interaction of science, technology, and society (STS), (2) how to teach STS including the use of computers and related technologies, and (3) intricacies of sample STS topics.

SCE 4930 COMMUNICATION SKILLS IN THE SCIENCE CLASSROOM (2) Reading and communication skills important in understanding scientific literature and communicating findings to others.

SCE 4320 TEACHING METHODS IN MIDDLE GRADE SCIENCE (3) PR: Completion of 25 semester hours of Science or CC. Survey techniques and materials unique to science, grades 5-9. Not designed for high school certification purposes.

SCE 4330 TEACHING METHODS IN THE SECONDARY SCHOOL SCIENCES (3) PR: Completion of 26 hours in approved science areas, EDG 4620 (or CR), and CC. Techniques and materials of instruction in secondary school sciences.

SCE 4936 SENIOR SEMINAR IN SCIENCE EDUCATION (1) PR: Senior standing; CR: SCE 4940. Synthesis of teacher candidate's courses in complete college program.

SCE 4940 INTERNSHIP: SCIENCE EDUCATION (1-12) CR: SCE 4936. One full semester of internship in a public or private school.

SCE 4937 SELECTED TOPICS IN SCIENCE EDUCATION (1-4) May be repeated when topics are not duplicated.

Social Science Education

SSE 4333 TEACHING MIDDLE GRADE SOCIAL SCIENCE (3) This introductory course is concerned with the identification of the major content areas selected from the various social sciences. Topics related to selecting, organizing, and sequencing teaching materials and methods related to the unique problems of teaching teenage youth are studied. Field work is required.

SSE 4334 SECONDARY SOCIAL SCIENCE EDUCATION TEACHING METHODS (3) PR: SSE 4333. This course is designed to identify and study selected techniques and strategies used in social science education instruction and prepare the student for the teaching profession. Emphasis is placed upon the learner's ability to demonstrate skill in selecting methods, techniques, materials, and evaluative forms. Field work is a requirement.

SSE 4380 GLOBAL AND MULTICULTURAL PERSPECTIVES IN EDUCATION - XMW (3) PR: EDG 3604 and EDG 4620, or CC. Examination of the major issues surrounding global and multicultural perspectives in education (Available to non-Education majors.)

SSE 4640 COMMUNICATION SKILLS IN THE SOCIAL STUDIES (2) PR: CC. Specialized independent study determined by the student's needs and interests. Learners will demonstrate competence in various social studies communications skills. (S/U only.)

SSE 4670 ECONOMICS USA: PRINCIPLES OF ECONOMICS FOR TEACHERS (3) A revision course focusing on content and teaching methodology related to micro/macro economic principles. (S/U only.)

SSE 4936 SENIOR SEMINAR IN SOCIAL SCIENCE EDUCATION (2) PR: Senior standing; CR: SSE 4940. Synthesis of teacher candidate's courses and preparation for the professional interview and application process.

SSE 4940 INTERNSHIP: SOCIAL SCIENCE EDUCATION (1-12) CR: SSE 4936. One full semester of internship in a public or private school. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 Semester hours. (S/U only.)

SSE 5544 ECONOMIC DECISION-MAKING FOR TEACHERS (3) PR: Admission to the College of Education or CC. Provides teachers (K-12) with content related to the operation of businesses in a market economy. Teachers analyze economic/business concepts from the perspective of individuals currently operating businesses in the Tampa Bay area. Focus of the instruction is on the application of content to K-12 instructional programs.

Special Education

EED 4011 INTRODUCTION TO BEHAVIOR DISORDERS (3) PR: EEX 2010, or equivalent or CI. Survey of emotional, behavioral and social disorders in children and youth. History of the field, definitions, classifications, theoretical approaches, intervention techniques, classroom management, service delivery models, trends and issues.

EED 4905 INDEPENDENT STUDY: BEHAVIOR DISORDERS (1-3) PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated up to a maximum of 3 credit hours when subjects vary. (S/U only.)

