broad foundation in applied mathematics and the physical sciences, and also to develop communications abilities and clear perceptions in the social sciences and the humanities. Research and development opportunities as a computer scientist and engineer, often following graduate training, are present in the areas of computer architecture and VLSI design, artificial intelligence, software engineering, digital data communications, data-base management and robotics, fault-tolerant computing and testing, microprogramming, computer graphics, image processing, machine vision, and simulation.

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

**Bachelor of Science in Computer Science Curriculum**

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**Bachelor of Science in Information Systems Curriculum**

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Bachelor of Science in Computer Engineering Curriculum
#### 5. Electrical Engineering (38 credit hours)

Students pursuing the Electrical Engineering option of the Bachelor of Science in Engineering program or the Bachelor of Science in Electrical Engineering program take designated, specialized coursework in network analysis, electronics, communications, electromagnetic theory, linear systems and control systems analysis, and microelectronics. This coursework is supplemented by electives in logic, sequential circuits, digital system design and microprocessors, distributed networks and UHF principles, and/or electromechanics and power system analysis.

Students completing this program normally pursue industrial careers in the power, electrical, electronic, or information industries or in related governmental laboratories and public service agencies. The electrical graduate may apply his/her knowledge to such diverse areas as television, communications, remote guidance, sensing (of people, vehicles, weather, crops, etc.), automation, computer and information systems, electric power generation and transmission, electrically propelled transportation, etc. The graduate may do this by performing needed engineering functions related to the research and development (often requires an advanced degree), design, production, operation, sales, or management of these products/services.

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

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<th>Semester V</th>
<th>Semester VI</th>
<th>Semester VII</th>
<th>Semester VIII</th>
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6. Industrial Engineering (32 credit hours)

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

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

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

Bachelor's Curriculum for Industrial and Management Systems Engineering

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<td>EGN 3375 Electrical Systems III</td>
<td>3</td>
</tr>
<tr>
<td>Approved Communication Course</td>
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<tr>
<td>Accounting</td>
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<td><strong>Total</strong></td>
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<thead>
<tr>
<th>Semester VI</th>
<th>Hrs.</th>
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<tbody>
<tr>
<td>ESI 4314 Operations Research I</td>
<td>3</td>
</tr>
<tr>
<td>EIN 4395L Manufacturing Processes</td>
<td>3</td>
</tr>
<tr>
<td>ESI 4221 Ind. Stat. and Q.C.</td>
<td>3</td>
</tr>
<tr>
<td>EIN 4312L Production Design I</td>
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<tr>
<td>Science Elective</td>
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<tr>
<td>EGN 3354 Basic Fluid Mechanics</td>
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<td><strong>Total</strong></td>
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<thead>
<tr>
<th>Semester VII</th>
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<tbody>
<tr>
<td>ESI 4315 Operations Research II</td>
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<tr>
<td>EIN 4334 Production Control</td>
<td>3</td>
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<tr>
<td>EIN 4313 Human Factors Design</td>
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<td>Technical Elective</td>
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<tr>
<td>Approved Humanities</td>
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<td><strong>Total</strong></td>
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<table>
<thead>
<tr>
<th>Semester VIII</th>
<th>Hrs.</th>
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<tbody>
<tr>
<td>EIN 4251 Automation and Robotics</td>
<td>3</td>
</tr>
<tr>
<td>ESI 4911 Senior Project</td>
<td>2</td>
</tr>
<tr>
<td>ESI 4521 Ind Syst Simulation</td>
<td>3</td>
</tr>
<tr>
<td>EIN 4364L Plant Facilities Design</td>
<td>3</td>
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<tr>
<td>Humanities/Social Science Elective</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

7. Mechanical Engineering

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

Students completing this option normally enter careers in a wide range of industries which either produce mechanical products and machinery or rely on machines, devices, and systems to produce non-mechanical products such as electricity, petroleum products, foods, textiles, building materials, etc. Thus, mechanical engineering graduates may follow careers in such fields as transportation, power generation, manufacturing, instrumentation, automatic control, machine design and construction, refrigeration, heating and air conditioning, and all the process industries (foods, textiles, petrochemicals, pharmaceuticals, etc.). These opportunities occur in a wide range of industries because mechanical processes are required for most industrial production.

Because of their shared interest in instrumentation, process controls, fluid mechanics, heat transfer and computer optimization of design, mechanical engineering students take many courses with chemical engineering students.

Bachelor's Curriculum for Mechanical Engineering
<table>
<thead>
<tr>
<th>Semester I</th>
<th>Hrs.</th>
<th>Semester VII</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101  Freshman English</td>
<td>3</td>
<td>EMC 4314  Auto Controls I</td>
<td>3</td>
</tr>
<tr>
<td>MAC 3281  Engineering Calculus I</td>
<td>3</td>
<td>EML 4522L  Chem. &amp; Mech. Lab II</td>
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<tr>
<td>CHM 2045  General Chemistry I</td>
<td>3</td>
<td>EML 4260  Dyn. of Mach.</td>
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<tr>
<td>EGN 1002  Engineering Orientation</td>
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<td>EML 4503  Mach. Analy. &amp; Desgn II</td>
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<td>Social &amp; Behav. Science Elective</td>
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<td>Approved Des. Course</td>
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<tr>
<td>EGN 1115L Intro. to Design Graphics</td>
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<td>Technical Elective</td>
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<tr>
<td></td>
<td>15</td>
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<td>Semester VIII</td>
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<td></td>
<td></td>
<td>Approved Des. Course</td>
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<td>EML 4106C  Therm. Sys. &amp; Eco.</td>
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<td>Technical Electives</td>
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<tr>
<td>Semester II</td>
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<tr>
<td>ENC 1102  Freshman English II</td>
<td>3</td>
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<tr>
<td>MAC 3282  Engineering Calculus II</td>
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<tr>
<td>CHM 2046  General Chemistry II</td>
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<td>CHM 2045L General Chemistry I Lab</td>
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<tr>
<td>PHY 3048  General Physics I</td>
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<td>PHY 3048L General Physics I Lab</td>
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<td>Required Summer Term</td>
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<tr>
<td>MAC 3283  Engineering Calculus III</td>
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<td>CHM 2046L General Chemistry II Lab</td>
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<td>PHY 3049  General Physics II</td>
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<tr>
<td>PHY 3049L General Physics I Lab</td>
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<tr>
<td>EGN 2210  Fortran for Engineers</td>
<td>3</td>
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<td>Semester III</td>
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<tr>
<td>EGN 3313  Statics</td>
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<td>EGN 4450  Intro. to Linear Systems</td>
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<td>MAP 4302  Differential Equations</td>
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<td>EGN 3343  Thermodynamics I</td>
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<td>Social &amp; Behav. Science Elective</td>
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<td>EGN 3443  Statistics</td>
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<td>EGN 3373  Intro. Electrical Systems I</td>
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<td>EMC 3103  Thermodynamics II</td>
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<td>EML 3126  Fluid Systems</td>
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<td>Approved Technical Writing Course</td>
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<td>Semester V</td>
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<td>EML 4142  Heat Transfer</td>
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<td>EGN 3356L Materials Engr. I</td>
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<tr>
<td>EGN 3433  Systems Dynamics</td>
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<td>EGN 3321  Dynamics</td>
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<tr>
<td>EGN 3375  Intro. Electrical Systems III</td>
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<td>Semester VI</td>
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<tr>
<td>EMC 3301  Inst. Sys.</td>
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<td>EMC 3303  Chem. &amp; Mech. Lab I</td>
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<td>EML 3264  Kinematics</td>
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<td>EML 3500  Mach. Analy. &amp; Desgn II</td>
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<td>Approved Non-Technical Elective</td>
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<td></td>
<td>19</td>
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</tbody>
</table>

**College Regulations**

1. **Humanities and Social Science Requirements**

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

Students who transfer from a State of Florida community college with an Associate of Arts degree and who have met that college's General Education Requirement will normally find that their General Education coursework satisfies the major portion - but not all - of the Social Science and Humanities Core Requirements.

2. **English Requirement**

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

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

See **Continuation and Graduation Requirements** below for minimum grade requirements.

3. **Mathematics Requirement**

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

4. **Continuation and Graduation Requirements**

The curricula for the programs offered by various departments of the College of Engineering may be divided into four categories: a) General Education or Non-technical requirements; b) Basic Science Require-
ments (i.e., Math, Chemistry and Physics); c) Engineering Science Requirements; d) Specialization Requirements. All undergraduate students in the College of Engineering are expected to maintain the minimum grade-point average (GPA) for each category specified by the department responsible for the program pursued. In no case will the minimum GPA for a category be less than 2.0. Some programs may have higher requirements for certain categories. It is the student's responsibility to make sure she/he meets all departmental requirements. In addition to the completion of the course work and/or project requirements of the respective program of the college, students must be recommended for their degrees by the faculty of the college.

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

Students who register for a course three times without receiving a grade "C" or better (i.e., receive grades of W, D, or F) will be denied further enrollment in the College of Engineering unless written permission is obtained from the department chairperson and the college Associate Dean for Academic Affairs.

Key courses including (but not limited to) Freshman English, Calculus, Physics and Engineering and Science courses specified by the student's major department must be passed with a grade of "C" or better. Exceptions must be approved in writing by the student's adviser prior to taking the next course in the sequence.

Students pursuing College of Engineering degree programs are expected to take their courses on a graded basis (ABCDF). Exceptions require written approval of the department adviser prior to registration.

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

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

Effective fall of 1987 all incoming students pursuing Bachelor of Science degree programs in Chemical, Civil, Electrical, Industrial or Mechanical Engineering will be required to take the Engineering Intern Exam of the State Board of Professional Regulation at least one term prior to the term of anticipated graduation. (See the College Advising Office for applications and information.)

5. Transfer Credit
Transfer credit will be allowed by the USF College of Engineering when appropriate if the transferred course has been passed with a grade of "C" or better and when the first USF course following in sequence is also passed with a "C" grade or better. In some cases credit for a course may be granted, but the hours accepted may be less than the hours earned at another school.

While credit for work at other institutions may be granted subject to the conditions of the previous paragraph, a minimum of thirty semester hours of engineering coursework specified by the degree granting department is required for a baccalaureate degree.
knowledge of engineering fundamentals, and culminates in approximately one year of specialized - often interdisciplinary - studies. These basic requirements are further listed below.

1. Humanities, social science, and non-technical areas requirements (29)
2. Mathematics and science requirements (30)
3. Engineering Science core requirement (29)
4. Specialization requirement (32)

**Other Requirements for Engineering Science**

The College's English, Mathematics, Continuation, and Graduation requirements for the Engineering degree program are applicable to the Engineering Science degree program.

**FIVE-YEAR PROGRAM — MASTER OF SCIENCE IN ENGINEERING SCIENCE DEGREE**

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

1. A two-year research program extended through the fourth and fifth year.
2. The opportunity of taking graduate courses during the fourth year and deferring the taking of senior courses to the fifth year. The requirements of the combined degrees do not differ from those for the two degrees pursued separately.
3. Students apply for admission to this program through their adviser, who should be consulted when additional information is needed. General requirements include:

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

**ENGINEERING TECHNOLOGY**

The College of Engineering offers a program leading to the degree of Bachelor of Engineering Technology to serve educational needs in engineering-related technology areas. The program normally provides for two years (60 min. credit hours) of study at the University of South Florida following two years (60 credit hours) of successful study in an engineering technology program which has led to an Associate of Science degree. Many Engineering Technology programs of the State System of Community Colleges uniquely mate with this program. The college also offers a four-year program in Computer Technology.

**BACHELOR OF ENGINEERING TECHNOLOGY**

Upon completion of their full four years of study leading to the award of the Bachelor of Engineering Technology degree, students will have gained a well-rounded background concentrated in the following areas: Engineering Technology, Mathematics and Science, Liberal Arts and Social Science, and Management and the area of Computers. A student who has completed this program should be adequately prepared to assume career responsibilities in technical, technical supervisory, or technical executive positions. Prospective students should note, however, that this program is not intended to be an engineering program. Rather, its function is to bridge the gap between design or research professional engineers, technicians and management. It is for this reason that the program consists of a balance of coursework in technical management, and Liberal Arts and Social Science areas.

A typical student pursues the bulk of the Engineering Technology coursework, together with much of the mathematics and science coursework, within the framework of a junior college Associate in Science degree Engineering Technology program. Most of the liberal arts and social science coursework, management and computer-oriented studies, and some additional engineering technology coursework is taken by the student at USF during the junior and senior year. The typical four years of study thus exhibit approximately the following coursework distribution (in credit hours):

- Engineering Technology: 53
- Management & related studies: 20
- Liberal Arts, Social Science and Electives: 32
- Mathematics and Science: 15

**TOTAL: 120**

Specific students' programs may deviate from this balance to some extent due to the differences in the students' first two years' program contents.

At USF a portion of each student's program may be used for one of the areas of concentration listed below.

- Computer Systems Technology
- Management Engineering Technology

These areas are designed to complement the technical work received at the community college and need not necessarily be in the same field in which the A.S. degree is awarded.

Students entering this program will have their transcript annotated as to the institution from which their technical training was received as well as their technical specialization as designated by that institution.

Also available is a four-year degree in Computer Systems Technology which is mainly software applications.

**Admission**

In general, students are expected to have successfully completed an Associate in Science degree in Engineering Technology at a community college or to have accomplished equivalent work. The student must have completed a minimum of mathematics through applied integral calculus, a non-calculus physics sequence, and at least 6 semester hours of Freshman English. Limited resources in the presence of increasing enrollment demand have forced limiting enrollment to this program. The college's admissions requirements and procedures are listed on page 20. Students who meet all admission requirements are required to complete a minimum of 60 additional semester hours to receive the Bachelor of Engineering Technology degree.

**Technology Admission Requirements**

**Bachelor of Engineering Technology - Computer Technology Program:**

A. Freshmen:
1. TEST SCORES: SAT - quantitative of 450 minimum; composite of 900.
   - ACT - mathematics of 18 minimum.
2. HIGH SCHOOL MATHEMATICS: Grade point average of 2.5 or better with no grade below "C". Sufficient coursework to enter required Calculus sequence.

B. Transfer Applicants:
1. MATHEMATICS PREPARATION:
   a. Completed College Algebra with grade of "B" or better, OR
   b. Completed College Algebra and first applicable Calculus sequence with grade point average of 2.5; no grade below "C".
2. OVERALL GRADE POINT AVERAGE: 2.5/4.0 minimum.

**Bachelor of Engineering Technology**

(A.S. Degree* plus 60 Semester Hrs.)

*One-year non-calculus physics and one year calculus additionally required if not completed in A.S. degree.

**Areas of Concentration:**
A. Computers
B. Management
### Bachelor's Curriculum for Computer Technology

#### Semester I

- **Enc:** Freshman English I
- **Mac:** Elem. Calc I
- **Cgs:** Intro to Computers (Basic)
- **Humanities:**

#### Semester II

- **Enc:** Freshman English II
- **Mac:** Elem. Calc II
- **Cgs:** PASCAL
- **Humanities:**

#### Semester III

- **Man:** Princ. Management
- **Cgs:** Engineering Economy
- **Phy:** General Physics I
- **Cda:** Computers I
- **Humanities/Social Science:**

#### Semester IV

- **Phy:** General Physics II
- **Phy:** General Physics Lab II
- **Cda:** Computers II
- **Humanities/Social Science:**

#### Semester V

- **Eti:** Principles of Indus. Oper. I
- **Cgs:** PASCAL
- **Eco:** Macroeconomics
- **Cgs:** Mini-Computer Application
- **Humanities/Social Science:**

#### Semester VI

- **Eti:** Principles of Indus. Oper. II (Project) Pee
- **Cgs:** PASCAL
- **Eco:** Macroeconomics
- **Cgs:** Data Rep. & Manipulation
- **Eco:** Principals I
- **Humanities/Social Science:**

#### Semester VII

- **Eti:** Principals of Indus. Oper. II (Project)
- **Cgs:** PASCAL
- **Eco:** Macroeconomics
- **Cgs:** Data Rep. & Manipulation
- **Humanities/Social Science:**

#### Semester VIII

- **Eti:** Principles of Indus. Oper. II (Project)
- **Cgs:** PASCAL
- **Cgs:** SIMSCRIPT Simulation
- **Cgs:** PL/I (or Technical Elective)
- **Humanities/Social Science:**

*Approved listings of general studies, Humanities, Social Sciences and Communication courses available in Engineering Advising Office (ENG 140A). Students who are currently following a program other than that of an Associate in Science degree in Engineering Technology at a community.
Cooperative programs for engineering students to provide them the opportunity to become familiar with the practical aspects of industrial system, a computer-aided manufacturing system, industrial robots, and a chromatograph/mass spectrometer, specialized computers and computer examining the fundamental principles involved in as FORTRAN, PL/I, pascal, BASIC,Ada, or COBOL, PL/I, COBOL, PASCAL, BASIC, "C", and ADA.

In addition to the completion of the coursework to the college, students must be recommended for their degrees by the faculty of the college. The awarding of a baccalaureate degree also requires a minimum average of 2.0 or "C" for all engineering coursework of 3000 level or above attempted while registered in the college.

Computer Service Courses
These courses marked SC are specifically designed for the non-engineering student.
Recognizing that the general purpose digital computer has made significant contributions to the advancement of all elements of the academic community and that it will have an even greater impact in the future, the College of Engineering offers several levels of credit coursework, undergraduate and graduate, to serve students of all colleges in order that they may be prepared to meet the computer challenge.

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

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

College Facilities
Students have access to the University's IBM 3081 and 3033 systems and the college's extensive PRIME 850 ring network computer system in support of their coursework. In addition, the college has a wide range of specialized equipment, such as a thin-film and hybrid circuits facility, a scanning electron microscope, an analytical system, and computer laboratories such as a DEC PDP 1 1/4 4 database and a color computer graphics laboratory, a differential thermal analyzer, a vacuum dry box, an X-ray diffraction unit, an X-ray diffractometer, a water-quality-analysis test equipment, a flow visualization equipment, a 250 kip materials testing system, a computer-aided manufacturing system, industrial robots, and a well-equipped and staffed machine shop.

Cooperative Education Program
A wide variety of industries and government agencies have established cooperative programs for engineering students to provide them the opportunity to become familiar with the practical aspects of industrial operations and engineering careers. Students in the Career Resource Center's Cooperative Education (Co-op) program alternate periods of paid employment in their major field with like periods of study. Students following the Co-op program usually encounter no problems in scheduling their program, since required Social Science and Humanities, Mathematics and Science, and Engineering Core courses are offered every semester. Students normally apply for participation in this program during their sophomore year and pursue actual Co-op employment during their sophomore and junior years. The senior year is generally pursued on a full-time study basis, since many specialization courses are not offered every semester. The students receive a Cooperative Education Certificate upon successful completion of a minimum of three work assignments.

Florida Engineering and Industrial Experiment Station (USF)
The Florida Engineering and Industrial Experiment Station developed from early research activities of the engineering faculty at the University of Florida and was officially established in 1941 by the Legislature. Its mandate is to “organize and promote the prosecution of research to such of these problems as are important to the industries of Florida.” In 1977, the University of Florida extended the provisions of the Engineering and Industrial Experiment to the Engineering College of the University of South Florida and two other State engineering colleges. The legislature supported this extension with an appropriation: The four colleges of engineering now work together in a joint effort through EIES to assist industry with special problems that can be appropriately solved by engineering colleges. During the year 1987-88 a sponsored research volume of approximately 4 million dollars passed through EIES (USF). All departments, faculty as well as students, contribute to this research at the University of South Florida. This program is administered by the Engineering Associate Dean for Research, Dr. Thomas E. Wade. The direct exposure of students to real research needs of the state adds extra meaning and depth to the engineering education offered by the college.

NASA STAC (Southern Technology Applications Center)
The NASA Southern Technology Applications Center (STAC) is a sophisticated network of information resources and technology transfer expertise devoted to providing high-quality service that entrepreneurs, researchers, high-tech professionals, and business managers need to survive in today's competitive climate.
Created by NASA and the State University System of Florida through the Colleges of Engineering to assist the private sector in commercializing technology, STAC has grown into a full-service technology transfer service which accesses more than 1200 databases worldwide, containing in excess of 500 million records. By using these databases and the expertise of STAC's professional staff, researchers and decision makers receive the most timely information on virtually any subject area from state-of-the-art developments to commercial applications of their innovative concepts. STAC's online interactive searches retrieve a greater number of relevant documents than those obtainable through traditional research techniques.
STAC's diverse services satisfy the demand for automated information research, provide tailored reports to interpret data, create linkages between universities and industry for research and development activity, and assist in consultant recruitment. STAC provides the most current, accurate and comprehensive information research available as well as technical assistance, expert connections, custom database development, demographic trends, patents and trademarks, business opportunities in space, SBIR grant assistance, and proposal writing seminars. Results are STAC's number one priority. STAC charges a minimal fee for its services since its operation is partially supported through NASA and state funds.
The STAC office, which services the southwest area of Florida, is located in the College of Engineering at the University of South Florida. Discover the STAC advantagesources to face tomorrow's challenges today!
Army & Air Force R.O.T.C.
For Engineering Students
The Engineering curriculum, coupled with involvement in the Army or Air Force R.O.T.C. program, requires a minimum of five (5) years to complete the degree requirements. Army and Air Force R.O.T.C. cadets must take 16 additional hours in either military science or aerospace studies. Additionally, Air Force-sponsored summer training camp is scheduled between the sophomore and junior year for Air Force cadets, and Army cadets attend an Army-sponsored summer training program between the junior and senior years.

Bi-County Center for Engineering
The Bi-County Center for Engineering was established on the USF at Sarasota campus in 1984. It serves the Manatee and Sarasota County area by providing local access to the College of Engineering program. Selected courses from all departments are offered in response to student needs. The professional programs in Electrical and Computer Engineering, together with Engineering Technology, are areas of special emphasis. Students who begin as freshmen at Manatee Community College and complete the A.A. in Pre-Engineering are able to transfer directly into USF and continue toward the Bachelor's degree. Other transfer students will be evaluated on an individual basis. All coursework taken at USF as part of a planned degree program is applicable to that program without any campus distinction. Students may move freely between the main campus in Tampa and the regional campus in Sarasota. For information, contact the Engineering Advising Office in Tampa or the Bi-County Center Office in Sarasota.
The College of Fine Arts exists in the atmosphere of a comprehensive University. It provides opportunities for students to develop their interest and talents to the highest level possible and encourages them to do so whether they wish to commit to a life in the arts or, as a general interest, wish to develop appreciation and involvement in the arts. For these purposes, the College educates in the practice of creating, performing, presenting and understanding theatre, music, dance and the visual arts. Our mission is three-fold:

1. Teaching the disciplines for creating, performing, presenting and understanding the arts. This is done by providing the full range of educating experiences that prepare students to:
   a. Practice an art as a full time life commitment;
   b. Practice an art as an important element of the individual’s life commitment;
   c. Appreciate the arts as important life enrichers.
2. Creating and researching the arts:
   a. To expand horizons and explore new dimensions in the arts;
   b. To contribute to the expansion of general knowledge and information about the arts;
   c. To improve the teacher’s own effectiveness with students.
3. Serving the public by providing cultural enrichment and expertise.

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

Fine Arts Events

The College of Fine Arts, recognizing the importance of maintaining an arts-filled environment as an integral part of the total learning experience it offers to the students within the college and to the community at large, is critically aware that a truly comprehensive university performing arts program must include performances and related activities by internationally recognized artists and ensembles.

The list of prestigious artists who have been presented over the years by the College of Fine Arts is impressive and a sampling includes John Cage, the Guarneri String Quartet, Lazar Berman, the New York Pro-Musica, Alvin Ailey, Martha Graham, Marcel Marceau, and the Polish Mime Ballet Theatre. (More extensive lists of visiting artists and performing organizations appear in this catalog here along with the college and departmental requirements: present in detail elsewhere in this catalog, but are briefly summarized as follows.)

BACCALAUREATE-LEVEL DEGREE PROGRAMS

Programs Leading to the Baccalaureate Degree

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

Admission to the College

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

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

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

Advising in the College

The College of Fine Arts operates a central advising office located in the Fine Arts Building. It maintains the records of all major students in the College (art, dance, music, theatre) and provides on-going academic advising, referral services and assistance to all present and potential students. Academic advisers are provided for each of the departments in the College. All music education majors are advised through the music education director's office. For information and appointments call or write the Coordinator of Advising, College of Fine Arts or College of Education.

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

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

Graduation Requirements

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

1. 120 credits for the B.A. 124-126 credits for the B.M., and 150 credits for the B.F.A. with at least a “C” average (2.0) in work done at the University of South Florida and in the major. At least 40 credits must be in courses numbered 3000 or above. Since 15 hours is considered a normal, full-time load, students are reminded that programs requiring more than 120 credit hours may require additional semesters for completion of the program.

2. General Distribution Requirements may be satisfied by (1) completing the University's General Distribution Requirements as explained in this catalog, (2) completing the A.A. degree from a Florida Junior or Community College, or (3) completing the general education requirements from another Florida State university. General education courses transferred from other accredited institutions will be evaluated based on USF General Distribution equivalencies. The A.A. degree is in no way a requirement for acceptance into the College of Fine Arts (or into any one of its upper-level degree programs), or a requirement for graduation from the University.

3. Students admitted to the College of Fine Arts with transfer credits dating ten or more years prior to admission (or readmission) will have those credits reviewed by the College and Department and may be required to take specified competency tests in their major area.

4. Special Fine Arts College Requirement: All majors in the College of Fine Arts must take at least 6 credit hours in one or more of the other departments of the College.
5. A maximum number of ROTC credits totaling no more than the maximum allowed in the Free Elective Area for each major may be counted towards the B.A., B.M., or B.F.A. degree.
6. With departmental approval, a maximum of 4 credit hours of elective Physical Education credits taken at USF may be counted as general elective credit toward the B.A., B.M., or B.F.A. degree in the College of Fine Arts.
7. Satisfactorily complete the College Level Academic Skills Test CLAST and the writing and computation course requirement of 6A-10.30 (Gordon Rule).
8. Students applying for a B.A. degree must demonstrate competency in a foreign language as described under Foreign Language Competency Policy of this catalog.
9. Department Requirements:
   Art Requirements: Completion of a minimum of 46 credit hours in the major, 19 credit hours of Free Electives (of which 16 hours in art may apply), and 9 hours of non-major credits which may be distributed at the discretion of the Art Department.
   Dance Requirements: Completion of a minimum of 42 credit hours in the major, 23 credit hours of Free Electives (of which 19 hours in dance may apply), and 9 hours of non-major credits which may be distributed at the discretion of the Dance Department.
   Music Requirements: Completion of a minimum of 84-86 hours in the major.
   Music Education Requirements: For Instrumental Specialization, the completion of a minimum of 19 credit hours of Music Education courses and 52 credit hours of Music courses. For Vocal Specialization, the completion of a minimum of 15 credit hours of Music Education courses and 56 credit hours of Music courses.
   Theatre Requirements: For the B.A., the completion of a minimum of 54-55 credit hours in the major with 19 credit hours of Free Electives of which a maximum of 10-11 credit hours may be in theatre. For the B.F.A., the completion of a minimum of 75 credit hours in the major with 29-30 credit hours of Free Electives of which a maximum of 10-11 credit hours may be in theatre.
10. Residency Requirements: A minimum of 20 credit hours in the major department must be earned in residence. This requirement, however, may be waived by the department based on examination (e.g., portfolio review, audition, etc.). Also, a student must earn 30 of the last 60 hours of credits in residence at the University of South Florida. However, any course work to be taken and any credits to be earned outside of the University must have prior approval from the appropriate department and the college in order to apply these credits toward graduation.

College Policy for Academic Progress
The following criteria will serve as the basis for disenrollment from a major in the College of Fine Arts.
1. Grade-point average below 2.0 in the major.
2. Recommendation by major applied (studio) art, dance, music or theatre faculty with approval of respective department chairperson, or art education coordinator.
3. The department may recommend probationary status (rather than disenrollment) for one semester when academic progress is not maintained.

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

S/U Grade Contracts:
The College of Fine Arts requires that any S/U grading agreement entered into between student and instructor be formalized by a contract in quadruplicate signed by the student and the instructor and distributed according to instructions.

"I" Grade Contracts:
Incompletes must be contracted for by mutual agreement between student and instructor, with the contract describing specifically the amount and nature of the work to be completed for the removal of the incomplete grade. This contract additionally clearly specifies the date that the work will be due (within legal limits) for grading. Both the student and the instructor must sign this contract and the four copies must be distributed according to instructions. A student must not register for a course again to remove an "I" grade.

Permission Procedures:
Admission into some courses is possible only by consent of instructor (CF), consent of chairperson (CC), consent of adviser, or by audition or portfolio review. When such special permission is required, it will be the student's responsibility to obtain any required permission prior to registration.

S/U Grading in the College
1. Non-majors enrolled in courses in the College of Fine Arts may undertake such courses on an S/U basis with instructor approval. See Contracts and Permission Procedures for information concerning S/U Grade Contracts.
2. Credits earned by a non-major student with an "S" grade will not count toward the student's minimum major course graduation requirement should that student ultimately decide to become a major student in one of the four departments in the College. Instead, such credits earned with an "S" grade will be assigned to the student's Free Elective category (with the exception of music which will become noncountable).
3. Although Fine Arts majors may take coursework in their major as Free Electives, they are not entitled to the S/U grading option for these courses taken in their major subject area, even when specifically used or intended to be used as Free Electives.
4. In the college of Fine Arts, the only S/U graded courses available to a major student in his major subject area are those curriculum allowable courses designated S/U (that is, S/U only).
5. With the exception of such courses as may be specifically required under the College's "Special Requirements" regulation, a maximum of 9 credit hours of S/U credits in non-major courses may apply towards a degree in the College of Fine Arts.

Please refer to section for more information concerning the University's S/U Grading policy.
Dean's List Honors
See Academic Policies and Procedures, Programs and Services.

Interdisciplinary Study
In spite of the fact that an undergraduate interdisciplinary degree program is not formally offered in the College of Fine Arts, it is possible for a student to pursue such a program of study in the College by utilizing free electives allowed in the major program. A student may also choose a double undergraduate major in two departments within the College of Fine Arts as a means of interdisciplinary study. See the major adviser in the programs of particular interest.

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

PROGRAMS AND CURRICULA

■ ART (ART)

Departmental Requirements for the B.A. Degree
The art curriculum is designed to develop the student's consciousness of aesthetic and ideological aspects of art and its relationship to life and to assist students in the realization of personal ideas and imagery. Most B.A. recipients interested in college teaching, museum or gallery work, fine or commercial studio work pursue the extended discipline and experience offered at the graduate level. Although the Art program allows many possible courses of study, most major art students will select one area of emphasis chosen from the course offerings listed.

The major concentrations, or areas of emphasis, available to undergraduate (B.A. seeking) art students are: Drawing, Painting, Sculpture, Ceramics, Graphics (Lithography and/or Intaglio), Photography, Cinematography (Film), Art History and Theory. Art majors must receive a grade of "C" or better in all art courses.

Transfer studio credit will be accepted on the basis of portfolio and transcript evaluation.

For additional requirements see Graduation Requirements, College of Fine Arts.

The requirements for the bachelor's degree in Art Education are listed under the College of Education.

Art Studio Concentration
(46 semester hours minimum)
1. Visual Concepts I, II and Introduction to Art, 12 credit hours.
2. Minimum of 12 credit hours of 3000 level studio courses (exclusive of Technique Seminars.)
3. Minimum of 8 credit hours of 4000 and/or 5000 level studio courses exclusive of Technique Seminars with an emphasis in one area.
4. Minimum of 12 credit hours in art history courses from the following: Twentieth Century art is required.
   ARH4100
   ARH4170
   ARH4200
   ARH4301
5. Art Senior Seminar, 2 credit hours.
6. Maximum of 16 semester hours of art electives.

Art History Concentration
(46 semester hours minimum)
1. Visual Concepts I, II and Introduction to Art, 12 credit hours.
2. Minimum of 16 credit hours of 4000 level art history courses including Twentieth Century art history.
3. Seminar in the History of Art History, 4 credit hours.
4. A minimum of 12 credit hours in Directed Readings (1 to 4 semester hours each) and/or Critical Studies in Art History (4 semester hours each).
5. Art Senior Seminar, 2 credit hours.
6. Must demonstrate competency in French or German as described under Foreign Language Competency Policy of this catalog.
7. A maximum of 16 semester hours of art electives.

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

Requirements for a Minor in Art
(20 semester hours minimum)
1. Studio Concentration:
   ART 2202C (4)  ART 2203C (4)  ARH3000 (4)
   Plus: Two 4 semester hour classes from 3000 studio level (8)
2. Art History Concentration:
   ART 2202C (4)  ART 2203C (4)  ARH3000 (4)
   Plus: Two 4 semester hour classes from any of the following:
   ARH4100 (4)  ARH4301 (4)  ARH4450
   ARH4170 (4)  ARH4350 (4)  (Required) (4)
   ARH4200 (4)  ARH4430 (4)  ARH4530 (4)

Visiting Artists and Artist-In-Residence
The art department is widely known for the consistent level of excellence of its programs. Aside from the contributions of its permanent staff, and to insure the continuing expansion of learning opportunities available to students, the art department has brought to the campus internationally known artists and lecturers such as Scott Barlett, Larry Bell, Friede Dzubas, Allen Jones, Nicholas Krushenick, Daniel Lang, Paul Sarkisian, Lucas Smaras, Robert Irwin, James Rosenquist, Robert Rauschenberg, Philip Pearlstein, Edward Fry, Alice Aycock, Alfred Leslie, Linda Benglis, Ron Gorchov, Patterson Sims, and Jack Burnham.

Art Galleries
The University of South Florida Art Museum under the aegis of the Art Department presents over thirty exhibitions a year in three on-campus galleries. The exhibition program is an integral part of the studio and art history curriculum of the Art Department as well as other liberal arts areas of the University as it provides a context and forum for students to test and broaden their perceptual and analytical capabilities. Brochures and catalogs documenting the exhibitions are available through the Museum office (FAM 100).

In addition, the University Collections are made available as loans both on and off campus through the Art Bank Program. Part of the collection is arranged in 65 circulating exhibitions that are available as loans to galleries, universities and major cultural institutions throughout the Southeast.

■ DANCE (DAN)

The dance curriculum is designed for students interested in dance as an art form. Their objectives may be to continue their education in graduate school, to teach in a college, public or a private school, or pursue a career as a performer and/or choreographer.

Concerts are presented each semester as well as workshop performances. Noted professional dancers and companies perform on campus and in the community providing students with the opportunity of studying with visiting artists.
Requirements for the B.A. Degree

Performance Concentration

(44 semester hours minimum)

4 levels of Ballet and Modern Technique, 3 levels of Jazz Dance

Suggested core curriculum pattern:

First Year - all students (11 credit hours)

DAN 3610 2 Music for Dance I
DAN 3611 2 Music for Dance II
TPA 2223 3 Basic Theatre Crafts
DAN 4120 4 Fundamental Dance Techniques

Second Year - all students (12 credit hours plus electives)

DAA 2160 3 Modern Dance II (Ballet requirement, Modern elective)
DAA 2201 3 Ballet II (Modern requirement, Ballet elective)
DAA 3700 2 Choreography I
DAA 3701 2 Choreography II
DAN 3710 2 Practicum in Dance Production I
DAN 4120 3 Survey History of Dance

Third Year - Modern Concentration (16 credit hours)

DAA 3161 6 Modern Dance III
DAA 3202 3 Ballet III
DAA 4702 2 Choreography III
DAN 3710 1 Repertory
DAN 4151 3 19th & 20th Century Dance History
DAN 4906 1 Directed Study (Junior Project)

Fourth Year - Modern Concentration (14 credit hours)

DAA 4162 8 Modern Dance IV
DAA 4703 2 Choreography IV
DAN 3710 1 Repertory
DAN 4170 2 Dance Senior Seminar
DAA 4790 1 Senior Project

Fourth Year - Ballet Concentration (14 credit hours)

DAA 4203 8 Ballet IV
DAA 3220 2 Ballet Variations
DAN 3710 1 Repertory
DAN 4170 2 Dance Senior Seminar
DAA 4790 1 Senior Project

Department Policy For Academic Progress

A maximum of 17 credit hours of Dance electives may apply toward the dance degree.

TPA 2200 or 2223 Theatre Crafts: Lighting, Costume or Stage Crafts (3) is required of all dance majors and may apply toward Area II of the General Distribution Requirement, or non-major electives, or the 6 hour Special College Requirement.

Dance majors must enroll for at least a minimum of 2 credit hours (1 per semester) in DAN 3590 Practicum in Dance Production. By doing technical preparation and working backstage in a minimum of two major concerts, the student will have a better grasp of production problems and their solutions. The major student is expected to earn 2 credits in DAN 3710 Repertory by performing in at least two faculty directed concerts in their junior or senior year.

Junior dance majors are required to complete a junior research project through directed studies (DAN 4906) and senior dance majors are required to choreograph a group work and perform a solo as a senior project.

Entrance to all major technique courses is by faculty examination. Until the student is accepted into Modern Dance III or Ballet III he/she will be considered as a probationary dance major. DAA 2160 or DAA 2201 may be repeated only once for credit towards degree requirements.

