specific requirements
A minimum of 120 credit hours including the following:
- General Education: 36 credit hours
- Professional Education Core: 32-49 credit hours
- Teaching Specialization: 27-49 credit hours
- Litera Arts Exit Requirements: 9 credit hours
Program requirements: Check individual program descriptions for requirements beyond the college minimum.

normally, the college will recommend the granting of a Bachelor of Science (BS) degree. To obtain a Bachelor of Arts (BA) degree, the student must meet the Foreign Language Competency (graduation requirements in front of catalog). As part of the 120 credit hours minimum requirement for graduation, students may include elective courses. The courses should be selected in consultation with a faculty advisor. The College of Education permits students to count, as part of the 120-hour requirements, courses in Elective Physical Education and up to 9 hours of USF Army or Air Force ROTC credits.

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

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

The SCATT Honors Course Sequence includes: early field experiences in the schools with SCATT supervising teachers, intensive study in current teaching strategies, exposure to top role models in the field of education, and a support network created to increase options for maximum success. Students who are selected to participate in the SCATT Course Sequence automatically become members of the existing SCATT Honors Program. To receive SCATT Honors course status, the entire three course sequence is required.

To be selected for the SCATT Honors Course Sequence, students must apply. The SCATT Program eligibility requirements have three semesters remaining prior to their final internship, and participate in an individual interview.

Eligibility Requirements for SCATT
Students who have been admitted to the USF College of Education and who have achieved a minimum score of 21 or 22 (depending on the date of the exam) on the American College Test (ACT) or 1000 or above on the Scholastic Aptitude Test (SAT) are eligible. A student is also eligible for membership in SCATT if the student enters the College of Education with a 3.5 or above overall grade point average. Other entrance requirements for participation are available. An interview/orientation must be arranged before being admitted to the SCATT Program. This can be arranged by contacting the SCATT program at (813) 974-2061.

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

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

<table>
<thead>
<tr>
<th>Program</th>
<th>Department</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art Education</td>
<td>Secondary Education</td>
<td>ARE</td>
</tr>
<tr>
<td>Behavior Disorders</td>
<td>Special Education</td>
<td>EED</td>
</tr>
<tr>
<td>Business and Office Education</td>
<td>Adult &amp; Vocational Education</td>
<td>BTE</td>
</tr>
<tr>
<td>Distributive and Marketing Education</td>
<td>Education</td>
<td>DEC</td>
</tr>
<tr>
<td>Early Childhood Education</td>
<td>Early</td>
<td>EEC</td>
</tr>
<tr>
<td>Education</td>
<td>Childhood</td>
<td>EDE</td>
</tr>
<tr>
<td>Elementary Education</td>
<td>Childhood/Language Arts/Reading</td>
<td>EFT</td>
</tr>
<tr>
<td>English Education</td>
<td>Secondary Education</td>
<td>ENE</td>
</tr>
<tr>
<td>Foreign Language Education</td>
<td>Secondary Education</td>
<td>FLS</td>
</tr>
<tr>
<td>Education</td>
<td>Adult &amp; Vocational Education</td>
<td>EVT</td>
</tr>
<tr>
<td>Industrial-Technical Education</td>
<td>Secondary Education</td>
<td>FEA</td>
</tr>
<tr>
<td>Mathematics Education (MAE)</td>
<td>Secondary Education</td>
<td>FEM</td>
</tr>
<tr>
<td>Mental Retardation Education</td>
<td>Special Education</td>
<td>EMR</td>
</tr>
<tr>
<td>Music Education</td>
<td>Music Education</td>
<td>MEI</td>
</tr>
<tr>
<td>Instrumental</td>
<td>Music Education</td>
<td>MEV</td>
</tr>
<tr>
<td>Vocal</td>
<td>Music Education</td>
<td>MEG</td>
</tr>
<tr>
<td>General Physical Education</td>
<td>Professional Physical Education</td>
<td>PTE</td>
</tr>
<tr>
<td>K-8</td>
<td></td>
<td>PTS</td>
</tr>
<tr>
<td>6-12 Leadership</td>
<td></td>
<td>PTV</td>
</tr>
<tr>
<td>Science Education</td>
<td>Secondary Education</td>
<td>NSB</td>
</tr>
<tr>
<td>Biology</td>
<td>Chemistry</td>
<td>NSC</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Physics</td>
<td>NSP</td>
</tr>
<tr>
<td>Physics</td>
<td>Social Science Education</td>
<td>SSE</td>
</tr>
<tr>
<td>Social Science Education</td>
<td>Secondary Education</td>
<td>EEL</td>
</tr>
<tr>
<td>Specific Learning Disabilities Education</td>
<td>Special Education</td>
<td>ELD</td>
</tr>
<tr>
<td>Area 1 English Composition: ENC 1101 and ENC 1102</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area 2 Quantitative Methods: A minimum of six hours. MAC 2012/MGF 2202 or more advanced courses offered by the Mathematics Department. Logic, Statistics and selected Engineering computer courses are acceptable for three hours of the requirement.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area 3 Natural Science: A minimum of six hours of courses offered by the Departments of Astronomy, Biology, Chemistry, Geology, and Physics.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

1. General Education Requirements (36 credit hours)
   The seven areas of General Education and the specific requirements are as follows:
   - Area 1 English Composition: ENC 1101 and ENC 1102
   - Area 2 Quantitative Methods: A minimum of six hours. MAC 2012/MGF 2202 or more advanced courses offered by the Mathematics Department. Logic, Statistics and selected Engineering computer courses are acceptable for three hours of the requirement.
   - Area 3 Natural Science: A minimum of six hours of courses offered by the Departments of Astronomy, Biology, Chemistry, Geology, and Physics.
Area 4 Social Sciences:
A. For EDE and EEC majors, two American History courses, or one American History and one American National Government course.
B. For all other programs: A minimum six hours of any of the courses taught in Social and Behavioral Sciences.

Area 5 Historical Perspectives:
At least six hours in Western Civilization courses.

Area 6 Fine Arts:
A minimum of three hours from Art, Music, Theater, and Dance (these do not include courses in performance.)

Area 7 African, Latin American, Middle Eastern or Asian Perspectives:
A minimum of three hours in Non-Western Civilizations.

Courses required for a student's major program will not be counted in the total 36 hours although areas of general distribution requirements may be waived where appropriate. Students may not elect to take any of the above S/U.

2. Professional Education Core (36-45 credit hours)

   The required courses in the professional education core are as follows:

   EDF 3122 Learning and the Developing Child (4)
   EDF 3214 Human Development and Learning (3)
   EDF 3604 Social Foundations of Education or (3)
   EDF 3542 Philosophy of Education (4)
   EDG 4620 Curriculum and Instruction (3)
   EDF 4430 Measurement for Teachers (3)
   *EME 4402 Intr. to Computers in Ed (2)
   **EEX 4070 Exceptional Student Ed (2)
   Methods Course(s) (4-9)
   Internship and Seminar (12)***
   **** Reading Requirement (2-3)

*Not required in Music Education.
**Not required in Special Education.
***Elementary, Physical Education, Early Childhood and Special Education internships (or practicums) are 18-23 semester hours.
****Not required in Music, Foreign Language Education, or Physical Education. Reading is in the specialization for EDE, EEC, and Special Education programs.

3. Teaching Specialization Preparation (27-49 credit hours)

   Course requirements in the area of teaching specialization vary according to field of specialization. These specialization requirements are listed with the programs that follow in the departmental section.

4. Liberal Arts - Major works and Major Issues:
   a. Six hours from the list of approved courses dealing with Major Works and Major Issues.*
   b. Three hours of Literature and Writing from the list of approved courses.*
   * See advisor for approved courses.
   Three of these nine hours may be taken S/U.

DEPARTMENTS AND PROGRAMS

The College of Education is organized into 11 departments. Each department has one or more programs which are listed alphabetically in the following departmental section.

Department of Adult and Vocational Education

The Adult and Vocational Education Department at the University of South Florida offers degrees through the College of Education designed to prepare teachers and leaders in the various fields of Vocational and Adult Education. Certification programs leading to the Bachelor of Science (B.S.) degree are: Business and Office Education, Distributive and Marketing Education, Industrial-Technical Education, and Technology Education.

■ BUSINESS AND OFFICE EDUCATION

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

- General Distribution and Professional Education requirements are listed under Teacher Education Program.
- In Business Education, specific program competencies in the specialization must be demonstrated through satisfactory completion of BTE 4909. Special prerequisites are required for BTE 4364, which are taken concurrently in the semester immediately prior to the supervised internship as approved by an advisor.

Specialization Requirements (43 cr. hrs.):

- Accounting (2 courses)
- Economics (2 courses)
- Business Communications
- Principles of Management
- Office Occupations Procedures
- Electives (6 hours approved by advisor)

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

■ DISTRIBUTIVE AND MARKETING EDUCATION

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

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

Specialization (42 credit hours):

- ACG 2001
- DEC 4941
- ECO 2013
- MAR 3023
- DEC 4161
- ECO 2023
- MAR 4403
- MAR 3823

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

Specialization (51 credit hours):

- EVT 4210
- EVT 4201
- EVT 4265
- EVT 4562
- EVT 4364
- EVT 4365

Specialization (49 credit hours):

- EVT 4562
- EVT 4364
- EVT 4365

Specialization (46 credit hours):

- EVT 4562
- EVT 4364
- EVT 4365

*Another course may be substituted with advisor’s approval.

■ INDUSTRIAL-TECHNICAL EDUCATION

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

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

INDUSTRIAL-TECHNICAL EDUCATION TRACK:

- Enrollment in the Industrial-Technical Education program is restricted to persons with employment experiences qualifying them to teach Industrial, Technical, Health Occupations, or Public Service.
- Special provision is made for students to satisfy four (4) of the required six (5) years of work experience in a specific occupation by completing an Associate in Science degree program in a technologi­cal specialty or successfully completing an appropriate occupational competency exam.
- Acceptability of work experience will be determined by the program advisor.
- Students may validate up to 30 semester hours of credit through the Occupational Competency Testing Program, or appropriate license or certificate.
- Required: 38 semester hours.

EDT 4065
EDT 4165
*EIV 4210
EVT 4430
EVT 4367
EVT 4265
EVT 4562
EVT 4946
EVT 4084

*Another course may be substituted with advisor's approval.
TECHNOLOGY EDUCATION TRACK:

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

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

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

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

Technology Education students must complete the General Distribution Requirements of 40 semester hours, the Professional Education Core Requirements of 40-41 semester hours, the Technical Course Requirements of 30 semester hours, and 12 semester hours in Adult and Vocational Education. The requirements in Adult and Vocational Education are as follows:

- **Required:** 23 semester hours including:
  - EVT 4065
  - EIV 4210
  - EVT 4165
  - EIA 3192
  - EVT 4360
  - EVT 4365
- Plus electives selected with advisor approval.

Department of Childhood/Language Arts/Reading Education

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

Prerequisites for admission to these programs include two American History courses, one American History course, and one American National Government course. One of these must be AMH 2010 or 2020 or the equivalent. These courses may be taken as part of the general distribution requirement.

Early Childhood Certification Program

Student may complete a (pilot) program to be eligible for certification in Early Childhood Education (Pre-K through Primary Grade). Degree and certification requirements are subject to change. The current program of studies includes both coursework and extensive field experiences in early childhood settings to enable students to integrate theory with teaching practice. Upon successful completion of the required courses and the associated internships, Early Childhood majors will be eligible to apply for certification in Pre-K through primary grade. Since the pilot program is under review by the State Department of Education, please contact the Department of Childhood/Language Arts/Reading Education for sequence and course listing.

Elementary Education Certification Program

Students may complete a state-approved program to be eligible for certification in Elementary Education. Degree and certification requirements are subject to change. The current program of studies includes both coursework and extensive field experience in elementary school settings to enable students to integrate theory with teaching practice. Upon successful completion of the required courses and the associated internships, Elementary majors will be eligible to apply for certification in grades one through six.

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

Elementary and Early Childhood majors are required to complete a concentration of 15 hours in one of the following areas: English, Mathematics, Science, Social Science, Foreign Language, Fine Arts.