EED 4908 DIRECTED STUDY: BEHAVIOR DISORDERS (1-3) PR: Senior standing. To extend competency in teaching field.

EED 4941 UNDERGRADUATE SUPERVISED PRACTICUM IN BEHAVIOR DISORDERS (1-6) PR: EEX 2010 and major in behavior disorders. Supervised field experience in assessment, classroom management, and clinical teaching with children who have emotional and behavioral disabilities. Repeatable up to 6 credit hours. (S/U only.)

EEX 2010 INTRODUCTION TO SPECIAL EDUCATION (3) Characteristics and needs of children who have learning disabilities, emotionally disturbances, hearing impairments, mentally retardation, physically handicaps, speech impairments, visual limitations, and who are gifted and talented.

EEX 4015 NARRATIVE PERSPECTIVES ON EXCEPTIONALITY: CULTURAL AND ETHICAL ISSUES - 6A - XLW (3) This course is designed to use literature as a way to interpret the lives of individuals with disabilities, their families and those who play an educational role in their lives. The course also addresses cultural and ethnic diversity so as to better analyze the role of ethnicity and values in education made pertaining to individuals with disabilities.

EEX 4070 INTEGRATING EXCEPTIONAL STUDENTS IN THE REGULAR CLASSROOM (2-3) Designed for non-special education majors. Includes basic identification techniques and strategies to promote academic and social integration and interaction of "mainstreamed" exceptional students. Concurrent field experience projects are included. No credit for department majors.

EEX 4221 EDUCATIONAL ASSESSMENT OF EXCEPTIONAL STUDENTS (3) PR: EDF 3214 and EEX 2010. Taken concurrently with EED 4941, ELD 4941, or EMR 4941. Introduction to assessment of exceptional students through formal and informal techniques. Emphasis placed on the interpretation of information for educational programming and individualization of instruction.

EEX 4243 EDUCATION OF THE EXCEPTIONAL ADOLESCENT AND ADULT (3) PR: EEX 2010 or equivalent or CI. Procedures for implementing educational programs for exceptional adolescents and adults. Topics include service delivery, curriculum, academic remediation, advocacy, utilization of ancillary services, alternative programs, and community resources.

EEX 4604 BEHAVIOR MANAGEMENT FOR SPECIAL NEEDS AND AT RISK STUDENTS (3) PR: EEX 2010. Taken concurrently with EED 4941, ELD
4941, or EMR 4941. Techniques to prevent, analyze, and manage challenging and disruptive classroom behavior as well as teaching social skills.

EEX 4846 CLINICAL TEACHING IN SPECIAL EDUCATION (3)
PR: EEX 2010. Taken concurrently with EED 4941, ELD 4941, or EMR 4941. Effective teaching principles, instructional management procedures, and specialized teaching techniques for exceptional students.

EEX 4905 INDEPENDENT STUDY: EXCEPTIONAL STUDENT EDUCATION (1-3)
PR: Cl. Specialized independent study determined by the student's needs and interests. May be repeated up to 3 credit hours when subjects vary. (S/U only.)

EEX 4909 DIRECTED STUDY: EXCEPTIONAL STUDENT EDUCATION (1-3)
PR: Senior standing. To extend competency in teaching field. Repeatable up to 3 credit hours.

EMR 4011 INTRODUCTION TO MENTAL RETARDATION (3)

EMR 4230 EDUCATING THE SEVERELY/PROFOUNDLY HANDICAPPED (3)
PR: EMR 3011 or Cl. Emphasis on educational methods and materials for teaching students with severe/profound handicaps. Practicum/field experience linkage.

EMR 4905 INDEPENDENT STUDY: MENTAL RETARDATION (1-3)
PR: Cl. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

EMR 4909 DIRECTED STUDY: MENTAL RETARDATION (1-3)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

EMR 4941 UNDERGRADUATE-SUPERVISED PRACTICUM IN MENTAL RETARDATION (1-6)
PR: EEX 2010 and major in Mental Retardation. Supervised field experiences in assessment, behavior management, and clinical teaching with children who have mental retardation. Repeatable up to a total of 6 hours credit. (S/U only.)