Prospective Majors are urged to contact the dance department to arrange for an audition prior to registration.

Critiques

1. All students will be evaluated periodically at faculty sessions as well as critiqued per semester. Majors will be advised accordingly.
2. If the faculty feels that a student is deficient in some area which necessitates a probationary action, the student in question will be advised and asked to sign a probation form. This form is kept on file with the student's advisor.
3. Failure to make satisfactory progress within the following semester shall constitute grounds for Departmental recommendation to drop and discontinue the major.

Minimum Grade for Dance Courses

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

Additional Standards

In addition to meeting the specific requirements and standards discussed above, the student and adviser will periodically evaluate the student's general progress. A less-than-satisfactory rating in one or more of the following areas could place the student on probation. A student on probation is given a specific amount of time to achieve a satisfactory rating before being dropped from the major program. The criteria are:
1. Adequate technical skill and adaptability.
2. Evidence of creative potential.
3. "B" average in major studio classes.
4. Good health which includes adequate control of body weight.

Class probation and department probation require review and final determination at the end of the subsequent semester. Students will be notified of the results of final faculty review, i.e., reinstatement in good standing or recommendation to drop major.

A dance major is expected to keep his/her weight at a level that is aesthetically acceptable to the dance faculty for classroom training and all performances.

For other non-major requirements see both Fine Arts College requirements and the University's General Distribution and graduation requirements.

Requirements for a Minor in Dance

(20-semester-hour minimum)

1. Minimum of 10 semester hours upper-level courses (3000 and 4000 level courses).
2. Admission to all studio classes is by audition only (as with major students) and the student must be ranked by level before being admitted. Studio courses may be repeated for credit as stipulated in the Catalog.
3. Prospective students must contact the Dance department to arrange for an audition prior to registration. DAA 2160 and DAA 2201 may be repeated only once for credit toward the minor.
4. The student must audition each semester to stay at his/her present level or to advance to a higher level for all technique courses.

Transfer Student Requirements

Transfer students must complete a minimum of 8 credits in major technique on campus. The Dance faculty will consider a transfer of credits and/or a waiver of one or two credits for the remaining technique credits required upon the written request of the student. The written request must be accompanied by a letter of recommendation from the student's former instructor. Such a request and letter of recommendation does not obligate the faculty to accept the credits the student wishes to transfer. No techni-
Visiting Artist and Artists-in-Residence

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

The music curriculum is designed for students gifted in the performance and/or composition of music. Candidates for a major in music are required to pass an entrance audition in their respective performance area. Composition candidates are required to submit appropriate scores and/or tapes of their compositions for faculty appraisal. All students admitted to the degree program must take a music theory diagnostic examination prior to scheduling music theory classes. Freshmen must pass this examination or enroll in a music fundamentals course. This course does not fulfill a requirement in the music major curriculum. Transfer students are required to take a similar placement test and required to enter at the appropriate level. Students may obtain dates and times for these examinations from the music department office.

Core Requirements for Specific Concentrations:

Performance Concentration
A total of 32 credit hours of applied music major is required with a minimum of 8 hours to be completed at the senior level and concurrent registration in MUS 3001 (Recital Attendance).

Promotion to the next higher level in applied music is made upon the recommendation of the faculty in the student’s respective performance concentration based upon a jury examination conducted by that concentration’s faculty.

Jazz Studies-Performance Concentration
The following courses are required in addition to the core requirements:
- MUT 1111 (3) MUT 2116 (3) MUT 4571 (3)
- MUT 1112 (3) MUT 2117 (3) MUT 4411 (3)
- MUT 1241 (1) MUT 2246 (1) or MUT 1242 (1) MUT 2247 (1) MUT 4421 (3)
- MUS 4935 (1)

Jazz Studies-Composition Concentration
The following courses are required in addition to the core requirements:
- MUC 4203 (6) MUC 2302 (3) MUC 3203 (3)
- MUC 2201 (3) MUC 3202 (3)

Elective composition (6)

Composition Concentration
(72 semester hours minimum)
All students seeking a degree in music with a composition concentration are required to fulfill the senior composition requirements (with the approval of the entire composition faculty) in one of the following ways:
MUSIC EDUCATION

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

All students seeking a degree in music education are required to pass an audition in their respective performance area and to take a music theory placement test prior to registering for any music theory class. Students who do not pass the diagnostic test will be placed in a music fundamentals course. This course does not fulfill a requirement in the music major curriculum. All transfer students are required to take a theory placement course. This course does not fulfill a requirement in the music major.

Students are to present a record of satisfactory recital attendance during each of the semesters of study at the University (the specific requirements for satisfactory attendance are set by the music faculty).

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

Note exceptions applicable to this program.

1. Instrumental Specialization (75 cr. hrs.)
- Music Education courses (20 cr. hrs.)
  - MUE 2000 (1) *MUE 3450 (1) MUE 4311 (3)
  - MUE 3421 (1) MUE 3451 (1) **MUE 4321 (3)
  - MUE 3422 (1) **MUE 3460 (1) MUE 4332 (3)
  - MUE 3423 (1) MUE 3461 (1) MUE 4480 (2)
- Music courses (min. 52 cr. hrs.)
  - MUT 1111 (3) MUT 2117 (3) MUH 3300 (2)
  - MUT 1112 (3) MUT 2246 (1) MUH 3301 (3)

2. Vocal Specialization (75 cr. hrs.)
- Music Education courses (16 cr. hrs.)
  - MUE 2700 (1) MUE 3423 (1) MUE 4311 (3)
  - MUE 3421 (1) *MUE 3450 (1) or 3451 (1) MUE 4311 (3)
  - MUE 3422 (1) *MUE 3460 (1) or 3461 (1) **MUE 4331 (3)

- Applied Music (Principal) 12 cr. hrs. through 3000 level and concurrent registration in MUS 3001 (Recital Attendance).
- Music Electives (2)
- Applied Music Secondary (Techniques - 3 cr. hrs.)
  - One each: string, percussion, voice

Major performing ensembles
- Graduating recital
- Piano proficiency requirement
- Other Fine Arts Requirement
- Art, Dance, Theatre (min. 3 cr. hrs. to be selected from one or more of the other departments of the College of Fine Arts)

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 Theory (8)
- Introduction to Music Literature (3)
- Music History (3)

2. Optional Concentrations: 9-10 hours
- a. History-Theory-Literature (7-8)
- b. Applied Music (Principal) (2)
- Performance Studio courses which may include up to 2 semester hours of class-studio (6-8)
- Music Ensembles (2-4)
- MUS 3001 Recital Attendance concurrent with applied music (principal) registration.
Faculty jury recommendations for sophomore-level studio study (minimum)

c. Composition

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<th>Credit Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 hours</td>
<td>Introduction to Electronic Music</td>
</tr>
<tr>
<td>2</td>
<td>Composition Studio courses which may include one course of orchestration</td>
</tr>
<tr>
<td>6</td>
<td>Music Ensemble</td>
</tr>
</tbody>
</table>

3. Admission to all studio courses is by audition with major students, and the student must be ranked by level. Class-studio courses may serve as preparation for auditions. Registration in all music courses is by permission of the instructor. Studio courses may be repeated for credit as stipulated in the Catalog.

The Faculty:
USF’s superior music faculty has been carefully chosen for its training, performing ability, and ability to teach. It is in every sense a team. This achievement has been demonstrated by such fine musical ensembles as the Faculty String Quartet, the Ars Nova (faculty) Wind Quintet, the Faculty Musart Piano Trio and the Faculty Jazz Quartet. USF music graduates are found teaching successfully in public schools and universities around the country and performing in a variety of concert settings.

Student Organizations:
Sigma Alpha Iota, national professional music fraternity for women, and Phi Mu Alpha Sinfonia, a professional music fraternity for men, are dedicated to serve the cause of music in America. College Music Educators National Conference is an affiliate of the Music Educators National Conference and is open to all interested students.

Financial Aid:
The University has made available to highly qualified undergraduate students a number of music service awards. Awards are made following open auditions held in January, February and March. The award is made for the following year for two semesters. Out-of-state tuition waiver is also possible. Also available are scholarships awarded in specified areas including Dawn Randall Zimmerman Flute Scholarship, Mary Corey Bogdonas Scholarship, Richey Symphony Scholarship Fund, Steve Penovich Scholarship, Marjorie Roe Cello Scholarship, and the Zbar Piano Award. Additionally, loans, grants and work programs are available to qualified University of South Florida students. Financial aid is granted on need, academic promise and talent.

SYCOM
The SYstems COMplex for the Studio and Performing Arts exists to provide essential instructional services and state-of-art reproducing, mixing, editing, and electronic sound generating and processing equipment (digital and analog) for development and implementation of explorative research and creative activity by artists, scientists, and students (generally enrolled in related classes) at USF.

Basic recording facilities in Studio A include a custom designed 12 channel quad, mixing console, constructed around an OPAMPS frame (with patchbay, remotes and monitor controls), an MCI eight-track recorder (100 format; 7 1/2, 15, 30 ips) and DBX 208, an Ampex ATR 102 two-track recorder with Dolby A, a TEAC 40-4 four-track recorder with DBX, a MIC MIX stereo reverb and four White 1/3 octave equalizers, four JBL 4315 B studio monitors are powered by two Yamaha amplifiers. Eu Systems provides a modular synthesizer with a real time 16-voice microprocessor controlled, keyboard/sequencer (6000 notes of storage, cassette “load and store” of software, a Prophet-5 and Emulator complete sound generating capabilities). Computer facilities include a standard 280 cpu (system upgradeable to a 28000) with 64 K of RAM, and IBM compatible, digital tape drive (7 or 9 track; 800 or 1600 BPI), a 29 megabyte Shugart disk, two 500 K double density floppy diskettes, four channels of 12 bit d to a for synthesizer control (8 for pitch; 8 for amplitude; 16 separate triggers), one channel of analog-to-digital conversion and two Hazeltine 1500 terminals. A Megasystems hybrid microprocessor/sequencer with 2000 notes of storage and an array of specialized software entered on a standard ASCII terminal is also available. Peripherals include a Technics SL 1600 MK2 turntable system, an Akai GX-M50 cassette deck, a frequency counter and a digital clock.

Written proposals for individuals or group projects to be sponsored or subsidized by SYCOM and/or extramural granting agencies should be submitted for consideration to the director of SYCOM. The subsequent results of project activities will be exhibited in the form of public lectures, performances, reports, publications, or large theatrical events and special workshops, such as Sound Gallery, the Event/Complex Series, Art-Tech Workshop, and the new music/media festival, INTERMUSE.

Unique Learning Opportunities:
The music department at the University of South Florida offers the student the opportunity to study with a distinguished faculty, work with the newest in creative equipment, and to be in the company of other superior music students for an extensive, exciting and exacting period of study. In addition to the already established programs in the music education, choral, orchestral and wind ensemble areas, opportunities are now available in jazz with performances with the jazz ensemble and chamber jazz ensembles, a full range of jazz courses and professional playing opportunities in the area.

Visiting Artists and Artists-in-Residence:
The Department of Music utilizes guest composers, conductors, and performing musicians to enhance its offerings in terms of teaching faculty, forum appearances, and the conducting of musical programs, symposia, and clinics. Some prominent musicians who have appeared in the past are:

- Norman Dello Joio
- Randall Thompson
- Virgil Thompson
- Walter Trampler
- Fred Hemke
- Lukas Foss
- Maurice Andre
- Jean Pierre Rampal
- Adele Adson
- Byron Janis
- Louis Bellson
- David Samuels
- Julius Baker
- Ransom Wilson
- T. J. Anderson
- Hale Smith
- George Russell
- Art Blakely
- Olly Wilson
- Guarneri String Quartet
- Beaux Arts Trio
- Boris Goldovsky
- Gregg Smith
- Norman Luboff
- Phil Woods
- David Baker
- John Cage
- Karel Husa
- Leslie Bassett
- Samuel Adler
- Gunther Schuller
- Robert Merrill
- Doc Severinsen
- Bethany Beardslee
- Robert Shaw
- Toshiko Akiyoshi

■ THEATRE (TAR)
The Department Major:
Through its curriculum and production program, the Department of Theatre offers to seriously interested students the opportunity to prepare themselves for the beginning of a professional career in the Theatre or to continue their studies at the graduate level. In addition, students from other departments and colleges have the opportunity to study and participate in the work of the department, thereby allowing them to gain insight into the creative experience of theatre.

After a thorough orientation to all facets of the art gained in the basic courses, the theatre major pursuing the Bachelor of Arts degree concentrates in the areas either of Performance Design or Theatre Arts. To earn a B.A. in Theatre, the student following the Design concentration must take a minimum of 55 credit hours. The Design students are required to take an additional 4 credits (ART 3301C) in the Art Department. (These may be applied to the college requirement of 6 credit hours outside the department but within the college. May also be
applied to general distribution requirement Area II. The student following a Performance concentration must take a minimum of 54 credit hours. In addition to these, a number of electives in the department may be taken to broaden the general program or to pursue a particular interest in more depth. The Theatre Arts concentration is intended for the student who desires a broad spectrum of experience or who has an area of interest other than Performance or Design. These may include Directing, Puppetry, or Playwrighting.

To allow for greater preparation in professional theatre, a Bachelor of Fine Arts degree is offered. This program allows one of two concentrations: either Performance or Design. Students will be expected to earn 30 credit hours beyond the B.A. (overall 154 credits from the University). Normally the B.F.A. should be accomplished in 10 semesters.

For other non-major requirements see the College of Fine Arts requirements and the University's General Distribution and graduation requirements.

Through the production program, which includes various performances for general audiences, children, and departmental faculty and students, the student has the opportunity to participate in many different ways, thereby gaining practical experience that is essential to his/her development as an artist. The Department offers opportunities to the advanced student to work with the professional companies (dance, theatre and music) that come to the campus. For all students a broad involvement in all facets of their fields of concentration is encouraged.

**Visiting Artists and Artists-in-Residence:**
Despite the fact that the University is relatively young, the department has had in residence artists from many kinds of theatre and many countries including: London's West End, The Actors' Studio, Dublin's Abbey Theatre, Broadway, Washington's Arena Stage. San Francisco Mime Troupe, The Stratford Ontario Shakespeare Festival, The Welsh National Theatre, BBC, the London Academy of Music and Dramatic Art, the working Theatre, Coventry's Belgrade Theatre, Paris, Hollywood, Moscow, East Berlin's Deutsches Theater, Free Theatre of Munich, The Socialist Republic of Armenia and Poland. A partial, alphabetized list would include Edward Albee, Joseph Chaikin, Martin Eslin, Miriam Goldina, Boris Goldovsky, Henry Hewes, Mesrop Kesdekan, Michael Kirby, Arthur Lithgow, Marcel Marceau, Siobhan McKenna, Estelle Parsons, Olga Petrovna, Ben Piazza, Sergei Ponomarov, Alan Schneider and Doug Watson.

**Requirements for the B.A. Degree with a Major in Theatre**
In the total of 124 credit hours for graduation, the student following a Performance concentration must take a minimum of 54 credit hours, and the student following the Design concentration or Theatre Arts concentration must take a minimum of 55 credit hours within the Department of Theatre. In addition, a maximum of 11 credit hours (Performance concentration) and a maximum of 10 credit hours (Design or Theatre Arts concentration) may apply to the theatre electives area.

The student may choose one of three tracks for the B.A. degree: Performance, Design, or Theatre Arts. Common to all tracks is the following core:

<table>
<thead>
<tr>
<th>Core Curriculum (35 hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year (11 credit hours)</td>
</tr>
<tr>
<td>THE 2020 2 credit hours</td>
</tr>
<tr>
<td>TPA 2200 3 credit hours</td>
</tr>
<tr>
<td>TPA 2223 3 credit hours or</td>
</tr>
<tr>
<td>TPA 2232 3 credit hours</td>
</tr>
<tr>
<td>TPA 2232 3 credit hours</td>
</tr>
<tr>
<td>TPA 2110 3 credit hours</td>
</tr>
<tr>
<td>Second Year (10 credit hours)</td>
</tr>
<tr>
<td>THE 3110 4 credit hours</td>
</tr>
</tbody>
</table>

| TPA 3111 3 credit hours |
| TPA 3086 3 credit hours |
| Third Year (8 credit hours) |
| Choice of two: |
| THE 4320 3 credit hours |
| THE 4330 3 credit hours |
| THE 4370 3 credit hours |
| THE 4401 3 credit hours |
| THE 4442 3 credit hours |
| THE 4480 3 credit hours |
| plus 2 credits of either THE 3925 or THE 4927 for ACPI* |

| Fourth Year (6 hours) |
| Choice of one: |
| THE 4180 4 credit hours |
| THE 4562 4 credit hours |
| plus 2 credits of either THE 3925 or THE 4927 for ACPI* |

*All Theatre Majors must complete 4 ACPI's (Advanced Course Production Involvement) as part of their graduation requirements. ACPI's must be taken under:
THE 3925 Performance 1 credit hour and/or
THE 4927 Advanced Performance 1 credit hour for a total of four (4) hours. Students may register for ACPI credit second semester of the Sophomore year and are expected to register each consecutive semester until completion of four involvements. A graduation requirement.

**Required Courses for Concentrations:**

**Performance Concentration**
(54 hours minimum with core) - 19 hours as follows:

<table>
<thead>
<tr>
<th>Second Year (4 hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPA 3500 2 credit hours</td>
</tr>
<tr>
<td>TPA 3790 2 credit hours</td>
</tr>
<tr>
<td>Third Year (8 hours)</td>
</tr>
<tr>
<td>TPA 4140 4 credit hours</td>
</tr>
<tr>
<td>TPA 4150 4 credit hours</td>
</tr>
<tr>
<td>Fourth Year (7 hours)</td>
</tr>
<tr>
<td>TPA 4152 4 credit hours</td>
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<tr>
<td>TPA 4920 3 credit hours</td>
</tr>
</tbody>
</table>

**Design Concentration**
(55 hours minimum with core) - 20 hours as follows:

<table>
<thead>
<tr>
<th>First Year (3 hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete Theatre Crafts sequence with TPA 2223 or TPA 2232</td>
</tr>
<tr>
<td>Second Year (3 hours)</td>
</tr>
<tr>
<td>TPA 4211 3 credit hours</td>
</tr>
<tr>
<td>ART 3301 4 credit hours</td>
</tr>
<tr>
<td>Third Year (6 credit hours)</td>
</tr>
<tr>
<td>Choice of 2 depending on choice of design area:</td>
</tr>
<tr>
<td>TPA 3221 3 credit hours or</td>
</tr>
<tr>
<td>THE 4264 3 credit hours or</td>
</tr>
<tr>
<td>THE 4266 3 credit hours</td>
</tr>
<tr>
<td>Fourth Year (8 credit hours)</td>
</tr>
<tr>
<td>Choice of 2 depending on design area:</td>
</tr>
<tr>
<td>TPA 4020 4 credit hours</td>
</tr>
<tr>
<td>TPA 4040 4 credit hours</td>
</tr>
<tr>
<td>TPA 4060 4 credit hours</td>
</tr>
</tbody>
</table>
Theatre Arts Concentration
(55 hours minimum with core) - 20 hours as follows:
Two credit hours from any of the Performance sequence of courses (TPP) plus eighteen hours to be selected from the Theatre Department’s course offerings.

Freshman Lab and Advanced Course Production Involvement:
TPA 2200, TPA 2223 and TPA 2232 have a weekly 4 hour laboratory (LAB) in addition to weekly lectures (3 hours).

Beginning with the second semester of the sophomore year, the Theatre major is expected to enroll each succeeding semester in either THE 3925 or THE 4927 (1 credit). All theatre majors must satisfy four ACPI's before they are approved for graduation. The ACPI's are assigned by the faculty and are usually construction or running crews or performance assignments. Each assignment entails a minimum of 55 hours.

Requirement for a Minor in Theatre
(23 hours minimum):
THE 2020 2 credit hours
TPA 2223 3 credit hours or
TPA 2232 3 credit hours
TPP 2110 3 credit hours
TPA 2200 3 credit hours

The remaining 10 hours are to be selected by the student based on personal interest. At least 9 hours must be upper level courses. The Theatre Advisor will be available to assist the student in developing a course of study that will meet the needs of the individual student.

Students desiring admittance into the Scene Study sequence must audition and those entering the Design sequence must have a portfolio review.

All Theatre Minors must complete 2 ACPI’s (Advanced Course Production Involvement) as part of their graduation requirements. ACPI’s must be taken under: THE 3925-Performance 1 credit and/or THE 4927-Advanced Performance 1 credit hour for a total of two (2) hours. Students may register for ACPI credit second semester of the Sophomore year and are expected to register each consecutive semester until completion of two involvements.

All Theatre minors must satisfy two ACPI’s before they are approved for graduation.

All Theatre courses (with the exception of the above mentioned lab courses) are subject to consent of the instructor.

Requirements for the B.F.A. Degree in Theatre:
The student should submit a letter of application as early as the second semester of the Junior year. This should be accompanied by a transcript and a detailed description of production involvement.

The student will concentrate in either Performance or design technology.

Admission to the B.F.A. program is by audition or portfolio presentation and acceptance by the appropriate faculty committee.

As soon as the B.F.A. candidate has been accepted into the program, the Chairman of the Theatre Curriculum Committee in conference with the student and with the approval of the department chairman will select the student’s Advisory Committee. The Advisory Committee will be composed of three members of the Theatre faculty.

This committee has the responsibility to develop a curriculum designed to meet the specific needs of the student and will decide if the following requirements have been met and appropriate standards maintained: (Theatre courses taken prior to the appointment of the B.F.A. Advisory Committee and without the advice of the Committee cannot be considered part of the B.F.A. program.)

Completion of the appropriate Department of Theatre B.A. requirements.
Development and execution of a creative project.
Participation in one summer session.
A minimum of 30 credit hours above the B.A. including 6 credits of non-theatre electives.

Design Concentration
7 hours in Creative Project and Execution:
THE 4905 or THE 5909 (Research & Design Creative Project) (4 credit hours) and
TPA 4012 Project Design: Honors (3 credit hours)
Complete third area of design and prerequisite (7 credit hours) 10 credit hours of additional electives of which 6 must be outside the Department of Theatre.
PLUS 6 credit hours.
TPP 4310. Directing I (3 credit hours)
THE 4900 Directed Reading (3 credit hours)

Performance Concentration
12 credit hours of production preparation through Performance classes from the following:
THE 4905 1-4 credit hours
THE 4930 1 credit hour
TPA 2250 1 credit hour
TPA 3810 3 credit hours
TPA 3840 4 credit hours
TPP 3121 3 credit hours
TPP 3122 3 credit hours
TPP 3235 3 credit hours
TPP 3510 2 credit hours
TPP 4220 2 credit hours
TPP 4310 3 credit hours
TPP 4311 3 credit hours
TPP 4610 3 credit hours

12 credit hours of additional electives of which 6 must be outside the Department of Theatre
PLUS 6 credit hours:
TPP 4180 3 credit hours
THE 4900 3 credit hours

Honors Program
The Department of Theatre offers to majors designated for the Honors Program the following 6-credit sequence:
• a 2-credit seminar.
• a 3-credit course consisting of creative project work determined by the instructor and a guest artist.
• a 1-3 credit thesis or realized project designed by the student with consultation by a faculty committee.
Students in the College of Natural Sciences are trained in the tools of logical analysis and the modes of experimentation in the continuing attempt to better understand the nature of man and his relationship to the universe. In all its functions the College is dedicated to fostering a spirit of inquiry and intellectual growth.

The College of Natural Sciences offers programs in biology, including botany, microbiology, and zoology; chemistry; geology; marine science; mathematics; medical technology; and physics. These programs are designed for students planning scientific careers in the science fields or for those planning professional careers having a considerable component of science. These students will typically major in one of the sciences or in a combination of sciences as preparation for employment, or admission to professional or graduate schools.

In addition, the college administers advising for the preprofessional sciences non-degree program, the medical technology and clinical chemistry degree program. These programs combine specialized counseling and curriculum planning to assist the student in gaining admission to a professional school or internship program.

**BACCALAUREATE LEVEL DEGREE PROGRAMS**

**Admission to the College**

To be admitted to the College of Natural Sciences a student must make written application. Upon admission, the student will be assigned a faculty advisor for counseling and program planning. Students preparing for a science or mathematics career must plan their courses carefully because of the sequential nature of the science curriculum, and students seeking entrance into a professional school or medical technology internship program require specialized counseling. Because of this, immediate application for admission into the college is strongly recommended.

Information on admission criteria, departments, majors, programs, counseling, and other services of the college may be obtained from the office of the Dean, College of Natural Sciences, University of South Florida, Tampa, Florida 33620.

**General Requirements for Degrees**

In addition to the University graduation requirements, the requirements for graduation in any undergraduate degree in the college are as follows:

1. Completion of a major program with a grade of “C” or higher in each course. A major program is defined to be courses in a department of concentration plus supporting courses in related departments. All courses in the major program must be taken with letter grade (A, B, C) except those courses which are graded S/U only. For a more detailed description of the major program requirements, consult the appropriate departmental section. Certain courses offered in the college are designed for the non-science major or the non-departmental major. These courses are designated “For non-major,” “No credit for (department) major,” “No credit for science majors,” or some similar phrase. For these courses the following rules apply.

   "For non-majors": For majors in the college, the course will count as credit toward graduation only as a free elective.

   "No credit for (department) major": the course will not count toward graduation for a science major in the specified department, but will count toward graduation as a free elective for all non-specified departments.

   "No credit for science majors": the course will not count toward graduation for any major in the college.

2. Satisfaction of the University General Distribution Requirement, except:
   a. In area III, the minimum requirement of six hours in mathematics may be waived by credit in at least six hours of mathematics courses required by the major.

3. Completion of the college of Natural Sciences Liberal Arts Electives Requirements. This is 15 hours of courses from the Colleges of Fine Arts, Social and Behavioral Sciences, or Arts and Letters. The student may elect any course from any of these colleges provided:
   a. No more than 9 hours are taken in courses in any one department.
   b. The courses are taken with letter grades (A,B,C,D). Courses taken to satisfy the University Distribution Requirement may not be used to satisfy this requirement. However, “Gordon Rule” writing courses may be used, if not used in General Distribution Requirement.

4. Subsequent to admission to the college, a student must complete at least 30 credit hours of letter graded courses in the college, of which at least 12 hours must be applicable to a major. Up to 2 credits of elective physical education, and up to 9 credits in military science courses MIS 1000, 3404, 4421C may count as free electives toward graduation. Credits transferred from other schools will not be included in the grade point average computed for graduation.

   For graduation with honors, see section in Academic Policies and Procedures.

   The college or department in the college may have specific requirements in addition to those listed in this catalog. College rules or requirements are on file in the dean’s office, and departmental rules or requirements are on file in each department office. The student is responsible for meeting all graduation requirements.

5. Satisfactory completion of the College Level Academic Skills Test and the writing and computation course requirements of State Rule 6A-10.30.

**Grading Systems**

The College of Natural Sciences will provide some evaluation of performance in all structured undergraduate courses prior to the drop deadline. Typically, courses in the University receive letter grades (A, B, C, D, F). However, the college recognizes that educational competence may be achieved and demonstrated by experiences other than classroom attendance leading to letter grades. The attention of the student is directed to the following:

1. CLEP and other advance placement examinations.
2. Waiver by either documentation or examination.
3. Off-Campus Term programs.
4. Cooperative Education Program.
5. Independent Study

   a. With the exception of courses graded S/U only, all courses required to satisfy the departmental major and all supporting science courses are considered in the student’s major program and may not be taken S/U. However, once the requirements of the major program have been satisfied, subsequent courses taken in the major or supporting areas are considered free electives and may be taken S/U. All hours required to complete the Liberal Arts Elective Requirement of 15 hours must be taken by letter grade.

   b. With the exception of ENC 1101 and ENC 1102, all courses in the General Distribution Requirements and all courses in free electives may be taken S/U. There is no restriction regarding the number of hours to be taken S/U except the graduation requirement that the student must earn at least 30 credit hours with letter grades in the College of Natural Sciences subsequent to formal admission to the college.

   c. Students will be permitted to enroll in a course for an S/U on the basis of a written contract signed by the student, and the instructor of the course. This contract must be completed no later than the third week of the semester in which the course is offered.
The College offers the Bachelor of Arts degree with majors in Chemistry above disciplines or in Biology. The college offers the Bachelor of Interdisciplinary Natural Sciences Biotechnology and Environmental Science. The College requirements, consult appropriate departmental sections of this Catalog.

To complete a minor, a student must satisfy the course requirements found in the departmental sections of this catalog and must satisfy the University requirements. In addition, the student must earn a grade of "C" or higher in each course used to meet a minor requirement of departments of the College of Natural Sciences.

PREPROFESSIONAL SCIENCES

The University of South Florida is an excellent location to prepare for a health profession. The Veterans Administration Hospital, University of South Florida Medical Center, Shriner’s Hospital for Crippled Children, H. Lee Moffitt Cancer Center and Research Institute, University of South Florida Mental Health Institute, and University Community Hospital are within walking distance of the campus and offer students excellent opportunities for observation, research, and experience.

The College of Natural Sciences offers programs designed to prepare students for admission to professional schools of medicine, osteopathic medicine, dentistry, optometry, podiatric medicine, and veterinary medicine. Usually these professions require four years of preprofessional preparation followed by four years of training in a professional school. A few well-prepared students with exceptional qualifications may be admitted to some professional schools as early as the completion of the junior year, the usual time of application.

The Preprofessional Sciences Program is designed to prepare students for admission to professional schools of dentistry, medicine, osteopathic medicine, and podiatric medicine. All of these professional schools have in common the following course requirements, which should be completed by the end of the junior year, the usual time of application:

**Biology:**
- BSC 2010C (4)
- ZOO 2010C (4)

**Chemistry:**
- CHM 2045 (3)
- CHM 2045L (1)
- CHM 2046 (3)
- CHM 2046L (1)

**Physics:**
- PHY 2053 (3)
- PHY 2053L (1)
- PHY 2054 (3)
- PHY 2054L (1)

**Mathematics:**
- MAC 2233 (4)
- MAC 2234 (4)

In addition to these requirements it is generally expected that preprofessional students will complete two semesters of English. CLEP credit usually is not acceptable to professional schools.

Premedical students must include the following courses to meet additional admission requirements of medical schools in Florida:
- PCB 3063 (3)
- STA 3023 (4)

The following courses are recommended by some professional schools:

**Biology:**
- MCB 3010C (4) ZOO 4693 (4) PCB 4184C (4)
- PCB 3063 (3) PCB 4743C (4) ZOO 3713C (4)
- PCB 4023C (4)

**Chemistry:**
- BCH 3033 (3) CHM 3401 (3) CHM 3120C (4)
- CHM 3400 (3)

**Preoptometry Program**

Optometry schools differ somewhat in requirements, but all optometry schools require at least two years of preoptometry studies, and most schools require the following courses:

**Biology:**
- BSC 2010C (4)
- MCB 3010C (4)

**Chemistry:**
- CHM 2045 (3)
- CHM 2046 (3)
**Pre-Veterinary Medicine Program**

The Pre-Veterinary Medicine program meets admission requirements of the University of Florida College of Veterinary Medicine, the only veterinary school in the state. Admission into veterinary school is highly selective, and to be competitive students should obtain experience working with animals, preferably through employment while including the following entrance requirements:

- **Biology:**
  - BSC 2010C (4)
  - ZOO 2010C (4)
- **Chemistry:**
  - CHM 2045 (3)
  - CHM 2046L (1)
  - BCH 3033 (3)
- **Mathematics:**
  - MAC 2233 (4) or MAC 3311 (4)
- **Physics:**
  - PHY 2053 (3)
  - PHY 2055L (1)

The following additional courses are required by schools that have contracts with the State of Florida: MAC 2234, CHM 3211, CHM 3211L, BCH 3033, PCB 4743C, PSY 2012, PSY 3013, and a social sciences elective. Some schools also recommend or require ZOO 3713C, and one school also requires APB 3190.

**Pre-Physical Therapy Program**

This two-year program prepares students for entrance into upper level physical therapy programs at Florida institutions. Pre-physical therapy students must complete general education requirements and include the following science requirements:

- **Biology:**
  - BSC 2010C (4)
  - ZOO 2010C (4)
- **Chemistry:**
  - CHM 2045 (3)
  - CHM 2045L (1)
- **Physics:**
  - PHY 2053 (3)
  - PHY 2053L (1)

In addition, certain regional schools require 3 or more hours of economics, statistics and additional hours of electives in speech or communication and social and behavioral sciences. Prepharmacy students should take the Pharmacy College Admission Test (PCAT) in the fall of the sophomore year and apply to pharmacy schools at that time.

**B.A. Degree for Medical and Dental Students**

Students who are admitted to an approved U.S. medical or dental school after completing their junior year at the University of South Florida may be awarded the B.A. degree in Interdisciplinary Natural Sciences from the College of Natural Sciences subject to the following conditions:

1. Transfer of a minimum of 30 semester hours in science courses from an approved medical or dental school.
2. Fulfillment of the following minimum requirements in attendance at the University of South Florida:
   a. 90 hours with at least a "C" average (2.000).
   b. Completion of a minimum of 24 hours in the department of major concentration and a minimum of 16 hours in supporting courses in the College of Natural Sciences outside the department of major concentration. The 24 hours in the department of major concentration must be in courses applicable to a major in that department. The 16 hours in supporting courses must also be taken in courses applicable to a major in that department and must include a minimum of two courses at the 3000 level or above. At least a "C" must be earned in each course in both major concentration and supporting courses.
3. Credit in the following courses:

<table>
<thead>
<tr>
<th>Biology:</th>
<th>Chemistry:</th>
</tr>
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<tbody>
<tr>
<td>BSC 2010C (4)</td>
<td>CHM 2045 (3)</td>
</tr>
<tr>
<td>ZOO 2010C (4)</td>
<td>CHM 2045L (1)</td>
</tr>
<tr>
<td>CHM 2045L (1)</td>
<td>CHM 2046 (3)</td>
</tr>
<tr>
<td>CHM 3210L (1)</td>
<td>CHM 2046L (1)</td>
</tr>
<tr>
<td>CHM 3211 (4)</td>
<td>CHM 3211L (1)</td>
</tr>
</tbody>
</table>

The following courses are required or recommended at specific institutions:

<table>
<thead>
<tr>
<th>Biology:</th>
<th>CHM 2045 (3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZOO 2010C (4)</td>
<td>CHM 2045L (1)</td>
</tr>
<tr>
<td>CHM 2046 (3)</td>
<td>CHM 2046L (1)</td>
</tr>
</tbody>
</table>

Some schools also recommend or require PCB 4744C, MAC 2234, CHM 3211, ZOO 3713C, and one school also requires APB 3190.
## 114 COLLEGE OF NATURAL SCIENCES

### Physics:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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<td>PHY 2054L</td>
<td>(1)</td>
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</table>

4. A minimum of 20 credits from the following courses:

### Biology:

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<tr>
<td>PCB 4743C</td>
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### Chemistry:

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<td>CHM 3120C</td>
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### Mathematics:

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<td>STA 3023</td>
<td>(4)</td>
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<tr>
<td>MAC 2132</td>
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<td>MAC 3312</td>
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### TEACHER EDUCATION PROGRAMS

The College of Natural Sciences offers B.A. and M.A. degree programs for secondary school teachers and the M.A. degree for junior college teachers.

### B.A. Degree Program for Secondary School Teachers:

The College of Natural Sciences in cooperation with the College of Education offers degree programs in Mathematics (MAE), in Biology (BOE), in Chemistry (CHE), in Physics (PHE) and in Science (SCE). Because requirements exist in both colleges, a student will have an advisor in each college. At the outset, the planned courses in mathematics and science must be approved by the student’s advisor in the College of Natural Sciences.

There are two options available to the student to satisfy the science portion of the program:

1. The student may complete the requirements of the departmental major. Departmental majors in Botany and Zoology may be found in this section of the catalog under the heading Biology. The departmental requirements of Chemistry, Mathematics, and Physics are found in this section of this catalog under the respective headings in Chemistry, Mathematics, and Physics.

2. The student may complete requirements of the Interdisciplinary Natural Sciences major with concentration in Biology, Chemistry, Physics, and Mathematics. A complete description of this major is found in the College of Education Section. This major is particularly appropriate for Science Education majors (SCE).

Prospective students should consult the College of Education portions of this catalog under the heading “Science Education (SCE)” for the required education courses and sample programs.

### CURRICULA

**BIOLOGY (BIO/BOT/MIC/ZOO)**

In addition to a set of basic courses in biology, students must have a thorough preparation in other areas of natural sciences in order to be competitive for jobs or for further study beyond the baccalaureate. A modern biology curriculum is built on a foundation of mathematics, chemistry and physics.

Four specific Bachelor of Science degrees (Biology, Botany, Microbiology, and Zoology) are available for students interested in the biological sciences. They are all preparatory for careers in teaching, agriculture, medicine, dentistry, marine biology, biotechnology, or for post-graduate study in any of the various life sciences. The Department attempts to schedule sequences of 5000 level courses which allow seniors in the Biology program to concentrate in such areas as: Ecology, Cell & Molecular Biology, Physiology, and Marine Biology. Students should study the requirements listed below and then make maximum use of the vigorous advising program maintained by the Department in structuring their total program. A reading knowledge of a modern foreign language (German, French, or Russian) is strongly recommended for those who intend to enter graduate school.