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

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

■ **ELEMENTARY EDUCATION**

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

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

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

- EDE 4301

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

- ARE 4313
- LAE 4414
- MUE 4210
- RED 4310
- HLP 4722
- MAE 4310
- SCE 4310
- RED 4511
- LAE 4314
- MAE 4326
- SSE 4313

Students are advised that the Elementary Education specialization will require an enrollment of more than the traditional four semesters of the junior and senior years in order to complete the program specialization courses and the required sequence of internship. (Note: The Elementary program is under review which will result in course changes during the 1993-94 academic year.)

■ **EARLY CHILDHOOD EDUCATION**

The Early Childhood program is under review by the Department of Education which may result in course changes after students are admitted. Contact the Department of Childhood, Language Arts and Reading Education for course listings and sequence.

Department of Secondary Education

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

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

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

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

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

■ **ART EDUCATION (ARE):**

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

At the time of application to upper level, each Art Education student must submit slides or portfolio to the head of the department. To assist transfer students in selection of courses, they must submit work prior to or during registration.
After completing studio requirements for state certification each student may elect to emphasize painting, sculpture, graphics, ceramics, or photography/cinematography for the remaining studio electives.

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

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

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

**Specialization (36 credit hours)**

**Electives approved by adviser**

**Plus the following:**
- Two hours from either Music or Dance curricula or from the Theater Department.

**ENGLISH EDUCATION (ENE):**
General Distribution and Professional Education requirements are listed under Teacher Education Program.

1. **ENGLISH:**
   - A minimum of 39 semester hours, including:
     - CRW 2100, ENC 3310, and LAE 4464
     - One of the following:
       - EDG 4320 or MEC 3602
       - ENG 3105 or LIT 3073
     - One of the following:
       - ENL 3331 or ENL 3332
       - LIN 4671 or LIN 4680
       - ORI 3000 or SPC 2023
     - One of the following:
       - ENL 3015, ENL 3230, ENL 3250, or ENL 3273
     - One of the following:
       - LIT 3101, LIT 3102, or LIT 3144
       - LIN 3010, LIN 3801, or ENG 4060/5067
     - Two of the following:
       - AML 3031, AML 3032, or AML 3051

2. **ENGLISH EDUCATION:**
   - Nine semester hours in methods of teaching English at the middle and secondary levels: LAE 4325, LAE 4530, and LAE 4642. LAE 4530 must be taken concurrently with one of the other methods courses, the fall or spring immediately preceding internship. The second methods course should be taken the semester prior to enrolling in LAE 4530.

**FOREIGN LANGUAGE EDUCATION (FLS):**
General Distribution and Professional Education requirements are listed under Teacher Education Program. A minimum of 30 credit hours beyond intermediate course requirements must be earned in the foreign language. Programs are available for Spanish, French and German.

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

2. **Foreign Language Education**
   - 9 credit hours in methods of teaching a language at the elementary and secondary levels, including a practicum.
     - **Fall Term:** FLE 4314 (elementary)
     - **Spring Term:** FLE 4333 (secondary) and FLE 4334 (practicum)

**MATHMATICS EDUCATION (MAE):**
Admission Requirements: In addition to the College requirements, students must complete MAC 3311 or an equivalent course. General Distribution and Professional Education requirements are listed under Teacher Education Program.

1. **Mathematics:**
   - 38 semester hours in mathematics above the 2000 level.
   - Required courses are:
     - MAC 3311
     - MAC 3312
     - MAC 3313
     - CGS 3422

2. **Mathematics Education:**
   - Eleven hours in teaching mathematics at the secondary level.
   - Required courses are:
     - MAE 4320
     - MAE 4551
     - CGS 4010

**SCIENCE EDUCATION (NSB, NSC, NSP):**
Admission requirements: General Distribution and Professional Education requirements are listed under Teacher Education Program. In addition to the College requirements, the minimum requirement for acceptance into a program is the completion of 22 semester hours of required science courses.

**Course Requirements:**

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

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

**SOCIAL SCIENCE EDUCATION (SSE):**
General Distribution and Professional Education requirements are listed under Teacher Education Program.

**Course Requirements:**

1. **SOCIAL SCIENCE:**
   - A minimum of 40 semester hours, including:
     - ECO 2023
     - ECO 2013
     - GEO 3013
     - GEO 3100 or LAH 3200
     - One of the following:
       - ECO 4214
       - ECO 4215
       - GEO 4210
   - One of the following:
     - POS 2112
     - POS 3142
     - INR 3002
     - One of the following:
       - SYG 3100
       - SYG 3200
     - SYD 4410

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

Department of Educational Measurement and Research
The Department of Educational Measurement and Research teaches EDF 4430, Measurement for Teachers, which is required of all students enrolled in teacher education programs. The objectives of this course include designing and developing classroom tests; evaluating tests, instruction, and student progress; and communicating student achievement.
Department of Music Education

**MUSIC EDUCATION (MUE):**

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

All students seeking a degree in music education are required to pass an audition in their respective performance area and to take a music theory placement test prior to registering for any music theory class. Students who do not pass the diagnostic test will be placed in a music fundamentals course which does not fulfill a requirement in the music major curriculum. All transfer students are required to take a theory placement test and enter at the appropriate level of study. Students may obtain the dates for these examinations from the music office.

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

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

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

1. **Instrumental Specialization (72 cr. hrs.)**

- **Music Education courses (20 cr. hrs.)**
  - MUE 2090 (2)
  - MUE 3450 (1)*
  - MUE 4311 (3)
  - MUE 4321 (1)
  - MUE 3460 (1)**
  - MUE 4332 (3)
  - MUE 4323 (1)
  - MUE 4361 (1)
  - MUE 4480 (2)
  - Not required of woodwind majors
  - Not required of brass majors

- **Music courses (min. 52 cr. hrs.)**
  - MUS 1111 (3)
  - MUS 2177 (3)
  - MUH 3300 (2)
  - MUS 1112 (3)
  - MUS 2246 (1)
  - MUH 3301 (3)
  - MUS 1241 (1)
  - MUS 2247 (1)
  - MUH 3302 (3)
  - MUS 1242 (1)
  - MUS 2111 (3)
  - MUG 3101 (2)
  - MUS 2116 (3)

- **Applied Music (Principal) 12 cr. hrs.**
  - with a minimum of 4 hours at the 3000 level and concurrent registration in MUS 2010.

- **Music electives (2)**

- **Applied Music Secondary (Techniques - 3 cr. hrs.)**
  - (one each: string, percussion, voice)

- **Major performing ensembles**
  - (Minimum of one per semester of applied music - 6 cr. hrs.)

- **Graduating recital**

- **Piano proficiency requirement**

- **Other Fine Arts Requirement**

- **Art, Dance, Theatre (min. 3 cr. hrs. to be selected from one or more of the other departments of the College of Fine Arts)**

2. **Vocal Specialization (72 cr. hrs.)**

- **Music Education courses (16 cr. hrs.)**
  - MUE 2090 (2)
  - MUE 3423 (1)
  - MUE 3450 (1) or 3451 (1)*
  - MUE 3422 (1)
  - MUE 4360 (1) or 4361 (1)*
  - MUE 4331 (3)
  - MUE 4311 (3)

- **One hour courses must be repeated to achieve 16 cr. hrs.**

- **As determined by audition.**

- **Music courses (min. 56 cr. hrs.)**
  - MUS 1111 (3)
  - MUS 2116 (3)
  - MUS 2117 (3)
  - MUH 3300 (2)
  - MUS 1241 (1)
  - MUS 2246 (1)
  - MUH 3301 (3)
  - MUS 1242 (1)
  - MUS 2247 (1)
  - MUH 3302 (3)
  - MUG 3101 (2)

- **Applied Music (Principal) 12 cr. hrs.**
  - through with a minimum of 4 hours at the 3000 level and concurrent registration in MUS 2010.

**School of Physical Education**

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

**ELECTIVE PHYSICAL EDUCATION PROGRAM**

Elective Physical Education offerings in the College of Education are designed to provide opportunities for all students in the university to acquire knowledge and movement skills related to an active healthy lifestyle. Laboratory experiences in over twenty-five different exercise and sports activities allow students to select and develop proficiency appropriate for leisure pursuit and personal development. Special competency courses provide for in-depth study in such areas as personal wellness, current issues in sports, and first aid.

**PROFESSIONAL PHYSICAL EDUCATION PROGRAM**

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

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

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

In order to be admitted to the Program, all students must participate in a selective admissions procedure. Enrollment in the Program is limited and students can only enter during Semester 1 of each year.
COLLEGE OF EDUCATION
UNIVERSITY OF SOUTH FLORIDA - 1994/95 UNDERGRADUATE CATALOG

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

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

Course Requirements:

1. PROGRAM PREREQUISITES FOR ALL TRACKS:
   APB 3190 Human Anatomy & Physiology
   HSC 2400 First Aid

2. CORE COURSES FOR ALL TRACKS:
   EME 4402 Introduction To Computers In Education
   PEQ 3101 Aquatics
   PET 3010 Personal/Professional Development Seminar
   PET 3310 Kinesiology
   PET 3351 Exercise Physiology I
   PET 3422 Instructional Design & Content: Movement Experiences
   PET 4622 Care & Prevention of Physical Injuries

3. ADDITIONAL REQUIRED COURSES FOR K-8 TRACK: (PTE)
   EDF 3122 Learning & The Developing Child
   EDF 4430 Measurement for Teachers
   EDF 3604 Social Foundations of Education
   PET 3031 Motor Development & Assessment
   PET 3421 Curriculum and Instruction in Physical Education
   PET 3441 Instructional Design & Content: Middle School Physical Education
   PET 3640 Adapted Physical Education
   PET 3799 Career Decision Making & Professional Ethics
   PET 3943 Physical Education Internship: Middle School
   PET 4141 Trends & Tasks: Elementary Physical Education
   PET 4401 Organization and Administration of Physical Education Programs
   PET 4432 Instructional Design & Content: Physical Education Elementary
   PET 4433 Instructional Design & Content: Physical Education Elementary II
   PET 4934 Senior Seminar in Elementary Physical Education
   PET 4942 Physical Education Internship: Elementary
   PET 4946 Associate Teaching Physical Education: Elementary

4. ADDITIONAL REQUIRED COURSES FOR 6-12 TRACK: (PTS)
   EDF 3604 Social Foundations of Education
   EDF 4430 Measurement for Teachers
   EDF 4131 Learning and the Developing Adolescent
   PET 3031 Motor Development & Assessment
   PET 3421 Curriculum and Instruction in Physical Education
   PET 3441 Instructional Design & Content: Middle School Physical Education
   PET 3640 Adapted Physical Education
   PET 3799 Career Decision Making & Professional Ethics
   PET 3943 Physical Education Internship: Middle School
   PET 4142 Trends & Tasks: Secondary Physical Education
   PET 4304 Principles & Issues in Coaching
   PET 4401 Organization & Administration of Physical Education Programs
   PET 4442 Instructional Design & Content: Physical Education Secondary
   PET 4443 Instruction Design & Content: Physical Education Secondary II
   PET 4934 Senior Seminar in Secondary Physical Education
   PET 4944 Physical Education Internship: Secondary
   PET 4947 Associate Teaching Physical Education: Secondary

5. ADDITIONAL COURSES REQUIRED FOR WELLNESS LEADERSHIP TRACK: (PTE)
   ADE 4384 Working with the Adult Learner
   GEY 3601 Behavior Change in Later Life
   HUN 3201 Nutrition
   PEP 3940 Practicum in Health Promotion/Wellness
   PEP 3951 Communication Skills for Wellness Leaders
   PEP 4941 Wellness Internship
   PEP 3170 Aquatic Exercise
   PET 3080 Survey of Wellness Programs
   PET 4404 Organization & Administration of Wellness Programs
   PET 4353 Exercise Physiology I
   PET 4384 Health Fitness Appraisal & Exercise Prescription

In addition to the above courses, students in the Wellness Leadership Track are required to take a minimum of eight hours (or 4 courses) of the following elective courses which are activity courses related specifically to those found in Wellness Programs. These courses can be taken any time during the two years.