EPH 5051 ADVANCED THEORIES IN MOTOR AND PHYSICAL DISABILITIES (3)
PR: EEX 2010 or Cl. Biological and functional aspects of motor and physical health disabilities, including dysfunctions in central nervous system covering motor, sensory, language and psychological disorders.

EPH 5321 EDUCATIONAL STRATEGIES FOR PHYSICALLY AND MULTIHANDICAPPED STUDENTS (3)
PR: EPH 5051. Educational management of students with cerebral palsy, motor disabilities and multihandicapped conditions including rehabilitation and other community services.

Theatre Education

EDG 4320 INTRODUCTION TO CREATIVE DRAMA (3)
This course for classroom teachers introduces the theory and practice of creative drama as it applies to use by elementary, middle school and secondary school teachers. Beginning with a study of dramatic play as it relates to human development, the course includes basic strategies when using pantomime, voice improvisation, theatre games, and role playing and story dramatization.

THE 4722 THEATRE FOR PRE-SECONDARY SCHOOLS: THE PRODUCTION PROCESS (3)
The play production process as it applies to theatre art-in­schools programs, including development of related classroom workshops and preparation of study guides, and educational program materials as well as design, direction and rehearsal of play and tourning methods. May be repeated for elective credit two times; once for major credit.

THE 4723 THEATRE FOR PRE-SECONDARY SCHOOLS: THE PERFORMANCE PROCESS (3)
The artistic process of performing for various school audiences and practice conducting classroom workshops following each performance. May be repeated for elective credit two times; once for major credit.

THE 4761 METHODS OF TEACHING THEATRE FOR ADOLESCENTS (3)
Methods of effective drama and theatre instruction in middle school, junior and senior high schools, recreation centers, community and professional theatres.
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 meet the diverse requirements of the future, covering the two areas of: Professional Engineering and Applied Science. The specific degrees and services offered are as follows:

- Bachelor of Science in Chemical Engineering (B.S.Ch.E.)
- 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 programs of the College of Engineering defined by the Chemical Engineering, Computer Engineering, Electrical Engineering, Industrial Engineering, and Mechanical Engineering. The Bachelor of Science program in Computer Science is accredited by the Computer Science Accreditation Commission (CSAC) of the Computing Sciences Accreditation Board (CSAB).

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 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 necessary 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 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 updating 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 in a program of 166 semester hours 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 matter 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 specialization studies 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 elect the strongest academic program that is available within the high school. Four years each of English, mathematics, science and technology (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 must elect to follow a program to overcome their deficiencies. One alternative might be that such a student take some remedial work and a less accelerated program as a Pre-Engineering student. The University of South Florida generally offers most required pre-engineering courses every semester. As another alternative, students may wish to avail themselves of the State's system of junior/community colleges which offer a wide range of remedial coursework, and many of which also offer full programs in pre-engineering (first two years coursework).

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 attending 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.
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 should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of “C” is the minimum acceptable grade.
     - CHM X045/X045L General Chemistry I (with lab)
     - CHM X046/X046L General Chemistry II (with lab)
     - PHY X048/X048L General Physics and Laboratory I
     - PHY X049/X049L General Physics and Laboratory II
     - MAP X302 Differential Equations
     - EGS 1113 Introduction to Design Graphics
     - MAC X281 Engineering Calculus I
     - or MAC X311
     - MAC X282 Engineering Calculus II
     - or MAC X312
     - MAC X283 Engineering Calculus III
     - or MAC X313

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 Science and Engineering Department are completion of sections 1 and 2 above and:

1. Completion of:
   - COP 2002 & COP 2000L - Intro to Computer Science and Lab

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, where 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 undergraduates 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.