### Requirements for the B.S. Degree

1. Department of Biology Courses
   a. **Biology Core Courses** (Required for all B.S. degrees, 19 cr. hrs.)
      - BSC 2010C (4)
   Two of the following:
      - BOT 2010C (4)
      - ZOO 2010C (4)
      - MCB 3020C (4)

### Postbaccalaureate Preprofessional Sciences Program

A special two-year non-degree program is administered by the Preprofessional Sciences Committee of the College of Natural Sciences for students who hold a baccalaureate degree and need additional courses to prepare for application to professional schools. The program is designed for students who have not completed minimal admission requirements as undergraduates, or who have completed requirements but need to further demonstrate their ability to perform well in the sciences. Students in the program will have the advantage of priority registration in the College of Natural Sciences, and upon completion of the program the Preprofessional Sciences Committee will send letters of evaluation to the professional schools where the students are applying.

In order to participate in the program, students must have a baccalaureate degree and be admitted by both the Preprofessional Sciences Committee and the university. Students should usually have a GPA of 3.0 (on a 4.0 scale) and demonstrate to the Committee potential for success through this program by their recent improvement in academic record, performance in science courses, or previous test scores. Applications for the program may be obtained from the Preprofessional Sciences Advising Office. All materials must be in the Preprofessional Sciences Advising Office no later than March 15 for the fall semester and October 1 for the spring semester.

Once admitted to the program students must complete a minimum of 15 hours per semester (excluding summers) of courses approved by the Preprofessional Sciences Committee with a minimum grade point average of 3.3 each semester. The curriculum is planned individually according to the student’s background, and an approved schedule would typically include at least three rigorous science courses. Courses will generally be at the undergraduate level. Some students may make application to professional schools after one year in the program, but a second year may be necessary. Students lacking familiarity with the profession are expected to obtain adequate exposure while enrolled in the program.

### Additional Resources

For more information, students should consult the College of Education portions of this catalog under the heading “Science Education (SCE)” for the required education courses and sample programs.
2. Supporting Courses in the Natural Sciences (required for all)

b. Individual Degree Requirements

**BIOLOGY MAJOR** (BIO) (21 cr. hrs.)

One of the following:

- PCB 4743C (4)
- BOT 4503 (4)
- MCB 4404 (4)

plus one of the following:

- PCB 4184C (4)
- ZOO 4693C (4)
- ZOO 3713 (4)

The remaining credits may be taken from electives in the department structured and applicable to the major to meet the minimum requirement (at least 8 hours must be at the 4000 level or higher). BCH 3033 may apply toward the Biology electives as well as 4 hrs. of BSC 4910.

**BOTANY MAJOR** (BOT) (21 cr. hrs.)

- BOT 2010C (0)
- ZOO 2010C (0) or MCB 3020C (0)
- BOT 4503 (4)
- PCB 4043C (3) or equivalent

Of the remaining credits, not less than 9 must be selected from structured Botany (BOT) courses at the 4000 level or above.

Additional credits to meet the minimum may be taken from courses (BOT, BSC, PCB) applicable to the major. A maximum of four (4) hours of BSC 4910 may apply toward the Botany electives (no more than two hours per semester).

**MICROBIOLOGY MAJOR** (MIC) (24-27 cr. hrs.)

- BOT 2010C (0) or ZOO 2010C (0)
- MCB 3020C (0)
- MCB 4115 (5)
- APB 4053C (5) or PCB 5235C (3)
- MCB 4404 (4)
- MCB 4505C (3)
- MCB 4934 (1)

plus

- BCH 3033 (3) and BCH 3033L (2)

*Plus one of the following:*

- APB 5575C (4)
- BOT 4434C (3)
- ZOO 5235C (4)

**ZOOLOGY MAJOR** (ZOO) (19-22 cr. hrs.)

- ZOO 2010C (0)
- BOT 2010C (0) or MCB 3020C (0)
- PCB 4043C (3)
- PCB 4743C (4)
- PCB 4674 (3)

Three (3) additional structured courses from the Zoology section of the catalog (ZOO, PCB, ENV) or BSC 3263, PCB 4253, PCB 5415, or PCB 5835C (which are listed in the Biology section of the catalog).

2. Supporting Courses in the Natural Sciences (required for all B.S. degrees, 27-38 cr. hrs.)

**Chemistry**

- CHM 2045 (3)
- CHM 2045L (1)
- CHM 2046 (3)
- CHM 2046L (1)

*Plus the following two courses:*

- CHM 3200 (4)
- CHM 3210L (1)

*or the following four courses:*

- CHM 3210 (4)
- CHM 3210L (1)

**Mathematics**

- MAC 2233 (4)
- MAC 2234 (4)
- STA 3023 (4)

*or the following two courses*

- MAC 3311 (4)
- MAC 3312 (4)

*or the following two courses*

- MAC 3281 (3)
- MAC 3282 (3)

3. General Distribution requirements (required for all B.S. degrees, 18 cr., assuming waivers of Areas 3 and 4). Each student is required to satisfy the General Distribution requirements of the College of Natural Sciences. The selection of courses within the requirements is to be done in conference with Biology Department advisors.

4. Liberal Education Electives

The student must satisfy 15 hours of liberal education electives as described in item 3 of the graduation requirements of the College of Natural Sciences.

5. Free Electives (including General Distribution Waivers) can be taken over and above major requirements and major electives to complete a 120-hour program.

**TECHNICAL DEGREES WITHIN THE DEPARTMENT OF BIOLOGY**

The Department of Biology offers specialized technical degrees (tracks) within the General Biology B.S. degree emphasizing Environmental Science and Biotechnology.

The Environmental Science Tracks are designed to provide both a strong Liberal Arts education in Biology and the technical skills for active participation in resource management and conservation. These tracks are more structured than traditional degree programs and will require some additional course work (beyond 120 hrs). However, completion of the tracks will better prepare students for graduate school in any of the environmental disciplines, or for applied Biology vocations.

**ENVIRONMENTAL SCIENCE TRACK B.S. IN BOTANY**

1. Department of Biology

   **Major requirements (min. 40-41 hrs.)**

   - BSC 2010C (4)
   - ZOO 2010C (4)
   - BOT 2010C (4)
   - PCB 3063 (3)
   - PCB 4023C (4)
### ENVIRONMENTAL SCIENCE TRACK B.S.
#### IN ZOOLOGY

I. Department of Biology

Major requirements (min. 40-41 hrs.)

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<thead>
<tr>
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<td>ZOO 5225C</td>
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*by approval of biology advising committee

II. Supporting Courses for both Environmental Science Tracks

(min. 34*-38 hrs.)

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<th>Course</th>
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<tr>
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</tbody>
</table>

*by approval of biology advising committee

III. IV. and V. General university requirements.

To ensure a multidisciplinary approach, the environmental science tracks require specific courses to meet the general distribution, liberal arts, and free elective requirements. These requirements are available from the Department of Biology.

### BIOTECHNOLOGY TRACK B.S.

The Biotechnology Track in Biology is designed for students planning to pursue careers in Biotechnology either upon completion of the baccalaureate or after further training at the graduate level. The curriculum provides broad emphasis on Cell Biology, Molecular Biology, and Microbiology.

I. Department of Biology

Major Requirements min. 38 hrs.

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
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One of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BSC 3263</td>
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<tr>
<td>BOT 5185C</td>
<td>(Marine Botany)</td>
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<td>ZOO 3203C</td>
<td>(Introductory Invertebrate Zoology)</td>
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<td>ZOO 5555C</td>
<td>(Marine Animal Ecology)</td>
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<tr>
<td>ZOO 5335C</td>
<td>(Biogeography)</td>
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</table>

The Biology Department offers M.S. degrees and the Ph.D. degree which allow specialization in marine biology.
CHEMISTRY (CHS/CHM/CHC)

The Department of Chemistry offers three degrees at the baccalaureate level, Bachelor of Arts degree in Chemistry, Bachelor of Science degree in Chemistry, and Bachelor of Science degree in Clinical Chemistry, and two degrees, Master of Science and Doctor of Philosophy, each with specialization in the areas of analytical chemistry, biochemistry, inorganic chemistry, organic chemistry, and physical chemistry, at the graduate level. In addition, a Master of Arts degree in Chemistry is offered as part of a carefully integrated accelerated B.A.-M.A. program. The chemistry faculty is comprised of 28 full-time senior faculty members, all of whom hold the Ph.D. degree. A comparable number of teaching assistants, generally graduate students enrolled in the Ph.D. program, serve as instructors in the laboratories. The combination of a large and strong faculty with a wide variety of courses and electives provides students with programs of study which can be tailored to fit individual needs while maintaining a sound background in all general aspects of chemistry.

The Bachelor of Science degree in Chemistry (CHS) is a rigorous program which supplies the foundation in chemistry required for both the student who begins a chemical vocation immediately upon graduation as well as the one who pursues advanced study in chemistry or related areas. In accord with this goal the curriculum for the B.S. degree meets the requirements for degree certification by the American Chemical Society.

The Bachelor of Science degree in Clinical Chemistry (CHC) offered by the Department of Chemistry, one of only a few such programs in the country, is specifically designed to train personnel for this new and growing field of the medical profession; however, the strong scientific background and specific technical expertise provided by this program also afford the student an excellent preparation for graduate study in clinical chemistry, biochemistry, or medicine. Interested students should see the Coordinator of the Clinical Chemistry Program in the Department of Chemistry for further information.

The Bachelor of Arts degree (CHM) provides a course of study designed for the student who does not intend to become a professional chemist but whose career goals require a thorough understanding of chemistry. Inherent in this program is a high degree of flexibility which permits tailoring a course of study to the student’s own educational objectives. As such it offers considerable advantages to pre-professional students planning careers in medicine and the other health-related fields and an excellent preparation for primary and secondary school teachers of chemistry or physical science. The B.A. student whose goals change in the direction of graduate work in chemistry should supplement this curriculum by addition and/or substitution of a selection of advanced courses from the B.S. program.

The combined Bachelor of Arts–Master of Arts program is a carefully integrated accelerated course of study and research in which an exceptionally able student can earn both degrees within five years from entry as a freshman or three from entry as a junior college transfer. The B.A. coursework is augmented, and research is undertaken continuously from the junior year onwards, so that the student who elects to exit from the program at the bachelor’s level, to enter medical school, for example, can depart with a degree which meets requirements for American Chemical Society certification and with an unusually strong research background. For the student who continues into the graduate year, the M.A. program allows considerable freedom of choice among the available chemistry courses, so that the student’s own preference within chemistry may be cultivated with unusual intensity. Research and coursework proceed without interruption, there being no additional admission requirements or diagnostic examinations, and the graduate degree is earned by the end of the summer of the graduate year. Upon completion of the program, the student is exceptionally well placed to continue to professional school or to further graduate work leading to the doctorate degree.

Requirements for the Baccalaureate Degrees

1. Chemistry Courses*

B.A. CHEMISTRY (CHM) (39 cr. hrs.)

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Chemistry electives (3000 level or above; may include not more than one hour of CHM 4970 (6)

B.S. CHEMISTRY (CHS) (50 cr. hrs.)

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B.S. CLINICAL CHEMISTRY (CHC) (49 cr. hrs.)

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2. Supporting Courses in the Natural Sciences

B.A. CHEMISTRY (CHM) (24 cr. hrs.)

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Electives (must be acceptable for credit towards a Natural Science College discipline major) (8)

B.S. CLINICAL CHEMISTRY (CHC) (37-40 cr. hrs.)

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B.S. CHEMISTRY (CHS) (20-23 cr. hrs.)

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Natural Science or Engineering Elective (3000-4000 level except PHY 3020) (3)

The required sequence of Chemistry courses should be started immediately in the freshman year and the mathematics and physics requirements should be completed before the junior year so that CHM 3400...
Graduate: Not less than 20 credit hours of formal, regularly scheduled chemistry graduate courses, including not less than two of the five core courses (BCH 5065, CHM 5225, CHM 5425, CHM 5621, CHM 6150). At least 10 of the credit hours must be at the 6000 level. The core course requirement may be waived in part or entirely by recommendation of the supervisory committee on the basis of past work, performance on a test, or substitution of more comprehensive and advanced courses.

Research and Thesis
CHM 4970 (12) CHM 6973 and CHM 6971 (10)

To satisfy the research credit hour requirements and to produce results suitable for publication in a refereed scientific journal, it will be necessary for the student to be enrolled during the summers of his junior, senior and graduate years. Completion of the program will require the presentation and formal defense of a research thesis for the master's degree.

Supervision and Promotion
A supervisory committee consisting of two faculty members will be appointed for each student admitted to the program. A carefully planned individual timetable will be worked out and progress will be monitored each semester. Continuation from the senior year into the graduate year will be contingent upon the maintenance of the "B" average in chemistry and overall, and upon satisfactory recommendation by the student's research director. Diagnostic and qualifying examinations will not be required of students in this program. The supervisory committee during the graduate year will consist of three faculty members, including the research director.

GEOLOGY (GLY)
The Department of Geology offers programs leading to the Bachelor of Arts or Bachelor of Science degree, and to a Master of Science degree. Geology is one of the broadest of all sciences because of its dependence on fundamentals of biology, chemistry, mathematics, and physics as applied to the study of the earth. As a result, undergraduate students are expected to obtain a broad background in the other sciences as well as a concentration in geology.

The Bachelor of Science degree program is designed to provide the geology major with a broad foundation that will prepare the student for employment in industry or with various governmental agencies, as well as the necessary training to continue study in graduate school. The Bachelor of Arts program is designed primarily for the liberal arts student who has interest in the subject but is not preparing for a career in the field or for the pre-professional school student. A student who elects the B.A. program and decides to pursue the geology profession or attend graduate school will need at least physics and field geology in his/her program.

The graduate program in geology allows the student to specialize in nearly all of the major areas of concentration. Because of the geographic and geologic location of the University in a rapidly expanding urban center of coastal Florida, there is a number of areas of specialization which are being emphasized. These include coastal geology, hydrogeology, low temperature and pollution geochemistry, applied geophysics, geology of sedimentary rocks, structural geology, volcanology, and phosphate deposits. All of these are closely related to local problems of the environment.

Requirements for the B.A. Degree:

1. Geology Courses (30 sem. hrs.)
   - GLY 2100 (4)
   - GLY 2200 (4)
   - GLY 2400 (4)
   - GLY 3400 (4)
   - GLY 3920 (1)

2. Supporting Courses (22-28 sem. hrs.)
A minor in Geology consists of 16 credit hours and must include GLY 2010 and 2100. Additional courses, approved by the geology adviser, are designed to complement the student’s major program. Only those courses which are acceptable toward the major in geology may be used toward the minor.
The department has a flexible Ph.D. program which is designed to encourage students to take an active role in the shaping of their own curricula. This flexibility is coupled with a desire to promote interdisciplinary research. In cooperation with the Departments of Marine Science and Physics, and the Colleges of Engineering and Medicine, the department offers special Ph.D. programs in the applications of mathematics. While programs in the more traditional areas of pure mathematics are offered, the department is committed to emphasizing applied mathematics at both the graduate and undergraduate levels. For both undergraduate and graduate work, students and faculty have access to the University's computers, an IBM 3033 and 3081, and to the college's Harris minicomputers.

The Department of Mathematics consists of 31 full-time faculty members, whose areas of interest include algebra, applied mathematics, applied statistics, approximation theory, celestial mechanics, complex analysis, functional analysis, graph theory, harmonic analysis on Lie groups, logic, mathematical physics, nonlinear functional analysis, number theory, ordinary differential equations, partial differential equations, probability theory, real analysis, statistics, theoretical computer science, and topology.

**Requirements for the B.A. Degree**

The courses taken to satisfy the requirements below will constitute the major program referred to in the general graduation requirements of the College of Natural Sciences.

1. **Mathematics Requirement** (Min. 46 cr. hrs.)
   Majors must complete the following core courses:
   - CGS 3422 Computer Applications of Mathematics -6A (3)
   - MAA 4211 Advanced Calculus I -6A (4)
   - MAA 4212 Advanced Calculus II -6A (4)
   - MAC 3311 (formerly MAC 3411) Calculus I -6A (4)
   - MAC 3312 (formerly MAC 3412) Calculus II -6A (4)
   - MAC 3313 (formerly MAC 3413) Calculus III -6A (4)
   - MAP 4302 Differential Equations -6A (3)
   - MAS 3103 Linear Algebra -6A (3)
   - MAS 4301 Elementary Abstract Algebra -6A (3)
   - MAA 4211 Advanced Calculus I -6A (4)
   - MAA 4212 Advanced Calculus II -6A (4)
   - MAC 3311 (formerly MAC 3411) Calculus I -6A (4)
   - MAC 3312 (formerly MAC 3412) Calculus II -6A (4)
   - MAC 3313 (formerly MAC 3413) Calculus III -6A (4)
   - MAP 4302 Differential Equations -6A (3)
   - MAS 3103 Linear Algebra -6A (3)
   - MAS 4301 Elementary Abstract Algebra -6A (3)
   - MAA 4211 Advanced Calculus I -6A (4)
   - MAA 4212 Advanced Calculus II -6A (4)
   - MAC 3311 (formerly MAC 3411) Calculus I -6A (4)
   - MAC 3312 (formerly MAC 3412) Calculus II -6A (4)
   - MAC 3313 (formerly MAC 3413) Calculus III -6A (4)
   - MAS 3103 Linear Algebra -6A (3)
   - MAS 4301 Elementary Abstract Algebra -6A (3)

   In addition, majors must complete four (4) courses (including one sequence) from the following electives:
   - COP 4210 (3) MAA 5306-5307 (6)
   - MAD 5101 (3) MAA 5405-5406 (6)
   - MAD 5305 (3) MAD 4124-4401 (6)
   - MAP 5205 (3) MAP 5316-5317 (6)
   - MAS 5107 (3) MAP 5407-5345 (6)
   - MAS 5215 (3) MAS 5311-5312 (6)
   - MTH 5302 (3) MTH 5316-5317 (6)
   - MTH 4212 (4) STA 4442-4321 (6)
   - STA 5206 (4) STA 5166-5167 (6)

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

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

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Semester II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman Year</td>
<td>Freshman Year</td>
</tr>
<tr>
<td>MAC 2132</td>
<td>MAC 3311</td>
</tr>
<tr>
<td>Sophomore Year</td>
<td>Sophomore Year</td>
</tr>
<tr>
<td>MAC 3312</td>
<td>MAC 3313</td>
</tr>
<tr>
<td>MAS 3103</td>
<td>MAS 4301</td>
</tr>
</tbody>
</table>

   Students with a strong background in high school mathematics may omit MAC 2132. Students with a strong background in algebra, but who are deficient in trigonometry, should take MAC 2114 instead of MAC 2132.

2. **Mathematics-related Courses** (6-8 cr. hrs.)
   Majors, except for majors in mathematics for teaching, must take two courses with laboratories in the College of Natural Sciences, outside the Department of Mathematics, that are required courses for some major within the college.

   Majors will not receive credit toward graduation for the following courses:
   - AST 3033
   - GEO 3121
   - STA 3122
   - ECO 4402
   - PHY 3020
   - GEO 2111
   - STA 3023

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

**Teacher Education Programs:**

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

**Mathematics Minor**

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

   **Total credit hours required:** 29 (minimum)
   - CGS 3422 Computer Applications of Mathematics -6A (3)
   - MAA 4211 Advanced Calculus I -6A (4)
   - MAA 4212 Advanced Calculus II -6A (4)
   - MAC 3311 (formerly MAC 3411) Calculus I -6A (4)
   - MAC 3312 (formerly MAC 3412) Calculus II -6A (4)
   - MAC 3313 (formerly MAC 3413) Calculus III -6A (4)
   - MAS 3103 Linear Algebra -6A (3)
   - MAS 4301 Elementary Abstract Algebra -6A (3)

   In addition, students wishing to receive a minor must take two courses with laboratories in the College of Natural Sciences, outside the Department of Mathematics, that are required courses for some major within the college.

**Honors Program in Mathematics**

The program is designed for students who wish to obtain a B.A. degree that will indicate unusual strength in the field of mathematics. Successful completion of the program will be prominently displayed on the student's diploma and will be recorded on the official U.S.F. transcript of the student's work.

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

   The requirements for a B.A. Degree in Mathematics with Honors are as follows:

   1. Successful completion of the requirements for a B.A. Degree in Mathematics.
   2. Six credits of those graduate level mathematics courses at U.S.F. that are prerequisites for qualifying examinations required by mathematics graduate degree programs.
   3. At least two credits in MAT 4939, Mathematics Honors Seminar.
   4. Successful completion of MAT 4970, Mathematics Senior thesis.
   5. An overall 3.0 G.P.A., with at least a 3.5 G.P.A. in all mathematics courses.

**MEDICAL TECHNOLOGY (MET)**

Medical Technology is one of the growing professions associated with the advances in modern medical science. Working in the clinical laboratory, the medical technologist performs chemical, microscopic, bacteriologic, and other scientific tests to help track the cause and treat-
ment of disease. This talent requires specialized training and a bac-
calaureate degree is essential preparation for certification as a medical
technologist.

The University of South Florida offers a four-year program leading to the Bachelor of Science degree in Medical Technology. A student electing to major in Medical Technology will spend the first three years of the program on the campus of the University of South Florida; the fourth year (12 months) will be spent in one of the affiliated hospitals or clinical laboratories. Admission to the fourth year is limited by the number of openings in the affiliated hospitals. Selection of interns is made by the hospitals.

During the first three years, the medical technology student will com-
plete the liberal arts and basic science requirements for entrance into the fourth year of the program for clinical training. To remain in good standing as a Medical Technology major during this period, a reasonable grade point average, determined by the College of Natural Sciences, must be maintained. To be eligible for entrance into the program's fourth year, the student must have completed not less than 90 credit hours of work (ex-
cluding physical education courses). Of these hours, at least 20 credit hours must be from the College of Natural Sciences at the University of South Florida (in courses approved by the Director of the Medical Tech-
nology Program). The following courses must be included in the three
years of work which precedes the fourth year of clinical training.

1. Biological Sciences
   A minimum of 16 hours is required with at least one course in
microbiology and one course in immunology. Physiology APB 3190
or PCB 4743C and Determinative Bacteriology (MCB 4115) are
strongly recommended.

2. Chemistry
   A minimum of 18 hours is required including one semester of
Elementary Organic Chemistry (CHM 3200, CHM 3210L) and one
semester of Elementary Analytical Chemistry (CHM 3120C).
Biochemistry (BCH 3033) and Clinical Chemistry (CHS 4300) are
strongly recommended.

3. Physics
   A minimum of 8 hours (one full-year majors-type course) is required.

4. Mathematics
   A minimum of 6 hours including at least one course at the level of
College Algebra (MAC 2102) or Elementary Calculus I (MAC 2233)
is required. Statistics (STA 3122 or STA 3023) is required.

5. General Distribution Requirements
   Courses satisfying the general distribution requirements of the Col-
lege of Natural Sciences.

6. Courses in non-science fields to insure a broad background.
   Upon successful completion of this curriculum, recommendation by
the College, and acceptance by one of the affiliated hospitals or clinical
laboratories, the student will complete 12 continuous months of training
at that hospital or laboratory.

   This training period usually begins in late July or early August of each
year. During this period, one will continue to be registered as a full-time
student of the University and will receive a total of 30 credit hours of work in:

   MLS 3031   MLS 4309   MLS 4605C
   MLS 4215   MLS 4405   MLS 4625C
   MLS 4216   MLS 4545

These courses will be taught at the hospital or clinical laboratory. Stu-
dents successfully completing this program will be granted a Bachelor of Science
degree in Medical Technology.

PHYSICS (PHY/PHS)

The Department of Physics offers programs leading to a Bachelor of Arts
or a Bachelor of Science degree, and to a Master of Science degree. Both
thesis and non-thesis programs are available for the M.S. degree.

Qualified graduate students with appropriate backgrounds may ob-
tain a Ph.D. in Applied Mathematics or Engineering Science. An inter-
disciplinary arrangement with the Department of Mathematics and with
the College of Engineering provides for such an opportunity. Students
should consult with the Physics Graduate Adviser for details.

At the graduate level, thesis research areas include solid state physics,
semiconductor physics, applied physics, atomic-molecular physics,
quantum electronics and laser physics, theoretical physics, and medical
applications of physics. Supporting facilities include computers, from
Departmental PCs to the University's main-frame, as well as machine,
electronics, and glass-blowing shops.

Requirements for the Baccalaureate Degrees:

1. Physics Courses

<table>
<thead>
<tr>
<th>B.A. PHYSICS (PHY) (34 cr. hrs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 3048L (3) PHY 3221 (3) PHY 4324C (4)</td>
</tr>
<tr>
<td>PHY 3048L (1) PHY 3323C (4) PHY 4823L (2)</td>
</tr>
<tr>
<td>PHY 3049L (3) PHY 3822L (2) PHY 4910 (1)</td>
</tr>
<tr>
<td>PHY 3049L (1) PHY 4222 (3) PHY 4930 (1)</td>
</tr>
</tbody>
</table>

1The sequence PHZ 3101 (2), PHY 2053 (3), PHY 2053L (1), PHY 2054
(3), and PHY 2054L (1) may be substituted for the sequence indicated.

2Substitutions permitted subject to approval of adviser.

2Supporting Courses in the Natural Sciences

<table>
<thead>
<tr>
<th>B.A. and B.S. PHYSICS (20 cr. hrs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 2045 (3) CHM 2046L (1) MAC 3313 (4)</td>
</tr>
<tr>
<td>CHM 2045L (1) MAC 3311 (4) MAP 4302 (3)</td>
</tr>
<tr>
<td>CHM 2046 (3) MAC 3312 (4)</td>
</tr>
</tbody>
</table>

1The sequence MAC 3281 (3), MAC 3282 (3), and MAC 3283 (3) may
be substituted for the sequence indicated.

3General Distribution Requirements

<table>
<thead>
<tr>
<th>(40 cr. hrs. excluding waivers)</th>
</tr>
</thead>
</table>
| The student is required to complete the general distribution require-
mements of the College of Natural Sciences. Selection of a foreign lan-
guage, preferably French, German, or Russian is also strongly
recommended.

4Liberal Education Elective

<table>
<thead>
<tr>
<th>(Including general distribution waivers) to complete a 120 hour program</th>
</tr>
</thead>
</table>
| The student must satisfy 16 hours of liberal education electives as
described in item 3 of the graduation requirements of the College of
Natural Sciences

5Free Electives

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.
New College of the University of South Florida, located on USF's Sarasota campus, is a distinguished residential college that serves as the honors college of the State University System. It offers a nationally recognized liberal arts education at regular state tuition rates.

The New College student/faculty ratio is approximately 10:1; ninety-four percent of the faculty hold earned doctorates. Students work closely with faculty members in small classes, tutorials, and on individual projects. Study at New College culminates in a senior thesis.

Admission criteria are highly selective. The College looks for students who have demonstrated above average ability, academic motivation and self-discipline. About half the students are from Florida.

New College offers to students a level of faculty support and facilities for study generally found only at very expensive private colleges. This is possible because the gap between public funding and the actual cost of a New College education is closed by annual grants to the University from the New College Foundation. The Foundation also raises substantial scholarship funds for meritorious students.

Educational Program

The New College degree is awarded for intensive, individualized study in the liberal arts and sciences. Classes, tutorials and independent study projects are tools the student, with faculty guidance, uses to discover and pursue intellectual and career interests. Study at the College culminates in a senior thesis and baccalaureate examination in the student's chosen area of concentration.

New College offers excellent academic facilities. A $6.1 million library opened on the campus in 1986, housing a collection presently numbered at over 200,000 volumes. The library is linked through interlibrary loan to the USF system of over one million volumes, and to a network of thousands of other libraries. It also subscribes to computerized data bases that extend its reach beyond the region. The New College Natural Sciences laboratories, open to students around the clock, feature many research-grade instruments, including a scanning electron microscope. The College has special access to significant biological field research sites in the Sarasota area. Computer facilities available to students range from "user friendly" Macintoshes to an IBM main frame.

Campus-based studies can be supplemented by off-campus field research and internships, and by study abroad. The College participates in the Florida State University Study Centers in London and Florence, as well as in other programs, and has exchange programs with the University of Glasgow and University College Dublin.

Areas of Study

All programs at the College lead to the Bachelor of Arts. Students may concentrate in a specific discipline or they may design, with faculty approval, an interdisciplinary concentration. The faculty offers the following areas of study:

- Anthropology
- Art History
- Biology
- Chemistry
- Child Development
- Classics
- Cognitive Science
- Computer Science
- Economics
- Environmental Studies
- Fine Arts
- History
- Languages
- Latin American Studies

Elementary through advanced studies in French, German, Italian, Spanish, Latin and Greek language and literature

Study at New College leads to a wide range of careers. Graduates from New College go to medical, dental and law school. A large number do graduate work in the arts and sciences, leading to teaching, research and careers in government and industry. Others obtain advanced degrees in business, education, religion and architecture. Those not going on for advanced degrees have launched successful careers in journalism, fine arts, retailing, management, finances, environmental planning and a host of other fields. Quite a few have become entrepreneurs, founding businesses of their own based on skills acquired while students.

The Academic Calendar and Residence Requirements

The New College calendar consists of two 15-week semesters and a four-week independent study period in January. Fall semester begins in late August and ends just before Christmas. Spring semester begins the first week in February and ends in late May. Enrollment at New College is full-time.

Students may complete the degree in seven semesters (three and one-half years) as a result of New College's longer academic year and the advanced nature of the program. Three Independent Study Projects are carried out during January and/or the summer recess. Students may register for up to two additional semesters if their academic programs require it; they may also take up to two semesters of academic leave during their tenure at the College without loss of scholarship support. By special petition and with summer study, exceptionally qualified students may complete the degree requirements in three years. All students must complete a senior thesis and pass a baccalaureate examination based upon the senior thesis.

Transfer students may have the number of semesters required for graduation reduced through the awarding of transfer credit for college-level work done elsewhere. The maximum allowable transfer credit is equivalent to three semesters and one independent study project.

Admissions Requirements

New College actively seeks those students who will benefit most from the demanding academic program and flexible curriculum. The College looks for evidence of intellectual potential, strong academic preparation, self-motivation and initiative, tenacity, curiosity and concern for others.

Applicants must submit a State University System application, New College supplementary application, official high school transcript, SAT or ACT scores, a graded research paper from an English or history class, teacher's recommendation and school report. An interview is required for all applicants within a 100-mile radius of Sarasota and encouraged for all candidates. Transfer applicants must also submit transcripts from all colleges or universities they have attended.

New College welcomes transfer applicants. A growing number of students come to the College from Florida's two-year community colleges.

New College tuition is the same as for other institutions within the State University System. During the first two semesters of study, students are considered lower level for fee purposes; for the remaining semesters, they are considered upper level.

Both need-based financial aid and achievement-based scholarships are available to New College students, and about 75% of the students receive some type of direct financial assistance. Students must apply for need-based aid and for USF scholarships. Achievement scholarships from the New College Foundation are awarded by the New College Admissions Office to those students the College believes will make an outstanding contribution to the New College community.

The New College Admissions Office processes applications on a rolling basis, with decisions beginning about December 1. Students applying for need-based financial aid and USF scholarships must apply by February for the fall semester.

Application forms and literature can be obtained from the New College Admissions Office, 5700 N. Tamiami Trail, Sarasota, Florida 34243. Phone (813) 355-2963 or 355-7671, ext. 201.
Student Life

New College is a residential college, with the majority of its students living on campus or in adjacent neighborhoods. All students attend full-time. Students are challenged to accept major responsibilities for the direction of their own affairs, including their social and extra-curricular activities. The Student Affairs Office, through its professional staff, is responsible for personal counseling, housing, health services, and other support services.

All first-year students live on campus and participate in the community dining plan. Upper-class students may choose College or non-College housing.

A medical plan gives students access to a physician.
COLLEGE OF NURSING

The College of Nursing is committed to the improvement of nursing and health care services through its educational programs, community service, and related research activities. In order to carry out its commitment in nursing education, the college offers an upper division competency-based program that leads to a Bachelor of Science degree with a major in nursing. The program provides for (a) generic students (qualified students with no previous preparation in nursing), and (b) registered nurses, who are graduates of diploma or associate degree nursing programs. The program is designed so that generic students with appropriate preparation equivalent to two years of college can enroll in the nursing major and complete requirements for the degree in four semesters and a summer session of full-time study on the Tampa campus. The curriculum is also designed so that registered nurses are provided with: (a) choices in learning experiences for those with special areas of interest and preparing for a shift in career goals to focus on leadership in nursing and the health care system, (b) a variety of opportunities to validate previous education and experience and to demonstrate achievement of program competencies, and (c) opportunities for full-time and part-time enrollment on the Tampa campus or part-time enrollment on the regional campuses at Fort Myers, Sarasota, and St. Petersburg. Registered nurses who attend college as full-time students may complete requirements for the degree in three semesters.

The program is accredited by the National League for Nursing and approved by the Florida State Board of Nursing. Graduates of this program are eligible for admission to examinations leading to licensure to practice as professional nurses in the State of Florida or to apply for licensure to practice in other states. Graduates also have the educational background necessary for graduate study in nursing.

Applications from all qualified applicants are accepted without regard to age, sex, cultural, racial, religious or ethnic background.

The College of Nursing has quota programs in those limitations are set on enrollments on the basis of availability of sufficient qualified faculty, laboratory and classroom facilities, and clinical resources for nursing practice experience for students. Therefore, admissions are based upon a selection process developed by the faculty of the College of Nursing. Florida residents are given priority.

Professional Nursing

The health care delivery system is rapidly changing and these changes are creating new demands on health care professionals, including nurses. The primary purpose of the College of Nursing is to prepare professional practitioners who can function in a variety of settings to assist clients/patients in maintenance and promotion of health, prevention of disease and restoration to an optimal level of functioning in society.

The faculty believe that man is a holistic being who lives in an ever-changing environment. Throughout the life span, man functions as an individual in a variety of systems, including family, community and society. The potential for wellness at any given point in time is influenced by factors such as: ability to meet needs, cultural determinants, value systems, socioeconomic states, religious beliefs, and interaction with environment. Nursing practice is influenced by environmental variables which make an impact upon professional nursing practice and health care delivery.

Nursing is a professional discipline which demonstrates a set of scholarly, pedagogical, social and political practices carried out by a professional community. Nurses are responsible for performing professional services on the basis of a body of knowledge which is continuously expanding through research.

The conceptual framework for the curriculum is derived from the philosophy and purposes of the College of Nursing. Man, health, environment and nursing are the major concepts from which subconcepts relevant to the profession of nursing are identified. Nursing process, a method of scientific inquiry, provides for the implementation of nursing care in primary, secondary and tertiary care settings.
HONORS PROGRAM

An Honors Program in Nursing is available for highly qualified students. Emphasis is on individual research and creative scholarship and each student is required to complete and defend orally an undergraduate thesis.

GENERAL REQUIREMENTS

Admission Requirements and Course Prerequisites

Overall Requirements
1. Completion of 60 semester hours of college-level work with a cumulative grade-point average of 2.5. Credit received on the basis of CLEP or Advanced Placement examinations or other appropriate procedures may be included to meet some of these requirements.
2. Completion of the University of South Florida general education distribution requirements as part of the above. These requirements may be satisfied by the completion of 40 semester hours in the following areas with not less than 6 semester hours in each area:
   a. English Composition
   b. Humanities/Fine Arts
   c. Mathematics/Quantitative Methods*
   d. Natural Sciences*
   e. Social Sciences*
3. Students with an A.A. degree (other than in nursing) will be considered to have met all of the USF General Education Distribution requirements but also must meet specific college requirements in the areas marked “*”.

Admission Requirements

In order to be considered for admission to the college, the applicant must:
1. have submitted application to USF by the appropriate deadline.
2. have submitted application and all supporting materials, including transcripts, to the College of Nursing by the appropriate deadline.
3. have a minimum grade point ratio of 2.5 with a grade of "C" or better in each prerequisite Course.
4. be able to complete prior to enrollment in the major all those general education and specific prerequisites required for admission to the major.
5. have completed all prerequisites with not more than two (2) repeated courses and not more than one (1) repeat of any given prerequisite course.
6. have completed the College Level Academic Skills Test and the writing and computation course requirements of 6A-10.30.
7. have completed an approved cardiopulmonary resuscitation (CPR) course. (Generic students must have completed also a course in First Aid.)
8. provide evidence of computer literacy.
9. have current licensure in Florida if enrolling in the program as a registered nurse.
10. have one year's work experience in nursing if enrolling in the program as a registered nurse.

In addition to the minimum requirements listed above, applicants will be evaluated on factors which are relevant to program completion and professional nursing practice: cumulative grade point average, performance in specific courses, and ability to communicate verbally and in writing. All applicants who appear to be eligible for admission may be interviewed.

Those applicants with the highest total rankings are accepted in order until the quota is filled. As vacancies occur prior to the enrollment date, those next on the list are accepted to fill them. Enrollment of all students is contingent upon verification through official transcripts of satisfactory completion of all requirements for admissions.