   PEL 1341 Tennis I
   PEL 2321 Volleyball
   PEL 2441 Racketball
   PEM 2131 Weight Training
   PEM 2441 Karate
   PEM 2930 Jogging
   PEM 2930 Advanced Jogging
   PEM 2930 Aerobic Dance
   PEM 2930 Country Line Dancing
   PEM 2930 Cycling
   PEM 2930 Sr & Aer Dev
   PEM 2930 Self Defense
   PEM 2930 Swim Aerobics
   PEM 2930 Triathlon
   PEM 2930 Aquatic Fitness
   PEN 1121 Swimming I
   PEN 2113 Life Saving
   PEN 2172 Swimming II
   PET 3931 Teaching Aerobic Dance/Exercise

Department of Psychological and Social Foundations of Education

The Department of Psychological and Social Foundations of Education provides courses for all students majoring in the wide array of undergraduate programs available in the College of Education. These courses contribute to the students’ understanding of the general education enterprises and are considered foundational to later professional specialization.

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

Department of Special Education

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

Students are required to meet University and College of Education entrance requirements prior to enrollment in the Department. Upon admission, students affiliate with the campus on which they wish to take their program of studies. Students may not register for courses on other campuses without permission. On the Tampa Campus, students are assigned to teams. All courses are taken with the assigned team. Since no teams start in the summer, there are no summer admissions. The program sequence includes at least two semesters of part-time field experience and one semester of full-day internship. All part-time field experiences must be successfully completed as a member of a team concurrently enrolled in a specified course in designated local schools under the supervision of a faculty member. Field experiences begin during the first semester of a student’s enrollment with increasing involvement throughout the program. Students are responsible for providing transportation to their experience sites.

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

Emotional and Behavioral Disabilities (EH Certification)
Students seeking the B.S. degree with certification in EH are required to take the following courses:
- EED 4011
- EEX 4221
- EEX 4604
- EED 4941
- EEX 4243
- MAE 4310
- Ex 3010
- EEX 4846
- RED 4310
One of the following:
- ARE 4313
- MUE 4210
- SCE 4310
SSE 4313
Two of the following:
- EEC 4706
- LAE 4314
- LAE 4414
- RED 4511
- SPA 4000

Mental Retardation (MR Certification)
Students seeking the B.S. degree with certification in MR are required to take the following courses:
- EEX 3010
- EEX 4243
- EMR 4941
- EEX 4221
- EEX 4604
- MAE 4310
- EEX 4846
- EMR 4011
- RED 4310
One of the following:
- ARE 4313
- MUE 4210
- SCE 4310
SSE 4313
Two of the following:
- EEC 4706
- LAE 4314
- LAE 4414
- RED 4511
- SPA 4000

Specific Learning Disabilities (LD Certification)
Students seeking the B.S. degree with certification in LD are required to take the following courses:
- EEX 3010
- EEX 4243
- ELD 4941
- EEX 4221
- EEX 4604
- MAE 4310
- EEX 4846
- ELD 4011
- RED 4310
One of the following:
- ARE 4313
- MUE 4210
- SCE 4310
SSE 4313
Two of the following:
- EEC 4706
- LAE 4314
- LAE 4414
- RED 4511
- SPA 4000

Student Organizations and Activities

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

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

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

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

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

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

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

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

Phi Beta Lambda
Phi Beta Lambda is a business fraternity open to all students, including freshmen, expressing an interest in Business. The emphasis is on promoting free enterprise and instilling leadership qualities.

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

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

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

Membership shall be available to any student in good standing who expresses interest in the Mathematics Education program at the University of South Florida.

Association for Library and Information Students
This is a professional organization associated with the Library, Media, and Information Studies Department and is open to all members of the university community interested in librarianship.

The USF group provides programs and guest speakers of interest to the campus community and publishes a newsletter for its members. It is the official voice of students in the department and members of the association are included on faculty-student committees within the department.

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

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

Science Education Association (SEA)

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

The programs offered by the College of Engineering to meet the diverse requirements of the future cover three areas: Engineering, Applied Science, and Technology. The specific degrees and services offered are as follows:

- Bachelor of Science in Chemical Engineering (B.S.Ch.E.)
- Bachelor of Science in Civil Engineering (B.S.C.E.)
- Bachelor of Science in Computer Engineering (B.S.Cp.E.)
- Bachelor of Science in Electrical Engineering (B.S.E.E.)
- Bachelor of Science in Industrial Engineering (B.S.I.E.)
- Bachelor of Science in Mechanical Engineering (B.S.M.E.)
- Bachelor of Science in Computer Science (B.S.C.S.)
- Bachelor of Science in Information Systems (B.S.I.S.)

The Accreditation Board for Engineering and Technology, Inc. (ABET), the College’s Council for Professional Development, has inspected and accredited the curriculum of the College of Engineering defined by the Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Industrial Engineering, and Mechanical Engineering. The Bachelor of Science program in Computer Science is accredited by the Computer Science Accreditation Board (CSAB), a specialized accrediting body recognized by the Council on Post-secondary Accreditation (COPA) and the U.S. Department of Education.

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

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

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

PROFESSIONAL ENGINEERING

The College of Engineering recognizes that modern engineering solutions draw on knowledge of several branches of engineering. It also recognizes that technological advancements will lead to shifting of the relative emphasis on various branches of engineering, triggered by new needs or a reassessment of national goals. For this reason the College's programs include a strong engineering foundation (core) portion, designed to equip the prospective engineer with a broad base of fundamental technical knowledge. To this foundation is added the student's specialization (option) of sufficient depth to prepare him/her to successfully embark on a professional career.

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

All are faced with the continuing problem of refurbishing and updating their information skills and most are obtaining advanced information by means of formal graduate study, seminars, special institutes and other such systems designed for this purpose.

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

The engineering programs of the College have been developed with an emphasis on three broad aspects of engineering activity: design, research, and the operation of complex technological systems. Students who are interested in advanced design or research should pursue the 5-Year Program leading to a Master of Science in Engineering.

Although the College encourages students to pursue advanced work beyond the baccalaureate degree, students interested in design and research are strongly encouraged to pursue an additional program of graduate study beyond the bachelor's degree. The high school student anticipating a career in engineering should elect the strongest academic program that is available while in high school. Four years each of English, mathematics and science (preferably including Chemistry and Physics), as well as full programs in the social sciences and humanities, are most important to success in engineering college.

Prospective students considering engineering at the University of South Florida who lack certain preparation in high school must elect to follow a program to overcome their deficiencies. One alternative might be that such a student take some remedial work and a less accelerated program as a Pre-Engineering student. The University of South Florida generally offers many required pre-engineering courses every semester. As another alternative, students may wish to avail themselves of the State's system of junior/community colleges which offer a wide range of remedial coursework, and many of which also offer full programs in pre-engineering (first two years' coursework).

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

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

The College of Engineering can assist students who are planning to obtain an Engineering degree from the University of South Florida and who have started their studies elsewhere in formulating a sound total program. Interested students should contact the College's Advising Office (813/974-2854) furnishing sufficient details to permit meaningful response.
Undergraduate Admission to the College

Students may apply to the College of Engineering upon initial entry to the University by declaring Engineering as their intended major. A USF student may apply through the Advising Office in the College of Engineering.

To be considered for admission to the College of Engineering, an applicant must be accepted by the University as a degree-seeking student and be academically in good standing. Admission procedures and requirements are listed below.

Procedures for Applying to the College

1. Students should complete and submit an Engineering Admissions Application to the College of Engineering, Advising Office.
   a. Freshmen and Sophomores must submit copies of high school transcripts, SAT or ACT test scores to the College of Engineering, Advising Office. This is in addition to requests recorded by the University’s Admissions Office.
   b. Transfer applicants must furnish transcripts from previously attended institutions to the College of Engineering, Advising Office. This is in addition to transcripts sent to the University’s Admissions Office.
   c. Applicants whose native language is other than English must submit TOEFL scores to the College of Engineering. The minimum TOEFL score must be 550.

2. Credentials must be received in the Engineering Advising Office 30 days prior to the date of applicable term. Failure to comply will result in the application being denied by the College of Engineering.

3. Credentials will be held for one year. If application is not updated within that year, credentials must be re-submitted.

Engineering Admission Requirements

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

2. Transfer Students:
   Transfer students must have completed the equivalent U.S.F. Engineering Calculus sequence with a 2.5 GPA; must have completed one year of equivalent U.S.F. General Physics and Chemistry courses with a minimum of 2.5 GPA; must have an overall GPA of 2.5 or better.

Admission to Programs in Engineering

Once a student has been admitted to the College of Engineering, he/she must then seek admission into one of the specific departments. There are two methods by which a student may be admitted to a particular department: (1) Regular Departmental Admission (RDA), and (2) Direct Departmental Admission (DDA). Each is described below.

Admission to the College of Engineering does not imply that the student has been accepted as a degree-seeking student by a specific Engineering department. Due to limited facilities and resources, it is necessary for students to apply formally for acceptance by a specific Engineering department.

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

2. Satisfactory completion of EGN 1002 - Engineering Orientation.
3. Completion of the following courses with either: a cumulative grade point average of 2.0 in these courses based on all attempts.
   - EGN 2210 - Computer Tools for Engineers
   - EGN 3311 - Statics
   - EGN 3343 - Thermodynamics

EGN 3443 - Engineering Statistics
EGN 3373 - Introduction to Electrical Systems
The minimum requirements for admission to the Computer Engineering program offered by the Computer Science and Engineering Department are completion of sections 1 and 2 above and:

1. Completion of:
   - COP 3002 & COP 3000L - Intro to Computer Science and Lab
   - EGN 3311 - Statics
   - EGN 3343 - Thermodynamics
   - EGN 3373 - Introduction to Electrical Systems
   - EGN 3443 - Engineering Statistics
   with a minimum of 2.0 based on all attempts.

2. The minimum requirements for admission to the Computer Science program offered by the Computer Science and Engineering Department are completion of sections 1 and 2 above and completion of:
   - COP 3002 & COP 3000L - Intro to Computer Science and Lab
   - EGN 3311 - Statics
   - EGN 3343 - Thermodynamics
   - EGN 3373 - Introduction to Electrical Systems
   - EGN 3443 - Engineering Statistics
   with a minimum of 2.0 based on all attempts.

The student and adviser work out a plan of study which meets both the student's career objectives and the College of Engineering's degree requirements. The advisers maintain the College of Engineering's student records.
While the College provides advising services to assist students with academic planning, the responsibility for seeing that all graduation requirements are met rests with the students. *A copy of the Student Academic Support System (SASS) report may be had upon request.*

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

### Departments & Programs

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

### Chemical Engineering

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

The Chemical Engineering Department also offers a sequence of courses in biotechnology and biomedical engineering. Biotechnology is largely involved in the utilization of living organisms to produce or eliminate a variety of products (e.g., pharmaceuticals, food, and fertilizers).

### Biotechnology And Biomedical Engineering

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

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

Please contact the Chemical Engineering Department for more information on these programs.

### Civil Engineering and Mechanics

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

### Computer Science and Engineering

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

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

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

### Electrical Engineering

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

### Industrial and Management Systems Engineering

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

### Mechanical Engineering

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

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

Laboratories are available for basic instrumentation, thermal and fluid sciences, solid mechanics, data acquisition and control, CAD/CAE, vibrations, and aerodynamics.

Eligibility for Fundamentals of Engineering examination as the first step towards professional engineering registration.

Engineering Core

Both the four-year and five-year curricula of the College of Engineering Bachelor of Science programs are founded on a common core of coursework which is required of all students. This coursework is designed to give each student a thorough foundation of basic engineering sciences and applications and design experience in a field of specialization.

Each degree-granting department has developed a list of courses to provide key elements for the degree offered. While the specific courses will vary slightly from one department to another, the hours in each category will be approximately as follows:

- **Non-technical Courses**
  - Social Sciences, Humanities, Communications: 34 Sem. Hrs.
- **Basic Engineering Science (Minimum)**
  - Engineering Science: 36 Sem. Hrs.
  - Department Specialization: 31 Sem. Hrs.
- Special requirements exist for Chemical Engineering. Students selecting this field should make sure they familiarize themselves with these. Detailed information can be obtained from the responsible department or the College's Advising Office.