Specific Course Prerequisites

The College of Nursing requires certain courses within the general education distribution for the natural, social and behavioral sciences, and mathematics. These requirements are outlined below. The student must: 1) earn a grade of "C" or better in each course, 2) repeat no course more than once, 3) repeat no more than two (2) courses. Suggested courses are also included. Courses taken at another institution will be evaluated individually on the basis of content. Students in Florida community colleges can obtain information about equivalent courses from their counselors or by contacting the College of Nursing Undergraduate Admissions office (813-974-2191).

1. Mathematics/Quantitative Methods: completion of at least one course in mathematics and one course in statistics.
   a. Mathematics - one course in college level algebra must be completed with a grade of "C" or better. CLEP subject exams are acceptable.
   b. Statistics - one course in statistics must be completed with a grade of "C" or better. STA 3122

2. Natural Sciences: minimum of 14 semester credits (excluding anatomy, microbiology, and physiology). Each course taken toward meeting this requirement must have been completed with a grade of "C" or better. At least one course must include a laboratory or have a corequisite laboratory course. At least 6 semester credits must have been completed by the admissions application deadline.
   a. Biology - minimum of 6 semester credits. Courses should include content in 1) cell theory, 2) biological transport, 3) genetics, 4) evolution, 5) phylogenetic survey of plant and animal kingdoms, 6) ecology, etc. CLEP is acceptable.
   BSC 2010C, BOT 2010C, ZOO 2010C
   b. Chemistry - A minimum of 6 semester credits. Courses should include content in 1) principles of chemistry, 2) structure of matter, 3) atomic and molecular structure, 4) states of matter, 5) chemical formulas and nomenclature, 6) solutions, 7) chemical kinetics and equilibrium, 8) theory and practice of quantitative analysis, 9) organic chemistry.
   Can be partially met with CLEP.
   CHM 2045, 2046 or *CHM 2030, 2031
   *Chemistry sequence for non-science majors.
   c. Other - the remaining credits can be earned by completing additional courses in biology and chemistry, or in genetics, physics, physical science, etc. (A course in non-quantitative physics is recommended but not required.)

3. Social Sciences: completion of each of the following with a grade of "C" or better in each course.
   a. American government - one course in modern American government or state and local government. CLEP is acceptable. POS 2041, POS 2112, PAD 3003, POT 4204, POS 4424
   b. Individual and Social/Community Behavior: completion of at least three courses with at least one course in psychology and one course in sociology and one additional course in psychology, sociology, anthropology, gerontology or human sexual behavior. CLEP is acceptable.
   c. Nutrition - one course. College of Nursing Challenge Examination or University of Florida correspondence course are acceptable. HUN 3201
CLEP Examinations

In accordance with University policies, College Level Examination Program (CLEP) general and subject examinations may be taken in several areas. The CLEP general examinations apply toward the distribution requirements at USF, and successful performance results in credit for any one or all five of the required areas. In addition, credit may be earned for a number of College of Nursing prerequisite courses, including: American Government POS 2041; English Composition ENC 1101, 1102; Biology BSC 2010C, BOT 2010C, ZOO 2010C; General Chemistry CHM 2043; and Statistics STA 3122. Additional information may be obtained from the Office of Evaluation and Testing, University of South Florida.

ACT/PEP and College of Nursing Examinations

Successful completion of the following examination(s) can be used to fulfill course requirements as designated below:

1. College of Nursing - Nutrition Challenge Examinations: a total of 3 semester credits can be earned by any undergraduate student to meet the course requirement in nutrition. Information about the college examination in nutrition may be obtained by contacting the College of Nursing Undergraduate Admission, University of South Florida.

2. Registered nurses who are graduates of diploma programs may receive 20 semester general elective lower level credits through successful completion of the ACT/PEP examinations in nursing. These credits do not apply toward meeting the University requirement of 40 upper level credits, or toward meeting the requirements of the upper level nursing major. The credits earned by passing the ACT/PEP examinations in nursing apply only to the B.S. degree with a major in nursing program offered by the College of Nursing. Additional information about the CLEP and ACT/PEP examinations may be obtained from the Office of Evaluation and Testing, University of South Florida.

3. Registered nurses who are graduates of associate degree programs may receive up to 20 semester general elective lower level credits for their previous nursing education.

4. Both generic and registered nurse students may earn up to 6 semester credits and fulfill the college’s prerequisite requirement in anatomy and physiology through successful completion of the ACT/PEP examination in anatomy and physiology.

Degree Requirements

Students will be certified for the Bachelor of Science degree with a major in nursing upon completion of a minimum of 126 semester hours composed of general education requirements, science prerequisites (physical, biological, social and political), upper level and nursing electives, and required nursing courses.

A minimum grade of "C" or better must be attained in each course in the major and cumulative grade point ratio of 2.0 or better must be maintained throughout the program. At least 40 semester hours must be upper level work (courses numbered 3000 or above). At least 60 semester hours must be earned from a baccalaureate-granting institution regardless of credit hours transferred from a Community/Junior College unless the student has received prior written approval from the college of his/her intended major.

Nursing Courses - Generic Students

Junior Year (3 semesters)

NUR 3117 - Introduction to Professional Nursing (3)

NUR 3615 - Nursing Process I (3)
NUR 3615L - Nursing Intervention I (2)
NUR 3066C - Client Assessment I (2)
NUR 3829 - Ethical-Legal Aspects in Nursing and Health Care (2)
NUR 3456 - Nursing Process II (2)
NUR 3456L - Nursing Intervention II (3)
NUR 3536 - Nursing Process III (2)
NUR 3536L - Nursing Intervention III (2)
NUR 3067C - Client Assessment II (2)
NUR 3835 - Leadership-Management Aspects in Nursing and Health Care (2)
NUR 4285 - Nursing Process IV (1)
NUR 4256 - Nursing Process V (2)
NUR 4256L - Nursing Intervention IV (4)

Senior Year (2 semesters)

NUR 4165 - Introduction to Research (2)
NUR 4257 - Nursing Process VI (2)
NUR 4257L - Nursing Intervention V (6)
NUR 4258 - Nursing Process VII (2)
NUR 4265 - Nursing Process VIII (2)
NUR 4837 - Nursing Core V (3)
NUR 4946L - Preceptorship (6)

In addition to the requirements listed above, a minimum of 10 credits in upper level electives will be required for graduation: at least six (6) credits in upper level courses in general education (courses in arts, humanities, natural or behavioral sciences, economics, business or management, education, etc., are acceptable) and at least four (4) credits in nursing electives (NUR 4935, Selected Topics in Nursing, and/or NUR 4905C, Independent Study in Nursing, are currently used for this purpose).

Nursing Courses - Registered Nurse Students

(3 semesters)

NUR 3007 - Nursing Process (2)
NUR 3829 - Ethical-Legal Aspects in Nursing and Health Care (2)
NUR 3117 - Introduction to Professional Nursing (3)
NUR 3066C - Client Assessment I (2)
NUR 3654 - Nursing Concepts in Secondary Care (4)
NUR 3654L - Nursing Practicum I (2)
NUR 4165 - Introduction to Research (2)
NUR 4641 - Nursing Concepts in Primary Care (4)
NUR 4641L - Nursing Practicum II (3)
NUR 4827C - Leadership/Management Concepts for Nursing Practice (4)
NUR 4943L - Nursing Practicum III (4)

In addition to the requirements listed above, a minimum of 10 credits in upper level electives is required for graduation: at least six (6) credits in upper level courses in general education (courses in arts, humanities, natural or behavior sciences, economics, business or management, education, etc., are acceptable) and at least four (4) credits in nursing electives (NUR 4935, Selected Topics in Nursing and/or NUR 4905C, Independent Study in Nursing are currently used for this purpose).
The Department of Community and Family Health offers only the M.P.H. Degree. However, a five-year master's program is available to select undergraduates. Students admitted to the five-year program (PHC) must have completed 90 semester hours of work and all General Distribution requirements. Minimum admission requirements include a total Verbal-Quantitative score of at least 900 on the GRE and a GPA of 3.0 in all work beyond 60 semester hours. A detailed description of the M.P.H. program in Public and Community Health Education may be found in the Graduate Catalog.

Undergraduates in their sophomore year who are interested in the five-year program (PHC), should contact the Office of Academics in the College of Public Health, 13301 Bruce B. Downs Boulevard, Tampa, Florida 33612-3899, Telephone: 974-3623.
The social and behavioral sciences are primarily concerned with human beings: their history, their individual behavior, their social and political institutions, and their problems. The study of man by broadly-conceived methods of science contributes to an understanding of the individual in a social context. Such insight provides an essential component of a liberal education by instilling a more enlightened world view and by helping the student to become a better informed citizen realistically prepared for a fulfilling role in contemporary society.

The social and behavioral sciences deal not only with the human but also with the humane. While the basic disciplines are dedicated to the search for truth about the human condition, the applied social sciences seek to use the knowledge gained to alleviate significant social and personal problems. The setting of the University in the rapidly expanding Tampa Bay metropolitan area provides exceptional opportunities for the development of urban related applied social science activities.

The Human Resources Institute of the College of Social and Behavioral Sciences was established to address critical issues in the human resources sector through a comprehensive program of research and service. By authorization of the Board of Regents, a Program of Emphasis in Human Services was established at the University of South Florida for the enhancement of selected programs including several in the College of Social and Behavioral Sciences. Because of its balance of basic and applied programs, the College is uniquely structured to allow students to gain experience and background for future applications in human service fields, in government, in business and in other fields of endeavor, or to pursue graduate study in several disciplines.

BACCALAUREATE LEVEL DEGREE PROGRAMS

Admission to the College

Admission to the College of Social and Behavioral Sciences is open to students who have been accepted to the University of South Florida and who declare a major in a particular field within the college. The Bachelor of Social Work, however, is a limited access degree program and does require satisfaction of additional criteria prior to admission.

Undergraduate students must submit a formal application for admission to the college. This usually occurs during Orientation and Advising for New Students. This application is also available in the College Office of Academic Programs and Student Records for continuing students. Following admission to the College, students will then be counseled by an academic advisor in their major field. Information about majors, departments, programs, advising, and other services of the college may be obtained from the Coordinator of Undergraduate Student Affairs, College of Social and Behavioral Sciences, University of South Florida, Tampa, Florida 33620.

Any student in the University may take courses in the College of Social and Behavioral Sciences. Students in other colleges or adults in the community may select social and behavioral science courses of particular interest.

Honors Programs

Faculty and selected students in the college participate in the University Honors Program. In addition, the College of Social and Behavioral Sciences offers undergraduate honors programs in four fields: Anthropology, History, Political Science and Psychology. Students interested in one of these honors programs should consult the appropriate department for further information.

General Requirements for Degrees

The College of Social and Behavioral Sciences currently offers three undergraduate degrees: Bachelor of Arts, Bachelor of Science and Bachelor of Social Work. Requirements for graduation are summarized as follows:

1. 120 credits with at least a “C” average (2.0) in courses taken at the University of South Florida. At least 60 of these credits must be from baccalaureate degree granting institutions. At least 40 of these 120 credits must be in courses numbered 3000 or above. (A maximum of two credits of physical education courses may be counted toward graduation requirements; no credits in physical education are required.) No more than 9 credits from R.O. T. C. (aerospace studies, military science), may count toward graduation.

2. 40 credits of general distribution courses are required by the University in the areas of English Composition, Fine Arts and Humanities, Mathematics and Quantitative Methods, Natural Sciences, and Social and Behavioral Sciences. (See General Distribution Requirements.) Transfer students with standard AA degrees will be considered to have met the University’s General Education Requirements; however, such students who have not gained exposure to each of the five areas are strongly encouraged to make up deficiencies early in their USF careers.

3. 12 credits of courses requiring written assignments of 6000 words; 6 credits of college level math. (Transfer students with AA degrees from Florida public institutions will be considered to have met this requirement.) These courses may be used to satisfy General Distribution Requirements.

4. Completion of a major in a subject or an integrated major, with at least a “C” average (2.0), or 2.75 in the case of Social Work majors. (See following pages for requirements in specific majors offered in the college.)

5. Students graduating with a Bachelor of Arts degree must demonstrate competency in a foreign language.

6. 80 credits outside the major.

7. Credits transferred from other institutions will not be included in the computation of the grade point average for graduation. To be eligible for graduation with honors requires at least 3.5 average in all USF work and all previous college work.

8. A student must complete at least 30 of the last 60 credits in academic residence at USF. The approval of the Dean of the college granting the degree must be secured for any transfer credits offered for any part of these last 60 hours.

9. Satisfactory completion of the College Level Academic Skills Test, and the writing and computation course requirements of 6A-10.30.

10. A maximum of 20 hours of optional S/U credits may be counted towards the 120 hours needed for the degree. None of the 20 credits may be taken in the student’s major.

Students are encouraged to consult regularly with an academic advisor in his/her major. It must be noted, however, that the student assumes full responsibility for satisfying all University, College, and departmental requirements for graduation.

Students must apply for graduation by the deadline at the beginning of their last term of residence at USF. Students who receive permission to complete requirements for the B.A., B.S. or B.S.W. as transient students should apply for graduation the term after all coursework has been completed.

Advice to Freshmen and Lower Level Transfers

Work with an adviser, plan a schedule each semester of 12 to 18 credits. Each term until you reach 60 hours take:

1. At least one course with writing assignments of 6000 or more words until you have completed 12 credits of such courses. Start with ENC 1101 and 1102 unless you have received CLEP credit for Freshman English.

2. A college level math course (if you are eligible following math testing) until you have completed 6 credits, or a natural science course (suggestions: BSC 2933, CHM 1015, PHY 2038, GLY 2850, GLY 3006, OCE 3001, any AST) until you have completed 6 credits. Six credits in each area are required for graduation.
3. One course in the Social Sciences designed for freshmen and sophomores. These courses have prefixes of AFA, AMH, EUH, GEA, SYG, POS, SSI, and WST, and are at the 1000 or 2000 levels.

4. One course in the Behavioral Sciences from among ANT 2000, PSY 2012, SYG 2000. As sophomores, you may also choose from ANT 3005, CCI 3003, DEP 3103, GEY 3000, HUS 3001, SPA 4004, SSI 2221.

5. An elective outside the College of Social and Behavioral Sciences. You are most likely to find appropriate courses in the Colleges of Arts and Letters, Fine Arts, and Natural Sciences. At least 6 of these credits should be in the humanities, unless you have chosen humanities courses to fulfill item 1 above.

Programs Leading to the Baccalaureate Degree

The College of Social and Behavioral Sciences offers a major in 13 fields as described in the following pages. In addition to the departmental majors, interdisciplinary majors are offered. (See Interdisciplinary Social Sciences, International Studies, and Social Science Education listed below.) Economics offers two majors, one in the College of Social and Behavioral Sciences and the other in the College of Business Administration.

Bachelor of Arts

- African and Afro-American Studies (AFA)
- Anthropology (ANT)
- Criminology (CCJ)
- Economics (ECN)
- Geography (GPY)
- Gerontology (GEY)
- History (HTY)
- Interdisciplinary Social Sciences (ISS)
- International Studies (INT)
- Political Science (POL)
- Psychology (PSY)
- Sociology (SOC)
- Social Science Education (SSE)*
- Women's Studies (WST)

Bachelor of Science Degree

- Gerontology (GES)

Bachelor of Social Work Degree (B.S.W.)

- Social Work (SOK)

*Offered jointly with the College of Education.

Special Non-Degree Programs

The OFF-CAMPUS TERM PROGRAM offers a wide variety of opportunities for self-designed, supervised educational experiences for credit. This program is presently housed administratively in the Division of Interdisciplinary Social Sciences, and the courses are listed under Off-Campus Term and Interdisciplinary Social Sciences.

The HUMAN SERVICES courses are designed for students interested in careers in the human sciences and services, and may be taken in conjunction with any major or by special students. These courses are coordinated by the Department of Gerontology, and the courses are listed as:

- HUS 3001
- HUS 4020
- HUS 4700
- SOW 4332
- HUS 3502
- HUS 4100
- HUS 5325

Certificate of Interpretation

For the Deaf

The College of Social and Behavioral Sciences offers a Certificate in Interpretation for the Deaf for students who want to facilitate the communicative needs of the deaf in our complex society. The certificate program incorporates academic training with practica designed to provide the student with interpreting experiences in a variety of situations. Students seeking this certificate must meet the admission requirements of the University and possess as a minimum the sign language proficiency equivalent of a Level II score on the Quality Assurance Examination for Sign Language. Information and advice about the certificate program may be obtained from the Interpreter Training Program Coordinator in the Department of Communicology. The program is open to students in all colleges.

The certificate program consists of the following courses:

- SPA 4000 (2)
- SPA 4332 (3)
- SPA 4930-003 (3)
- SPA 4363 (4)
- SPA 4930-001 (3)
- SPA 4050-001 (1)
- SPA 4331 (2)
- SPA 4930-002 (3)
- SPA 4050-004 (5)

Approval by the Coordinator of the Interpreter Training Program must be obtained prior to enrollment in this certificate training program. When the student has completed the above requirements, the Coordinator of the Interpreter Training Program will recommend the student for the certificate.

Certificate in Latin American Studies

The College of Social and Behavioral Sciences offers a Certificate in Latin American Studies for students who wish to gain an intensive multidisciplinary understanding of this important area.

A minimum of 24 semester hours is required of all students seeking such a certificate. Of these, at least 15 must be planned around the following core courses:

- GEA 3400 Geography of Latin America
- LAH 3200 Modern Latin America
- CPO 4930 Comparative Government and Politics (Latin America)
- SPN 3520 Spanish American Civilization; or equivalent in original Language.

The remaining 9 hours must be selected from other specified courses with Latin American content, a list of which is available from the Latin American Studies Coordinator.

In addition, students seeking a Certificate in Latin American Studies must have ability in Spanish, Portuguese, or another major Indo-American language or must have completed no less than two semesters of study in that language, or its equivalent. It is hoped that the student will develop an even higher level of competency in one language and at least a minimum proficiency in a second language.

When the student has completed the above requirements, the Latin American Studies Coordinator will recommend the student for the Certificate, which will be awarded upon the successful completion of all degree requirements for the major.

Information and advice about the certificate program may be obtained from the Latin American Coordinator or the Associate Dean. Only degree-seeking undergraduate students may earn a Certificate in Latin American Studies. The program is open to all majors in all colleges.

Academic Minor Programs

In order to help students develop some concentration in elective work taken in conjunction with their chosen major, the College of Social and Behavioral Sciences offers minors in the following fields: African Studies, Afro-American Studies, Anthropology, Economics, Geography, History, Human Services, International Studies, Manual Communications, Political Science, Psychology, Sociology, and Women's Studies. (See following pages for requirements in specific minors offered in the college.) There are certain restrictions that apply to students earning a minor in the College of Social and Behavioral Sciences: (1) students who major and minor in the College of Social and Behavioral Sciences may not use courses in the major for the minor or for general distribution requirements; (2) only degree-seeking students may earn a minor in the social and behavioral sciences; and (3) ISS majors may not earn a minor in any of the social and behavioral sciences incorporated in their contracts. Minors will be certified at the time of graduation.
ANTHROPOLOGY (ANT)

Anthropology aims at comprehending people as biological and social beings. It is concerned with all forms of people through time and space. One consequence of this broad-ranging view is the presence within anthropology of four branches: physical anthropology, archaeology, cultural anthropology, and linguistics. Exposure to anthropological information and the cross-cultural perspective produces heightened sensitivity in the student to the world about him/her. This helps the student to adopt an intellectual posture of disciplined skepticism with respect to any scheme which purports to define and account for regularities in human life. In response to an increasing interest on the part of students, an undergraduate focus in applied anthropology has been created to offer the Department’s majors the option of including career training as part of their anthropology curriculum. The focus includes emphasis in applied anthropology coursework and an internship course in which the student applies anthropological method and theory in off-campus settings.

Students majoring in other fields may find anthropology coursework an exciting and valuable supplement to their primary academic interest. A minor in anthropology has been developed with this purpose in mind. The minor program is structured to allow the student maximum flexibility in majoring the option of including career training as part of their anthropological method and theory in off-campus settings.

The M.A. program, initiated in 1974, was the first in the USA to focus on career training for the practice of applied anthropology. The student pursues major studies in one of three tracks: applied urban and medical anthropology and public archaeology (cultural resources management). In addition to core seminars in each of the four major branches of anthropology required of all students, each track has its own specialty courses. Each student performs a full-time internship for one semester during which he/she works on a problem mutually defined and negotiated by the student, a faculty adviser, and a professional supervisor from the agency in which the internship is conducted. By 1986 over 100 graduates had been specifically trained for nonacademic employment in governmental and private-sector agencies and organizations. Graduates are employed in administration, program evaluation, planning, and research.

The Ph.D. in Applied Anthropology is the first such program in the USA. Its primary goal is to train students for nonacademic employment in such domains of application as health practice and services delivery, community, regional and international development, and urban planning, design, and services delivery. Training is also provided for those interested in teaching applied anthropology in academic settings. Each student performs a full-time internship for two semesters during which she works as a member of the professional staff of a governmental or private-sector agency or organization engaged in problem-solving in the USA or elsewhere. The Ph.D. program, while independent, complements the M.A. program. The deadline for receipt of all application materials for admission in Fall Semester is March 1; for admission in either Spring or Summer Semester the deadline is November 1 of the preceding year.

The Center for Applied Anthropology is in the Human Resources Institute, College of Social and Behavioral Sciences. The Center is concerned with applying anthropological knowledge, theory, method, and perspectives to problems of contemporary society. Illustrative areas of activity include human services needs assessment, program planning and evaluation, social and environmental impact assessment, and public policy analysis.

Requirements for the B.A. Degree in Anthropology (ANT)
The major in Anthropology consists of a minimum of 33 credit hours. ANT 2000 is prerequisite to all subsequent courses. ANT 3100, ANT 3410, ANT 3511 and ANT 3610 are required as intermediate level training in the main subdivisions of the field, and ANT 4034 and ANT 4935 complete the specific requirements. Majors are required to complete a minimum of 12 hours of elective coursework, which must be chosen from the 4000-level courses in Anthropology. These courses are listed below. ANT 3511 counts in Area IV (Natural Sciences) of the General Distribution Requirements for non-majors.

Archaeology
ANT 4133 (3) ANT 4172 (3) ANT 4124 (4)
ANT 4153 (3) ANT 4181 (4) ANT 4158 (4)
ANT 4162 (3) ANT 4182 (3) ANT 4180 (4)
ANT 4163 (3)

Physical Anthropology
ANT 4542 (3) ANT 4583 (3) ANT 4586 (3)
ANT 4552 (3)

Anthropological Linguistics
ANT 4620 (3) ANT 4750 (3)

Cultural Anthropology
ANT 4226 (3) ANT 4316 (3) ANT 4462 (3)
ANT 4231 (3) ANT 4326 (3) ANT 4495 (3)
ANT 4241 (3) ANT 4340 (3) ANT 4521 (3)
ANT 4302 (3) ANT 4367 (3) ANT 4705 (3)
ANT 4305 (3) ANT 4432 (3) ANT 4723 (3)
ANT 4312 (3) ANT 4442 (3)

Anthropology majors are urged to become competent readers and speakers of a relevant foreign language, to acquire communicative and quantitative skills appropriate to their interests, and to achieve at least a minimal level of computer literacy. Exceptions to course prerequisites require the consent of the instructor.

Required Core Courses (21 cr. hrs.)
ANT 2000 (3) ANT 3511 (3) ANT 4034 (3)
ANT 3100 (3) ANT 3610 (3) ANT 4935 (3)
ANT 3410 (3)

Requirements for the Minor in Anthropology
The minor in Anthropology consists of a minimum of 18 credit hours with a "C" average (2.0), distributed among three areas. Students will normally progress through these areas in the order listed below, selecting courses prerequisite or otherwise appropriate to courses desired in subsequent areas. Exceptions to this pattern must be approved by the department's undergraduate adviser. Students are urged to consult with the major and minor student advisers to create the most beneficial specific set of courses.

1. 2000-level required core course (3 cr. hrs.)
   ANT 2000 (3)
2. 3000-level subfield courses (3-6 cr. hrs.)
   ANT 3100 (3) ANT 3511 (3)
   ANT 3410 (3) ANT 3610 (3)
3. 4000-level elective courses (9-12 cr. hrs.) (as described above)

Requirements for the Undergraduate Focus in Applied Anthropology
This sequence is designed for Anthropology majors who wish to include career training as part of their Anthropology curriculum. The student is required to complete the major in Anthropology, including guided training in Applied Anthropology as determined through consultation with the undergraduate adviser.

The student must take ANT 4907 (3), the setting in which the off-campus practicum is pursued. A departmental Letter of Achievement is awarded upon graduation and successful completion of Focus require-
CRIMINOLOGY (CCJ)

The major in criminology provides students with an in-depth exposure to the total criminal justice system including law enforcement, detention, the judiciary, corrections, and probation and parole. The program concentrates on achieving balance in the above aspects of the system from the perspective of the criminal justice professional, the offender, and society.

The objective of the undergraduate program in criminology is to develop a sound educational basis for professional training in one or more of the specialized areas comprising the modern urban Criminal Justice System.

Requirements for the B.A. Degree:
A minimum of 39 semester hours is required of all undergraduate majors in criminology including the following courses or their equivalents:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCJ 3020</td>
<td>Criminology</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 3701</td>
<td>Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td><strong>CCJ 4501</strong></td>
<td><em>Criminology Courses</em></td>
<td>3</td>
</tr>
<tr>
<td>CCJ 3280</td>
<td>Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td><strong>CCJ 3620</strong></td>
<td><em>Criminology Courses</em></td>
<td>3</td>
</tr>
<tr>
<td>CCJ 4100</td>
<td>Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 3621</td>
<td>Criminal Justice</td>
<td>3</td>
</tr>
</tbody>
</table>

*Subject to Departmental approval for required credit.

In addition to the above, a minimum of 15 hours in criminology must be selected by the student to complete the requirements.

Transfer student should be aware that by University regulation they are obligated to establish academic residency by completing the equivalent of one academic year (30 semester hours) in "on-campus" courses. All undergraduate transfer students electing criminology as their major will be required, moreover, to take a minimum of 27 credits in major coursework at the University of South Florida.

These residence requirements are designed to ensure that transfer students who subsequently receive their baccalaureate degree from the University of South Florida with a major in criminology will have been exposed to the same body of knowledge in their major as those students who complete all or a major portion of their coursework at the University of South Florida.

Any student who receives a grade of "D" or lower in more than one USF CCJ course will be automatically barred from continuing as a criminology major.

ECONOMICS (ECN)

Economics offers a clear, logical way of thinking about complicated business problems as well as contemporary societal issues such as controlling unemployment, inflation, pollution, and crime. The department offers both major and minor programs requiring four courses in basic economic analysis. With elective courses offered in industrial organization, labor economics, international trade, public finance, monetary economics, econometrics, history of economic thought, economic development, comparative economic systems, and other areas, students may tailor their study toward business, teaching, or government service careers. The economics curriculum also provides excellent preparation for those students seeking graduate or professional degrees in social sciences, law, or business.

Requirements for the B.A. Degree
A student may earn a Bachelor of Arts degree with a major in Economics by completing satisfactorily 33 credits in Economics in addition to college requirements. These 33 credits include:

- ECO 2013 (3) ECO 4303 (3)
- ECO 2023 (3) GEB 2111 (3)
- ECO 3101 (3) GEB 3121 (3)
- ECO 3203 (3)

Economics majors working at the regional campuses cannot expect to fulfill all economics course requirements at those regional campuses.

In addition to this core, students are encouraged to select 3000-level courses in several of the applied areas during their junior year. The remaining economics electives must be selected from those upper level courses that provide the type of program that best suits the student’s interests and objectives. Not more than 6 hours of credit may be earned in ECO 4905 and ECO 4914.

Students majoring in economics are encouraged to supplement their programs with appropriate courses in other social sciences. Political science, psychology, sociology and others contribute greatly to an enriched plan of study. Similarly, a variety of courses in economics are designed to permit students majoring in other disciplines to acquire the skills and insights provided in economics.

Requirements for a Minor in Economics
Students majoring in Social Sciences, as well as students from other colleges, may minor in economics. Total requirements are:

1. A minor must include these four courses in basic economics:
   - ECO 2023 Economic Principles:
     - Microeconomics (3)
   - ECO 2013 Economic Principles:
     - Macroeconomics (3)
   - ECO 3101 Intermediate Price Theory (3)
   - ECO 3203 Intermediate Income & Monetary Analysis (3)

2. In addition, a minor must include two or more upper level courses taught in the Economics Department (excluding the variable credit courses ECO 4905, 4914, and 4935), bringing the total credit hours in economics to a minimum of 18. GEB 3121, Business and Economic Statistics II, or its equivalent, is acceptable for credit in a minor.

3. Before being recognized as a minor in economics, a student must obtain approval by the adviser in the Economics Department of the courses involved in the student’s minor program.

4. A grade point average of 2.0 or better must be achieved in the minor coursework for a student to be certified for graduation with a minor in economics.

5. At least 12 of the required 18 credits must be taken in residence at USF.
GEOGRAPHY (GPY)

Requirements for the B.A. Degree:
Geography explains the variable character of the earth's surface. The two major divisions of geography are physical and cultural (human). Physical geography includes the study of earth-sun relationships, weather, climate, and natural features of the landscape, such as landforms, soils, vegetation, and hydrology. Cultural geography studies people, their various cultures, levels of technology, and economic activities that operate differentially to alter the natural landscape.

Geography's overriding purpose is to understand the earth as the home of man. A major concern of geography is the wise use of natural, human, and economic resources. Therefore, ecological and environmental considerations are central to the study of geography.

Students are encouraged to take elective credits in a wide variety of disciplines because of the cross-disciplinary approach to geography. Geographers typically work as urban and regional planners, environmental specialists, map and aerial photographic analysts, and resource managers.

A major in geography consists of 36 credit hours as follows:

Required core courses (12 credit hours):
- GEO 3013 (4)
- GEO 3014 (4)
- GEO 4100C (4)

One of the following (4 credit hours):
- GEO 4280C (4)
- MET 4002 (4)
- MET 4010 (4)

Two of the following (8 credit hours):
- GEO 3402 (4)
- GEO 4440 (4)
- GEO 4470 (4)
- GEO 4372 (4)
- GEO 4460 (4)
- GEO 4502 (4)

One course with a GEA prefix (4 credit hours):

Any additional 8 credit hours in geography, excluding
- GEO 3901
- GEO 4900
- GEO 4910
- GEO 3931C
- GEO 1930

Requirements for the Minor:
A minor in Geography consists of sixteen hours, with a minimum grade-point average of 2.0. The required courses are:

- GEO 3000 (4)
- GEO 3013 (4)
- GEO 3014 (4)
- One upper level elective (GEA, GEO, MET, or URP 3000-5000 level) (4).

GERONTOLOGY (GEY)

Gerontology is the study of the process of human aging in all its many aspects: physical, psychological, and social. In the Department of Gerontology, particular emphasis is placed upon applied gerontology, with the goal of educating students who in their professional careers in the field of aging will work to sustain or improve the quality of life of older persons. To this end the Department offers the degrees of Bachelor of Arts in Gerontology, Bachelor of Science in Gerontology, and Master of Arts in Gerontology.

Requirements for the B.A. Degree:
The Bachelor of Arts Degree in Gerontology entails 39 semester hours of required course work. In this program the course of study is intended to provide students with a liberal education in gerontology and some exposure to the various career opportunities in the field of aging. This degree is especially appropriate for students who are undecided about their eventual career goals in aging or who plan to pursue graduate work in gerontology or some other field.

Required courses:
- MAN 3025 (3)
- GEY 3601 (3)
- GEY 3625 (3)
- GEY 4323 (3)
- GEY 4360 (3)
- HUS 4700 (3)
- GEY 4930 (2)
- GEY 4640 (3)
- GEY 4945 (6)

Plus 3 of:
- MAN 3150 (3)
- HUS 4020 (4)
- SYP 4640 (3)
- HUS 5505 (3)
- GEY 4935 (3)

Requirements for the B.S. Degree:
The Bachelor of Science Degree in Gerontology is a specialist degree which, in addition to providing students with a basic education in gerontology, is intended to prepare them for entry level positions in Nursing Home Administration. It is especially appropriate for students who intend to begin working immediately following completion of the degree program.

Required courses:
- MAN 3025 (3)
- MAN 3150 (3)
- GEY 3601 (3)
- GEY 3625 (3)
- GEY 4323 (3)
- GEY 4327 (3)
- GEY 4328 (3)
- GEY 4329 (3)
- GEY 4360 (3)
- GEY 4640 (3)
- GEY 4941 (3)
- GEY 4945 (6)

Prior to beginning course work in either the B.A. or B.S. option of the degree program, students must have taken certain prerequisites. For the B.A., the prerequisites are: GEY 3000, Introduction to Gerontology and HUS 3001, Introduction to Human Services. For the B.S., the prerequisites are: ACG 2001, Finance and Management Accounting I, ACG 2011, Finance and Management Accounting II, and GEY 3000, Introduction to Gerontology.

The gerontology prerequisite can only be satisfied by a student's having taken GEY 3000 at this university or its equivalent at another institution. The human services prerequisite can be satisfied either by a student's having taken HUS 3001 or an equivalent course at another institution or by having had suitable work experience in the human services.

The prerequisites of accounting can be fulfilled by taking ACG 2001 and ACG 2011 at this university or comparable work at another institution.

Students interested in either the B.A. or the B.S. option should contact the Department as early as possible in their careers at the University of South Florida.

Minor in Human Services
An undergraduate minor in Human Services is available for students interested in pursuing careers in fields such as social welfare, health care and mental health care, rehabilitation, and corrections. This minor may be taken in conjunction with any undergraduate major but it should be particularly beneficial to persons who are majoring in such disciplines as anthropology, criminal justice, nursing, political science, psychology, social work, and sociology. The Human Services courses are closely related to the Urban Community Psychology and Gerontology Program of Distinction and will be taught by qualified faculty from the various disciplines within the College of Social and Behavioral Sciences. The Human Services minor is coordinated by the Department of Gerontology.

Requirements for the minor are a total of 15 hours of the following upper-level courses:

- HUS 3001
- HUS 3502
- HUS 4020
- HUS 4700
- HUS 5325
- HUS 5505

Center for Applied Gerontology
The Center for Applied Gerontology is one of five specialized centers in the Human Resources Institute within the College of Social and Behavioral Sciences. The activities of the Center include research on aging, program evaluation, short-term training of agency personnel and other activities intended to complement the educational program in gerontology.

HISTORY (HTY)

Requirements for the B.A. Degree:
A minimum of 32 semester hours is required for a major in history. Twelve hours of 2000 level courses, or their equivalent, constitute the lower level requirements. At least 12 hours of course work must be drawn from the 3000-4000 level in addition to HIS 4104 and 4936, which constitute the upper level requirements for the degree.
It is recommended that history majors take ENC 3310, "Advanced Expository Writing," SPC 2023, "Fundamentals of Speech Communication," LIS 2001, "Use of the Library," and additional hours drawn from the following disciplines: African and Afro-American Studies, American Studies, Anthropology, Economics, Geography, Political Science, Interdisciplinary Social Sciences, Psychology, Philosophy, Sociology, Literature, the Humanities, and the Fine Arts. Majors intending to pursue graduate work should take a minimum of two years of classical or modern foreign language.

Requirements for the Honors Program:
The department's honors program challenges the superior student to achieve academic excellence through individual research and individualized instruction. Admission to the program will be competitive. A maximum of 15 students per year will be selected. They must meet the following criteria: 20 hours (at least 8 at USF) of history courses (3.5 GPA or better), 75 hours total course work (3.3 GPA or better), and recommendation by a USF history faculty member. Honors students will be assigned faculty advisors who will guide their research and the writing of an honors thesis. Students will also participate in an Honors Colloquium. Students interested in the program should contact the departmental undergraduate advisor for details of this demanding and disciplinary graduate work should take a minimum of two years of classical or modern foreign language.

Requirements for the Minor:
The Department of History offers two options for students interested in the minor in History. Option one requires four history courses (at least 15 hours) at the 3000 and 4000 levels drawn from a minimum of three of the following fields: a) Ancient; b) Medieval; c) Modern European; d) United States; e) Non-Western; Latin American, Asian, African. Option two entails a 15-hour program organized and contracted by the student and the department around the specific needs of the student's major program. In both plans, a minimum of 8 hours must be completed at the University of South Florida and the student must maintain a 2.0 GPA in the minor. Certification of the minor will be supervised by the department. Students interested in a minor in history are encouraged to see the History department adviser as early in their undergraduate program as possible.

DIVISION OF INTERDISCIPLINARY SOCIAL SCIENCES

The Division of Interdisciplinary Social Sciences offers four academic majors: the College major (Interdisciplinary Social Sciences), and the majors in African and Afro-American Studies, in International Studies and Women's Studies. It offers a minor in Women's Studies, a minor in International Studies, a minor in African and Afro-American Studies, a series of interdisciplinary social science core courses, and a series of independent study courses through the Off-Campus Term Program. Requirements for the Interdisciplinary Social Sciences major, the International Studies major and minor, the African and Afro-American Studies major and minor, and the major and minor in Women's Studies are described below.

AFRICAN AND AFRO-AMERICAN STUDIES (AFA)
The African and Afro-American Studies Program provides a quality undergraduate education leading to a Bachelor of Arts degree in African and Afro-American Studies. Essentially it is a service program which provides opportunities for all students to broaden the bases of their knowledge of the entire human experience and intercultural understanding so essential to living in a multi-racial society and a world that has become a global village. It provides a new horizon in liberal education that seeks reunification of the knowledge of human experience and strikes at the narrowness and ethnocentrism of the traditional disciplines which tended to contribute much to race prejudice and misunderstanding.

In the interest of general education the program provides a basic and broad knowledge about Africa and peoples of African descent from prehistoric times to the turbulent present. Part of its mission is to assist the black student to achieve a more dignifying identity and fuller participation in the mainstream of his society and nation. It attempts to help him to develop a greater awareness of himself and his talents and to provide him with educational and research opportunities necessary for the acquisition and understanding of political and economic realities and tools that must enable black people and other minorities to become effective determinants of their own political and economic life. To the non-black student the program provides an opportunity to acquire additional perspectives from which to view, analyze and deal with contemporary social issues and political problems.

Admission to the African and Afro-American Studies major is open to all students who have been duly admitted to the University of South Florida by the Office of Admissions and who file necessary papers in the Office of the Coordinator of Undergraduate Student Affairs, College of Social and Behavioral Sciences, to declare a major in the field. All of the program's courses are open to all other students - regular and special - of the University.

Requirements for the B.A. Degree:
The major in African and Afro-American Studies consists of a minimum of 36 hours in the field specified as follows:

Required Core Courses (15 cr. hrs.)
- AFA 2001 (3)
- AFH 3200
- AMH 3572 (3)
- AFA 3100 (3)
- AMH 3571 (3)

Required Supporting Courses (6 cr. Hrs.)
- AFA 4150 (3)
- PHM 4120 (3)
- AFA 3311 (3)
- ECP 4143 (3)

Suggested Elective Courses (15 cr. hrs.)
- AFA 4331 (3)
- INR 4254 (3)
- PUP 3313 (3)
- HUM 3420 (3)
- AFA 4900 (2-3)
- AFA 4931 (1-3)
- CPO 4204 (3)
- CPO 4244 (3)
- CPO 4254 (3)

Majors must maintain a minimum of 2.0 average and are also responsible for fulfilling College and University general education requirements.

Requirements for the Minor:
African and Afro-American Studies Program offers minors in African and Afro-American Studies to meet the interest of students. Each minor consists of eighteen hours, exactly half of the upper-division credits required for a major. Requirements for the minors are as follows:

African and Afro-American Studies Option I (Minimum of 18 hours):

Required Core Courses (9 hours)
- AFA 2001 (3)
  either: AFA 3100 (3) or AFH 3200 (3)
  either: AMH 3571 (3) or AMH 3572 (3)

Electives (9 hours) selected from:
- AFA 4150 (3)
- CPO 4204 (3)
- INR 4254 (3)
- AFA 4931 (1-3)
- CPO 4254 (3)
- PUP 3313 (3)
- AFS 3311 (3)
- HUM 3420 (3)

African and Afro-American Studies Option II (Minimum of 18 hours):

Required Core Courses (9 hours)
- AFA 2001 (3)
- AMH 3571 (3)
- AMH 3572 (3)

Electives (9 hours) selected from:
- AFA 4150 (3)
- AFS 3311 (3)
- PHM 4120 (3)
- AFA 4331 (3)
- ECP 4143 (3)
- PUP 3313 (3)
- AFA 4931 (1-3)
- HUM 3420 (3)

African Studies (Minimum of 18 hours):

Required Core Courses (9 hours)
- AFA 3100 (3)
- CPO 4204 (3)
- INR 4254 (3)
- AMH 3200 (3)
Electives (9 hours) selected from:

- AFA 4150 (3)
- AFS 4321 (3)
- HUM 3420 (3)
- AFA 4931 (1-3)
- CPO 4244 (3)
- INR 4254 (3)
- APS 3311 (3)
- CPO 4254 (3)

**Interdisciplinary Social Science Major (ISS)**

This program of study is designed to provide an interdisciplinary focus in the social sciences for students who are interested in a broad educational experience, that extends beyond the boundaries of a single discipline. This major offers, within certain parameters, students a wide choice of courses, and an opportunity to design a program of study geared toward the student’s individual career needs and interests. It should be understood, however, that each program of study has to be designed in such a way that quality and coherence are assured. For these reasons, the program of study is to be planned by the student in consultation with the advisor. Approval of the contract is provided by the advisor.

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

1. the completion of 42 approved hours of course work from the College of Social and Behavioral Sciences (CSBS), with a minimum of 30 hours at the 3000 level or above;
2. the student has to choose between two cognate areas (provided below) and complete twelve hours in each, or the student can select one of the more structured curricula available: ISS with an emphasis in (a) Speech and Hearing Science, (b) Interpreter Training for the Deaf, (c) Urban Studies.
3. it is suggested that the student work out a program of study during the junior year, particularly before too many courses are completed in CSBS. No student should assume, under any circumstances, that courses already completed in CSBS will automatically count toward the ISS degree.
4. students must maintain a minimum grade point average of 2.0 in ISS to graduate.
5. for those highly motivated students, with a minimum grade point average of 3.2, an individualized curriculum can be developed with the approval of the advisor. Under such circumstances core courses and restricted electives may be waived. This course of study will be directed toward the special educational interests of these students. A thesis will be required of students taking this option.

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

- AFA, ANT, CCJ, ECN, GEY, GPY, HTY, HUS, INT, LAS, PAD, POL, PSY, SOC, SOW, and WST.

**INTERNATIONAL STUDIES (INT)**

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

The major in International Studies enables students to undertake programs of study which emphasize (a) preparation for careers in international activities, or (b) the study of particular international themes or topics, or (c) the study of particular regions or cultures. The program of study is developed by each student in consultation with the International Adviser so as to best serve the education and career goals of the individual.

The major consists of a minimum of 37 semester hours. At least 21 of these hours (seven courses) must be from the International Studies Program offerings. The seven required courses are:

- ISS 2221 (3)
- ISS 4250 (3)
- ISS 3260 (3)
- ISS 4936 (3)
- INR 3038 (3)

plus one topical and one area studies course chosen from the INT upper division elective courses.

The additional 16 hours may be selected from course offerings of other departments, which are approved by the major adviser as having adequate international or cross-cultural content, or the student may take upper level electives from the International Studies curriculum.

With the approval of the major adviser, credits earned in ISS 4900 (1-3) and ISS 4910 (1-3) may be used to augment or substitute for the foregoing requirements. Students are encouraged, but not required, to engage in study abroad programs, a large number of which have been approved by the USF Center for International Affairs. Credits earned in such programs apply toward graduation and many also apply to the INT major.

**Required Supporting Courses:**

Students must pass a 2000 level foreign language course (that is, at least one semester of foreign language study beyond the first year introductory courses), or complete one year of study of a non-Western language. Students who are bilingual or who are already conversationally fluent or who can translate with facility from a foreign language text are exempt for the above course requirement, but the INT faculty may require demonstration of proficiency.

Students will be provided with academic advice and counsel about other courses offered throughout the university which may support and complement their major program. INT majors should plan their programs in conjunction with the advisor who is empowered to make appropriate substitutions when educationally justified.

**Minor in International Studies**

The minor in International Studies is basically a name given to a set of International Studies courses taken by a student that approximates one half of the upper level credits required for a major. The minor consists of 18 credit hours made up of six courses as follows:

- ISS 2221 (3)
- ISS 3260 (3)
- ISS 4250 (3)

and 3 upper level courses chosen from the International Studies Program’s offerings of the Division of Interdisciplinary Social Sciences.

Each student’s program must be planned with the International Studies Program major adviser, who is empowered to approve appropriate substitutions when educationally justified.

**Interdisciplinary Core Courses**

Two of these courses, one an introductory course and the other a senior seminar, are taught from an interdisciplinary social science perspective. The courses are designed to introduce students to methodologies in the study of humans in social groups on the one hand, and on the other hand, to bring into some coherency the various concepts, theories and methods studied in the social sciences. Social Science Statistics is also required for majors in Interdisciplinary Social Sciences.

**Off-Campus Term**

The Off-Campus Term Program, described in more detail elsewhere in this catalog, is a University-wide, interdisciplinary program which urges students to spend part of their time in college in pursuits that are self-designed and implemented in an environment entirely off campus and out of the classroom. OCT provides for an “education in life” for full academic credit as an alternative to the traditional methods of learning.

**WOMEN’S STUDIES (WST)**

**Requirements for the B.A. Degree**

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, Counseling Education, Criminal Justice, Gerontology, History, Rehabilitation Counseling, Social Work, Women’s Studies; (2) those who want to focus on women in specific disciplines or professions; and (3) those whose training would benefit from a close scrutiny of the major issues facing women today.

Majors must complete 33 hours, distributed as follows:

1. **Required Core Courses (18 hours)**
   - WST 2010
   - WST 4310
   - WST 4935
   - STA 3122, or equivalent
   - Either WST 3275 or ANT 4302
   - Either REL 3145 or POS 4693 or WST 4320
   - Either POS 3142 or CPO 3742
   - Either POS 3145 or CPO 4054

2. **(3 hours)**
   - Two Women’s Studies courses at the 3000 level.

3. **(3 hours)**
   - Two Women’s Studies courses at the 4000 level, no more than three courses of which may be satisfied by WST 4900 (Directed Readings) or 4910 (Directed Research).

4. **(9 hours)**
   - Three electives chosen from the remaining courses listed under Women’s Studies, including those not taken under 2 and 3 above.

Those electing to major in Women’s Studies should consult the Program Coordinator for timely scheduling of classes.

**Minor in Women’s Studies**

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

- WST 2010
- Two Women’s Studies courses at the 3000 level.
- Two Women’s Studies courses at the 4000 level, no more than three courses of which may be satisfied by WST 4900 (Directed Readings) or 4910 (Directed Research).

Students minoring in Women’s Studies must be certified by the Program Coordinator.

**POLITICAL SCIENCE (POL)**

**Requirements for the B.A. Degree**

The undergraduate program leading to the B.A. degree in political science offers a general purpose degree, and a number of more specialized alternatives. These include the pre-professional plan in political science. The program is designed for students interested in and seeking to understand political problems and issues, and the nature of the political process, as well as the philosophical and legal basis of political structures and processes at local, state, national, and international levels. Satisfying the degree requirements prepares students for positions in the public and private sectors, for law school, for graduate work in political science, international relations, public administration, and related disciplines, for positions in education, and for applied political activity.

Students who earn a B.A. degree in political science should be able to relate knowledge from their major field to other allied disciplines as well as being well-grounded in political science. In fact, it is impossible to understand fully and to explain political events and behavior without some knowledge of history, economics, sociology, and other related fields. To aid and encourage political science majors in this endeavor, students must take a minimum of 18 hours in courses from among history, economics, anthropology, geography, sociology, psychology, and philosophy. Six hours should be in history, three in economics, and six from the remaining fields. Six of the eighteen hours must be taken at or above the 3000 level.

A minimum of 36 credit hours is required to satisfy the requirements of the major. Students must take the 12 credit hours of required coursework in political science. No more than six credit hours can be taken from POS 4905, POS 4910, and POS 4941. A GPA of 3.0 is required to enroll in these courses; special exception may be granted by the Chair for students with a GPA between 2.70 and 2.99.

Students transferring credit hours toward a major in political science must complete a minimum of 21 credit hours within the Department, regardless of the number of credits transferred, in order to satisfy the requirements of the major.

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

**Required Core Courses (12 cr. hrs.)**

- POT 3003 (3)
- POS 2041 (3)
- POS 3713 (3)
- CPO 3002 (3)

Students should complete POT 3003 and POS 3713 by the end of the first semester of their junior year; students transferring with 45 credit hours or more must complete these courses within their first two semesters in residence at USF.

**Electives from the seven fields** (24 cr. hrs.) with at least one course from Field I, one course from Field II or III, and one course from any of Fields IV, V, VI, or VII; no course from a given field or field grouping can be taken until the core course has been completed.

**Field I**

- **Political Theory**
  - POS 5734 (3)
  - POT 4204 (3)
  - POS 3013 (3)
  - POT 5626 (3)
  - POT 4054 (3)
  - POT 4064 (3)

**Field II**

- **Comparative Government and Politics**
  - CPO 4034 (3)
  - CPO 5934 (3)
  - CPO 4930 (3)

**Field III**

- **International Relations**
  - INR 3102 (3)
  - INR 4403 (3)
  - INR 4035 (3)
  - INR 4502 (3)
  - INR 4334 (3)
  - INR 5086 (3)

**Field IV**

- **American National and State Governments**
  - POS 2112 (3)
  - POS 4204 (3)
  - POS 3173 (3)
  - POS 4413 (3)
  - POS 3182 (3)
  - POS 4424 (3)
  - POS 3273 (3)
  - POS 5094 (3)
  - POS 3453 (3)

**Field V**

- **Urban Government and Politics**
  - POS 3145 (3)
  - POS 5155 (3)
  - POS 4165 (3)
  - URP 4050 (3)

**Field VI**

- **Public Policy**
  - INR 3102 (3)
  - INR 4570 (3)
  - INR 4334 (3)
  - URP 4505 (3)
  - POS 3145 (3)
  - URP 4534 (3)

**Field VII**

- **Law and Politics**
  - INR 4403 (3)
  - POS 4614 (3)
  - POS 3283 (3)
  - POS 4624 (3)
  - POS 3691 (3)
  - POS 4693 (3)

The following courses are not included within any of the seven fields, but may still be used as elective hours:

- PAD 3003 (3)
- POS 4936 (3)
- PAD 4204 (3)
- POS 4941 (3)
- POS 4905 (1-3)
- POS 4970 (3)
- POS 4910 (1-3)

**Requirements for a Minor in Political Science**

A minor in political science consists of a minimum of 18 credit hours, made up of two courses (6 credit hours) from among CPO 3002 (or INR 3002), POS 2041, and POT 3003. An additional 12 credit hours in regularly scheduled political science courses are required.

Students transferring credit hours toward a minor in political science must complete 12 credit hours within the Department, regardless of the number of credit hours transferred, in order to be certified for a minor.
Field Work
The Department of Political Science has a field work program which provides students with part-time internships with state and local government and with political parties at the state and local level. Academic credit is available for such internships. For further information, contact the Department of Political Science.

Honors in Political Science
Honors in Political Science is designed for the outstanding undergraduate who seeks an intensive program plus academic recognition during the senior year. Admission to the honors sequence, which is available to all undergraduate majors, will be controlled by grade point average, personal interviews and close scrutiny of the student's program and record. Students admitted will write an honors thesis, POS 4970 (3).

Pre-Professional Plan in Political Science
This plan is designed for students seeking an intensive undergraduate concentration in political science. Typically, students electing this plan will be oriented towards graduate work in political science or other social sciences. A minimum of 36 credit hours is required.
Students must take six credit hours or required courses:
PO 2041 (3) PO 3713 (3)
Ten additional courses in political science (30 cr. hrs.) must be taken, of which at least seven must be above the 3000 level. Concentration within fields will be encouraged.

Requirements for the Pre-Law Plan in Political Science
The Department of Political Science offers a pre-law plan designed for the undergraduate considering a career related to law: Field VII of the undergraduate curriculum (Law and Politics). The courses making up the field are of particular interest to law-oriented students, but may be taken by others as well. The Department seeks to guide majors to those courses which develop skills and provide information needed for good performance in the study of law. The Department also seeks to give students the skills and information needed for entry into a number of law-related positions in business and government. An integral part of this plan is a high degree of student access to the Department's pre-law advisor.

Prior to admission to law school, a student must take the Law School Admission Test (LSAT). This test is given by the Educational Testing Service of Princeton, New Jersey.
The Law School Admission Test is given simultaneously several times each year at the University of South Florida and numerous other testing centers throughout the state. Students should plan to take the test at least one year prior to planned enrollment in law school. Additional information is available from the Department of Political Science, University of South Florida.

(Pre-law is not a prescribed program of study. No specific college major is required for admission to law school. Those students intending to pursue the study of law must obtain a Bachelor of Arts degree in an arena of personal choice. It is generally agreed that knowledge and understanding of the political, economic, and social context within which legal problems arise facilitate a career in law.)

International Affairs Focus in Political Science
The Department of Political Science offers a number of courses that prepare students for graduate study in International Relations and career opportunities in private or public transnational organizations.
Basic courses in the area include:
- Introduction to International Relations INR 3002
- Introduction to Comparative Politics CPO 3002
- American Foreign Policy INR 3102
In addition, the Department offers the following upper-level courses:
- Politics of Developing Areas CPO 4034
- Comparative Politics of Selected Areas CPO 4930
- Defense Policy INR 4334
- International Policy Economy INR 4035
- International Law INR 4403
- International Organizations INR 4502
- Issues in Comparative Politics CPO 5934
- Issues in International Relations INR 5086

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

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, 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 introductory instruction at the undergraduate level.

Requirements for the B.A. Degree
Majors must complete at least 34 semester hours in the field. All majors must complete:
1. 2000/3000 Level Requirement (6 semester hours)
   Successful completion of: PSY 3013 (3 semester hours) and one of the following:
   INP 3101  PSY 3022  SOP 3742
   PSY 2012
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 courses numbered at the 4000 level selected as follows:
   At least two courses from each of the two groups below:
   Group I
   EXP 4204C  EXP 4404  PSB 4013C
   EXP 4304  EXP 4523C
   Group II
   CLP 4143  INP 4004  SOP 4004
   DEP 4005  PPE 4004
   and 3 additional courses numbered at the 4000 level.
   Note: No more than a total of 3 hours of the following course may count toward the major:
   PSY 4913 Directed Research
   PSY 4205 (3) is recommended for students planning graduate training. Functional mathematics and biological science are recommended. Otherwise, students majoring in psychology are encouraged to complete a varied undergraduate program.

Requirements for the Minor in Psychology
A minor in Psychology consists of a minimum of 15 credit hours, comprising PSY 2012, PSY 3013, and any three 4000 level psychology cour-
The mission of Rehabilitation Counseling is to help physically, mentally, emotionally, and chemically disabled individuals return to full, rewarding, and productive lives. Rehabilitation Counselors work in a wide variety of settings, but are most commonly employed in public and private rehabilitation programs and facilities, mental health treatment settings, and substance abuse treatment settings. Some establish their own private rehabilitation case management practices or private mental health counseling practices.

Rehabilitation Counseling has roots in both the national rehabilitation movement and professional counseling movement. Training emphasizes psychological, social, medical, and vocational aspects of disability; and also the development and refinement of personal adjustment counseling skills. Graduates with an M.A. degree from the USF Department of Rehabilitation Counseling are prepared for careers as both rehabilitation specialists and mental health counselors. Special elective concentrations in substance abuse and minority rehabilitation are also offered. Other study concentrations can be arranged on an individual basis.

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

Undergraduates interested in the five-year program (REF) ideally should contact the department during their sophomore year.

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). Under Florida’s Psychological Services Act, graduates with a master’s degree from a recognized counseling program are eligible to sit for state licensure as Mental Health Counselors after completing the Act’s work experience requirement. The graduate program offered by the Department of Rehabilitation Counseling is considered a recognized counseling program under the Psychological Services Act.
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 profession 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 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 filing intent to seek admission or actually 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.

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

Admission requirements for the social work major are as follows:

1. A student must have completed a minimum of one semester as a pre-social work major;
2. A student must have completed required pre-core courses (see listing);
3. A student must complete an application for admission and file it with the Department of Social Work at the beginning of the semester in which admission is sought;
4. A student may be asked to complete an admission interview with a favorable action from the Admissions Committee.

Any of the foregoing admission criteria may be waived by the Department where unusual circumstances and compelling merit are clearly demonstrated.

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

**Pre-Core Courses**

1. A student must complete one course in each of the following cognate areas.
   - Biology:
     - Environment
     - Food and Drugs

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**SOCIOMETRY (SOC)**

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

Requirements for the Major (B.A. Degree)
The major consists of a minimum of 30 credit hours. The following courses may not be counted in the 30 hour minimum for the major but may be elected as additional courses: SYG 1010, SYG 2412, SYA 3504. No more than 3 credit hours of Individual Research (SYA 4910) may be counted as major elective credit. A model program of recommended sequences may be obtained from the Department of Sociology.

Transfer students should be aware that by University regulations, the equivalent of one academic year must be taken in on-campus courses. In Sociology, we require that of the 30 credits needed to make up the major, no more than 9 credits earned elsewhere, including exchange program credits, can count towards the major. The purpose of this rule is to insure that our certification that an individual who has majored in sociology genuinely reflects our understanding of sociology as a major and that there is no fundamental difference between the transfer student and those whose work was entirely or mostly completed at the University of South Florida.

STA 3122 (3) SYG 2000 (3)
SYA 3010 (3) SYP 3000 (3)
SYA 3300 (3) and either SYO 3530 (3) or SYO 3500 (3)

For students electing a major after having successfully taken 12 upper level credits without having had a formal Introductory course, SYO 3500, Social Organization, may be substituted for SYG 2000 as a requirement. Students making this choice must take SYO 3530 to meet the additional requirement stated above.

Requirements for a Minor:
A minor consists of a total of 15 credits; SYG 2000, Introduction to Sociology (or equivalent) plus 12 semester hour credits at the 3000 level or higher. Though we do not require an adviser, feeling students to be capable of making reasonable choices, we recommend the use of an adviser to find the best set of courses fitting one's personal interests.
COURSE DESCRIPTIONS

Courses offered for credit by the University of South Florida are listed on the following pages in alphabetical order by college and subject area.

The first line of each description includes the State Common Course prefix and number (see below), title of the course, and number of credits.

Credits separated by a colon indicate concurrent lecture and laboratory courses taught as a unit:

PHY 3040, 3040L GENERAL PHYSICS AND LABORATORY (3:1)

Credits separated by a hyphen indicate variable credit:

AMH 2010, 2020 AMERICAN HISTORY I, II (4:4)

Credits separated by commas indicate unified courses offered in different semesters:

HUM 4905 DIRECTED RESEARCH (1-5)

The abbreviation "var." also indicates variable credit:

MAT 7912 DIRECTED RESEARCH (var.)

The following abbreviations are utilized in various course descriptions:

PR Prerequisite
CI With the consent of the instructor
CC With the consent of the chairperson of the department or program
CR Corequisite
Lec. Lecture
Lab. Laboratory
Dem. Demonstration
Pro. Problem
Dis. Discussion

The University reserves the right to substitute, not offer, or add courses that are listed in this catalog.

Alphabetical Listing of Departments and Programs

Course descriptions are listed by college under the following department and program headings:

Department/Program | College
---|---
Accounting | Business Administration
Administration/Supervision | Education
Adult Education | Education
African and Afro-American Studies | Social and Behavioral Sciences
Air Force ROTC | University-wide Courses
American Studies | Arts and Letters
Ancient Studies (Religious Studies) | Arts and Letters
Anthropology | Social and Behavioral Sciences
Arabic (Language) | Arts and Letters
Art | Fine Arts
Art Education | Education
Astronomy | Natural Sciences
Basic and Interdisciplinary Engineering | Engineering
Biology | Natural Sciences
Botany (Biology) | Engineering
Business and Office Education | Arts and Letters
Chemistry | Natural Sciences
Chemical and Mechanical Engineering | Arts and Letters
Chinese | Business Administration
Civil Engineering and Mechanics | Engineering
Classics | Arts and Letters
Common Body of Knowledge | Business Administration
Communication | Arts and Letters
Communicology | Social and Behavioral Sciences
Computers in Education | Education
Computer Science and Engineering | Engineering
Computer Service Courses | University-wide Courses
Cooperative Education | Education
Content Specializations | Education
Counselor Education | Social and Behavioral Sciences
Criminal Justice | Education
Curriculum and Instruction | Fine Arts
Dance | Education
Distributive and Marketing Education | Business Administration
Economics | Engineering
Electrical Engineering | Education
Elementary Education | Engineering
Engineering Technology | Arts and Letters
English | Education
English Education | Business Administration
Finance | Education
Foreign Language Education | Business Administration
Foundation Courses in Business (Graduate) | Education
Foundations Education | Arts and Letters
French (Language) | Business Administration
General Business Administration | Education
General Foreign Languages | Arts and Letters
Geography | Business Administration
Geology | Arts and Letters
Gerontology | Social and Behavioral Sciences
German (Language) | Arts and Letters
Greek (Classics) | Arts and Letters
Hebrew (Language) | Education
Higher Education | Social and Behavioral Sciences
History | University-wide Courses
Hons Program | Arts and Letters
Humanities | Education
Humanities Education | Social and Behavioral Sciences
Human Services | Engineering
Industrial and Management Systems | Education
Industrial/Technical Education | Education
Information Systems and Decision Sciences | Education
Interdisciplinary Studies | Business Administration
International Studies | Bachelor of Independent Studies Program
Italian (Language) | Social and Behavioral Sciences
Language | Arts and Letters
Latin (Classics) | Arts and Letters
Liberal Studies | Arts and Letters
Library, Media and Information Studies | Education
Linguistics | Arts and Letters
Management | Business Administration
Marine Science | Natural Sciences
Marketing | Business Administration
Mass Communications | Arts and Letters
Mathematics | Natural Sciences
Mathematics Education | Education
Measurement and Research | Arts and Letters
Medical Sciences | Medicine
Medical Technology | Natural Sciences

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## Cross-Listing of Departments and Programs Alphabetically by College, Department/Program

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### College of Education

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### Course Descriptions

**College of Engineering**
- Basic and Interdisciplinary Engineering
- Chemical and Mechanical Engineering
- Civil Engineering and Mechanics
- Computer Science and Engineering
- Electrical Engineering
- Engineering Technology
- Industrial and Management Systems

**College of Fine Arts**
- Art
- Dance
- Music
- Music Education
- Theatre

**College of Medicine**
- Medicine
- Medical Sciences

**College of Natural Sciences**
- Astronomy
- Biology
  - Botany Courses
  - Microbiology Courses
  - Zoology Courses
- Chemistry
- Geology
- Marine Science
- Mathematics
- Medical Technology
- Physics

**College of Nursing**
- Nursing

**College of Public Health**
- Public Health

**College of Social and Behavioral Sciences**
- African and Afro-American Studies
- Anthropology
- Communicology
- Criminal Justice
- Geography
- Gerontology

**History**

**Human Services**

**International Studies**

**Off-Campus Term**

**Political Science**

**Psychology**

**Public Administration**

**Rehabilitation Counseling**

**Social Sciences, Interdisciplinary**

**Social Work**

**Sociology**

**Women’s Studies**

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**Cross-Listing Departments/Programs Alphabetically by Prefix**

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CJT Criminal Justice
CLA Ancient Studies (Religious Studies), Classics
CLP Psychology
CLT Classics
COC Computer Service Courses, Computer Science and Engineering, General Business Administration, Information Systems and Decision Sciences
COE Cooperative Education
COM Communication
COP Computer Service Courses, Computer Science and Engineering, Library, Media and Information Studies, Mathematics
COT Computer Science and Engineering
CPO African and Afro-American Studies, Political Science
CRW English
DAA Dance, Physical Education Elective
DAN Dance
DEC Distributive and Marketing Education
DEP Psychology
EAS Civil Engineering and Mechanics
ECH Chemical and Mechanical Engineering
ECI Civil Engineering and Mechanics
ECO Economics
ECP African and Afro-American Studies, Economics Public Health
ECS Economics
EDA Administration/Supervision
EDE Curriculum, Elementary Education
EDF Foundations, Measurement-Research Computers in Education
EDG Art Education, Curriculum, Communication-Speech Communication, Elementary Education, Special Education
EDH Higher Education
EDM Curriculum
EDS Elementary Education, Administration/Supervision
EEC Elementary Education
EED Special Education
EEL Computer Science and Engineering, Electrical Engineering
EES Civil Engineering and Mechanics
EEX Special Education
EGC Counselor Education, Rehabilitation Counseling
EGI Special Education
EGM Civil Engineering and Mechanics
EGN Basic and Interdisciplinary Engineering
EIA Industrial and Technical Education
EIN Industrial and Management Systems Engineering
EIV Industrial and Technical Education
ELD Special Education
ELR Electrical Engineering
EMA Civil Engineering and Mechanics
EMC Chemical and Mechanical Engineering
EML Chemical and Mechanical Engineering
EMR Special Education
ENC English
ENE Computers in Education, Content Specializations
ENG English
ENL English
ENU Chemical and Mechanical Engineering
ENV Civil Engineering and Mechanics
ENY Zoology (Biology)
EPH Special Education
ESE Curriculum
ESI Industrial and Management Systems Engineering Computer and Engineering
ESL Linguistics
ETE Engineering Technology
ETG Engineering Technology
ETI Engineering Technology
EUH History
EUS International Studies Program
EVI Special Education
EVT Industrial/Technical Education
EXP Psychology
FIL Mass Communications
FIN Finance
FLE Content Specializations Foreign Language Education, French (Language)
FOL General Foreign Languages
FOW Romance (Language)
FRE French (Language)
FRW French (Language)
GAE Geography
GEB Common Body of Knowledge, Economics, General Business Administration, Information Systems and Decision Sciences
GEO Geography
GER German (Language)
GEW German (Language)
GEY Gerontology
GLY Geology
GMS Medical Sciences, Medicine
GRE Greek (Classics), Religious Studies
GRK Greek (Classics)
GRW Greek (Classics)
HBR Hebrew (Language)
HES Content Specialization, Physical Education for Teachers, Public Health
HIS History
HLP Elementary Education
HSA Public Health
HSC Medicine, Public Health
HUM African and Afro-American Studies, Humanities, Humanities Education
HUN Nursing
HUS Human Services
IDH Honors Program
IDS Honors Program, Liberal Studies, Off-Campus Term
INP Psychology
INR African and Afro-American Studies, International Studies Program, Political Science
ISM Information Systems and Decision Sciences
ISS African and Afro-American Studies, International Studies Program, Social Sciences Interdisciplinary
ITA Italian (Language)
ITW Italian (Language)
JOU Mass Communications
LAE Curriculum, Elementary Education, English, English Education
LAH History
LAS International Studies Program
LAT Latin (Language)
LEI Physical Education for Teachers, Sociology
LIN Communication, English, Linguistics
LIS Library, Media and Information Studies
LIT English, Women’s Studies
LNW Latin (Classics)
MAA Mathematics
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
<th>145</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MAC</strong> Mathematics</td>
<td><strong>POW</strong> Portuguese (Language)</td>
</tr>
<tr>
<td><strong>MAD</strong> Mathematics</td>
<td><strong>PPE</strong> Psychology</td>
</tr>
<tr>
<td><strong>MAE</strong> Content Specializations, Elementary Education, Mathematics, Mathematics Education</td>
<td><strong>PSB</strong> Psychology</td>
</tr>
<tr>
<td><strong>MAD</strong> Mathematics</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
<tr>
<td><strong>MAN</strong> Foundation Courses in Business (Graduate), General Business Administration, Management</td>
<td><strong>PUP</strong> African and Afro-American Studies, Political Science</td>
</tr>
<tr>
<td><strong>MAP</strong> Mathematics</td>
<td><strong>PUR</strong> Mass Communications</td>
</tr>
<tr>
<td><strong>MAR</strong> Marketing</td>
<td><strong>QMB</strong> Information Systems and Decision Sciences, Management</td>
</tr>
<tr>
<td><strong>MAS</strong> Mathematics</td>
<td><strong>PSB</strong> Psychology</td>
</tr>
<tr>
<td><strong>MAT</strong> Mathematics</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
<tr>
<td><strong>MCC</strong> Microbiology (Biology)</td>
<td><strong>PUP</strong> African and Afro-American Studies, Political Science</td>
</tr>
<tr>
<td><strong>MEL</strong> Medicine</td>
<td><strong>PUR</strong> Mass Communications</td>
</tr>
<tr>
<td><strong>MGF</strong> Mathematics</td>
<td><strong>QMB</strong> Information Systems and Decision Sciences, Management</td>
</tr>
<tr>
<td><strong>MIS</strong> Military Science</td>
<td><strong>PSB</strong> Psychology</td>
</tr>
<tr>
<td><strong>MLS</strong> Medical Technology</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
<tr>
<td><strong>MMC</strong> Mass Communications</td>
<td><strong>PSB</strong> Psychology</td>
</tr>
<tr>
<td><strong>MTG</strong> Mathematics</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
<tr>
<td><strong>MUC</strong> Music</td>
<td><strong>PSB</strong> Psychology</td>
</tr>
<tr>
<td><strong>MEU</strong> Elementary Education, Music Education</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
<tr>
<td><strong>MUG</strong> Music</td>
<td><strong>PSY</strong> Psychology</td>
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<tr>
<td><strong>MUH</strong> Anthropology, Music</td>
<td><strong>PSY</strong> Psychology</td>
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<tr>
<td><strong>MUL</strong> Music</td>
<td><strong>PSY</strong> Psychology</td>
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<td><strong>MUN</strong> Music</td>
<td><strong>PSY</strong> Psychology</td>
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<tr>
<td><strong>MUO</strong> Music</td>
<td><strong>PSY</strong> Psychology</td>
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<td><strong>MUS</strong> Music</td>
<td><strong>PSY</strong> Psychology</td>
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<tr>
<td><strong>MUT</strong> Music</td>
<td><strong>PSY</strong> Psychology</td>
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<td><strong>MVB</strong> Music</td>
<td><strong>PSY</strong> Psychology</td>
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<td><strong>MVK</strong> Music</td>
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<td><strong>MVP</strong> Music</td>
<td><strong>PSY</strong> Psychology</td>
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<td><strong>MVS</strong> Music</td>
<td><strong>PSY</strong> Psychology</td>
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<tr>
<td><strong>MVV</strong> Music</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
<tr>
<td><strong>NBR</strong> Nursing, Public Health</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
<tr>
<td><strong>NUR</strong> Nursing</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
<tr>
<td><strong>OCC</strong> Marine Science</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
<tr>
<td><strong>OCB</strong> Marine Science</td>
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<tr>
<td><strong>OCC</strong> Marine Science</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
<tr>
<td><strong>OGS</strong> Geology, Marine Science</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
<tr>
<td><strong>OGG</strong> Marine Science</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
<tr>
<td><strong>OCP</strong> Marine Science</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
<tr>
<td><strong>ORI</strong> Communication</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
<tr>
<td><strong>PAD</strong> Public Administration</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
<tr>
<td><strong>PCB</strong> Biology, Marine Science, Microbiology (Biology), Zoology (Biogy)</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
<tr>
<td><strong>PES</strong> Physical Education Elective</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
<tr>
<td><strong>PEM</strong> Physical Education Elective</td>
<td><strong>PSY</strong> Psychology</td>
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<tr>
<td><strong>PEN</strong> Physical Education Elective</td>
<td><strong>PSY</strong> Psychology</td>
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<tr>
<td><strong>PEP</strong> Adult Education</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
<tr>
<td><strong>PEQ</strong> Physical Education Elective, Physical Education for Teachers</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
<tr>
<td><strong>PET</strong> Physical Education Elective, Physical Education for Teachers, Adult Education</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
<tr>
<td><strong>FGY</strong> Mass Communications, Art</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
<tr>
<td><strong>PHH</strong> Philosophy</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
<tr>
<td><strong>PHI</strong> Linguistics, Philosophy</td>
<td><strong>PSY</strong> Psychology</td>
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<tr>
<td><strong>PHM</strong> African and Afro-American Studies, Philosophy</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
<tr>
<td><strong>PHP</strong> Philosophy</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
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<td><strong>PHS</strong> Physics</td>
<td><strong>PSY</strong> Psychology</td>
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<td><strong>PHY</strong> Physics</td>
<td><strong>PSY</strong> Psychology</td>
</tr>
<tr>
<td><strong>POR</strong> Portuguese (Language)</td>
<td><strong>PSY</strong> Psychology</td>
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<tr>
<td><strong>POS</strong> Political Science, Women's Studies</td>
<td><strong>PSY</strong> Psychology</td>
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<tr>
<td><strong>PET</strong> Political Science</td>
<td><strong>PSY</strong> Psychology</td>
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**COURSE LEVEL DEFINITION**

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<td><strong>Lower</strong></td>
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<td><strong>Level</strong></td>
<td>2000-2999 Sophomore Level</td>
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<tr>
<td><strong>Upper</strong></td>
<td>3000-3999 Junior Level</td>
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<tr>
<td><strong>Level</strong></td>
<td>4000-4999 Senior Level</td>
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<td><strong>Graduate</strong></td>
<td>5000-5999 Senior/Graduate Level</td>
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<tr>
<td><strong>Level</strong></td>
<td>6000-Up Graduate Level</td>
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<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td><strong>PHH</strong></td>
<td>Philosophy</td>
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<td>Linguistics, Philosophy</td>
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<td><strong>PHM</strong></td>
<td>African and Afro-American Studies, Philosophy</td>
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<td><strong>PHP</strong></td>
<td>Philosophy</td>
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<td>Physics</td>
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<td><strong>PHY</strong></td>
<td>Physics</td>
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<tr>
<td><strong>POR</strong></td>
<td>Portuguese (Language)</td>
</tr>
<tr>
<td><strong>POS</strong></td>
<td>Political Science, Women’s Studies</td>
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<tr>
<td><strong>POT</strong></td>
<td>Political Science</td>
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</table>
UNIVERSITY-WIDE COURSES

COOPERATIVE EDUCATION
Associate Director: Ray Easterlin, Assistant Director: L. J. Berman.
Job Development Coordinator: Barbara Shayeb-Helou.