1. **Non-Technical Requirements**

   - Prospective Engineering majors must take six hours of Freshman English (ENC 1101, 1102) in their first two semesters.
   - Additional coursework in the non-technical portion of the General Education requirements is required as specified in the individual course list which follow. In no case will credits be allowed for courses taken on a S/U basis.

   - A minimum of eight credit hours of non-technical General Education courses must be of 2000-level or higher.

   - Student should pick at least three hours of work which will satisfy 6A-10.30 (the "Gordon Rule"). It is required by ABET that non-technical studies have at least two courses (6 hours) taken in the same subject area in either Humanities/Fine Arts or Social Sciences.

2. **Mathematics and Science Core Requirements**

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

   - Credit for CLEP Subject Examinations and CEEB Advanced Placement Tests can be accepted when the subject covered is recognized to be equivalent to USF courses on the College of Engineering "Approved Social Sciences and Humanities Courses" list. Questions in this area should be directed to the Coordinator of Engineering Advising in the College's Advising Office.

3. **Engineering Core Requirements**

   - The prospective engineering major must take a minimum of 35 credit hours of engineering core (foundation) coursework drawn from the major disciplines. This coursework is designed to equip the student with a sound technical foundation, later supplemented by advanced specialization, and the eventual formation of professional judgment. This coursework includes introductory studies in such areas as engineering analysis and computation, statistics, electrical engineering principles, thermodynamics, statics, dynamics, fluids, and properties of materials.

   - In addition, 16 credit hours of the engineering core are common to all areas of the Bachelor of Science in a Designated Engineering Field degree programs. The remaining 6 credit hours of coursework must be chosen with the concurrence of the departmental adviser to fit the field selected by the student. Details on this selection are available in the departmental office of the field selected, or in the College's Advising Office.

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

   - Programs are offered in the following disciplines of Engineering:

     1. **Chemical Engineering**

        - Students pursuing the Bachelor of Science in Chemical Engineering take coursework in advanced chemistry, thermodynamics, fluids, heat, and mass transfer, separation processes, reacting systems, instrumentation, and control. Students must also satisfactorily complete a design and/or case study as part of their program. Students in the biotechnology/biomedical option are also required to take additional courses in general biology, microbiology, and biochemistry.

        - Special characteristics of the Chemical Engineering curriculum make it imperative that the students retain close contact with their adviser.

        - Students completing this program normally initiate their careers in process/manufacturing industries. Chemical engineers are found in administrative, technical, and research positions in these industries. Main products of these industries are petrochemicals, polymers, fibers, natural and synthetic fuels, electronic materials, fertilizers, pharmaceuticals, etc. Modern societal problems and technology have required the Chemical Engineering "know-how" to be applied in the biotechnology/biomedical and environmental areas. These fields depend on the chemical engineer, among others, for
solutions. Chemical Engineering students are expected to have access to an IBM compatible personal computer during their last two years of study. Those who do not own one will be severely disadvantaged.

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

**Bachelor's Curriculum - Chemical Engineering**

<table>
<thead>
<tr>
<th>Semester I</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101  Freshman English I</td>
<td>3</td>
</tr>
<tr>
<td>MAC 3281  Engineering Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2041  General Chem. I</td>
<td>3</td>
</tr>
<tr>
<td>EGN 1002  Engineering Orientation</td>
<td>0</td>
</tr>
<tr>
<td>*Historical Perspectives Elective</td>
<td>3</td>
</tr>
<tr>
<td>*Fine Arts Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester II</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1102  Freshman English II</td>
<td>3</td>
</tr>
<tr>
<td>MAC 3282  Engineering Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2046  General Chem. II</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2045L  Gen Chem I Lab</td>
<td>1</td>
</tr>
<tr>
<td>PHY 3048  General Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHY 3048L  Gen. Physics Lab I</td>
<td>1</td>
</tr>
<tr>
<td>*ALAMEA Perspective Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>17</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Suggested Summer Term</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 3283  Engineering Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3311  Statics</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2046L  Gen. Chem II Lab</td>
<td>1</td>
</tr>
<tr>
<td>PHY 3049  Gen. Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 3049L  Gen. Physics Lab II</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>11</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester III</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MAP 4302  Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3373  Electrical Systems I</td>
<td>3</td>
</tr>
<tr>
<td>EGN 2210  Computer Tools for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3343  Thermodynamics I</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3443  Statistics</td>
<td>3</td>
</tr>
<tr>
<td>*Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>18</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester IV</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>EGN 4450  Intro. to Linear Systems</td>
<td>2</td>
</tr>
<tr>
<td>EGN 3365  Materials</td>
<td>3</td>
</tr>
<tr>
<td>ECH 3702  Instrument Systems I</td>
<td>4</td>
</tr>
<tr>
<td>ECH 3023  Intro. to Process Eng</td>
<td>3</td>
</tr>
<tr>
<td>*Historical Perspectives Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester V</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ECH 3264C  Transport Processes I</td>
<td>3</td>
</tr>
<tr>
<td>ECH 4123C  Phase &amp; Chemical Equilibria</td>
<td>4</td>
</tr>
<tr>
<td>CHM 3210  Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 3210L  Organic Chemistry I Lab</td>
<td>3</td>
</tr>
<tr>
<td>CHM 4412  Physical Chemistry III</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester VI</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ECH 4265C  Transport Processes II</td>
<td>3</td>
</tr>
<tr>
<td>CHM 3211  Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>ECH 4605  Strat Proc Engr</td>
<td>3</td>
</tr>
<tr>
<td>ENC 3210  Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>MW-MI (Non-engineering)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester VII</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ECH 4323C  Automatic Controls I</td>
<td>3</td>
</tr>
<tr>
<td>ECH 4415C  Reacting Systems</td>
<td>3</td>
</tr>
<tr>
<td>ECH 4244L  Chem. Lab II</td>
<td>2</td>
</tr>
<tr>
<td>MW-MI (Engineering)</td>
<td>4</td>
</tr>
<tr>
<td>*Chemistry Elective</td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester VIII</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ECH 4615  Plant Design and Opt</td>
<td>3</td>
</tr>
<tr>
<td>Technical Electives</td>
<td>7</td>
</tr>
<tr>
<td>*Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

*Approved General Education Requirements

2. **Civil Engineering**

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

a. Environmental/Water Resources - courses in water treatment, waste water treatment, air pollution control and water resources.

b. Geotechnical/Transportation - courses in soil mechanics, foundations, transportation, and surveying.


d. Structural Engineering - courses in structural analysis and design, composite structures, using matrix and computer techniques.

Students completing this option enter careers as engineers in the civil, structural, geotechnical, transportation and water resources, environmental, hydraulics, materials, disciplines. All of these fields share the need for knowledge in the areas of engineering mechanics, civil engineering, and materials science. Through choice of the proper area of concentration the student has the opportunity to channel academic studies specifically towards his/her career choice.

Civil Engineering students commence their engineering careers in either industry, in engineering consulting firms, or in public service at the federal, state or local level. Initial assignments include planning, design and implementation of water resources, transportation and housing systems; regional planning, design and management for abatement of air, water, and solid waste pollution problems; design of bridges, single and multistory structures; and supervision of construction projects.

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

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

**Bachelor's Curricula - Civil Engineering Option**

<table>
<thead>
<tr>
<th>Semester I</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101  Freshman English I</td>
<td>3</td>
</tr>
<tr>
<td>MAC 3281  Engr. Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2041  General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>EGN 1002  Engr. Orientation</td>
<td>0</td>
</tr>
<tr>
<td>EGS 1113  Intro. Design Graphics</td>
<td>3</td>
</tr>
<tr>
<td>*Social Science Elective</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester II</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1102  Freshman English II</td>
<td>3</td>
</tr>
<tr>
<td>MAC 3282  Engr. Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2046  General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2045L  Gen. Chemistry I Lab</td>
<td>1</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>PHY 3048</td>
<td>General Physics I</td>
</tr>
<tr>
<td>PHY 3048L</td>
<td>Gen. Physics I Lab</td>
</tr>
<tr>
<td>*Social Science Elective</td>
<td></td>
</tr>
</tbody>
</table>

**Semester III**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 3049</td>
<td>General Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 3049L</td>
<td>Gen. Physics II Lab</td>
<td>1</td>
</tr>
<tr>
<td>MAC 3283</td>
<td>Engr. Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>EGN 2210</td>
<td>Computer Tools for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3311</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>*Historical Perspectives Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>*Fine Arts Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Semester IV**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAP 4302</td>
<td>Differ. Equations</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3365L</td>
<td>Materials Engr. I</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3373</td>
<td>Intro to Elec. Sys. I</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3343</td>
<td>Thermodynamics I</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3443</td>
<td>Engr. Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>*ALAMEA Perspectives Elective</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

**Semester V**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGN 3353C</td>
<td>Basic Fluid Mech.</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3321</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3331</td>
<td>Mechanics of Materials</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3331L</td>
<td>Mech. of Materials Lab</td>
<td>1</td>
</tr>
<tr>
<td>ENV 3001</td>
<td>Environmental Engineering</td>
<td>3</td>
</tr>
<tr>
<td>EGN 4420</td>
<td>Num. Mthds. of Analysis</td>
<td>2</td>
</tr>
<tr>
<td>*Historical Perspectives Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Semester VI**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CES 3102</td>
<td>Structures I</td>
<td>3</td>
</tr>
<tr>
<td>CWR 4202</td>
<td>Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>TTE 4004</td>
<td>Transportation Engr. I</td>
<td>3</td>
</tr>
<tr>
<td>CEG 4011</td>
<td>Soil Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>CEG 4011L</td>
<td>Geotech Lab</td>
<td>1</td>
</tr>
<tr>
<td>GLY 3850</td>
<td>Geology for Engrs.</td>
<td>1</td>
</tr>
</tbody>
</table>

**Semester VII**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGN 3613</td>
<td>Engineering Economy</td>
<td>3</td>
</tr>
<tr>
<td>CES 4605</td>
<td>Concepts of Steel Design</td>
<td>3</td>
</tr>
<tr>
<td>CES 4702</td>
<td>Concepts of Concrete Design</td>
<td>3</td>
</tr>
<tr>
<td><strong>ENC 3210</strong></td>
<td>Technical Writing</td>
<td>2</td>
</tr>
<tr>
<td>C.E. Design Requirement</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>C.E. Concentration Requirement</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Semester VIII**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGN 3021L</td>
<td>C.E. Lab</td>
<td>2</td>
</tr>
<tr>
<td>*CGN 4122C</td>
<td>Engr. Contracts Specs. &amp; Ethics (MW/MI)</td>
<td>2</td>
</tr>
<tr>
<td>C.E. Design Requirement</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>C.E. Concentration Requirement</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>C.E. Concentration Requirement</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>*MW/MI (Non-Engineering)</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

*Approved General Education Requirements
**Approved General Education Requirement for Engineering students only.

**Civil Engineering Concentration Requirements**

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

**Water Resources**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV 4502</td>
<td>Environmental Unit Operations</td>
<td>3</td>
</tr>
<tr>
<td>ENV 4101</td>
<td>Air Pollution Control</td>
<td>3</td>
</tr>
<tr>
<td>CWR 4103</td>
<td>Water Resources Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

**Geotechnical/Transportation**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEG 4012</td>
<td>Soil Mechanics II</td>
<td>3</td>
</tr>
<tr>
<td>TTE 4005</td>
<td>Transportation Engineering II</td>
<td>3</td>
</tr>
<tr>
<td>SUR 3140C</td>
<td>Engineering Land Surveying</td>
<td>3</td>
</tr>
</tbody>
</table>

**Materials**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGN 4366</td>
<td>Materials Engineering II</td>
<td>3</td>
</tr>
<tr>
<td>EMA 4324</td>
<td>Corrosion of Engineering Materials</td>
<td>3</td>
</tr>
<tr>
<td>EMA 4703</td>
<td>Failure Analysis &amp; Prevention</td>
<td>3</td>
</tr>
</tbody>
</table>

**Structural**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CES 4141</td>
<td>Matrix Structural Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CES 4820</td>
<td>Timber &amp; Masonry Design</td>
<td>3</td>
</tr>
<tr>
<td>CES 4561</td>
<td>Computer Aided Structural Design</td>
<td>3</td>
</tr>
</tbody>
</table>

**Civil Engineering Design Requirements**

(A student must complete a minimum of 4 hours with at least 1 course from the same area of concentration selected for 2 concentration requirements.)