COE 1940 COOPERATIVE EDUCATION, 1ST TRAINING PERIOD (0)
PR: 30 hours of academic credit, acceptance in Cooperative Education Program. (S/U only.)

COE 1941 COOPERATIVE EDUCATION, 2ND TRAINING PERIOD (0)
PR: COE 1940. (S/U only.)

COE 2942 COOPERATIVE EDUCATION, 3RD TRAINING PERIOD (0)
PR: COE 1941. (S/U only.)

COE 2943 COOPERATIVE EDUCATION, 4TH TRAINING PERIOD (0)
PR: COE 2942. (S/U only.)

COE 3944 COOPERATIVE EDUCATION, 5TH TRAINING PERIOD (0)
PR: COE 2943. (S/U only.)

COE 3945 COOPERATIVE EDUCATION, 6TH TRAINING PERIOD (0)
PR: COE 3944. (S/U only.)

COE 4946 COOPERATIVE EDUCATION, 7TH TRAINING PERIOD (0)
PR: COE 3945. (S/U only.)

COE 4947 COOPERATIVE EDUCATION, 8TH TRAINING PERIOD (0)
PR: COE 4946. (S/U only.)

COE 4948 COOPERATIVE EDUCATION, 9TH TRAINING PERIOD (0)
PR: COE 4947. (S/U only.)

COE 4949 COOPERATIVE EDUCATION, 10TH TRAINING EDUCATION (0)
PR: COE 4948. (S/U only.)

AEROSPACE STUDIES

AFR 1101 THE AIR FORCE TODAY ORGANIZATION AND DOCTRINE (1)
Introduction to the Air Force in the contemporary world through a study of its total force structure and mission.

AFR 1120 THE AIR FORCE TODAY STRUCTURE AND OLES (1)
A study of the strategic offensive and defensive forces, general purpose forces, and aerospace support forces that make up the Air Force of today.

AFR 2130 U.S. AIR POWER: ASCENSION TO PROMINENCE (1)
A study of air power from balloons and dirigibles through the jet age. Emphasis is on the employment of air power in WWI and WWII and how it affected the evolution of air power concepts and doctrine.

AFR 2140 U.S. AIR POWER: KEY TO DETERRENCE (1)
A historical review of air power employment in military and non-military operations in support of national objectives. Emphasis is on the period from post WWII to present.

AFR 2150 FIELD TRAINING (0)
Field Training is offered during the summer months at selected Air Force bases throughout the United States. Students in the fouryear program participate in four weeks of Field Training, usually between their sophomore and junior years. Students applying for entry into the two-year program must successfully complete six weeks of Field Training prior to enrollment in the Professional Officer Course. The major areas of study in the Field Training program include junior officer training, aircraft and aircrew orientation, career orientation, survival training, base functions and Air Force environment, and physical training.

AFR 3220 AIR FORCE MANAGEMENT AND LEADERSHIP I (3)
An integrated management course emphasizing the individual as a manager in an Air Force milieu. The individual motivational and behavioral processes, leadership, communication, and group dynamics are covered to provide a foundation for the development of the junior officer's professional skills as an Air Force officer (officer). The basic managerial processes involving decisionmaking, utilization of analytic aids in planning, organizing, and controlling in a changing environment are emphasized as necessary professional concepts.

AFR 3231 AIR FORCE MANAGEMENT AND LEADERSHIP II (3)
A continuation of the study of Air Force advancement and leadership. Concentration is on organizational and personal values, management of forces in change, organizational power, politics, and managerial strategy and tactics are discussed within the context of the military organization. Actual Air Force cases are used to enhance the learning and communication processes.

AFR 4201 NATIONAL SECURITY FORCES IN CONTEMPORARY AMERICAN SOCIETY I (3)
A study of the Armed Forces as an integral element of society, with an emphasis on American civil-military relations and context in which U.S. defense policy is formulated and implemented. Special themes include: societal attitudes toward the military and the role of the professional military leader-manager in a democratic society. Students will be expected to prepare individual and group presentations for the class, write reports and otherwise participate in group discussions, seminars, and conferences.

AFR 4211 NATIONAL SECURITY FORCES IN CONTEMPORARY AMERICAN SOCIETY II (3)
A continuation of the study of the Armed Forces in contemporary American society. Concentration is on the requisites for maintaining adequate national security forces; political, economic, and social constraints on the national defense structure; the impact of technological and international developments on strategic preparedness; the variables involved in the formulation and implementation of national security policy; and military justice and its relationship to civilian law. Students will be expected to prepare individual and group presentations for the class, write reports and otherwise participate in group discussions, seminars, and conferences. Proficiency in communicative skills must be demonstrated.

AFR 2001 LEADERSHIP LABORATORY (0)
Leadership Laboratory is required for each of the Aerospace Studies courses. It meets one hour per week. Instruction is conducted within the framework of an organized cadet corps with a progression of experiences designed to develop each student's leadership potential. Leadership Laboratory involves a study of Air Force customs and courtesies; drill and ceremonies; career opportunities in the Air Force; and the life and work of an Air Force junior officer. Students develop their leadership potential in a practical laboratory, which typically includes field trips to Air Force installations throughout the U.S. Bachelor of Independent Studies, State University System, External Degree Program

ISS 4909 BIS Social Sciences, Independent Study (15)
ISS 4939 BIS Social Sciences, Seminar (15)
PR: BIS SSI 4909 or CI (S/U only)
ISC 4909 BIS Natural Sciences, Independent Study (15)
ISc 4939 BIS Natural Sciences, Seminar (15)
PR: BIS ISc 4909 or CI (S/U only)

HUM 4930 BIS Humanities, Independent Study (15)
PR: BIS HUM 4909 or CI (S/U only)

IDS 4910 BIS Inter-Area Studies (30)
OR: SSI 4939, SSI 4909, ISc 4939, HUM 4909, HUM 4939

HONORS PROGRAM
Director: Stuart Silverman

(There is no permanent University Honors faculty. Instructors for the following courses are recruited from among the University’s most outstanding teacher-scholars). University Honors students must take all of the following including 2 semesters of either Thesis or Project (but not both).

IDH 2010 ACQUISITION OF KNOWLEDGE (4)
PR: Admission into the Honors Program. An appreciation of the problems of how human understanding proceeds through operations such as perception, classification, and inference, among others, as well as the open philosophic questions behind these operations.

IDH 3100 ARTS/HUMANITIES HONORS (4)
PR: IDH 2010. An introduction to western arts and letters from the perspectives of three period terms (classicism, romanticism, and modernism), the relationship of ideas to art, the similarities among the arts of a given period, and important differences between periods.

IDH 3350 NATURAL SCIENCES HONORS (4)
PR: IDH 2010. Restricted to University Honors Students. An exploration of current knowledge concerning fundamental principles in the Sciences, their potential for application and attendant ethical and philosophical questions.

IDH 3400 SOCIAL AND BEHAVIORAL SCIENCES HONORS (4)

IDH 3600 SEMINAR IN APPLIED ETHICS (4)
PR: IDH 2010. Restricted to University Honors Students. This course explores ethical issues related to selected topics such as Ethics of Technology, Ethics in Business, Bio-Medical Ethics, Personnel Ethics Development.

IDH 4000 JUNIOR HONORS SEMINAR (4)
PR: IDH 2010, IDH 3100, IDH 3200, IDH 3300, IDH 3400. A course in problem-solving skills designed to prepare students for independent research. The class will be responsible for determining course content and requirements in close consultation with a faculty mentor.

IDH 4950 HONORS PROJECT (4)
PR: Senior Honors Standing. The development of and public presentation of a special project such as an original musical composition, dramatic piece, etc. under the direction of a mentor.

IDH 4970 HONORS THESIS (4)
PR: Senior Honors Standing. The research for and writing of a senior thesis under the direction of a mentor.

MILITARY SCIENCE
Professor: LTC Howard M. Abney, Jr.; Associate Professors: MAJ Frank J. Cook, MAJ Thomas Mikalauskas, MAJ Kevin Keating;
Assistant Professors: CPT Angelo E. Eguizabal, MAJ Philip Barnette, CPT Charles Crompton, CPT Patrick Simon.

Students not attending on an Army Scholarship may take the 1000 and 2000 level courses with no obligation to the Army. Army Scholarships and Service obligation options are discussed in class.

MIS 1000 ORGANIZATION OF THE ARMY AND ROTC
Introduction, purpose, and obligation of the Army and ROTC. Introduction to military customs and traditions; rank structure and the role of an Army officer. An optional two hour weekly Laboratory with emphasis on adventure skills, such as rappelling, physical training and weapons is offered.

MIS 2601 MILITARY TRAINING MANAGEMENT AND INSTRUCTIONAL TECHNIQUES (1)
PR: MIS 1020 or equivalent, available to non-majors. Study and application of the principles of map reading, military and topographic symbols, terrain appreciation and evaluation, map orientation, intersection and resection, use of the lenisatic compass, and an introduction to land navigation.

MIS 261 LEADERSHIP ASSESSMENT (1)
PR: MIS 2601 or equivalent; available to non-majors. Develops an understanding of the fundamental concepts involved with methods of instruction, training management and curriculum development in the military. Actual student preparation and presentation of instruction will be an integral part of the course.

MIS 2940 INTENSIFIED BASIC SKILLS COURSE (4)
An intense summer program conducted at Fort Knox, Kentucky for six weeks. Designed as an alternative method to meet the prerequisites of the Advance Course for students who have no basic Military Science courses. (S/U only.)

MIS 3300 SMALL UNIT OPERATIONS (3)
Open to ROTC Contract Cadets only. Provides training required by junior officer to direct and coordinate individuals and small units in the execution of offensive and defensive tactical missions. Also provides exposure to military weapons and communications systems found at this level, Students must attend a two hour Leadership Laboratory weekly.

MIS 3404 LEADERSHIP FUNDAMENTALS - TACTICS AND CAMP PREPARATION (3)
Open to ROTC Contract Cadets only. Improves cadet proficiency in those military subjects necessary to meet minimum standards of technical competence and self-confidence required of a junior officer in the U.S. Army. Prepares cadets for participation at Advanced Camp. Major emphasis during course is placed on physical training and field training exercises. Student must attend a two hour Leadership Laboratory weekly.

MIS 4402 ARMY AS A PROFESSION (2)
 Designed to prepare cadets for duty as commissioned officers. Instruction centers around proficiency/familiarization with the military justice system, military administration, the Officer Professional Management System, international laws of war, and principles of management/leadership.

MIS 4421 SEMINAR IN LEADERSHIP AND MANAGEMENT (3)
Provides a basic understanding of the professional soldier’s responsibilities to the Army and the nation. Attempts to improve ethical decision-making skills through an examination of the need for ethical conduct, greater awareness and sensitivity to ethical issues, and the opportunity to apply these abilities in real world case study situations. Included are seminars to acquaint the new lieutenant with his/her relationship to NCOs, company grade officers, and senior officers.
AMS 2363 ISSUES IN AMERICAN CIVILIZATION  
Through lecture and demonstration an examination of such topics as natural environment and the quality of life, sports and American society, leisure and technology, vigilant tradition, jazz music, role of the family, American success myth, youth in America. Repeatable up to 6 credit hours.

AMS 3001 AMERICA AT THE TURN OF THE CENTURY - 6A  
Integration of major aspects of American life between 1898 and 1914. Should be taken the first term a student becomes an American Studies major. Elective for non-majors.

AMS 3201 THE COLONIAL PERIOD  
The pattern of American culture as revealed through an examination of selected writings and pertinent slides and recordings dealing with the art, architecture and music of the colonial period. Elective for non-majors.

AMS 3210 REGIONS OF AMERICA  
The pattern of American culture as revealed through an examination of selected writings and other pertinent materials dealing with selected American regions. Elective for non-majors. Repeatable up to eight credit hours.

AMS 3230 AMERICA DURING THE TWENTIES AND THIRTIES  
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. Elective for non-majors.

AMS 3370 SOUTHERN WOMEN: MYTH AND REALITY - 6A  
An analysis of the myths surrounding Southern Women, this course will identify these myths, discern their sources and purposes, and contrast them with history. (Also offered under Women's Studies.)

AMS 3700 RACISM IN AMERICAN SOCIETY  
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.

AMS 3930 SELECTED TOPICS IN AMERICAN STUDIES  
Offerings include The American Success Myth, Cultural Darwinism in America, America Through Foreign Eyes, Contemporary Topics in American Studies and Racism.

AMS 4100 GREEK CIVILIZATION - 6A  
Study of Greek Civilization from its beginning to the Roman period, with emphasis on social customs, political institutions, and daily life.

AMS 4120 ROMAN CIVILIZATION - 6A  
Study of Ancient Roman Civilization with emphasis on social customs, political institutions, and daily life.

AMS 4935 SENIOR SEMINAR  
PR: Senior in Interdisciplinary Classics and the Ancient World Program. A seminar integrating disciplines involved in the study of the civilizations of the Ancient Near East, Greece and Rome.

Courses in Translation

CLT 3040 CLASSICAL WORD ROOTS IN SCIENCE  
A course in the Greek and Latin word elements used in science and technology.

CLT 3101 GREEK LITERATURE IN TRANSLATION - 6A  
Reading and discussion of major works in Greek literature. Special emphasis is given to the Iliad, the dramatics Aeschylius, Sophocles, Euripides and Aristophanes. Some attention is given to the social and political background of the works. All readings are in English.

CLT 3102 ROMAN LITERATURE IN TRANSLATION - 6A  
Reading and discussion of major works in Roman literature. Special emphasis is placed on the Aeneid, comedy and satire. Some attention is given to the social and political background of the works. All readings are in English.

CLT 3370 CLASSICAL MYTHOLOGY - 6A  
Study of Greek and Roman myths embodied in classical literature and of their impact on Western civilization. All readings are in English. See Interdisciplinary Classics.  

Greek

GRE 1100 BEGINNING CLASSICAL GREEK I  
An introductory course in classical Greek grammar with appropriate readings.

GRE 1101 BEGINNING CLASSICAL GREEK II  
PR: GRE 1100 or equivalent. An introductory course in classical Greek grammar with appropriate readings.

GRE 3110 BEGINNING MODERN GREEK I  
An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.

GRE 3111 BEGINNING MODERN GREEK II  
PR: GRE 3110 or its equivalent. A continuation of GRE 3110. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.
LAT 1120 (formerly LAT 1100) BEGINNING LATIN I
An introductory course in Latin grammar with appropriate readings. (4)
LAT 1121 BEGINNING LATIN II
PR: LAT 1120 or equivalent. An introductory course in Latin grammar with appropriate readings. (4)

COM 3003 DIMENSIONS OF COMMUNICATION
PR: SPC 2023. An introductory survey of the various perspectives for the study of human communication. An exploration of the assumptions, constructs, and explanatory paradigms associated with the study of communication in its symbolic, aesthetic, historical, critical, and pragmatic dimensions. (3)

COM 3122 INTERVIEW COMMUNICATION
A study of communication theory relative to interview situations with emphasis on the employment interview, appraisal interview, and persuasive interview. (3)

COM 3131 TECHNICAL COMMUNICATION
Investigation and application of methodology and effective technical communication of effective oral presentation of technical reports. (3)

COM 3110 COMMUNICATION FOR BUSINESS AND THE PROFESSIONS
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. (3)

COM 4942 COMMUNICATION INTERN SEMINAR
PR: Communication major, minimum GPA 3.0, 75 hours completed, 15 hours of core requirements and 9 elective hours completed, and CI. Seminar provides students with an opportunity to put into practice concepts and skills acquired in their study of communication. Weekly seminar sessions augment intern experience. Application for seminar must be submitted one semester prior to seminar offering. (3)

COM 5123 COMMUNICATION ASSESSMENT IN ORGANIZATIONS
PR: ORI 3000 or CI; non-majors, COM 3122 or COM 3110 or CI. A survey of communication concepts which impact upon organizational effectiveness. (3)

ORI 3000 FUNDAMENTALS OF ORAL READING
PR: SPC 2023. A study of the means by which the communication specialist intervenes in organizational behavior. An emphasis is placed on gathering and analyzing organizational communication data. (3)

ORI 3950 ORAL INTERpretATION of DRAMATIC LITERATURE
PR: ORI 3000 or CI. Critical appreciation of lyric and narrative poetry and communication of that appreciation to audience. Study of poetic theory and prosodic techniques. (3)

ORI 4140 ORAL INTERPRETATION OF DRAMATIC LITERATURE
PR: ORI 3000 or CI. Critical appreciation and oral interpretation of special textual materials which are inherently dramatic in nature and poetry, narrative prose, drama, biography, and history. (3)

ORI 4310 GROUP PERFORMANCE OF LITERATURE
PR: ORI 3000 or CI. Designed to introduce the student to and give experience in various forms of group approaches to oral interpretation. (3)

ORI 5145 ORAL INTERPRETATION OF DRAMATIC LITERATURE II
PR: ORI 4140. A study of selected pre-modern dramas with special emphasis on problems of interpretation for oral performance. (3)
ORI 5210 ORAL INTERPRETATION OF CHILDREN'S LITERATURE  
PR: ORI 3000 or Cl. A study of the theories and practice in the oral interpretation of poetry and narrative fiction for children with special emphasis on classical and modern literature.

SPC 2023 FUNDAMENTALS OF SPEECH COMMUNICATION  
The nature and basic principles of speech; emphasis on improving speaking and listening skills common to all forms of oral communication through a variety of experience in public discourse.

SPC 2050 SPEECH IMPROVEMENT AND PHONETICS  
Designed to improve vocal quality and expressiveness, articulation, and pronunciation, and to give instruction and practice in the use of the International Phonetic Alphabet for speech improvement.

SPC 2052 SPEECH IMPROVEMENT AND PHONETICS II  
PR: SPC 2050 or Cl. A continuation of SPC 2050. Emphasis will be upon applying listening and transcription skills to the improvement of vocal quality and effective expressions.

SPC 3210 COMMUNICATION THEORY  
PR: Junior standing or Cl. The study of source, message, and receiver variables in human communications; communication settings; descriptive and predictive models of communication; speech communication as a process.

SPC 3230 RHETORICAL THEORY  
This course surveys the foundations and historical evolution of major concepts, issues, theorists, and approaches to the study of rhetoric from Plato to recent contemporary theorists.

SPC 3301 INTERPERSONAL COMMUNICATION  
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.

SPC 3410 PARLIAMENTARY PROCEDURES  
Principles of parliamentary procedure and practice in conducting and participating in meetings governed by parliamentary rules.

SPC 3441 GROUP COMMUNICATION  
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.

SPC 3513 ARGUMENTATION AND DEBATE  
PR: Junior standing or Cl. Study of principles of argumentation as applied in oral discourse, analysis of evidence and modes of reasoning, practice in debate preparation and delivery.

SPC 3594 FORENSICS  
Study, library research, practice in public speaking situations on campus and in intercollegiate forensic competition. May be repeated (maximum of four hours).

SPC 3601 PUBLIC SPEAKING  
PR: SPC 2023 or Cl. Study and application of communication strategies in speaking extemporaneously and from manuscript. The course includes study of selected public addresses as aids to increased understanding of speaking skills.

SPC 3633 RHETORIC OF CONFRONTATION  
PR: Junior standing or Cl. The study of rhetorical strategies and tactics of agitation and control in confrontation situations.

SPC 3651 CURRENT ISSUES AND RHETORIC  
Analysis of significant current speakers and issues. May be repeated.

SPC 3653 POPULAR FORMS OF PUBLIC COMMUNICATION  
PR: Junior standing or Cl. Analysis of public communication with emphasis on various presentational forms.

SPC 4680 HISTORY AND CRITICISM OF PUBLIC ADDRESS  
PR: SPC 3601 or Cl. The principles of rhetorical criticism applied to selected great speeches of Western Civilization.

SPC 4900 DIRECTED READINGS  
PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and Cl. Maximum 6 hours.

SPC 4905 UNDERGRADUATE RESEARCH  
PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and Cl. Maximum 6 hours. Individual investigations with faculty supervision.

SPC 4930 SELECTED TOPICS  
PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and Cl. May be repeated.

SPC 4932 SENIOR SEMINAR IN COMMUNICATION  
PR: Senior standing, minimum GPA 3.0, 15 hours of core requirements and 9 elective hours completed, and Cl. Communication major. Exploration of selected topics of current significance to the several areas of communication through group discussion and research.

SPC 5335 NONVERBAL COMMUNICATION  
PR: Senior and Cl. A survey of scientific and pragmatic research in nonverbal behavior relating to communication.

SPC 5912 RESEARCH  
PR: Senior or graduate standing and Cl.

SPC 5933 SELECTED TOPICS  
PR: Senior or graduate standing. Undergraduates must have minimum GPA 3.0, 15 hours of core requirements and 9 elective hours completed, and Cl.

ENGLISH


AML 3031 AMERICAN LITERATURE FROM THE BEGINNINGS TO 1860  
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, Poe, and Whitman.

AML 3033 AMERICAN LITERATURE FROM 1860 TO 1945  
A study of selected American realists, naturalists, and modernists (between WW I and WW II), among them Whitman, Dickinson, Twain, James, Crane, Dreiser, Faulkner, Williams, Wright, Steinbeck, Stevens, Robinson, and Frost.

AML 3271 BLACK LITERATURE  
A study of Black American literature from the nineteenth century to the present, including the works of such writers as W.E.B. DuBois, Jean Toomer, Langston Hughes, Richard Wright, Ralph Ellison, LeRoi Jones, and Nikki Giovanni.

AML 3273 AMERICAN INDIAN LITERATURE  
A survey of native American Literature from pre-Columbian religious and folk literature to the current voices in the pan-Indian movement.

AML 4101 NINETEENTH-CENTURY AMERICAN NOVEL  

COMMUNICATION 151
A study of the American novel from its beginnings through 1900, including such novelists as Cooper, Hawthorne, Melville, James, Twain, Crane, and Dreiser, among others.

AML 4123 TWENTIETH-CENTURY AMERICAN NOVEL
A study of major trends and influences in American prose fiction from 1900 to the present. Includes works by such writers as Hemingway, London, Fitzgerald, Faulkner, West, Mailer, Bellow, Ellison, Donleavy, Updike, Vonnegut, and others.

AML 4261 LITERATURE OF THE SOUTH
A study of the major writers of the "Southern Renaissance" including writers such as Faulkner, Wolfe, Caldwell, Hellman, McCullers, O'Connor, Warren, Styron, Allen Tate, and Donald Davidson.

AML 4300 MAJOR AMERICAN AUTHORS
The study of two or three related major authors in American literature, focusing on several major figures; the course may include such writers as Melville and Hawthorne, Hemingway and Faulkner, James and Twain, Pound and Eliot, Stevens and Lowell, etc. Specific topics will vary. May be repeated twice for credit with different topics.

CRW 3100 NARRATION AND DESCRIPTION -6A
A study of narrative and descriptive techniques in prose. By making the student sensitive to language usage, it is designed to bridge the gap between expository writing and imaginative writing.

CRW 3111 FORM AND TECHNIQUE OF FICTION -6A
A study of short narrative forms such as the anecdote, tale, character sketch, incident, monologue, epistolary story, and short story as they have been used in the development of fiction and as they exist today.

CRW 3112 FICTION I -6A
PR: CRW 3111. An introduction to fiction writing, beginning with a practical study of the various elements of fiction and proceeding through the many processes of revision to arrive at a completed work of art.

CRW 3121 FICTION II -6A
PR: CRW 3111, CRW 3112. A fiction workshop which provides individual and peer guidance and direction for the student's writing and develops critical standards.

CRW 3311 FORM AND TECHNIQUE OF POETRY
Examines the techniques employed in fixed forms from the sonnet through the sonnet to such various forms as the Rondel, ballad, vellanelle, sestina, etc. Principles in the narrative, dramatic, and lyric modes are explored.

CRW 3312 POETRY I
PR: CRW 3311. An introduction to poetry writing utilizing writing exercises employing poetic language and devices; the exercises progress to the writing of both rhymed and unrhymed metrical and non-metrical forms.

CRW 3321 POETRY II
PR: CRW 3311, CRW 3312. A poetry workshop which provides individual and peer guidance and direction for the student's writing and develops critical standards.

CRW 4120 FICTION III
PR: CRW 3111, CRW 3112, CRW 3121. An advanced fiction workshop wherein works may be carried over from CRW 3121 or longer forms such as the novel may be begun. May be taken twice for credit.

CRW 4320 POETRY III
PR: CRW 3311, CRW 3312, CRW 3321. An advanced poetry workshop wherein students are expected to create work exhibiting a firm knowledge of the principles explored in the preceding courses. May be taken twice for credit.

CRW 4930 SELECTED TOPICS IN CREATIVE WRITING
PR: 12 hours of CRW courses or CI. Focus of the course will be governed by student demand and instructor interest. Topics to be covered may include writing the literary essay, writing in mixed genres, and utilizing popular conventions in serious works. May be repeated up to 8 credit hours.

ENC 1101, 1102 FRESHMAN ENGLISH -6A
Instruction and practice in the skills of writing and reading. Courses must be taken in numerical sequence.

ENC 1112 FRESHMAN ENGLISH II: HONORS
Honors Section of ENC 1102. Reserved for students in the University's Honors Program.

ENC 1122 FRESHMAN ENGLISH II: HONORS
PR: ENC 1121. Honors Section of ENC 1102. Reserved for students in the University's Honors Program.

ENC 3210 TECHNICAL WRITING -6A
Effective presentation of technical and semi-technical information.

ENC 3213 PROFESSIONAL WRITING
Introduction to the techniques and types of professional writing, including correspondence and reports most often found in business, technical, and scientific communities.

ENC 3310 EXPOSITORY WRITING -6A
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.

ENC 4260 ADVANCED TECHNICAL WRITING
PR: ENC 3210, or ENC 3310, or GEB 3211, or CI. Advanced Technical Writing is a course designed to develop writing skills of a high order: technical exposition; technical narration, description, and argumentation; graphics; proposals; progress reports; physical research reports; and feasibility reports.

ENC 4311 ADVANCED COMPOSITION
PR: ENC 3310 or CI. Instruction and practice in writing effective, lucid, and compelling prose, with special emphasis on style, logical argumentation, and critical thinking.

ENC 4931 SELECTED TOPICS IN PROFESSIONAL AND TECHNICAL WRITING
PR: ENC 3213, ENC 3210, or ENC 3310 or CI. Focus of the course will be determined by student demand and instructor interest. Topics to be covered may include legal writing, the conventions of business writing, and writing for the social sciences.

ENG 3105 MODERN LITERATURE, FILM, AND THE POPULAR ARTS
A study of particular films and novels that shows us how such popular arts as the detective story, westerns, science fiction, spy stories, and musical comedy have changed; tells us something about why important changes took place; and explores how and why many serious writers and filmmakers today use techniques, ideas and situations drawn from the popular arts.

ENG 3114 MODERN DRAMA
A study of such modern and contemporary dramaticists as Ibsen, Strindberg, Chekhov, Pirandello, Shaw, O'Neill, Pinter, Stoppard, Brecht, Beckett, and Ionesco.

ENG 4013 LITERARY CRITICISM
A study of the works of major literary critics from Aristotle to the present, with emphasis on their meaning, their implied world view, and their significance for our own time and literature.

ENG 4906 INDIVIDUAL RESEARCH
Directed study in special projects. Special permission of chairperson required.

ENG 4907 DIRECTED READING
Readings in special topics.

ENG 4935 HONORS SEMINAR I
PR: Admission to English Honors Program (should be taken concurrently with ENG 4936). A study of two or three major American or British writers. Students will be expected to participate in class
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discussion, make formal presentations, and complete a major research project.

ENG 4936 HONORS SEMINAR II
PR: Admission to English Honors Program (should be taken concurrently with ENG 4935). A study of critical theory from Aristotle to the present. Students will be expected to participate in class discussion, make formal presentations, and complete a major research project.

ENG 4970 HONORS THESIS SEMINAR
PR: ENG 4935 and ENG 4936. For students writing honors theses. Class time will be devoted to exchange of research findings, instructor and peer critique of method, structure, and rhetoric of individual projects.

ENL 3015 BRITISH LITERATURE TO 1616
A survey of representative prose, poetry, and drama from its beginnings through the Renaissance, including such poems and figures as Beowulf, Chaucer, Malory, More, Hooker, Skelton, Wyatt, Sidney, Spenser, Shakespeare, Donne, and Jonson.

ENL 3230 BRITISH LITERATURE 1616-1780
A survey of 17th Century and Neoclassical Literature, including such figures as Donne, Herbert, Crashaw, Vaughan, Marvell, Milton, Pope, Swift, Johnson, Boswell, and Goldsmith.

ENL 3250 BRITISH LITERATURE 1780-1900
The poetry and poetics of the Romantic figures, with attention to the continuing importance of romantic thinking in contemporary affairs and letters; a survey of representative figures of the Victorian and Edwardian periods, including poetry, prose, and drama.

ENL 3273 BRITISH LITERATURE 1900-1945
Survey of poetry, drama, and fiction of such writers as Eliot, Yeats, Thomas, Conrad, Shaw, Joyce, Lawrence, Huxley, Woolf, Forster, Waugh, Owen, Auden, O'Casey, among others.

ENL 3333 SHAKESPEARE I
A reading of from ten to twelve representative plays with special attention to developing the student's ability to read, visualize, and interpret the text.

ENL 3334 SHAKESPEARE: TEXTS AND FILMS
An introduction to the art of William Shakespeare through a comparative analysis of four of his most famous dramas and modern film adaptation of them; Hamlet, King Lear, Romeo and Juliet and Henry V.

ENL 4122 BRITISH NOVEL THROUGH HARDY
A study of early and later British novels such as Fielding, Smollett, Sterne, Austen, Scott, Dickens, Eliot, and Hardy, among others.

ENL 4132 BRITISH NOVEL:
CONRAD TO THE PRESENT
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, among others.

ENL 4171 HISTORY OF BRITISH DRAMA TO 1912
A study of the history of British Drama from its liturgical origins to the beginning of the twentieth century, exclusive of Shakespeare. Included are the mystery and morality plays, and representative works by Marlowe, Jonson, Middleton, Dryden, Congreve, Sheridan, and Wilde, among others.

ENL 4303 MAJOR AUTHORS
The study of two or three related major figures in English, American, or World Literature. The course may include such writers as Fielding and Austen, Keats and Yeats, Joyce and Flaubert, etc. Specific topics will vary. May be taken twice for credit with different topics.

ENL 4311 CHAUCER
An intensive study of The Canterbury Tales and major critical concerns.

ENL 4338 SHAKESPEARE II
PR: ENL 3333 or CI. Intensive study of selected plays of Shakespeare, with special attention to significant critical issues and to the Elizabethan and Jacobean cultural setting.

ENL 4341 MILTON
Study of the poetry and major prose of John Milton, with special emphasis on Paradise Lost.

LIN 4100 HISTORY OF THE ENGLISH LANGUAGE
The evolution of language from Anglo-Saxon to Modern English. Development of the English lexicon. Changes in the pronunciation, syntactic, and semantic systems; discussion of the forms which influenced them.

LIN 4340 TRADITIONAL ENGLISH GRAMMAR
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 4370 STRUCTURE OF AMERICAN ENGLISH
An introductory survey of traditional, structural, and generative transformational grammars and their techniques for the analysis and description of linguistic structure in general, and contemporary American English in particular.

LIN 5107 HISTORY OF THE ENGLISH LANGUAGE
PR: Senior or Graduate standing. The course will trace the history of the English Language from its beginnings in Continental Europe through the Anglo-Saxon and Middle English periods, the Renaissance, and the Nineteenth Century, to the present day with emphasis on both the structural development of the language and the political, social, and intellectual forces that determined this development.

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

LIT 2021 CURRENT SHORT FICTION
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 2091 CURRENT NOVELS
A study of major British and American novels since WW II; attention will be given to the cultural influences and recent literary trends. Will not be counted toward the English major.

LIT 2092 DRAMA: TEXTS AND FILMS
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 3022 MODERN SHORT NOVEL
A study of the novella from the nineteenth century to the present. Writers include: James, Dostoevsky, Camus, Styron, Nabokov, Gardner, Roth, Vonnegut, among others.

LIT 3073 CONTEMPORARY LITERATURE
An introduction to the fiction, poetry, and drama written since 1945 — American, British, Continental. 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
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
A study in English of the great works of Western Literature from the Neoclassic to the Modern Period, including such writers as Moliere, Racine, Voltaire, Dostoevsky, Chekhov, Ibsen, Kafka, Gide, Sartre, and Camus, among others.
LIT 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 Sartre.

LIT 3304 TWENTIETH-CENTURY BEST SELLERS (3)
A study of representative best-selling novels in twentieth century America, including such popular works as *Peyton Place, Lady Chatterly's Lover, Exodus,* and *Catcher in the Rye,* which have sold in excess of 5,000,000 copies and have served to portray our changing society and to reveal our changing literary taste.

LIT 3310 FANTASY AND SCIENCE FICTION (3)
A study of fantasy and science fiction in England and America from Mary Shelley to the present, including such writers as Poe, Melville, Ray Bradbury, Arthur C. Clarke, among others.

LIT 3374 THE BIBLE AS LITERATURE (3)
Major emphasis on literary types, literary personalities of the Old and New Testaments, and Biblical archetypes of British and American literary classics.

LIT 3383 THE IMAGE OF WOMEN IN LITERATURE (3)
A survey of feminism, antifeminism, 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. (Also offered under Women's Studies.)

LIT 3410 RELIGIOUS AND EXISTENTIAL THEMES (3)
Theological and philosophical ideas, allusions, and symbols in the writings of Dostoevsky, Nietzsche, Mann, Joyce, Eliot, Camus, Sartre, among others.

LIT 3451 LITERATURE AND THE OCCULT (3)
An introduction to the occult tradition as a major ingredient in English, Continental, and American literature; analysis of the origins, classifications, and areas of the various magic arts from classical times through the present.

LIT 3716 SURVEY OF POETRY (3)
A chronological sampling of the major poems written in English from the Middle Ages to the present. Recommended as the first course in the poetry option.

LIT 3931 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 selected group of writers.

LIT 4011 THEORY OF FICTION (3)
Intensive study of the genres and varieties of fiction to ascertain the theoretical and technical problems involved in the work of fiction.

LIT 4930 SELECTED TOPICS IN ENGLISH STUDIES (1-4)
The content of 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 (3)
Designed to help students develop maximum reading efficiency. The course includes extensive instruction and laboratory practice in the improvement of adequate rates of reading, vocabulary, and comprehensive skills. An independent study approach is also available for students who prefer to assume responsibility for their own progress.

REA 2405 SPEED READING DEVELOPMENT (2)
A course designed to develop speed reading techniques on various levels of difficulty. Emphasis is placed on comprehension via numerous practice drills. Will not be counted toward the English major. (S/U only.)

REA 3505 VOCABULARY (3)
A practical course in rapid vocabulary improvement for students in all areas. Stress is on words in context. Will not be counted toward the English major.

HUMANITIES

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 for credit with change of content. May be repeated up to 8 credit hours.

HUM 3024 THE ARTS (3)
Analyses of selected works of film, literature, music, and visual arts, including a variety of periods, nationalities and art forms, emphasizing artistic diversity. Especially recommended for students intending to take 4000 level Humanities courses at a future date.

HUM 3214 STUDIES IN CULTURE: THE CLASSICAL AND MEDIEVAL PERIODS (3)
Analyses of selected works of classical and medieval architecture, drama, sculpture, intellectual prose, and other art forms. Typical course focus is on architecture, drama, and intellectual prose.

HUM 3236 STUDIES IN CULTURE: THE RENAISSANCE AND THE NINETEENTH CENTURY (3)
Analyses of selected fiction, drama, painting, architecture, music and other art forms. Typical course focus is on painting and music.

HUM 3251 STUDIES IN CULTURE: THE TWENTIETH CENTURY (3)
Analyses of selected works of twentieth century art, primarily emphasizing film, with secondary emphasis on painting and fiction.

HUM 3271, 3273 THE CULTURE OF THE EAST AND WEST (4,4)
Masterpieces of music, visual arts, theatre, literature, and philosophy in varying cultural and historical situations.

HUM 3580 CURRENT SCENE (2)
Live performances in contemporary media will be followed by discussions. The course will emphasize recent developments in the arts with some special attention to current innovations. (S/U only.)

HUM 4402 HUMANITIES IN THE ORIENT: INDIA (4)
PR: Sophomore standing or C. 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 THE ORIENT: CHINA (4)
PR: Sophomore standing or C. 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 4405 HUMANITIES IN THE ORIENT: JAPAN (4)
PR: Sophomore standing or C. 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 CLASSICAL ARTS AND LETTERS (4)
PR: Sophomore standing or C. Case studies in the arts and letters of the ancient world.

HUM 4434 CLASSICAL ARTS AND LETTERS (4)
PR: Sophomore standing or C. Case studies in the arts and letters of the ancient world.

HUM 4435 MEDIEVAL ARTS AND LETTERS (4)
PR: Sophomore standing or C. Case studies in the arts and letters of the middle ages.
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HUM 4436 MEDIEVAL ARTS AND LETTERS (4)
PR: Sophomore standing or Cl. Case studies in the arts and letters of the middle ages.

HUM 4437 RENAISSANCE ARTS AND LETTERS -6A (4)
PR: Sophomore standing or Cl. Case studies in the arts and letters of the Renaissance.

HUM 4438 RENAISSANCE ARTS AND LETTERS -6A (4)
PR: Sophomore standing or Cl. Case studies in the arts and letters of the Renaissance.

HUM 4440 THE ENLIGHTENMENT -6A (4)
PR: Sophomore standing or Cl. Case studies in the arts and letters of the Enlightenment.

HUM 4442 ARTS AND LETTERS OF THE ROMANTIC PERIOD (4)
PR: Sophomore standing or Cl. Case studies in the arts and letters of the romantic period.

HUM 4444 NINETEENTH CENTURY ARTS AND LETTERS (4)
PR: Sophomore standing or Cl. Case studies in the arts and letters of the nineteenth century.

HUM 4452 HUMANITIES IN AMERICA (19th Cen.), I (4)
PR: Sophomore standing or Cl. Case studies in the arts and letters of the nineteenth century, emphasizing the post-Civil War period, in order to achieve an understanding of the relationship between democratization and the search for indigenous voices in American culture.

HUM 4453 HUMANITIES IN AMERICA (19th Cen.), II (4)
PR: Sophomore standing or Cl. Case studies in the arts and letters of the United States, in order to explore the diversity of American culture in the twentieth century; to examine the historical, social and economic forces that shape the arts and letters of this period; and to show the strong interplay between fact and imagination that characterizes American Culture in our time.

HUM 4462 LATIN AMERICAN ARTS AND LETTERS, I (4)
PR: Sophomore standing or Cl. 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 4463 LATIN AMERICAN ARTS AND LETTERS II (4)
PR: Sophomore standing or Cl. 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 4471, 4473 TWENTIETH-CENTURY ARTS AND LETTERS (4,4)
PR: Sophomore standing or Cl. Case studies in the arts and letters of the twentieth century.

HUM 4905 DIRECTED STUDY (1-4)
Specialized individual study determined by the student’s needs and interests.

HUM 4930 SELECTED TOPICS IN HUMANITIES (1-4)
PR: Sophomore standing or Cl. This course will deal with a recurrent theme in the arts as, for example, love or death, or will focus on artistic centers such as Renaissance Florence or Paris in the 1920s. Topics will vary; course may be repeated for credit with change of content.

HUM 4931 SEMINAR IN HUMANITIES (4)
PR: Humanities major or Cl; Senior standing. Discussion of interdisciplinary humanities. Includes essay.

HUM 4941 STUDY ON LOCATION (1-4)
Prerequisites: None. 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.

LANGUAGE


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 4200 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 4200 or equivalent.

Arabic

ARA 1120 (formerly ARA 3110) MODERN ARABIC I (4)
An intensive study of basic skills: pronunciation, listening comprehension, speaking and some composition.

ARA 3121 (formerly ARA 3111) MODERN ARABIC II (4)
PR: ARA 1120 or its equivalent. A continuation of ARA 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

Chinese

CHI 1120 MODERN CHINESE I (4)
Mandarin. An intensive study of basic skills: pronunciation, listening, comprehension, speaking, and some composition.

CHI 1121 MODERN CHINESE II (4)
Mandarin. PR: CHI 1120 or equivalent. A continuation of CHI 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

French

FRE 1040 (formerly FRE 1060) FRENCH FOR READING (3)
Designed to provide a reading ability in French that will support research in other disciplines. Primarily for graduate students.

FRE 1120 (formerly FRE 1100) BEGINNING FRENCH I (4)
The first course in the study of elementary French. Emphasis on the development of basic skills in comprehension, speaking and reading.

FRE 1121 (formerly FRE 1101) BEGINNING FRENCH II (4)
PR: FRE 1120 or equivalent. A continuation of FRE 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

FRE 2200 INTERMEDIATE FRENCH I (3)
PR: FRE 1121 or equivalent. A review of the basic structure of French. May be taken concurrently with FRE 2201.

FRE 2201 INTERMEDIATE FRENCH II (3)
PR: FRE 1121 or equivalent. Readings in French on the intermediate level. May be taken concurrently with FRE 2200.

FRE 2440 COMMERCIAL FRENCH (3)
PR: FRE 1121 or equivalent. An introduction to the French language as used in undertaking ordinary business transactions.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>FRE 3420</td>
<td>CONVERSATION I</td>
<td>(4)</td>
<td>PR: FRE 1121. For development of basic conversational skills.</td>
</tr>
<tr>
<td>FRE 3420</td>
<td>COMPOSITION I</td>
<td>(3)</td>
<td>A fundamental composition course for students who have completed FRE 2200 or FRE 2201.</td>
</tr>
<tr>
<td>FRE 3470</td>
<td>OVERSEAS STUDY</td>
<td>(1-6)</td>
<td>An intensive study-travel project in France. Prior approval and early registration required. May be repeated up to 12 credit hours.</td>
</tr>
<tr>
<td>FRE 3500</td>
<td>FRENCH CIVILIZATION</td>
<td>(3)</td>
<td>Readings and discussion on the cultural history of France.</td>
</tr>
<tr>
<td>FRE 4241</td>
<td>CONVERSATION II</td>
<td>(4)</td>
<td>PR: FRE 3240 or equivalent proficiency. Conversation practice with concentration on current idiomatic usage. May be repeated for a total of 8 hours.</td>
</tr>
<tr>
<td>FRE 4421</td>
<td>COMPOSITION II</td>
<td>(3)</td>
<td>Continuation of French composition. This course is designed to follow FRE 3420.</td>
</tr>
<tr>
<td>FRE 4470</td>
<td>ADVANCED OVERSEAS STUDY</td>
<td>(1-6)</td>
<td>PR: FRE 3470 or CI. Intensive language study in France. Departmental approval required.</td>
</tr>
<tr>
<td>FRE 4905</td>
<td>DIRECTED STUDY</td>
<td>(1-3)</td>
<td>Departmental approval required.</td>
</tr>
<tr>
<td>FRE 4930</td>
<td>SELECTED TOPICS</td>
<td>(1-3)</td>
<td>Study of an author, movement or theme.</td>
</tr>
<tr>
<td>FRE 5425</td>
<td>(formerly FRE 5422) ADVANCED WRITTEN EXPRESSION</td>
<td>(3)</td>
<td>PR: FRE 4421, or equivalent. Course is designed to give advanced training in free composition in French.</td>
</tr>
<tr>
<td>FRE 5566</td>
<td>CONTEMPORARY FRANCE</td>
<td>(3)</td>
<td>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.</td>
</tr>
<tr>
<td>FRW 4100</td>
<td>INTRODUCTION TO FRENCH NOVEL</td>
<td>(3)</td>
<td>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.</td>
</tr>
<tr>
<td>FRW 5222</td>
<td>CLASSICAL PROSE AND POETRY</td>
<td>(3)</td>
<td>PR: FRW 4101. Emphasis on Malherbe, La Fontaine, Boileau, Descartes, and Pascal.</td>
</tr>
<tr>
<td>FRW 5226</td>
<td>20TH CENTURY POETRY AND THEATRE</td>
<td>(3)</td>
<td>PR: FRW 4101. Valery, Claudel, Anouilh, Sartre, Ionesco and others. Will also include Villon, Ronsard, DuBellay, Lamartine, Hugo, Vigny, Musset, Baudelaire, Mallarme, Rimbaud, Valery, Peguy, Eluard, Apollinaire, Char, and others. Course content may vary from year to year.</td>
</tr>
<tr>
<td>FRW 5286</td>
<td>(formerly FRW 5283) THE 20TH CENTURY NOVEL</td>
<td>(3)</td>
<td>PR: FRW 4100. Proust, Gide, Mauriac, Malraux, Camus, Robbe-Grillet.</td>
</tr>
<tr>
<td>FRW 5310</td>
<td>CLASSICAL DRAMA</td>
<td>(3)</td>
<td>PR: FRW 4101. Corneille, Mollier, and Racine.</td>
</tr>
<tr>
<td>FRW 5415</td>
<td>LITERATURE OF THE MIDDLE AGES</td>
<td>(3)</td>
<td>PR: FRW 4100 or 4101. Major genres, including epics, Arthurian romances, drama and lyric poetry. Reading in modern French translation.</td>
</tr>
<tr>
<td>FRW 5445</td>
<td>(formerly FRW 5440) 18TH CENTURY LITERATURE</td>
<td>(3)</td>
<td>PR: FRW 4100. The classical tradition and the new currents of thought in the Age of Enlightenment.</td>
</tr>
<tr>
<td>FRW 5550</td>
<td>ROMANTICISM AND EARLY REALISM</td>
<td>(3)</td>
<td>PR: FRW 4101. A study of the romantic and early realistic movements with emphasis on Lamartine, Vigny, Musset, Hugo and Balzac.</td>
</tr>
<tr>
<td>FRW 5556</td>
<td>NATURALISM AND REALISM</td>
<td>(3)</td>
<td>PR: FRW 4100 or 4101. A detailed study of realism and naturalism with emphasis on Flaubert, Zola, les Goncourt, Maupassant, and Daudet.</td>
</tr>
<tr>
<td>FRW 5934</td>
<td>SELECTED TOPICS</td>
<td>(1-3)</td>
<td>PR: Upper-level or graduate standing. Study of an author, movement or theme.</td>
</tr>
<tr>
<td>GER 1060</td>
<td>GERMAN FOR READING</td>
<td>(3)</td>
<td>Designed to provide a reading ability in German that will support research in other disciplines.</td>
</tr>
<tr>
<td>GER 1120</td>
<td>(formerly GER 1100) BEGINNING GERMAN I</td>
<td>(4)</td>
<td>Development of basic skills in listening and reading comprehension, speaking and writing of German.</td>
</tr>
<tr>
<td>GER 1121</td>
<td>(formerly GER 1101) BEGINNING GERMAN II</td>
<td>(4)</td>
<td>PR: GER 1120 or equivalent. Continued development of basic skills in listening and reading comprehension, speaking and writing of German.</td>
</tr>
<tr>
<td>GER 2200</td>
<td>INTERMEDIATE GERMAN I</td>
<td>(3)</td>
<td>PR: GER 1121 or equivalent. A review of the basic structure of spoken and written German. May be taken concurrently with GER 2201.</td>
</tr>
<tr>
<td>GER 2201</td>
<td>INTERMEDIATE GERMAN II</td>
<td>(3)</td>
<td>PR: GER 1121 or equivalent. Readings in German on the intermediate level. May be taken concurrently with GER 2200.</td>
</tr>
<tr>
<td>GER 3240</td>
<td>CONVERSATION I</td>
<td>(3)</td>
<td>PR: GER 1121. For development of basic conversational skills.</td>
</tr>
<tr>
<td>GER 3420</td>
<td>COMPOSITION I</td>
<td>(3)</td>
<td>A fundamental course for students who have completed GER 2200 or GER 2201.</td>
</tr>
<tr>
<td>GER 3500</td>
<td>GERMAN CIVILIZATION</td>
<td>(3)</td>
<td>PR: GER 2200 or GER 2201. Readings in German on the cultural history of Germany.</td>
</tr>
<tr>
<td>GER 4410</td>
<td>(formerly GER 4241) CONVERSATION II</td>
<td>(3)</td>
<td>Free conversation based on the current German idiom.</td>
</tr>
<tr>
<td>GER 5845</td>
<td>HISTORY OF THE GERMAN LANGUAGE</td>
<td>(3)</td>
<td>A diachronic approach to the study of the German language. The course traces the history and development of the language from IndoEuropean through Germanic, Old, Middle, and New High German.</td>
</tr>
<tr>
<td>GEW 4100</td>
<td>SURVEY OF GERMAN LITERATURE</td>
<td>(4)</td>
<td>Old High German and Middle High German literature in modern German translation; the literature of Humanism and Baroque, the classical period.</td>
</tr>
</tbody>
</table>
GEW 4101 SURVEY OF GERMAN LITERATURE II
The romantic period, 19th and 20th centuries. (4)
GEW 4900 DIRECTED STUDY
Departmental approval required. (1-3)
GEW 4930 SELECTED TOPICS
Study of an author, movement or theme. (1-3)
GEW 5475 20TH CENTURY LITERATURE TO 1945
A survey of major styles in German literature from 1900 to WW II with emphasis on Hauptmann, Schnitzler, Hofmannsthal, George Rilke, Kaiser, Heym, Trakl, Thomas Mann, Hesse, Kafka, Benn, Brecht. (3)

GEW 5489 20TH CENTURY LITERATURE
1945 TO PRESENT
Study of major trends in German literature since WWII with emphasis on Borchert, Frisch, Durrenmatt, Boll, Uwe, Johnson, Grass, Aichinger, Eich Enzensberger, Bachmann. (3)

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

GEW 5545 (formerly GEW 5541) ROMANTICISM
Jenaer circle and Heidelberger circle; the late romantic period, the writers between Classicism and Romanticism. (3)

GEW 5555 (formerly GEW 5551) REALISM
Selected works by Grillparzer, Grabbe, Buchner, Hebbel, Heine, Immerman, Stifter, Keller, Meyer, Storm, Raabe, Hulshoff, and Morike. (3)

GEW 5600 GOETHE
Selected novels, poems: Werther, Wahlverwandtschaften, Wilhelm Meister, Westöstlicher Divan. (3)

GEW 5603 FAUST
Sources, form, content, and literary significance of Urfaust and Faust. (3)

GEW 5610 SCHILLER
Selected dramas, philosophical and aesthetical writings. (3)

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

ITALIAN

ITA 1120 (formerly ITA 1100) BEGINNING
ITALIAN I
The first course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking, and reading. (4)

ITA 1121 (formerly ITA 1101) BEGINNING
ITALIAN II
The second course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking and reading. (4)

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

ITA 2201 INTERMEDIATE ITALIAN II
PR: ITA 1121 or equivalent. Readings in Italian on the intermediate level. May be taken concurrently with ITA 2200. (3)

ITA 3240 ITALIAN CONVERSATION I
To develop fluency and correctness in spoken Italian. Intensive study for conversational skill based particularly upon the current Italian idiom. Syntax is intensified and the vocabulary and idiomatic expressions expanded. (4)

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

ITA 3470 OVERSEAS STUDY
An intensive study-travel project in Italy. Prior approval and early registration required. May be repeated up to 12 credit hours. (1-6)

ITA 3500 ITALIAN CIVILIZATION
Readings and discussion on the cultural history of Italy. (3)

ITA 4241 ITALIAN CONVERSATION II
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 conversation; prepared speeches. Differences of media, syntactical signal. (4)

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

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

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

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

Japanese

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

JPN 1121 MODERN JAPANESE II
PR: JPN 1120 or equivalent. A continuation of JPN 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired. (4)

Portuguese

POR 1120 BEGINNING PORTUGUESE I
Development of basic skills in listening and reading comprehension, speaking and writing of Brazilian Portuguese. (4)

POR 1121 BEGINNING PORTUGUESE II
PR: POR 1120 or equivalent. Continued development of basic skills in listening and reading comprehension, speaking and writing of Brazilian Portuguese. (4)

POR 3500 THE LUSO-BRAZILIAN WORLD
An introduction to the culture and civilization of Portugal and Brazil. (3)

POW 4905 DIRECTED STUDY
Departmental approval required. May be repeated. (1-3)

Russian

RUS 1120 (formerly RUS 1100) BEGINNING RUSSIAN I
The first course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading. (4)

RUS 1121 (formerly RUS 1101) BEGINNING RUSSIAN II
PR: RUS 1120 or Cl. The second course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading. (4)
Spanish

SPN 1120 (formerly SPN 1100) BEGINNING SPANISH I
Development of basic skills in listening and reading comprehension, speaking and writing of Spanish.

SPN 1121 (formerly SPN 1101) BEGINNING SPANISH II
PR: SPN 1120 or equivalent. Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish.

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

SPN 2200 INTERMEDIATE SPANISH I
PR: SPN 1121 or equivalent. Review of the basic structure of spoken and written Spanish. May be taken concurrently with SPN 2221.

SPN 2201 INTERMEDIATE SPANISH II
PR: SPN 1121 or equivalent. Readings in Spanish on the intermediate level. May be taken concurrently with SPN 2220.

SPN 2240 CONVERSATION I
PR: SPN 1121. For development of basic conversational skills.

SPN 2440 COMMERCIAL SPANISH
PR: SPN 1121 or equivalent. An introduction to the Spanish language as used in undertaking ordinary business transactions.

SPN 3241 CONVERSATION II
PR: SPN 2240 or equivalent. To improve fluency in spoken Spanish.

SPN 3300 COMPOSITION
PR: SPN 2200-2201. A study of syntax, grammar and writing.

SPN 3470 OVERSEAS STUDY
PR: SPN 1121. An intensive study-travel program in a Spanishspeaking country. Prior departmental approval and early registration are required.

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. For majors and non-majors.

SPN 4301 EXPOSITORY WRITING
PR: SPN 3300. Practical training in contemporary Spanish structure, usage and stylistic devices.

SPN 4410 ADVANCED CONVERSATION
PR: SPN 3241 or equivalent. Intensive practice in the formulation and expression of ideas in standard Spanish.

SPN 4470 ADVANCED OVERSEAS STUDY

SPN 5557 CONTEMPORARY SPAIN
PR: SPN 3500 or equivalent or graduate standing. Advanced readings and discussions dealing with contemporary Spanish civilization and culture, including a study of recent social, artistic and political trends. Texts and discussions in Spanish.

SPN 5795 (formerly SPN 5790) PHONOLOGY AND PHONETICS
PR: SPN 3300. A study of the Spanish sound system.

SPN 5845 HISTORY OF THE SPANISH LANGUAGE
Traces the development of Spanish from its Latin origins to the present.

SPW 3200 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 3200 or equivalent. A study of Spanish literature from its origins through the 17th century.

SPW 4101 SURVEY OF SPANISH LITERATURE II
PR: SPW 3200 or equivalent. A study of the later periods of Spanish literature.

SPW 4130 SURVEY OF SPANISH-AMERICAN LITERATURE I
PR: SPW 3200 or equivalent. An introduction to the study of Colonial Spanish-American literature from the Discovery to Modernism.

SPW 4131 SURVEY OF SPANISH-AMERICAN LITERATURE II
PR: SPW 3200 or equivalent. An introduction to the study of Spanish-American literature from the Modernism period to the present. Emphasis on modern writers since Dario.

SPW 4900 DIRECTED STUDY
Departmental approval required.

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

SPW 5245 THE PICARESQUE NOVEL
Realistic prose-fiction of the Renaissance and Golden Age.

SPW 5315 (formerly SPW 5313) GOLDEN AGE DRAMA
PR: SPW 4100. Lope de Vega, Alarcon, Tirso, Calderon, and others.

SPW 5405 (formerly SPW 5400) MEDIEVAL LITERATURE
PR: SPW 4100 or equivalent. Course gives an in-depth study of principal works and authors of the period such as El Poema de Mio Cid, Libro de Buon Amor and La Celestina.
### MASS COMMUNICATIONS

**MASS COMMUNICATIONS 159**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENS 1484</td>
<td>ENGLISH FOR FOREIGN STUDENTS II</td>
<td>(3)</td>
</tr>
<tr>
<td>LIN 3010</td>
<td>INTRODUCTION TO LINGUISTICS</td>
<td>(3)</td>
</tr>
<tr>
<td>LIN 3801</td>
<td>LANGUAGE AND MEANING -6A</td>
<td>(3)</td>
</tr>
<tr>
<td>LIN 4040</td>
<td>DESCRIPTIVE LINGUISTICS</td>
<td>(3)</td>
</tr>
<tr>
<td>LIN 4377</td>
<td>LANGUAGE TYPES OF THE WORLD</td>
<td>(3)</td>
</tr>
<tr>
<td>LIN 4701</td>
<td>PSYCHOLINGUISTICS</td>
<td>(3)</td>
</tr>
<tr>
<td>LIN 4710</td>
<td>LANGUAGE AND COMMUNICATION: ACQUISITION AND DEVELOPMENT</td>
<td>(3)</td>
</tr>
<tr>
<td>LIN 4903</td>
<td>DIRECTED READING</td>
<td>(1-3)</td>
</tr>
<tr>
<td>LIN 4930</td>
<td>SELECTED TOPICS</td>
<td>(1-3)</td>
</tr>
<tr>
<td>MMC 3100</td>
<td>ENGLISH FOR FOREIGN STUDENTS</td>
<td>(3)</td>
</tr>
</tbody>
</table>

**LINGUISTICS**

**Program Director:** J. B. Camp

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**LIBERAL STUDIES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDS 3300</td>
<td>STRUCTURES OF KNOWLEDGE AND KNOWING</td>
<td>(4)</td>
</tr>
<tr>
<td>IDS 3310</td>
<td>PROGRESS AND UTOPIA</td>
<td>(4)</td>
</tr>
<tr>
<td>IDS 3320</td>
<td>FREEDOM AND THE SELF</td>
<td>(4)</td>
</tr>
<tr>
<td>IDS 4344</td>
<td>SEMINAR: MAN AND NATURE</td>
<td>(3)</td>
</tr>
<tr>
<td>IDS 4930</td>
<td>SELECTED TOPICS</td>
<td>(1-4)</td>
</tr>
</tbody>
</table>

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**LINGUISTICS**

**Professors:** R.W. Cole, R.C. O’Hara; **Associate Professors:** J.C. Calisich, Sr., J.B. Camp, C.J. Cargill.

**ENGLISH FOR FOREIGN STUDENTS I**

A special course for students learning English as a second language. Intensive study and drill in American English pronunciation and listening comprehension.

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**LIBERAL STUDIES**

**Program Director:** J. B. Camp

**ENGLISH FOR FOREIGN STUDENTS I**

A special course for students learning English as a second language. Intensive study and drill in American English pronunciation and listening comprehension.
ADV 3101 CREATIVE STRATEGY I (3)
PR: ADV 3000 and ECO 2023. Study of laboratory experience in preparation of advertising copy for newspapers, magazines, radio, television, direct mail, outdoor displays, and special items.

ADV 3103 RADIO-TELEVISION ADVERTISING (3)
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 (3)

ADV 3700 RETAIL ADVERTISING PLANNING AND EXECUTION (3)
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 4801 ADVERTISING CAMPAIGNS (3)
PR: ACG 2001, ADV 3101, ADV 3300, MMC 4420, ECO 2013, ECO 2023, and MAR 3023. Advanced advertising course requiring planning and production of complete general advertising campaign, including research, production methods, budgeting, and media schedules.

ADV 4940 ADVERTISING PRACTICUM (1)
PR: Senior standing and CI. For selected advertising sequence majors. Practical experience outside the classroom in a live advertising situation where the student works for academic credit under the tutelage of a professional practitioner. (S/U only.)

FIL 3004 THE FILM AS MASS COMMUNICATION I: SYNTAX (3)
PR: MMC 3100 and MMC 3602. The language, conventions, elements, and patterns of the film medium as related to current models of effective mass communication and new theories of nonverbal communication. Concurrent laboratory experiences in control of light and line.

FIL 3200 THE FILM AS MASS COMMUNICATION II: RHETORIC AND STYLISTICS (3)
PR: FIL 3004. A continuation of FIL 3004 to include the effective arrangements of scenes and sequences in motion picture and television films. Concurrent laboratory experiences in sound and editing.

FIL 3201 THE FILM AS MASS COMMUNICATION III: WORKSHOP (3)
PR: FIL 3200. Practical exercises, demonstrations, and experiences in applying material covered in FIL 3004 and FIL 3200.

FIL 4205 ADVANCED CAMERA TECHNIQUES (3)
PR: FIL 3004. Advanced camera technology, professional procedures, emulsion selection, color control, studio and location shooting, laboratory methods, matte shooting, and special effects.

FIL 4206 ADVANCED FILM LIGHTING (3)
PR: FIL 4205. Advanced lighting of studio and location sets stressing professional procedures and standards from preproduction to post production.

FIL 4207 SENSITOMETRY AND PHOTOMETRICS (3)
PR: FIL 3004. The materials and processes of cinema photo; response of materials to development and exposure.

FIL 4300 THE DOCUMENTARY FILM (3)
PR: Sophomore standing. The development of the documentary movement; earliest newreels; Flaherty, Grierson and the GPO Unit. U.S. Government-sponsored films, the Canadian Film board, Cinema Verite; study of about 60 fact-films from some 20 countries. Stresses objective criteria, critical analysis.

FIL 4404 SOCIAL HISTORY OF THE FILM, 1945 TO THE PRESENT (3)
PR: MMC 3100 and MMC 3602. The development of the film from 1945 to the present. (FIL 4403 is not a prerequisite.)

JOU 3006 MAGAZINES IN SOCIETY (3)
PR: MMC 3100 and MMC 3602. A study of the development of various types of magazines in America, and a critical analysis of current problems and performances of periodicals along with changes indicated for the future.

JOU 3100 BEGINNING REPORTING (3)
PR: MMC 3100 and MMC 3602. Basic instruction in news judgment, sources of news, newspapering, and newswriting techniques. Typing ability is required.

JOU 3101 ADVANCED REPORTING (3)
PR: POS 2041, JOU 3100, or RTV 3300 (RTV majors only), JOU 4200 (may be taken concurrently), and PHI 1103. Getting information and writing the more complex and specialized story, techniques of investigative and analytical reporting, including ethical and legal considerations.

JOU 3300 MAGAZINE ARTICLE AND FEATURE WRITING (3)
PR: CRW 3101, JOU 3300, JOU 4200. Planning, researching, writing, and marketing articles for general and special interest magazines and newspaper magazine supplements; experiences in developing article idea; inductive analysis of contemporary magazine articles.

JOU 3306 CRITICAL WRITING: EDITORIALS, REVIEWS, COLUMNS (3)
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 writing art, drama, music and book reviews and satire, sports, or personal columns.

JOU 3940 REPORTING PRACTICUM (1)
PR: JOU 4104 and CI. For selected News-Editorial Sequence majors. Practical experience outside the classroom in a live newspaper reporting situation where the student works for academic credit under the tutelage of a professional practitioner. (S/U only.)

JOU 4104 PUBLIC AFFAIRS REPORTING (3)
PR: JOU 3101, POS 2041 and POS 3142. Covering city council meetings, courthouse, city hall, courts, society, and other special assignments. Emphasis is on coverage of major governmental units of all levels of government, including examination and interpretation of public documents and records.

JOU 4200 NEWS EDITING I (3)
PR: ECO 2013, JOU 3100, and SYG 1010. Evaluating news and its display; editing and rewriting copy for the mass media, with emphasis on coverage of major governmental units of all levels of government, including examination and interpretation of public documents and records.

JOU 4202 NEWS EDITING II (3)
PR: JOU 4200, POS 2041. Continuation of JOU 4200, with more intensive practice on the copydesk in evaluating, processing, editing, and headlining live wire copy and local copy; experimental makeup; managing the copy desk. Current events and analysis of selected daily newspapers.

JOU 4206 NEWSPAPER DESIGN AND TYPOGRAPHY (3)
PR: ADV 3002 and JOU 4200 or CI. Theoretical and practical applications of newspaper design; problems in newspaper layout; the research of newspaper typography and design and its application; redesign of contemporary newspapers.

JOU 4208 MAGAZINE EDITING AND PRODUCTION (3)
PR: JOU 3300, JOU 4200. A study of magazines in America: preparation of copy, photographs and art for printing; issue plan-
ning and design; examination of production methods, including printing typography and mechanics. Preparation of a detailed proposal and comprehensive for a hypothetical magazine.

**JOU 4500 NEWSPAPER ORGANIZATION AND MANAGEMENT**


**JOU 4800 MASS MEDIA STUDIES**

PR: Junior standing. JOU 3100, MMC 3602. Intensive review of mass communications theory, practice, and content as they relate to teaching mass media in secondary schools, with some emphasis also on supervision of school publications. Not open to Mass Communications majors.

**JOU 4941 EDITING PRACTICUM**

PR: Senior standing, JOU 4202 and CI. For selected News-Editorial Sequence majors. Practical experience outside the classroom at a daily newspaper copydesk, where the student works for academic credit under the tutelage of a professional editor. (S/U only.)

**MMC 3100 WRITING FOR THE MASS MEDIA**

PR: Sophomore standing; 2.7 GPR; grade of "C" in ENC 1101, ENC 1102, typing proficiency, and passing score on English Diagnostic Test. An introduction to the basic skills of writing for the mass media with practice in library research, persuasive writing, and informational writing.

**MMC 3602 MASS COMMUNICATIONS AND SOCIETY**

PR: Sophomore standing. A survey of the history, theory processes, and philosophy of mass communications and the mass media in the United States, and their relationship to the other major institutions of American society.

**MMC 3700 THE POPULAR ARTS IN AMERICA**

A survey of the growth of the popular arts (motion pictures, radio, television, art best sellers, jazz and other forms of music, the comics, etc.) as mirrors, transmitters and transformers of American cultural values.

**MMC 4123 MEDIA SCRIPT WRITING**

PR: MMC 3100 and MMC 3602. An introduction to the techniques of writing scripts for photographic and multi-media presentation, electronic media, and industrial and documentary film.

**MMC 4200 HISTORY AND PRINCIPLES OF COMMUNICATIONS LAW**

PR: MMC 3100 and MMC 3602. Historical and Constitutional back­grounds of freedom and control of expression, statutory enactments, major Supreme Court cases, court decisions and administrative rulings which have shaped legal control of communications.

**MMC 4201 GOVERNMENT AND THE MEDIA**

PR: MMC 4200. The relationships between government and the media, with emphasis on current activities of such regulatory agencies as the Federal Communications Commission, the Federal Trade Commission and other commissions; the courts, the Congress and the Executive; examination of the media and industry codes and standards.

**MMC 4300 INTERNATIONAL COMMUNICATION**

Mass communications as internal and international systems; flow of the news; international news communications network; satellite communications, overseas activities of American media interests; international media organizations and their activities.

**MMC 4420 RESEARCH METHODS IN MASS COMMUNICATIONS**

PR: MMC 3100, MMC 3602, and/or CI. 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, CC and CI. Reading and directed study in special topics.

**MMC 4910 INDIVIDUAL RESEARCH IN MASS COMMUNICATIONS**

PR: CC and CI. The course provides means for a student to do independent study in an area not covered by a numbered course.

**MMC 4936 SELECTED TOPICS IN MASS COMMUNICATIONS STUDIES**

PR: Junior standing. Courses designed to meet current or specific topics of interest to instructors and students.

**MMC 4945 MEDIA INTERNSHIP-SEMINAR**

PR: CI and 15 hours in Mass Com. courses and completion of an 8-12 week media internship with newspaper, broadcast station, or other media-related agency approved by the department and paid by the sponsor. Reports on experiences for discussion and evaluation. (S/U only.)

**PGY 3610 PHOTOJOURNALISM I**

PR: MMC 3100 and MMC 3602. Camera operation, darkroom techniques, picture composition; editing, ethics, history, and laws in connection with photojournalism.

**PGY 3620 PHOTOJOURNALISM II**

PR: PGY 3610. 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.

**PGY 4110 COLOR PHOTOGRAPHY**

PR: PGY 3620. 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. Laboratory required.

**PUR 3000 PRINCIPLES OF PUBLIC RELATIONS**

PR: ECO 2013, ECO 2023, MAN 3025, MMC 3100 and MMC 3602. The functions of public relations within corporate and institutional structures; ethical standards of practice, and relationships of the practice to the public media and other modes of contemporary communication.

**PUR 4001 ADVANCED PUBLIC RELATIONS**

PR: PUR 3000, PUR 4100, and MMC 4420. As final course in PR sequence, it involves intensive study of counseling and problem-solving techniques used in professional practice. Analysis of case studies and preparation of complete PR program. Extensive reading in the literature of contemporary practice.

**PUR 4100 WRITING FOR PUBLIC RELATIONS**

PR: JOU 3100, PUR 3000. Persuasive writing techniques unique to the practice of public relations; application of principles and ethical practices to problem-solving situations drawn from case studies; writing formats used in promotional and publicity literature.

**PUR 4601 PUBLIC INFORMATION**

PR: POS 2041, POS 2112, and PUR 4100. The nature of government public information organization, practices, and criticisms thereof; the role of public information specialists in reporting government at all levels to the public; conceptual differences in approach and techniques between governmental and private sector public relations.
PUR 4700 PUBLIC RELATIONS PRACTICUM (1)
PR: Senior standing and CI. For selected Public Relations Sequence majors. Practical experience outside the classroom in a professional public relations situation where the student works for academic credit under the tutelage of a professional practitioner.

RTV 3000 INTRODUCTION TO BROADCASTING (3)
PR: MMC 3100 and MMC 3602. A survey of the organization, structure, and function of the broadcasting industry.

RTV 3100 WRITING FOR RADIO AND TV (3)
PR: ENC 3310 or CRW 3100, RTV 3000. The writing of radio and television scripts such as documentaries, children's programs, commercials, dramas, talks, and demonstrations.

RTV 3210 RADIO PRODUCTION AND DIRECTION (3)
PR: RTV 3000. Radio production and direction; laboratory and broadcast experiences.

RTV 3225 VIDEO WORKSHOP (1)
PR: MMC 3100 and MMC 3602 or CI. An introduction to the techniques and applications of field television production and electronic editing.

RTV 3320 BROADCASTING ANNOTICNG (3)
PR: ORI 3000, RTV 3000, SPC 2023 or SPC 2050 or THE 2020. Development of skills required for effective announcing and other appearances before microphone and camera.

RTV 3300 BROADCAST NEWS (3)
PR: RTV 3000. The study and methods in gathering, writing, and editing newscasts for radio and television.

RTV 3941 RADIO PRACTICUM (1)
PR: RTV 3210 and CI. The study, rehearsal, and production of radio programs and materials. (S/U only.)

RTV 4205 ADVANCED TV PRODUCTION AND DIRECTION (3)
PR: RTV 4220 and junior standing. Intensive study and practice of the techniques of TV production and direction with emphasis on both creative and experimental aspects of TV programming.

RTV 4220 TV PRODUCTION AND DIRECTION (3)
PR: RTV 3000, RTV 3225, and junior standing. A basic course in the techniques of producing and directing TV programs.

RTV 4301 TV NEWS FILM (3)
PR: RTV 3300 and RTV 3225. Techniques in writing and filming for television news.

RTV 4402 MEDIA CRITICISM: BROADCASTING (3)
PR: RTV 3000. A critical study of contemporary broadcast content.

RTV 4500 THE BROADCAST PROGRAM (3)
PR: RTV 3000. Program concepts, resources, costs, selection and scheduling. Analysis of programming in terms of structures, appeals and strengths.

RTV 4700 BROADCAST LAW (3)
PR: RTV 3000, RTV 3300, MMC 4200 and POS 2112, or RTV 3000, RTV 4500, RTV 3100 or RTV 3300, and Senior standing. A study of broadcasting industry from the perspective of governmental regulation and the political process with special emphasis on how regulatory policy is determined.

RTV 4942 TV PRACTICUM (1)
PR: RTV 4220 and CI. The study, rehearsal and production of television programs and materials. (S/U only.)

VIC 3000 INTRODUCTION TO
VISUAL COMMUNICATIONS (3)
PR: MMC 3100 and MMC 3602. The survey of visual communication theory, techniques, and their contemporary application and social influences as applied to the visual media with emphasis on still photography, motion pictures, video tape, and graphics.

VIC 3943 VISUAL COMMUNICATION PRACTICUM (1)
PR: Senior standing and CI. For selected Visual Communications Sequence majors. Practical experience outside the classroom in a professional environment where the student works for academic credit under the tutelage of a professional practitioner. (S/U only.)

PHILOSOPHY

PHI 3000 INTRODUCTION TO PHILOSOPHICAL TRADITIONS -6A (3)
An historical introduction to selected philosophical traditions through readings from representative thinkers.

PHI 3100 ANCIENT AND MEDIEVAL PHILOSOPHY (3)
A survey of philosophy from the pre-Socratics through Plotinus.

PHI 3420 MODERN PHILOSOPHY (3)
A survey of Western philosophy from Descartes through Thomas Reid.

PHI 3440 RECENT PHILOSOPHY (3)
A survey of philosophy from Kant through nineteenth century philosophy.

PHI 4600 CONTEMPORARY PHILOSOPHY -6A (3)
Selected schools of twentieth century thought such as idealism, positivism, pragmatism, realism, and existentialism.

PHI 4700 AMERICAN PHILOSOPHY -6A (3)
Major traditions in American thought, Puritanism, the Enlightenment, Transcendentalism, Idealism, Pragmatism, and Analytic Philosophy in relation to American culture.

PHI 1000 GREAT PHILOSOPHERS OF THE WESTERN WORLD (2)
Lectures and discussions of the great philosophers since Plato, focusing on particular problems.

PHI 1010 PHILOSOPHIC CONTROVERSIES (2)
A discussion of central controversies in philosophy such as the nature of love, violence, freedom, truth, morality, etc.

PHI 1103 PRACTICAL LOGIC -6A (2)
Elementary theory and application of logical fallacies, deductive and inductive logic. Not for majors.

PHI 3011 INTRODUCTION TO PHILOSOPHICAL PROBLEMS -6A (3)
An introduction to major philosophical problems through readings from representative thinkers.

PHI 3100 LOGIC -6A (4)
Language analysis and classical modern formal logic, including the logic of classes and propositions, and discussion of philosophical issues.