**Water Resources**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CWR 4810</td>
<td>Hydraulic Design</td>
<td>2</td>
</tr>
<tr>
<td>ENV 4432</td>
<td>Water Systems Design</td>
<td>2</td>
</tr>
<tr>
<td>CGN 4914</td>
<td>Senior Project</td>
<td>2</td>
</tr>
</tbody>
</table>

**Geotechnical/Transportation**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEG 4801</td>
<td>Geotechnical Design</td>
<td>2</td>
</tr>
<tr>
<td>TTE 4821</td>
<td>Transportation Systems Design</td>
<td>2</td>
</tr>
<tr>
<td>CGN 4914</td>
<td>Senior Project</td>
<td>2</td>
</tr>
</tbody>
</table>

**Materials**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGN 4851</td>
<td>Cement and Concrete Design</td>
<td>2</td>
</tr>
<tr>
<td>EMA 4704</td>
<td>Selection and Application of Materials</td>
<td>2</td>
</tr>
<tr>
<td>CGN 4914</td>
<td>Senior Project</td>
<td>2</td>
</tr>
</tbody>
</table>

**Structural**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CES 4618</td>
<td>Structural Design-Steel</td>
<td>2</td>
</tr>
<tr>
<td>CES 4704</td>
<td>Structural Design-Concrete</td>
<td>2</td>
</tr>
<tr>
<td>CGN 4914</td>
<td>Senior Project</td>
<td>2</td>
</tr>
</tbody>
</table>

**Environmental Engineering Concentration**

**Within Civil Engineering**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101</td>
<td>Freshman English I</td>
<td>3</td>
</tr>
<tr>
<td>MAC 3281</td>
<td>Engr. Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2041</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>EGS 1113</td>
<td>Intro. to Des. Graphics</td>
<td>3</td>
</tr>
<tr>
<td>EGN 1002</td>
<td>Engr. Orientation</td>
<td>0</td>
</tr>
<tr>
<td>*Fine Arts Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>*Social Science Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Semester II**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1102</td>
<td>Freshman English II</td>
<td>3</td>
</tr>
<tr>
<td>MAC 3282</td>
<td>Engr. Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2046</td>
<td>General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 3048</td>
<td>General Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHY 3048L</td>
<td>General Physics I Lab</td>
<td>3</td>
</tr>
<tr>
<td>*Historical Perspectives Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Semester III**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 3283</td>
<td>Engr. Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>PHY 3049</td>
<td>General Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 3049L</td>
<td>General Physics II Lab</td>
<td>1</td>
</tr>
<tr>
<td>EGN 2210</td>
<td>Computer Tools for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3311</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>GLY 3850</td>
<td>Geology for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>*Social Science Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
Three undergraduate programs are offered within Computer Science and Engineering. They are: the Computer Engineering program (leading to a Bachelor of Science in Computer Engineering), the Computer Science program (leading to a Bachelor of Science in Computer Science), and the Bachelor of Science in Information Systems.

The Computer Engineering program emphasizes the design and utilization of computers and has a core of engineering and basic science courses like those of other engineering programs in the college. The Computer Science program focuses on languages, systems, computation and application.

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

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

### Bachelor of Science in Computer Science Curriculum

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

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

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

#### Semester III
- EGN 3373 Elect. Sys. I 3
- COT 3100 Intro. to Discrete Structures 3
- ENC 3210 Tech. Writing 3
- ENC 4705L Logic Design Lab 3
- MAP 4302 Diff. Equations 3
- Total 15

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

#### Semester V
- EEL 4851C Data Structures 3
- EEL 4705 Logic Design 3
- EEL 4705L Logic Design Lab 1
- COP 3510 Programming Concepts 3
- Quantitative Elective 3
- *Fine Arts Elective 3
- Total 16

#### Semester VI
- CDA 4100 Computer Organization and Architecture 3
- COP 4400 Computer Systems 3
- COP 4210 Intro. to Automata Theory & Formal Languages 3
- MW/MI (Non-engineering) 3
- Computer Science Elective 3
- Total 15

*Approved General Education Requirements*
### Semester VII

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 4744</td>
<td>Microprocessor Principles &amp; Applications</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4743L</td>
<td>Microprocessor Lab</td>
<td>1</td>
</tr>
<tr>
<td>COP 4600</td>
<td>Intro. to Sys. Prog.</td>
<td>3</td>
</tr>
<tr>
<td>COT 4400</td>
<td>Analysis of Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>Computer Science Elective</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>CEN 4020</td>
<td>Software Engr.</td>
<td>3</td>
</tr>
<tr>
<td>CIS 4250</td>
<td>Computer Ethics (MW/MI)</td>
<td>3</td>
</tr>
<tr>
<td>Quantitative Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Computer Science Electives</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

*Approved General Education Requirements

### Bachelor of Science in Computer Engineering Curriculum

#### Semester I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGN 1002</td>
<td>Engr. Orientation</td>
<td>0</td>
</tr>
<tr>
<td>MAC 3281</td>
<td>Engr. Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2041</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2045L</td>
<td>General Chemistry I Lab</td>
<td>1</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>Freshman English I</td>
<td>3</td>
</tr>
<tr>
<td>*Social Science Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>*Historical Perspectives Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

#### Semester II

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 3282</td>
<td>Engr. Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 3048</td>
<td>General Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHY 3048L</td>
<td>General Physics I Lab</td>
<td>1</td>
</tr>
<tr>
<td>ENC 1102</td>
<td>Freshman English II</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2046</td>
<td>General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>*Historical Perspectives Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

#### Summer Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 3049</td>
<td>General Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 3049L</td>
<td>General Physics II Lab</td>
<td>1</td>
</tr>
<tr>
<td>MAC 3283</td>
<td>Engr. Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>*Social Science Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

#### Semester III

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGN 3373</td>
<td>Elect. Sys. I</td>
<td>3</td>
</tr>
<tr>
<td>COT 3100</td>
<td>Intro. to Discrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>MAP 4302</td>
<td>Diff. Equations</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3343</td>
<td>Thermo I</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3311</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>ENC 3210</td>
<td>Tech. Writing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

#### Semester IV

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 3302</td>
<td>Electronics I</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3321</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>COP 3002</td>
<td>Intro to Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>COP 3000L</td>
<td>Intro to Computer Science Lab</td>
<td>1</td>
</tr>
<tr>
<td>EGN 4450</td>
<td>Intro to Linear Systems</td>
<td>2</td>
</tr>
<tr>
<td>EGN 3443</td>
<td>Engr. Statistics I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

#### Semester V

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGN 3365L</td>
<td>Materials Engr. I</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4851C</td>
<td>Data Structures</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3613</td>
<td>Engr. Economy I</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4705</td>
<td>Logic Design</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4705L</td>
<td>Logic Design Lab</td>
<td>1</td>
</tr>
<tr>
<td>EEL 4305</td>
<td>Electronics II</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

### Semester VI

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDA 4100</td>
<td>Computer Organization &amp; Architecture</td>
<td>3</td>
</tr>
<tr>
<td>COP 4400</td>
<td>Computer Systems</td>
<td>3</td>
</tr>
<tr>
<td>COP 4210</td>
<td>Intro. to Automata Theory &amp; Formal Languages</td>
<td>3</td>
</tr>
<tr>
<td>*Fine Arts Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Computer Engineering Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

*Approved General Education Requirements

### Bachelor of Science in Information Systems Curriculum

#### Semester I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGN 1002</td>
<td>Engr. Orientation</td>
<td>0</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>Freshman English I</td>
<td>3</td>
</tr>
<tr>
<td>MAC 3233 or 3281 Calculus</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ACG 2001</td>
<td>Elem. Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>Science Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>*Historical Perspective Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

#### Semester II

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1102</td>
<td>Freshman English II</td>
<td>3</td>
</tr>
<tr>
<td>MAC 3234 or 3282 Calculus</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PHY 3053 or 3048 Physics</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PHY 3053L or 3048L Physics</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ACG 2211</td>
<td>Elem. Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>Social Science Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

#### Semester III (Summer)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 3054 or 3049 General Physics II</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PHY 3049L or 3054L Physics II Lab</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>EGN 2210</td>
<td>Computer Tools for Engineers</td>
<td>2</td>
</tr>
<tr>
<td>Science Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

#### Semester IV

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 3002</td>
<td>Intro to Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>COP 3000L</td>
<td>Intro to Computer Science Lab</td>
<td>1</td>
</tr>
<tr>
<td>MAS 3103</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>ECO 2013</td>
<td>Economic Principles (Macroeconomics)</td>
<td>3</td>
</tr>
<tr>
<td>Humanities/Social Science Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

#### Semester V

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 3002</td>
<td>Intro to Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>COP 3000L</td>
<td>Intro to Computer Science Lab</td>
<td>1</td>
</tr>
<tr>
<td>MAS 3103</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>ECO 2013</td>
<td>Economic Principles (Macroeconomics)</td>
<td>3</td>
</tr>
<tr>
<td>*Historical Perspectives Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
## Semester VI

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 4851C</td>
<td>Data Structures</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4705</td>
<td>Logic Design</td>
<td>3</td>
</tr>
<tr>
<td>MAN 3025</td>
<td>Principles of Mgmt</td>
<td>3</td>
</tr>
<tr>
<td>CEN 4020</td>
<td>Software Engr.</td>
<td>3</td>
</tr>
<tr>
<td>COP 3510</td>
<td>Programming Concepts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

## Semester VII

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 4400</td>
<td>Computer Systems</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4852C</td>
<td>Data Base Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENC 3210</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>XXX 0000</td>
<td>Software Engr. II</td>
<td>3</td>
</tr>
<tr>
<td>Business Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

## Semester VIII

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 4600</td>
<td>Systems Programming</td>
<td>3</td>
</tr>
<tr>
<td>*Fine Arts Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EEL 4781C</td>
<td>Dist. Proc. &amp; Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>XXX 0000</td>
<td>Fourth Generation Lang</td>
<td>3</td>
</tr>
<tr>
<td>XXX 0000</td>
<td>SW Tools &amp; Metrics</td>
<td>3</td>
</tr>
<tr>
<td>*ALAMESA Perspective Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

## Semester IX

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 4910</td>
<td>Computer Science Project</td>
<td>2</td>
</tr>
<tr>
<td>XXX 0000</td>
<td>Computer Simulation</td>
<td>3</td>
</tr>
<tr>
<td>CIS 4250</td>
<td>Computer Ethics</td>
<td>3</td>
</tr>
<tr>
<td>*MW/MI (Non-Engineering)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information Systems Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>4</strong></td>
</tr>
</tbody>
</table>

*Approved General Education Requirements

## 4. Electrical Engineering

Students pursuing the Bachelor of Science in Electrical Engineering program take designated coursework in network analysis, electronics, communications, electromagnetic theory, control systems, microelectronics and microprocessors. This coursework is supplemented by electives in many specialized areas of electrical engineering.

Students completing the program may 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 research and development (often requires an advanced degree), design, production, operation, sales, or management of these products/services.

The schedule which follows indicates how a serious, well prepared student can devote full time to coursework and 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. A minimum departmental GPA of 2.0 is required for graduation.

### Bachelor’s Curriculum - Electrical Engineering

#### Semester I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101</td>
<td>Freshman English I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2041</td>
<td>Gen. Chem. I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2045L</td>
<td>Gen. Chem. Lab</td>
<td>1</td>
</tr>
<tr>
<td>MAC 3281</td>
<td>Engr. Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>EGN 1002</td>
<td>Engr. Orientation</td>
<td>0</td>
</tr>
<tr>
<td>*Social Science Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*Historical Perspective Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>3</strong></td>
</tr>
</tbody>
</table>

#### Semester II

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1102</td>
<td>Freshman English II</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2046</td>
<td>Gen. Chem. II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 3048</td>
<td>Gen. Phy. I</td>
<td>3</td>
</tr>
<tr>
<td>PHY 3048L</td>
<td>Gen. Phy. I Lab</td>
<td>1</td>
</tr>
<tr>
<td>MAC 3282</td>
<td>Engr. Cal. II</td>
<td>3</td>
</tr>
<tr>
<td>EGN 2210</td>
<td>Computer Tools for Engineers</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

#### Semester III

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 3049</td>
<td>Gen. Phys. II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 3049L</td>
<td>Gen. Phys. II Lab</td>
<td>1</td>
</tr>
<tr>
<td>MAC 3283</td>
<td>Eng. Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>*Historical Perspective Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EGN 3311</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3613</td>
<td>Egr. Economy I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

#### Semester IV

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAP 4302</td>
<td>Diff. Equations</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3373</td>
<td>Intro. to Elec. Sys.</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3443</td>
<td>Engr. Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>PHY 3101</td>
<td>Modern Physics</td>
<td>2</td>
</tr>
<tr>
<td>EGN 3343</td>
<td>Thermodynamics I</td>
<td>3</td>
</tr>
<tr>
<td>*Social Science Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

#### Semester V

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 3302</td>
<td>Electronics I</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4450</td>
<td>Intro. to Linear Systems</td>
<td>2</td>
</tr>
<tr>
<td>EGN 3375</td>
<td>Intro. to Elec. Systems III</td>
<td>3</td>
</tr>
<tr>
<td>EEL 3100</td>
<td>Network Analysis &amp; Design</td>
<td>3</td>
</tr>
<tr>
<td>EEL 3410</td>
<td>Fields &amp; Waves I</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3365</td>
<td>Materials Engineering I</td>
<td>3</td>
</tr>
<tr>
<td>ENC 3210</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>*MW/MI (Non-engineering)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

#### Semester VI

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 4512</td>
<td>Intro. to Communication Systems</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4305</td>
<td>Electronics II</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4705</td>
<td>Logic Design</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4705L</td>
<td>Logic Lab</td>
<td>1</td>
</tr>
<tr>
<td>EGN 3302L</td>
<td>Lab I</td>
<td>1</td>
</tr>
<tr>
<td>EEL 4163</td>
<td>Computer Aided Design &amp; Analysis</td>
<td>2</td>
</tr>
<tr>
<td>*Fine Arts Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technical Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

#### Semester VII

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 4744</td>
<td>Microprocessor Principles &amp; Applications</td>
<td></td>
</tr>
<tr>
<td>EEL 4743L</td>
<td>Microprocessor Lab</td>
<td>1</td>
</tr>
<tr>
<td>EEL 4657</td>
<td>Lin. Control Sys.</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4906</td>
<td>Design Project</td>
<td>2</td>
</tr>
<tr>
<td>EGN 4306L</td>
<td>Lab IV</td>
<td>1</td>
</tr>
<tr>
<td>EGN 4306L</td>
<td>Technical Elective</td>
<td>3</td>
</tr>
<tr>
<td>EGN 4306L</td>
<td>MW/MI (Engineering)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

*Approved General Education Requirements

#### Semester VIII

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 4744</td>
<td>Microprocessor Principles &amp; Applications</td>
<td></td>
</tr>
<tr>
<td>EEL 4743L</td>
<td>Microprocessor Lab</td>
<td>1</td>
</tr>
<tr>
<td>EEL 4657</td>
<td>Lin. Control Sys.</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4906</td>
<td>Design Project</td>
<td>2</td>
</tr>
<tr>
<td>EGN 4306L</td>
<td>Lab IV</td>
<td>1</td>
</tr>
<tr>
<td>EGN 4306L</td>
<td>Technical Elective</td>
<td>3</td>
</tr>
<tr>
<td>EGN 4306L</td>
<td>MW/MI (Engineering)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

*Approved General Education Requirements

## 5. Industrial Engineering

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

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

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

### Bachelor's Curriculum

#### Industrial and Management Systems Engineering

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

| Semester II | ENC 1102 | Freshman English II | 3 |
| MAC 3282 | Engr. Calculus II | 3 |
| CHM 2046 | General Chemistry II | 3 |
| CHM 2045L | Gen. Chemistry I Lab | 3 |
| PHY 3048 | General Physics I | 3 |
| PHY 3048L | Gen. Physics I Lab | 1 |
| EGN 2210 | Computer Tools for Engineers | 3 |

| Semester III | PHY 3049 | General Physics II | 3 |
| PHY 3049L | Physics II Lab | 1 |
| MAC 3283 | Engr. Calculus III | 3 |
| EGN 3365L | Materials Engineering I | 3 |
| EGN 3311 | Statics | 3 |
| EGN 3443 | Eng. Statistics I | 3 |
| ENC 3210 | Technical Writing | 3 |

| Semester IV | MAP 4302 | Differ. Equations | 3 |
| EGN 3373 | Intro. to Electrical Systems I | 3 |
| EGN 3613 | Engineering Economy I | 3 |
| EGN 3321 | Dynamics | 3 |
| EGN 3343 | Thermodynamics I | 3 |
| *Social Science Elective | 3 |

| Semester V | EGN 4450 | Intro. to Linear Systems | 2 |
| EIN 4312L | Work Analysis | 3 |
| EGN 3375 | Intro. to Electrical Systems III | 3 |
| EIN 4411L | Manufacturing Processes | 3 |
| ACG 3074 | Managerial Acct. for Engineers | 3 |
| ESI 4224 | Design of Experiments | 3 |

| Semester VI | ESI 4312 | Deterministic O.R. | 3 |
| ESI 4313 | Probabilistic O.R. | 3 |
| ESI 4221 | Industrial Statistics & Quality Control | 3 |

| Semester VII | EIN 4364L | Plant Facilities Design I | 3 |
| MW/Ml (Non-engineering) | 3 |
| Science Elective | 18 |

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

### 6. Mechanical Engineering

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

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

### Bachelor's Curriculum

#### Mechanical Engineering

| Semester I | ENC 1101 | Freshman English I | 3 |
| MAC 3281 | Engineering Calculus I | 3 |
| CHM 2041 | General Chemistry I | 3 |
| CHM 2045L | Chem Lab I | 1 |
| EGS 1113 | Intro. to Design Graphics | 3 |
| EGN 1002 | Engineering Orientation | 0 |
| *Social Science Elective | 3 |

| Semester II | ENC 1102 | Freshman English II | 3 |
| MAC 3282 | Engineering Calculus II | 3 |
| CHM 2046 | General Chemistry II | 3 |
| CHM 2045L | Chem Lab II | 1 |
| EGS 1113 | Intro. to Design Graphics | 3 |
| *Social Science Elective | 3 |

| Required Summer Term | MAC 3283 | Engineering Calculus III | 3 |
| PHY 3049 | General Physics II | 3 |
| PHY 3049L | General Physics II Lab | 1 |
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 (Non-Technical Requirements); b) Basic Science Requirements (i.e., Math, Chemistry and Physics); c) Engineering Core Requirements; d) Program Specialization Requirements. All undergraduate students in the College of Engineering must maintain the minimum grade-point average (GPA) of 2.0 for each category. In no case will the minimum GPA for a category be less than 2.0. It is the student's responsibility to make sure she/he meets all departmental requirements. In addition to the completion of the coursework and/or project requirements of the respective program of the College, students must be recommended for their degrees by the faculty of the College.

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

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

Students pursuing College of Engineering degree programs are expected to take their courses on a graded basis (ABCD). 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.

Colleges Regulations

1. Humanities and Social Science Requirements

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

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.

All Engineering students must complete the USF Exit Requirements. The Literature and Writing portion can be met by completing ENC 3210 Technical Writing.
Effective fall of 1987 all incoming students pursuing Bachelor of Science degree programs in Civil 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. Engineering students in other disciplines are strongly encouraged to do the same. (See the College Advising Office for applications and information.)

5. Transfer Credit
Transfer credit will be allowed by the USF College of Engineering when appropriate if the transferred course has been passed. In some cases credit for a course may be granted, but the hours accepted may be less than the hours earned at another school. While credit for work at other institutions may be granted subject to the conditions of the previous paragraph, a minimum of thirty semester hours of engineering coursework specified by the degree granting department is required for a baccalaureate degree.

FIVE-YEAR PROGRAM - LEADING TO BACHELORS AND MASTERS DEGREES

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

1. A two-year research program extending through the fourth and fifth year.
2. The opportunity of taking graduate courses during the fourth year and deferring the taking of senior courses to the fifth year. The requirements of the combined degrees do not differ from those for the two degrees pursued separately.
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 with a 3.0 GPA.
   2. A minimum score of 1000 on the verbal and quantitative portions of the Graduate Records Examination is expected.
   3. Above-average performance in the chosen Engineering program is expected.

Certificate Programs

Certificate in Biomedical Engineering
The Certificate in Biomedical Engineering provides students an opportunity to get an introduction to a rapidly developing field of study and to receive recognition for their endeavors. Students in the program must fulfill the requirements for an undergraduate degree, such as Bachelor of Science in Chemical Engineering, and also meet the additional requirements of the Certificate program.

Chemistry/Biology (10 hours min.)
BSC 2010 Biology II - Cellular Processes*
BCH 3023 Biochemistry**

One of the following Organic Chemistry sequences:
CHM 3210 Organic Chemistry I*
CHM 3211 Organic Chemistry II*
CHM 3200 Organic Chemistry***

Other "human sciences" (6 hrs. min.)
PSY 3044 Experimental Psychology**

One of the following:
PET 3310 Kinesiology
PET 3351 Exercise Physiology I
EXP 4104 Sensory Processes
PSB 4013C Neuropsychology
(or approved substitute)

Engineering (9 hrs. min.****)
EEL 4935 Special Electrical Topics
ECH 5746 Intro to Biomedical Engineering

One or more of the following (to achieve 9 hrs. min. in area):
EIN 4313L Human Factors
EIN 5245 Work Physiology & Biomechanics
ECH 5747 Selected Topics in Chemical Engineering
ECH 5748 Selected Topics in Biomedical Engineering
(or other approved Engineering courses)

*These courses are typically required for Medical School admission. Note that there may be other required courses, such as a course in human Genetics and the Organic Chemistry laboratories.
**These courses are not normally required for Medical School admission, but are often "highly recommended".
***This is a single semester course in Organic Chemistry. This course does not normally satisfy the admission requirements of most medical schools. It also does not count towards the Chemical Engineering degree (students must take the full year sequence).
****It is important to note that these engineering courses are above and beyond the courses necessary to satisfy the 136 hour requirement. That is, these courses will not also be countable as engineering electives towards the B.S. requirements for any of the departmental degree programs.

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

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

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

Computer Service Courses
These courses marked SC are specifically designed for the non-engineering student.
Recognizing that the general purpose digital computer has made significant contributions to the advancement of all elements of the academic community and that it will have an ever 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
Each of the departments has several modern well-equipped laboratories that are used for undergraduate teaching. Some examples of specialized equipment available are a scanning electron microscope, a gas chromatograph mass spectrometer, a 250,000 lb. material testing machine, several microprocessor base control systems, industrial robots, a low turbulence subsonic wind tunnel, computer numerical controlled machinery, metal organic chemical
vapor deposition systems, and integrated circuits design workstations.

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

The College of Engineering operates a cluster of file and computer servers for students and faculty within the College. These consist of SUN servers and four Ardent multiprocessors mini-super computers. The networks provide access from offices and laboratories, computer rooms and dial-in facilities. All machines are configured for E-mail, and access to Internet. Conventional asynchronous links to the campus central facility will shortly be supplemented with an Ethernet link.

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

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

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

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

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 classroom employment 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 or junior years. The senior year is generally pursued on a full-time study basis, since many specialization courses are not offered every semester. The students receive a Cooperative Education Certificate upon successful completion of a minimum of two work assignments.

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 Florida 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 continues to support this extension with appropriations. 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 1990-91 a sponsored research volume of approximately $12 million dollars was achieved 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. 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.

STAC (Southern Technology Application Center)
STAC is one of NASA's six Regional Technology Transfer centers. Serving the Southwest United States, STAC is headquartered in Florida with offices in the College of Engineering at the University of South Florida and five other SUS universities. STAC's primary mission is to identify promising technologies developed by engineers and researchers in university and federal labs, and to facilitate their commercialization through private sector businesses. In this way companies, large and small, are able to capitalize rapidly on the results of scientific research and technological innovation and realize the increased productivity necessary to compete in the global marketplace.