PHI 3404 SCIENTIFIC METHOD (3)
Probability, inductive inference, the hypothetico-deductive method, experimentation, and selected topics in the philosophy of science.

PHI 3600 ETHICS (3)
An examination of the writing of the philosophers: Plato, Aristotle, Kant, Sartre, etc., about moral problems and principles.

PHI 3601 CONTEMPORARY MORAL ISSUES (3)
Open to all students. A study of contemporary moral issues concerning racism, sex, sexism, abortion, poverty, crime, war, suicide, and human rights in general.

PHI 3631 ETHICS AND BUSINESS (3)
An application of traditional ethical theories to contemporary problems in business.

PHI 3634 BIOMEDICAL ETHICS (3)
This course will focus on the ethical issues arising from advances in medical practice, delivery of health care, and scientific research.

PHI 3700 PHILOSOPHY OF RELIGION -6A (3)
Analysis of religious experience and activity and examination of principal religious ideas in light of modern philosophy.
### PHILOSOPHY

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### RELIGIOUS STUDIES


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<td>REL 2300</td>
<td>INTRODUCTION TO WORLD RELIGIONS -6A</td>
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<td>REL 3000</td>
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<td>REL 3120</td>
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**GRE 3040 NEW TESTAMENT GREEK I**

**GRE 3041 NEW TESTAMENT GREEK II**

**REL 2300 INTRODUCTION TO WORLD RELIGIONS -6A**
Belief structures and behaviors of native American religions, Hinduism, Buddhism, Chinese religions, Judaism, Christianity and Islam, examined in films and in the reading of core religious texts.

**REL 3000 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 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 3145 WOMEN AND RELIGION -6A (3)
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 3170 RELIGION, ETHICS AND SOCIETY -6A (3)
Explores the relations between religion, ethics, and society in Eastern and Western cultures, and the critical problems raised by the emergence of modern, secularized civilization. Open to majors and non-majors.

REL 3210 INTRODUCTION TO THE BIBLE/Old Testament (4)
An introduction to the critical study of the Hebrew Scriptures against the background of the ancient Near East, with attention to the history and religion of the Hebrew people. REL 3210 and REL 4221 may not both be credited toward the major.

REL 3340 INTRODUCTION TO THE NEW TESTAMENT (3)
An introduction to the critical study of the New Testament in context of Christian beginnings in the first century A.D. REL 3240 and REL 4244 may not both be credited toward the major.

REL 3280 BIBLICAL ARCHAEOLOGY (3)
An examination in depth 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 (5)
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 (3)
The sources of Hindu philosophic thought, and understanding of the psychology of the Yogas, and a study of the Hindu holy men and women are the three main concerns of this course.

REL 3340 BUDDHISM (3)
The study and comparison of Theravada and Mahayana Buddhism in their philosophical and psychological dimensions.

REL 3350 RELIGIONS OF CHINA AND JAPAN (3)
This course will investigate the philosophy of ancient China and its two 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 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, Althizer, Buber, Niebuhr.

REL 3500 HISTORY OF CHRISTIANITY (4)
The historical development of Christianity, its ideas and institutions, from the first century to the rise of "religious modernism" in the 19th century.

REL 3600 INTRODUCTION TO JUDAISM (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 3611 HISTORY OF JUDAISM I (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 3612 HISTORY OF JUDAISM II (3)
A study of the history of Judaism and the Jews from the third century of our era through the Middle Ages to the Emancipation in the 19th century. Taking History of Judaism I first is advantageous.

REL 3613 MODERN JUDAISM (2)
A study of Jewish life in the West since 1789, emphasizing Jewish beliefs, practices, and institutions.

REL 3900 DIRECTED READINGS (1-4)
PR: CI. Individual guidance in concentrated reading on a selected topic.

REL 3921 COLLOQUIUM (1)
This colloquium will be held at least 3 times each semester 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. (S/U only.)

REL 3936 SELECTED TOPICS (1-4)
PR: CI. Course contents depend on students' needs.

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. Open to majors and non-majors.

REL 4162 RELIGION, SCIENCE AND SOCIETY (3)
This course will explore the religious roots of science and the history of its emancipation. Special emphasis will be given to the interaction of religion and science in contemporary society. Open to majors and non-majors.

REL 4171 CONTEMPORARY CHRISTIAN ETHICS -6A (3)
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. Open to majors and non-majors.

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 BIBLE I: OLD TESTAMENT LAW AND HISTORY (4)
An examination of the Pentateuch (Torah) from the point of view of its literary development, religious traditions, historical background, law, covenant theology, and the history of the religion of Israel.

REL 4224 BIBLE II: PROPHETS, WRITINGS (3)
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 4235 APOCRYPHA AND PSEUDEPIGRAPHA (3)
A critical study of the books written "between the Testaments," a few of which (the Apocrypha) are sometimes regarded as canonical by some groups, but most of which (the Pseudepigrapha) are not. Special attention will be paid to the role of these books in the development of early Christianity and post-Biblical Judaism.

REL 4244 NEW TESTAMENT I: GOSPELS, ACTS (4)
An exploration of the Gospels and Acts, including 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 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 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 4295 DEAD SEA SCROLLS (4)
PR: Cl. A survey and study of the literature of the Dead Sea Scrolls in English translation. Examination of the literary, historical, and archaeological evidence for the identification of the Qumran people with the Essenes. Possible connections with the New Testament and early Christian theology.

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 4670 JUDAISM AND CHRISTIANITY AFTER THE HOLOCAUST -6A (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. Open to majors and non-majors.

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 persons, 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.

Ancient Studies Sequence

CLA 3000 ANCIENT CIVILIZATIONS (4)
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 (2)
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 4160 EGYPTIAN CIVILIZATION (3)
Study of the Ancient Egyptian civilization, including customs, religion, art and architecture, language and literature, science and the calendar, and an introduction to hieroglyphic writing. (Alternate years.)

CLA 4171 MESOPOTAMIAN CIVILIZATION (3)
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. (Alternate years.)

CLA 4900 DIRECTED READINGS (1-4)
PR: Consent of coordinator prior to registration. Readings in special topics chosen by the student in cooperation with the instructor. Reading of literature also possible in English translation.

CLA 4930 SELECTED TOPICS (1-4)
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).

HEB 3120, 3121 (formerly HEB 3100, 3101)
BASIC HEBREW I, II (4,4)
Designed to give students a working knowledge of Classical (Biblical) Hebrew and to introduce them to the Biblical literature in the original language.

HEB 4250, 4251 ADVANCED HEBREW I, II (4,4)
PR: HEB 3120, HEB 3121, or equivalent. Study and analysis of selected passages from pre-Exilic, Exilic, and post-Exilic Biblical and extra-Biblical Hebrew texts to the second century B.C.E. Survey of the Hebrew literature from its beginning to the end of the Second Commonwealth.

NOTE: In any of the numbers CLA 4900, CLA 4930, enrollment is repeatable for different subject matters.
ACG 2001 FINANCIAL AND MANAGERIAL ACCOUNTING I
Study of basic accounting principles including the recording and reporting of financial activity. The preparation and interpretation of financial statements.

ACG 2011 FINANCIAL AND MANAGERIAL ACCOUNTING II

ACG 3102 INTERMEDIATE ACCOUNTING I
PR: ACG 2011. Measurement theory and methodology underlying income measurement and reporting of financial position. The study of compound interest fundamentals, cash, temporary investment, receivables, inventories, property and equipment, intangibles, and long term investments.

ACG 3112 INTERMEDIATE ACCOUNTING II
PR: ACG 3102. Continuation of theory and principles underlying regression - financial statements: current and long term liabilities, analysis, stockholders’ equity, earnings-per-share, income taxes, pensions, leases, and decision models, accounting changes, inflation, the statement of changes in financial position.

ACG 3301 MANAGERIAL ACCOUNTING
PR: ACG 2011. The study of the uses of accounting data internally by managers in planning and controlling the affairs of organizations, both profit oriented as well as not-for-profit oriented entities. NonAccounting majors only.

ACG 3361 COST ACCOUNTING AND CONTROL I
PR: FIN 3403, GEB 3121. Deals with relevant costs for decision making, standards and job order costing, flexible budgeting direct and absorption costing, regression analysis and decision models.

ACG 3401 ACCOUNTING INFORMATION SYSTEMS

ACG 3930 SELECTED TOPICS IN ACCOUNTING
Course description will vary with the topics included.

ACG 4651 AUDITING
PR: ACG 3112, ACG 3401, and GEB 3121. Principles and procedures of internal and public auditing. The ethics, responsibilities, standards, and reports of professional auditing.

ACG 4901 INDEPENDENT STUDY
PR: Consent of Director. Specialized independent study determined by the students’ needs and interests. May be repeated up to 6 credit hours. (SU only.)

ACG 4911 INDEPENDENT RESEARCH
PR: Consent of Director. 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.

ACG 4931 SELECTED TOPICS IN ACCOUNTING
PR: CI. The course content will depend on student demand and instructor’s interest.

TAX 4001 FEDERAL TAXES I
PR: ACG 2011. An introduction to the federal income tax structure. Use of tax services and the concept of taxable income primarily applicable to individuals.

TAX 5205 ADVANCED ACCOUNTING
PR: ACG 3112. Accounting for business combinations, preparation of consolidated financial statements, home office and branch operations, accounting for international operations and partnership.

ACG 5325 FINANCIAL/MANAGERIAL ACCOUNTING
This course provides students in the M.S. degree in Management with a basic knowledge of financial and managerial accounting in both the public and private sectors. The course concentrates on the uses and limitations of accounting data for planning, control, and other decision making activities.

ACG 5805 NONPROFIT ORGANIZATION ACCOUNTING

ACG 5805 CONTEMPORARY ACCOUNTING THOUGHT
PR: Intermediate Accounting II or equivalent. An in-depth coverage of selected topics in accounting. Emphasis is placed on current significant developments that have taken place in the profession which the student should have for a well-rounded background in accounting but have not been exposed to in previous courses. Available to majors and nonmajors.

ACG 5935 SELECTED TOPICS IN ACCOUNTING
PR: CI. To allow advanced undergraduate students and graduate students to research and study contemporary and emerging topics in the field. May be repeated up to 6 credit hours.

TAX 5015 FEDERAL TAXES II
PR: TAX 4001. Advanced study of the federal income tax structure. Special topics and the concept of taxable income as it applies primarily to business enterprises.

TAX 5405 TAXATION OF TRUST AND ESTATES
PR: TAX 4001 and Admission to the M.Acc Program. A study of income tax problems involving trusts and estates and beneficiaries, including simple and complex trusts, distributable net income, and grantor trusts. The planning and business aspects of trusts and estates are emphasized.

ECONOMICS

ECO 2013 ECONOMIC PRINCIPLES (MACROECONOMICS)
PR: ECO 2023. Introduction to the theory of income determination with emphasis on applications of monetary and fiscal policies. Topics discussed are: objectives of full employment, price stability, economic growth, and balance of payments stability.

ECO 2023 ECONOMIC PRINCIPLES (MICROECONOMICS)
Fundamental economic concept of scarcity, and the problem of choice. How an economy decides what to produce, how to produce and how to distribute goods and services to participants in the economy. Attention is focused on factors affecting consumer wants and on the determination of prices in markets.

ECO 3101 INTERMEDIATE PRICE THEORY (3)
PR: ECO 2023. Analysis of supply and demand as related to product and resource pricing under the various market structures.

ECO 3203 INTERMEDIATE INCOME & MONETARY ANALYSIS (3)
PR: ECO 2013 and ECO 3101. Analysis of the determination of income, employment, prices, and interest rates. Emphasis is placed on the interaction of aggregate demand and aggregate supply.

ECO 3622 AMERICAN ECONOMIC HISTORY (3)
PR: ECO’2023. The growth and evolution of American economic institutions from Colonial times to the present.

ECO 3703 INTERNATIONAL ECONOMICS (3)

ECO 4213 MONETARY THEORY (3)
PR: ECO 3203. Examination of the impact of the financial sector on real and nominal economic magnitudes. The course approaches its subject matter through the theory of portfolio and capital adjustments.

ECO 4303 HISTORY OF ECONOMIC THOUGHT (3)
PR: ECO 3101, or CI. The development of economic schools of thought, from Plato to Marshall, are traced and analyzed. The impact of historical and political conditions will be stressed.

ECO 4323 MARXIST POLITICAL ECONOMY (3)
PR: ECO 2013, or CI. An examination of the Marxist school of thought in economics. Application of Marxist economic theory to problems of advanced capitalist and socialist societies.

ECO 4401 INTRODUCTION TO MATHEMATICAL ECONOMICS (3)
PR: ECO 2013, and GEB 3121, MAC 2233 or CI. Economic processes expressed as equations and economic systems as mathematical models. Investigation of static and dynamic properties by mathematical analysis and computer simulation.

ECO 4504 PUBLIC FINANCE (3)

ECO 4713 INTERNATIONAL MONETARY RELATIONS (3)

ECO 4723 INTERNATIONAL COMMERICAL POLICIES (3)
PR: ECO 3101. Advanced analysis of international trade theory and commercial policy, international economic integration, and multinational enterprise.

ECO 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. (S/U 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 6 hours.

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

ECO 5407 ECONOMIC PROGRAMMING AND CONTROL (3)

ECO 5424 ECONOMETRICS I (3)
PR: ECO 3203 or GEB 6717 and GEB 3121 or GEB 6756, or CI. Theory and use of multiple regression to estimate relationships in causal models, to analyze economic behavior and to forecast the outcome of economic disturbances. Use of standard software packages. Estimation and interpretation of regression equations.

ECO 5425 ECONOMETRICS II (3)
PR: ECO 5424. Advanced econometric techniques; model building, estimation and forecasting; design and execution of individual research projects.

ECP 3203 LABOR ECONOMICS (3)
PR: ECO 3101 or CI. History of the trade union movement; economic analysis of trade union philosophies and practices; examination of basic influences affecting labor force, real wages, and employment; collective bargaining and labor law.

ECP 3413 BUSINESS-GOVERNMENT RELATIONSHIPS (3)
PR: ECO 2023. Analysis of the three public policy approaches: competitive, regulatory, and ownership; in terms of ability to bring about economically desirable price-cost relationships, reductions in cost, invention and innovation and an optimal allocation of resources.

ECP 3613 ECONOMICS OF THE URBAN ENVIRONMENT (3)
PR: ECO 2013 and ECO 2023. Economic analysis of the phenomena of cities as well as urban social problems including poverty, discrimination, housing, transportation, pollution, crime and fiscal considerations.

ECP 4232 COLLECTIVE BARGAINING AND PUBLIC POLICY (3)
PR: ECO 2023 or CI. Administration of labor management agreements, etc. Impact of the government role in collective bargaining and labor relations will be examined in light of current labor laws and judicial interpretations.

ECP 5405 INDUSTRIAL ORGANIZATION (3)
PR: ECO 3101 or GEB 6716. The economics of industrial organization. The study of the behavior of firms and the implications of such behavior on economic performance. The relationship between structure of industry and performance.

ECP 5406 SEMINAR IN INDUSTRIAL ORGANIZATION (3)
PR: ECP 5405. Contemporary industrial organization problems will be discussed in a seminar format.

ECP 5614 URBAN ECONOMICS (3)
PR: ECO 3101 or GEB 6716. The economics of urban areas including analysis of their growth and development as well as intra-urban location patterns. Advanced economic analysis of urban problems.

ECP 5624 REGIONAL ECONOMICS (3)
PR: ECO 3101 or GEB 6716. Economics analysis of the geographical allocation of scarce resources within and among regions. Topics discussed are: location of households and firms, interregional migration of labor and capital, regional growth and development, methods of regional analysis, and regional policy.

ECS 3013 ECONOMIC DEVELOPMENT (3)
PR: ECO 2013 or CI. Problems, policies, and dynamics of economic development in emerging nations. Benefits and relevance
of theories of economic development are examined within the con­
text of the social and political milieu of today's underdeveloped
areas.

ECS 4003 COMPARATIVE ECONOMIC SYSTEMS (3)
PR: ECO 2013 or CI. Analysis of the major types of economic sys­
tems: traditional, capitalism, democratic socialism, communism and
fascism. The methodology of Max Weber will be stressed.

GEB 2111 BUSINESS AND ECONOMIC
STATISTICS I -6A (3)
PR: MAC 2233. Description of sample data; calculation of prob­
abilities, frequency functions of random variables; the binomial and
normal distributions; sampling theory and estimation; test of hypo­
theses; elements of Bayesian decision theory.

GEB 3121 BUSINESS AND ECONOMIC
FIN 3233 (3)
Point and interval estimation; criteria for choosing estimators and
decision rules; hypotheses tests; analysis of variance, correlation
and regression.

FINANCE
Chairperson: P. Kares; Lykes Professor of Banking & Finance: J. L.
Pappas; University Distinguished Service Professor and Serge
Bonanni. Distinguished Professor of International Finance: A.
Beenhakker; Professors: S. E. Bolten, R. G. Cox, R. L. Meyer, F. B.
Power, A. Schwartz, G. Trivoli; Associate Professors: S. B. Bulmash,
Wicand; Assistant Professors: S. Besley, W. G. Modrow; Di­
istinguished Lecturers: C. Arlt, R. B. Brown; W. E. Nodine;

FIN 2100 PERSONAL FINANCE (3)
Survey of the problems and techniques of personal financial plan­
ing. 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 Administration.

FIN 2105 INTRODUCTION TO INVESTMENTS (3)
Emphasizes the operations of the security markets in the U.S. and
the risks and returns of alternative investment media. Designed for
non-business administration students. Not available for credit to
upper level students who have been admitted to the College of
Business Administration.

FIN 3233 MONEY AND BANKING (3)
PR: ECO 2013. Examines the structure and operations of our
monetary system, commercial banking, central banking, money,
and capital markets, and provides an introduction to monetary
theory and policy.

FIN 3403 PRINCIPLES OF FINANCE (3)
PR: AC 2011 and ECO 2023. Study of the processes, decisions
structures, and institutional arrangements concerned with the use
and acquisition of funds by a firm. Includes the management of the
asset and liability structure of the firm under certain and risky
situations. The financial decision process will include and recognize
the international as well as domestic aspects of financial management.

FIN 3604 INTERNATIONAL FINANCE (3)
PR: ECO 2013 or CI. Study of factors affecting international busi­
ness, assessment of risks, international managerial finance; institu­
tions and instruments of international business finance.

FIN 4303 FINANCIAL INSTITUTIONS (3)
PR: FIN 3233. A study of financial institutions and their roles in
the capital market includes the savings allocation, investment, and
financial decision making processes.

FIN 4414 ADVANCED CORPORATION FINANCE (3)
PR: FIN 3403. An examination of the financial policies of corpora­
tions, with special reference to dividend policy, financial structure,
capital expenditures, acquisitions, mergers, and reorganization.

FIN 4443 FINANCIAL POLICIES AND
STRATEGIES (3)
PR: FIN 4414. A senior seminar for majors in Finance. Primarily a
case course examining financial policies and the application of
financial analysis to alternative strategies.

FIN 4504 PRINCIPLES OF INVESTMENTS (3)
PR: ECO 2013 and FIN 3403. Survey of the risks and returns of in­
vestment media in relation to the investment objectives of in­
dividual and institutional investors. Includes an examination of the
capital markets, information flows, and analytical techniques in
terms of their impact upon the valuation process.

FIN 4524 ADVANCED INVESTMENT
ANALYSIS AND MANAGEMENT (3)
PR: FIN 4504. A comprehensive survey of security analysis and
portfolio management. The course will utilize a quantitative ap­
proach to investment selection and management.

FIN 4834 FEDERAL RESERVE SYSTEM AND
MONETARY POLICY (3)
PR: FIN 3233 or CI. An analysis of the Federal Reserve System,
with special emphasis on monetary theory and the formulation and
administration of monetary policy.

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. (S/U
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 6 hours.

FIN 4934 SELECTED TOPICS IN FINANCE (1-3)
PR: CI. Topics to be selected by instructor and department chairper­
son on pertinent Finance issues.

REE 3043 PRINCIPLES OF REAL ESTATE (3)
Economics of urban land utilization and the nature of property
rights. Problems of urban development and the valuation of real
property in terms of the structure and operations of the real estate
market.

REE 4103 REAL ESTATE APPRAISAL (3)
PR: REE 3043. Comprehensive coverage of the basic concepts and
principles of real estate appraisal. Emphasis placed on the use
of valuation tools for the appraisal of real estate with emphasis on
residential property.

REE 4204 REAL ESTATE FINANCE (3)
PR: REE 3043. A comprehensive analysis of the institutional and
legal framework of real estate financing together with an introduc­
tion to the financing techniques which are traditionally utilized to
finance real estate. Includes methods of raising debt and equity
funds. Analysis of real property for financing purposes is stressed in
a decision-making context and how that decision affects the real es­
tate investment.

REE 4303 REAL ESTATE INVESTMENT ANALYSIS (3)
PR: FIN 4303, REE 3043. A comprehensive study of the deter­
mnants of the market and financial feasibility of the real estate in­
vestment decision. The development of market and site analyses,
theories or urban development patterns, and the role of taxation will
be studied along with the application of analytical techniques for
decision making. The course is not restricted to Finance majors.

RMI 3011 PRINCIPLES OF INSURANCE (3)
Analysis of insurable risks of both business and individuals. An ex­
amination of the characteristics of those areas of risk and uncer­
tainty where the mechanisms of insurance are effective alternatives.
The concept, contracts, and institutions involved in insurance are examined in relationship to the socio-economic environment.

**RMI 4115 LIFE, HEALTH, AND DISABILITY INSURANCE**  
PR: GEB 3121, 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 also include an analysis of cost determination of the various types of coverage.

**RMI 4113 CASUALTY INSURANCE**  
PR: RMI 3011. Course dealing with recognition of 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 workmen's compensation, public liability, auto liability, suretyship and crime insurance. Not limited to Finance majors.

**RMI 4210 PROPERTY INSURANCE**  
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 coversages, and multiperil contracts. Not limited to Finance majors.

**GENERAL BUSINESS ADMINISTRATION**

**BUL 2111 LAW AND THE INDIVIDUAL**  
PR: BUL 3112. A study of the nature, functions, sources, formulation, and administration of law with the special emphasis on the practical aspects of criminal, tort, estate, divorce, property, business, constitutional, and other areas of law. Not available for credit to students who have been admitted to the College of Business. (No credit for students with credit in BUL 3112.)

**BUL 3112 BUSINESS LAW I**  
The nature of legal institutions, essentials of binding contract, remedies granted in event of breach of contract, and rights acquired by assignment of contracts.

**BUL 3112 BUSINESS LAW II**  
PR: BUL 3112. Legal problems in marketing of goods, nature of property, sales of personal property, securing of credit granted, nature and use of negotiable instruments.

**BUL 3659 THE LAW OF BUSINESS ASSOCIATIONS**  
PR: BUL 3112. A study of the law of corporations, the law of partnerships, and the law of agency.

**BUL 5665 LAW AND THE ACCOUNTANT**  
PR: BUL 3112 or Cl. A comprehensive study of commercial law as it affects the practice of accounting.

**GEB 3211 BUSINESS COMMUNICATIONS -6A**  
Analysis and application of the principles of organizational behavior in letters, memorandums, and reports. Course is structured around a model which manifests the effective communications process.

**GEB 4511 BUSINESS POLICY**  
PR: Senior standing. 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 4901 INDEPENDENT STUDY**  
(1-3)  
PR: Cl. Specialized independent study determined by the student's needs and interests. May be repeated up to eight credit hours. (S/U only).

**GEB 4911 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.

**GEB 4935 SELECTED TOPICS IN BUSINESS ADMINISTRATION**  
(1-4)  
The content and organization of this course will vary according to the current interests of the faculty and needs of students.

**MAN 5925 CBA WORKSHOP**  
(1-4)  
Professional application workshop in various areas of finance, marketing, economics, accounting, management. May be repeated when subjects differ.

**INFORMATION SYSTEMS AND DECISION SCIENCES**

**Chairperson:** J. S. Hodgson; **Professors:** S. J. Birkin, J. S. Hodgson; **Associate Professors:** H. C. Allen, R. A. Boggs, M. E. Cohen, T. E. Johnson, Jr., J. M. Pipkin, M. J. White; **Assistant Professors:** J. E. Blanton, T. C. Harrington, R. R. McGrath, Jr., R. J. Minifie; **Instructors:** S. Moore, H. W. Stirling; **Lecturer:** K. P. Temte.

**CGS 2000 COMPUTERS IN BUSINESS -6A**  
(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.

**GEB 2111 BUSINESS AND ECONOMIC STATISTICS I -6A**  
(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.

**GEB 3121 BUSINESS AND ECONOMIC STATISTICS II**  
(3)  
PR: MAC 2233, GEB 2111. Theory and use of statistical inference. Point and interval estimations; criteria for choosing estimators and decision rules; hypotheses tests; analysis of variance, correlation and regression.

**ISM 3011 MANAGEMENT INFORMATION SYSTEMS**  
(3)  
PR: CGS 2000; ACG 2201; ACG 3011 or equivalent. The study of information management, management information requirements and information systems in modern organizations.

**ISM 3111 SYSTEMS ANALYSIS**  
(3)  
PR: COP 3120. Overview of the system development life cycle. Emphasis on current system documentation through the use of both classical and structured tools/techniques for describing process flows, data flows, data structures, and file designs. Discussion of the information gathering and reporting activities and of the transition from analysis to design.

**ISM 3112 SYSTEMS DESIGN**  
(3)  
PR: ISM 3111; COP 3120 or equivalent. Advanced study of structured systems design. Emphasis on strategies and techniques of structured analysis and structured design for producing logical methodologies for dealing with complexity in the development of information systems.

**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 3111, ISM 3112. Principles of database administration, database organization and models. Disaster planning for database files.

**ISM 4220 DISTRIBUTED INFORMATION SYSTEMS**  
(3)  
PR: ISM 3111, ISM 3112. Analysis, design, implementation and management of distributed information systems and networks.
ISM 4290 SENIOR SEMINAR
IN INFORMATION SYSTEMS (3)
PR: ISM 3111, ISM 3112, ISM 4300. A seminar covering advanced topics in system analysis and design. Applications of these procedures to actual or hypothetical cases.

ISM 4300 MANAGING THE
INFORMATION SYSTEM FUNCTION (3)
PR: ISM 3111, MAN 3025; or equivalent. An advanced study of information system management including system planning, project selection and management, and organizational information management policies.

ISM 4320 INFORMATION SYSTEMS
CONTROLS (3)
PR: ISM 3111 or equivalent. MIS Major or CI. A study of information systems control and its application in system design and system management.

ISM 4400 DECISION SUPPORT SYSTEMS
APPLICATIONS-COMPUTER ASSISTED DECISION MAKING (3)
PR: FIN 3403, GEB 3121. Study of the principles of decision making of the human/computer alliance. Hands-on computer-assisted decision making for an organizational environment. Case studies and/or management games using micro-computers.

MAN 4504 OPERATIONS MANAGEMENT:
A SYSTEMS APPROACH (3)
PR: ISM 3431 or equivalent. Deals with problems of “operations” in all kinds 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.

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 (1-9)
Selected topics in MIS.

ISM 4950 INDEPENDENT RESEARCH (1-8)
PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor.

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 is an organizational setting. Emphasis is on quantitative 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 2932 SELECTED TOPICS IN MANAGEMENT (1-4)
PR: CI. 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 Administration. May be repeated up to 8 credit hours.

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 PERSONNEL 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 4129 THEORY AND PRACTICE OF MANAGEMENT SKILLS (3)
PR: MAN 3240. This course involves the transference of management theories into practice. It requires the active involvement of students in developing and practicing the skills needed to be a successful manager.

MAN 4280 ORGANIZATIONAL DEVELOPMENT AND CHANGE (3)
PR: MAN 3240 or CI. This course should be taken simultaneously with or after MAN 4201. 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 legislation.

MAN 4430 SEMINAR IN NEGOTIATIONS AND ADMINISTRATION OF LABOR AGREEMENTS (3)
Case studies in contract negotiation, administration, grievance settlement, and arbitration. Assumes familiarity with industrial relations system.

MAN 4802 ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT (3)
MARKETING 171

PR: ACC 2001, ACC 2021, MAR 3023, or CI. Study of the factors involved in starting and managing a small- to medium-sized business. Emphasis on conduct of pre-business feasibility study, start-up of business, successful management of the firm, and options for succession or termination.

MAN 4804 SMALL BUSINESS MANAGEMENT COUNSELING (3)
PR: MAN 4802 or CI. Field application in small business settings by (a) analyzing an on-going small business and developing recommendations for making improvements; or (b) conducting a feasibility study for a new enterprise and developing a strategy for implementation if favorable.

MAN 4905 INDEPENDENT STUDY (1-3)
PR: CI. 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: CI. Topics to be selected by instructor and department chairperson for pertinent Management issues.

MAN 4931 INDEPENDENT RESEARCH (1-4)
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.

MAN 5714 URBAN MANAGEMENT (3)
The applicability of business management theories and practices to problem solving in the public sector. A formal theory of organization is used to compare and contrast private and public sector decision environments.

MAN 5806 ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT COUNSELING (1-3)
Small business management consulting in an on-going firm. Field application of various aspects of business administration in analyzing strengths and weaknesses, development of recommendations for improvement, and initiation of steps to assist business principals in evaluation and implementation. Emphasis on developing management consulting skills and recognizing implications of small business owner-manager's capabilities and attitudes for success in implementing recommendations.

MARKETING

MAR 2931 SELECTED TOPICS IN MARKETING (1-4)
PR: CI. 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 Administration. May be repeated up to 8 credit hours.

MAR 3023 BASIC MARKETING (3)
PR: ACG 2001, ECO 2013, ECO 2023, or CI. Survey of the marketing of goods and services within the economy. The integration of functional, commodity, and institutional approaches from the consumer and managerial viewpoints.

MAR 3103 PROFESSIONAL SELLING (3)
PR: MAR 3023 or CI. A study of the stages of the professional selling process, and the role of sales in today's marketing environment. Emphasis on learning adaptive selling techniques and developing effective interpersonal communications skills. Sales careers are examined.

MAR 3613 MARKETING RESEARCH (3)
PR: GEB 3121, 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. This course 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 the 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 CI. A study of logistics in the marketing of goods and services. Includes a description and analysis of the logistics environment as well as components of the physical distribution system with emphasis on information flows and the application of quantitative techniques used in establishing and controlling customer service levels.

MAR 4231 RETAILING MANAGEMENT (3)
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 CI. A study of the role of promotion in the marketing program of the firm, including the promotional tools available to the marketing manager and the various types of decisions made in the promotional area. The decision making process in development of a promotional program is emphasized.

MAR 4403 SALES MANAGEMENT (3)
PR: MAR 3023 or CI. 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 INDUSTRIAL 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: MAR 3823, MAR 3613 and two other 4000 level marketing courses or CI. 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>MAR 4903</td>
<td>INDEPENDENT RESEARCH</td>
<td>(1-3)</td>
<td>CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 6 credit hours.</td>
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<td>MAR 4905</td>
<td>INDEPENDENT STUDY</td>
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<td>SELECTED TOPICS IN MARKETING</td>
<td>(1-3)</td>
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COLLEGE OF EDUCATION

ADULT AND VOCATIONAL EDUCATION


CHILDHOOD/LANGUAGE ARTS/READING EDUCATION


CURRICULUM AND INSTRUCTION


COUNSELOR EDUCATION

Chairperson: V. J. Drapela; Professors: W. K. Bott, V. J. Drapela, D. G. Ferguson, E. E. Panther; Associate Professor: C. M. Story; Assistant Professor: D. J. Anderson.

EDUCATIONAL LEADERSHIP


EDUCATIONAL MEASUREMENT AND RESEARCH


INSTRUCTIONAL COMPUTING

Chairperson: J. L. Mazur; Professors: C. W. Engel, J. L. Mazur, A. Troutman; Associate Professors: F. D. Breit, G. W. Tubb.

MUSIC EDUCATION

Chairperson: J. J. Heller; Professors: V. A. Bridges, J. J. Heller; Associate Professor: C. P. Doane; Assistant Professor: J. W. Richmond; Adjunct Instructors: M. Griffin, M. Tester.

PHYSICAL EDUCATION


PSYCHOLOGICAL AND SOCIAL FOUNDATIONS


SCHOOL OF LIBRARY AND INFORMATION SCIENCE


SPECIAL EDUCATION


ADULT EDUCATION

ADE 4360 METHODS OF TEACHING:
ADULT EDUCATION (3)
Methods, techniques, and materials for instruction.

ADE 4384 WORKING WITH THE ADULT LEARNER:
ADULT EDUCATION (3)
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.

ADE 5160 PROGRAM MANAGEMENT:
ADULT EDUCATION (4)
This course examines the establishment of organizational climate and structure, assessing needs and interest, designing, operating and evaluating comprehensive adult programs.

ADE 5161 CURRICULUM CONSTRUCTION:
ADULT EDUCATION (4)
Curriculum scope, the process of planning and organizing instructional programs with emphasis on task analysis and program evaluation.

ART EDUCATION

ARE 3044 EXPERIENTIAL BASIS OF ARTISTIC MIND
ART EDUCATION (3)
PR: Admission to College of Education. Designed to help the individual student discover and develop meanings and values in art and education with emphasis on communicative skills, both verbal and visual. Focus will be on the individual and potential alternatives in the teaching of art.
ARE 3354 ART TEACHING STRATEGIES I (3)
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 (3)
An in-depth study of arts and craft media for children. Emphasis will be placed on innovative use of new materials.

ARE 4260 SEMINAR IN ART EDUCATION
CLASSROOM MANAGEMENT (1)
PR: Admission to College of Education and ARE 3044. The concepts and areas of skill essential to successful practice in art education management. To include understanding of how art programs are funded, art facility planning, art curriculum development, art exhibition techniques, public relations promotion and supply and equipment requirements.

ARE 4440 ART TEACHING STRATEGIES II (3)
Media and the learning process will be explored through photographic arts, cinemagraphy and video systems. Teaching strategies and media criticism for application at elementary and secondary levels.

ARE 4443 CRAFTS WORKSHOP IN ART EDUCATION (3)
PR: Admission to College of Education and ARE 3044. The study of processes and media involved in the expression of individual ideas through crafts. Emphasis placed on crafts in a contemporary society with skills in metals, weaving, fibers, and ceramics and their application in a public school curriculum.

ARE 4642 URBAN ENVIRONMENT ARTS WORKSHOP (3)
PR: Admission to College of Education and ARE 3044. Identification, exploration, and experimentation with unique urban spaces and populations as potential new environments for teaching and learning in arts.

ARE 4905 INDEPENDENT STUDY: ART 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.)

ARE 4909 DIRECTED STUDY: ART EDUCATION (1-3)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

ARE 4936 SENIOR SEMINAR IN ART EDUCATION (2)

ARE 4940 INTERNSHIP: ART EDUCATION (1-12)
One full semester of internship in a public or private school. Intern takes Senior Seminar in Education concurrently. 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.)

EDG 4320 INTRODUCTION TO CREATIVE DRAMA (3)
A study of the dramatic process as intrinsic in human development, this course is designed to enrich the education of pre-service teachers by providing training in the use of creative drama and related forms of improvised drama in the classroom.

THE 4722 (formerly EDG 4452) THEATRE FOR PRE-SECONDARY SCHOOLS: THE PRODUCTION PROCESS (3)
The play production process as it applies to theatre artist-in-schools 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 touring methods. May be repeated for elective credit two times; once for major credit.

THE 4723 (formerly EDG 4453) 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 (formerly EDG 4454) 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.

BUSINESS AND OFFICE EDUCATION

BTE 4360 METHODS OF TEACHING: BUSINESS EDUCATION (4)
PR: Successful completion of BE competencies, or CI. Methods, techniques and materials for instruction.

BTE 4364 SPECIAL TEACHING METHODS: BUSINESS EDUCATION (4)
PR: Successful completion of BE competencies, or CI. Methods, techniques, and materials for skill development.

BTE 4905 INDEPENDENT STUDY: BUSINESS 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.)

BTE 4909 DIRECTED STUDY: BUSINESS EDUCATION (1-3)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

BTE 4936 SENIOR SEMINAR IN BUSINESS AND OFFICE EDUCATION (2)

BTE 4940 INTERNSHIP: BUSINESS EDUCATION (1-12)
One full semester of internship in a public or private school. Intern takes Senior Seminar in Business Education concurrently. 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.)

BTE 4948 FIELD-BASED SEMINAR IN BUSINESS EDUCATION (3)
Supervised field experience and orientation to broad field business education. Specifically designed to be preparatory for the internship. (S/U only.)

BTE 5171 CURRICULUM CONSTRUCTION: BUSINESS EDUCATION (3)
Curriculum scope, the process of planning and organizing instructional programs with emphasis in task analysis and process evaluation.

BTE 5245 PROGRAM MANAGEMENT: BUSINESS EDUCATION (3)
Organization, coordination, and budgeting of adult, cooperative, and special programs.

OST 2100 (formerly BTE 2060) BASIC TYPEWRITING (3)
Basic keyboarding introduced during the first two weeks. Thereafter, basic keyboarding applications are emphasized. Students with keyboarding skills of 40 wpm should be enrolled in OST 3110.