STAC teams with researchers, inventors, entrepreneurs, start-up companies and established firms in solving their business problems and overcoming their technical hurdles. STAC's team brings diverse professional experiences to bear on client projects - including Electrical and Mechanical Engineering, Fluid Mechanics, Computer Technology, Marine Chemistry, Oceanography, Medicine and Dentistry, Biomedical Engineering, Laser Optics, Information Science, Transportation, Anthropology, Manufacturing Management, Systems Analysis, Marketing and Strategic Planning, International Trade and Economic Development. Other experts located in universities, government agencies, and the 714 federal labs nationwide are frequently brought in to complement STAC's in-house expertise. Services offered on a cost reimbursable basis include Feasibility Studies, Market Analysis, Team Building, Proposal Writing, Computerized Searching, Inventor Counseling, and Project Management.

The cornerstone of STAC's technology transfer capabilities is its Information Resource Center (IRC). IRC researchers have logged over 200,000 hours of connect time in STAC's international array of more than 2,000 on-line databases that reference a half billion published articles, studies, patents, books and reports. They have assembled an extensive in-house library of journals, news bulletins and periodicals published by leading trade associations and special interest groups which provide data, statistics and news items that are often not distributed by any other means. The major research capabilities combined with rapid retrieval of documents enables STAC to efficiently locate critical technologies, marketing and business data, experts, facilities, and equipment to successfully complete project tasks.

As one of five NASA Industrial Applications Centers, STAC also promotes the business benefits of the Space Program, from the ordinary procurement needs of the Agency to Small Business Innovation Research Grants (SBIR) for high tech research to microgravity experiments leading eventually to manufacturing in space. Capitalizing on our nation's most valuable renewable resource STAC also promotes the pursuit of science and engineering careers through guest lectures to K-12 students who might eventually live and work in space.

Army & Air Force R.O.T.C.
For Engineering Students
The Engineering curriculum, coupled with involvement in the Army or Air Force R.O.T.C. program, requires a minimum of five (5) years to complete the degree requirements. Army and Air Force R.O.T.C. cadets must take 16 additional hours in either military science or aerospace studies. Additionally, Air Force-sponsored summer training camp is scheduled between the sophomore and junior year for Air Force cadets, and Army cadets attend an Army-sponsored summer training program between the junior and senior years.
The College of Fine Arts exists in the atmosphere of a comprehensive university. It provides opportunities for students to develop their interests and talents to the highest level possible and encourages them to do so whether they wish to commit to a life in the arts or, as a general interest, to develop appreciation and involvement in the arts. For these purposes, the College educates in the practice of creating, performing, presenting and understanding theatre, music, dance and the visual arts. Our mission is 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:
   - Practice an art as a full time life commitment;
   - Practice an art as an important element of the individual's life commitment;
   - Appreciate the arts as important life enrichers.

2. Creating and researching the arts:
   - To expand horizons and explore new dimensions in the arts;
   - To contribute to the expansion of general knowledge and information about the arts;
   - 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.

An Arts-Filled Environment

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

Baccalaureate-Level Degree Programs

Programs Leading to the Baccalaureate Degree

The College of Fine Arts offers programs leading to the Bachelor of Arts degree in the fields of Art, Dance, and Theatre, a Bachelor of 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/school. At that time, the new freshman will receive a 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/school, can apply to change from another major to a major in the College of Fine Arts.

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

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

Advising in the College

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

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

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

Graduation Requirements

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

1. 120-124 credits for the B.A., 124-126 credits for the B.M., and 154 credits for the B.F.A. with at least a "C" average (2.0) in work done at the University of South Florida and in the major. At least 40 credits must be in courses numbered 3000 or above. Since 15 hours is considered a full-time load, students are reminded that programs requiring more than 120 credit hours may require additional semesters for completion of the program.

2. General 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. Students admitted under the 1994/95 catalog must complete the Liberal Arts requirements of the University in lieu of the General Distribution.

3. Students admitted to the College of Fine Arts with transfer credits or former students returning with credits dating ten or more years prior to admission (or readmission) will have those credits reviewed by the College and department/school 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/school of the College.

5. A maximum number of ROTC credits totaling no more than the maximum allowed in the Free Elective Area for each major may be counted towards the B.A., B.M., or B.F.A. degree.

6. With department/school approval, a maximum of 4 credit hours of elective Physical Education credits taken at USF may be
113

COLLEGE OF FINE ARTS

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 (CLASS) 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 44 credit hours in the major, 21 credit hours of Free Electives (of which 17 hours in dance may apply), and 9 hours of non-major credits which may be distributed at the discretion of the Dance Department.

Music Requirements: Completion of a minimum of 84-86 hours in the major.

Music Education Requirements: For Instrumental Specialization, the completion of a minimum of 19 credit hours of Music Education courses and 52 credit hours of Music courses. For Vocal Specialization, the completion of a minimum of 15 credit hours of Music Education courses and 56 credit hours of Music courses.

Theatre Requirements: For the B.A., the completion of a minimum of 54 -55 credit hours in the major with 24 credit hours of Free Electives of which a maximum of 10 -11 credit hours may be in theatre. For the B.F.A., the completion of a minimum of 75 credit hours in the major with 29-30 credit hours of Free Electives of which a maximum of 10 -11 credit hours may be in theatre.

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

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

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

Courses for General Distribution and Liberal Arts Requirements:

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

College Policy for Academic Progress

The following criteria will serve as the basis for disenrollment from a major in the College of Fine Arts:
1. Grade-point average below 2.0 in the major.
2. Recommendation by major applied (studio) art, dance, music or theatre faculty with approval of respective department/school chairperson/director, or art education coordinator.

3. The department may recommend probationary status (rather than disenrollment) for one semester when academic progress is not maintained.

Contracts and Permission Procedures

Directed Studies Contracts:
All Directed Studies and other variable credit courses in the College of Fine Arts require contracts between students and instructors describing the work to be undertaken by the student and specifying the credit hours. These contracts are to be completed in quadruplicate signed by the student and the instructor and distributed to the department/school. A "I" grade may be assigned to this credit.

"S/U" Grade Contracts:
- Incompletes must be contracted for by mutual agreement between 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. The 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 "S/U" grade.

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

S/U Grading in the College

1. Non-majors enrolled in courses in the College of Fine Arts may undertake such courses on an S/U basis with instructor approval. See Contracts and Permission Procedures for information concerning S/U Grade Contracts.

2. Credits earned by a non-major student with an "S" grade will not count toward the student's minimum major course graduation requirement should that student ultimately decide to become a major student in one of the four departments in the College. Instead, such credits earned with an "S" grade will be assigned to the student's Free Elective category (with the exception of music which will become non-countable).

3. Although Fine Arts majors may take such courses on an S/U basis, 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 Academic Policies section for more information concerning the University's S/U Grading policy.

Dean's List Honors

See Academic Policies and Procedures, Programs and Services.

Interdisciplinary Study

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

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

PROGRAMS AND CURRICULA

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

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

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

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

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

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

Art Studio Concentration
(46 semester hours minimum)
1. 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 of all majors.
   ARH 4100 ARH 4350 ARH 4530
   ARH 4170 ARH 4433 ARH 4796
   ARH 4200 ARH 4450 ARH 4937
   ARH 4301
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 minimum 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 2201 C (4) ART 2203 C (4) ARH 3001 (4)
   Plus: Two 4 semester hour classes from 3000 studio level (8)
2. Art History Concentration:
   ART 2202 C (4) ART 2203 C (4) ARH 3001 (4)
   Plus: Two 4 semester hour classes from any of the following:
   ARH 4100 (4) ARH 4301 (4) ARH 4450
   ARH 4170 (4) ARH 4350 (4) (Required) (4)
   ARH 4200 (4) ARH 4430 (4) ARH 4530 (4)

Visiting Artists and Artist-In-Residence
The art department is widely known for the consistent level of excellence of its programs. Aside from the contributions of its permanent staff, and to insure the continuing expansion of learning opportunities available to students, the art department has brought to the campus internationally known artists and lecturers such as Alice Aycock, Linda Benglis, Jack Burnham, James Casebere, Robert Colescott, Michael Dvorak, Edward Fry, Adam Gopnik, The Gorilla Girls, Thomas Holt, Barbara Kuskit, Donald Leslie, Komart Melamid, Maslon Rigs, Miriam Shapiro, Patterson Sims, Robert Stackhouse, Sidney Tullum, Martha Wilson, Robert Zakanowich, and Ellen Zimmerman.

ART MUSEUM
The USF Contemporary Art Museum presents a schedule of changing contemporary exhibitions in the Museum (FAM), in the Teaching Gallery in the Fine Arts building (FAH), and in the lobbies of Theatres I and II.

The art collection of the University of South Florida is primarily focused on contemporary graphics, drawings and photographs with some African and Pre-Columbian artifacts. The prints and sculpture multiples in the collection were produced at USF's internationally recognized Graphicstudio established in 1968. Selections from this collection are loaned through the Art Bank program to museums and institutions throughout the United States.

The exhibition program focuses on contemporary American and European art and also showcases the work of faculty, students and alumni. The exhibitions and art collection serve as an integral part of the studio and art history curriculum of the Art Department and serve the students, staff and faculty of the university and Tampa Bay communities. Brochures and catalogues of major exhibitions are published by the Art Museum and includes scholarly critical essays by leading curators and scholars. Lectures, seminars, workshops and symposia on contemporary issues are presented regularly.

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

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 to study with visiting artists.

Requirements for the B.A. Degree
Performance Concentration
MODERN CONCENTRATION
(44 semester hours minimum)
   DAA 2204 Ballet II 3
   DAA 3700 Choreography I 2
   DAA 3105 Modern Dance III 3
   (Repeat for 6 cr. hrs.)
   DAA 3205 Ballet III 3
   DAA 3701 Choreography II 2
DAA 3480 Performance (Repeat for 2 cr. hrs.) 1
DAA 4106 Modern Dance IV (Repeat for 8 cr. hrs.) 4
DAA 4702 Choreography III 2
DAA 4703 Choreography IV 2
DAA 4790 Senior Project 1
DAN 2611 Music for Dance II 2
DAN 3590 Practicum in Dance Prod. I (Repeat for 2 cr. hrs.) 1
DAN 4111 Survey History of Dance 3
DAN 4112 19 & 20th Century Dance History 3
DAN 4170 Dance Senior Seminar 2
DAN 4906 Directed Study 1

BALLET CONCENTRATION
(44 semester hours minimum)
DAA 2104 Modern Dance II 3
DAA 3700 Choreography I 2
DAA 3105 Modern Dance III 3
DAA 3205 Ballet III 3
DAA 3220 Ballet Variations (Repeat for 6 cr. hrs.) 1
DAA 3480 Performance (Repeat 2 times) 1
DAA 3701 Choreography II 2
DAA 4702 Choreography III 2
DAA 4206 Ballet IV (Repeat for 8 cr. hrs.) 4
DAA 4790 Senior Project 1
DAN 2611 Music for Dance II 2
DAN 3590 Practicum in Dance Prod. I (Repeat for 2 cr. hrs.) 1
DAN 4111 Survey History of Dance 3
DAN 4112 19 & 20th Century Dance History 3
DAN 4170 Dance Senior Seminar 2
DAN 4906 Directed Study 1

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

Courses for lower level
Select from:
- Theatre Dance Styles DAA 2000 (2)
- Introduction to Dance  - 6A DAN 2100 (3)
- Fundamentals of Modern Dance I DAA 2100 (2)
- Modern Dance II DAA 2104 (3)
- Fundamentals of Ballet I DAA 2200 (2)
- Ballet II DAA 2204 (3)
- Fundamentals of Jazz Dance DAA 2500 (2)
- Music for Dance I DAN 2610 (2)
- Music for Dance II DAN 2611 (2)
- Dance Improvisation DAN 2704 (2)

Courses for Upper Level (minimum of 10 hours required)
Select from:
- Movement Theory & Body Alignment DAA 3800 (2)
- Modern Dance III DAA 3105 (3)
- Ballet III DAA 3205 (3)
- Ballet Variations DAA 3220 (1)
  1. Pointe Class
  2. Men's Class
  3. Character Dance
- Performance DAA 3480 (1)
- Jazz Dance DAA 3502 (2)
- Jazz Theatre Dance DAA 3503 (3)
- Practicum in Dance Production DAN 3590 (1)
- Choreography I DAA 3700 (2)
- Choreography II DAA 3701 (2)
- Survey History of Dance - 6A DAN 4111 (3)
- 19th & 20th Century Dance DAN 4112 (3)

Modern Dance IV DAA 4106 (4)
Ballet IV DAA 4206 (4)
The Teaching of Dance: Theory & Practice DAE 4300 (1)
Choreography III DAA 4702 (2)
Choreography IV DAA 4703 (2)
Selected Topics in Dance
  1. Massage for Dance
  2. Movement Lab

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, or Costume (3) is required of all dance majors and may apply toward Area II of the General Distribution Requirements, or non-major electives, or the 6 hour Special College Requirement.

Dance majors must enroll for 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 DAA 3480 Performance 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 perform in a work created by one of the seniors. Senior dance majors are required to choreograph a group work and perform a solo as a senior project.

Senior Project (DAA 4790) is designed to occur over two semesters.

Entrance to all major technique courses is by faculty audition. Until the student is accepted into Modern Dance III or Ballet III he/she will be considered as a probationary dance major. DAA 2104 or DAA 2204 may be repeated only once for credit toward degree requirements.

Prospective majors 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 each 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 after being placed on probation the following semester shall constitute grounds for Departmental recommendation to drop and discontinue the major.

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

Additional Standards
In addition to meeting the specific requirements and standards discussed above, the student and 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.

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

MUSIC (MUS)
The B.M. Degree (Performance, 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 areas. 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 which does not fulfill a requirement in the music major curriculum. Transfer students are required to take a similar placement test and enter at the appropriate level. Students may obtain dates and times for these examinations from the School of Music.

Academic programs offered include: Bachelor of Music degree with concentration in Performance (voice, jazz, piano, harp, guitar and orchestral instruments), Composition, Piano Pedagogy, and Jazz Composition.

General Requirements:
All students seeking a Bachelor of Music degree are required to (1) complete successfully the piano proficiency and music theory-history-literature requirements; (2) present a partial recital during the junior year (except composition majors); (3) present a full recital during the senior year (except music education majors); (4) present a record of satisfactory recital attendance through registration in MUS 2010 (see the specific requirements for MUS 2010 as set by the music faculty); Students must be enrolled in applied music studies during the semester of the recital. Other procedures are mandated through the student handbook of the School of Music. Exceptions to all departmental procedures must be authorized through the Director of the School of Music.

Promotion to the next higher level in applied music is made only upon the recommendation of a performance jury conducted by that concentration’s faculty. Where appropriate for the degree, the student is required to complete a minimum of two semesters, but no more than three semesters at the 2000 or 3000 level of applied music. Failure to complete these levels within the three semester maximum brings automatic dismissal from the program. Students may repeat the 4000 level as necessary to fulfill the total credit hour requirement (3000 level for composition or music education). Credit for only 2 semesters of applied music at the 1000, 2000, or 3000 levels will be applied toward the degree.

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

Music Theory (22)

MUT 1111 (3) MUT 2116 (3) MUT 4571 (3)
MUT 1112 (3) MUT 2117 (3) MUT 4562 (2)
MUT 1241 (1) MUT 2246 (1) MUT 3533 (3)
MUT 1242 (1) MUT 2247 (1) MUT 3554 (3)

Music Literature (3)

MUT 2111 (3)

Music History (8)

MUH 3300 (2) MUH 3301 (3) MUH 3302 (3)

Senior Seminar (1)
MUT 4935 (1)

Major Seminar (1)
MUT 4936 (1)

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

Music Electives

Performance Concentration 10 hours
Piano Pedagogy Concentration 4 hours
Composition Concentration 10 hours

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

Music Theory (26)

MUT 1111 (3) MUT 2116 (3) MUT 3641 (2)
MUT 1112 (3) MUT 2117 (3) MUT 3642 (2)
MUT 1241 (1) MUT 2246 (1) MUT 3533 (3)
MUT 1242 (1) MUT 2247 (1) MUT 3554 (3)

Music Literature (3)

MUT 2111 (3)

Music History (11)

MUH 3300 (2) MUH 3301 (3) MUH 3302 (3)

Senior Seminar (1)
MUT 4935 (1)

Elective Hours in Music (9)

Major Ensemble: Performance (8), Composition (4)
All students enrolled in applied music for 4 or 2 hours are required to enroll in a major ensemble appropriate to their performing medium.

Additional Requirements for Specific Concentrations:

Performance Concentration
A total of 32 credit hours of applied music major is required with a minimum of 8 hours to be completed at the 4000 level and concurrent registration in MUS 2101 (Recital Attendance).

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

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

Piano Pedagogy Concentration
(86 semester hours minimum):
The following requirements for the piano pedagogy concentration are in addition to the above performance concentration requirements:

Piano Pedagogy (8)
MVK 4640 (4) MVK 4641 (4)

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

Jazz Studies-Performance Concentration
The following courses are required in addition to the core requirements:

MUT 3663 (2) MUT 3664 (2)

Applied music (major) through the 3000 level (min. of 24 hours).
In addition to the major instrument, Jazz Bass and Jazz Guitar majors are required to enroll for 4 credits in the corresponding double bass or classical guitar applied music lessons in addition to the major applied studies.

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

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

Note exceptions applicable to this program.

1. **Institutional Specialization (72 cr. hrs.)**

   **Music Education courses (20 cr. hrs.)**
   
   MUE 2090 (2) MUE 3450 (1)* MUE 4311 (3)
   MUE 3421 (1) MUE 3451 (1) MUE 4321 (2)
   MUE 3422 (1, 1) MUE 3460 (1)* MUE 4332 (3)
   MUE 3423 (1, 1) MUE 3461 (1) MUE 4480 (2)

   - Not required of woodwind majors
   - *Not required of brass majors

   **Music courses (min. 52 cr. hrs.)**
   
   MUT 1111 (3) MUT 2117 (3) MUH 3300 (2)
   MUT 1112 (3) MUT 2246 (1) MUH 3301 (3)
   MUT 1241 (1) MUT 2247 (1) MUH 3302 (3)
   MUT 1242 (1) MUT 2111 (3) MUG 3101 (2)
   MUT 2116 (3)

   **Applied Music (Principal) 12 cr. hrs. with a minimum of 4 hours at the 3000 level and concurrent registration in MUS 2010.**

   **Music electives (2)**
   
   Applied Music Secondary Techniques - (3 cr. hrs.)
   (One each: string, percussion, voice)

   Major performing ensembles
   
   (Minimum of one per semester of applied music - 6 cr. hrs.)

   **Graduating recital**

   **Piano proficiency requirement**

   **Other Fine Arts Requirement**

   **Art, Dance, Theatre (min. 3 cr. hrs. to be selected from one or more of the other departments of the College of Fine Arts)**

2. **Vocal Specialization (72 cr. hrs.)**

   **Music Education courses (16 cr. hrs.)**
   
   MUE 2090 (2) MUE 3423 (1) MUE 3452 (2)
   MUE 3421 (1, 1) MUE 3450 (1) or 3451 (1)*
   MUE 3422 (1) MUE 3460 (1) or 3461 (1)*
   MUE 3431 (3) MUE 3431 (1)

   One hour courses must be repeated to achieve 16 cr. hrs.
   *As determined by audition.

   **Music courses (min. 56 cr. hrs.)**
   
   MUT 1111 (3) MUT 2116 (3) MUL 3301 (3)
   MUT 1112 (3) MUT 2217 (3) MUH 3300 (2)
   MUT 1241 (1) MUT 2247 (1) MUH 3301 (3)
   MUT 1242 (1) MUT 2247 (1) MUH 3302 (3)
   MUG 3101 (2)

   **Applied Music (Principal) 12 cr. hrs. through with a minimum of 4 hours at the 3000 level and concurrent registration in MUS 2010.**

   **Applied Music Secondary Techniques (2 cr. hrs.)**
   (one each: string, percussion)

   **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)**

3. **General Music Specialization (72 cr. hrs.)**

   **Music Education courses (16 cr. hrs.)**
   
   MUE 3460 (1) or MUE 3461 (1)*
   MUE 3450 (1) or MUE 3451 (1)*
   MUE 2090 (2)
   MUE 3421 (1) MUE 3431 (3)
   MUE 3422 (1) MUE 4330 (3)
   MUE 3423 (1) MUE 4352 (2)

   One hour practicum courses must be repeated to achieve 16 cr. hrs.
   *As determined by audition.

---

**Jazz Studies-Composition Concentration**

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

- MUC 4241 (6)
- MUC 3231 (6)
- MUC 2221 (6)

Applied music (principal) with a minimum of 4 hours at the 2000 level (min. of 8 hrs.)

In addition to the principal applied music study, Jazz Bass and Jazz Guitar majors are required to enroll for 2 credits in the corresponding double bass or classical guitar applied music lessons in addition to the principal applied studies.

- **Jazz piano proficiency**
- **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: (a) a complete public performance of works by the student composer, (b) the public performance of several compositions in various concerts throughout the composer's senior year, (c) the formal presentation to the composition faculty of an extensive portfolio of compositions plus the public performance of at least one of these works during the senior year, or (d) in other ways designated by the composition faculty.

- **Major Ensemble (4)**
  - All undergraduate students enrolled in applied music for 2 credit hours are required to be enrolled concurrently in a major ensemble appropriate to their performing medium.

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

**Composition Courses (30)**

Undergraduates concentrating in composition must complete a minimum of 24 credit hours from the following sequence of courses including MUC 3402, and at least one semester of MUC 4204, satisfying all necessary prerequisites for all courses:

- MUC 2221 (3, 3) MUC 3401 (3) MUT 4311 (2)
- MUC 3231 (3, 3) MUC 3402 (3) MUT 4312 (2)
- MUC 4241 (3)

And a minimum of 5 hours selected from:

- MUC 2301 (2) MUC 3601 (3) MUC 4404 (3)
- MUC 3441 (3) MUC 3602 (3) MUC 4501 (2)
- MUC 3442 (3) MUC 4403 (3) MUT 3353 (3)

For other degree requirements for all the above concentrations, see Fine Arts College requirements and the University's General Distribution and graduation requirements.

**MUSIC EDUCATION**

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

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

All students seeking a degree in music education are required to pass an audition in their respective performance area and to take a music theory placement test prior to registering for any music theory class. Students who do not pass the diagnostic test will be placed in a music fundamentals course which does not fulfill a requirement in the music major curriculum. All transfer students are required to take a theory/placement test and enter at the appropriate level of study. Students may obtain the dates for these examinations from the music office.

Special requirements for all music education majors: successful completion of the piano proficiency requirements as defined by the music and music education faculties; participation in a major performing ensemble each semester the student is enrolled in applied music; and the presentation of a one-half hour recital in the major performing medium during the last semester of enrollment in applied music.
Music Courses (min. 56 cr. hrs.)

- MUT 1111 (3) MUT 2116 (3) MUL 2111 (3)
- MUT 1112 (3) MUT 2117 (3) MUH 3300 (2)
- MUT 1241 (1) MUT 2246 (1) MUH 3301 (3)
- MUT 1242 (1) MUT 2247 (1) MUH 3302 (3)
- MUG 3101 (2)

Applied Music: 12 cr. hrs. with a maximum of 4 hours at the 3000 level and concurrent registration in MUS 2010.

Applied Music Secondary Techniques (3 cr. hrs.)

(one each: string, percussion, voice)

Major Electives (minimum of one per semester of applied music - 6 cr. hrs.)

Major Electives (7)

- Piano proficiency requirement
- Graduating recital

Other Fine Arts requirements:

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

   a. Music Theory
   b. Introduction to Music Literature
   c. Or
   d. Music History

2. Optional Concentrations:

   a. History-Theory-Literature 9-10 hours
   b. Applied Music (Principal) 8-12 hours
   c. Performance Studio courses which may include up to 2 semester hours of class-studio
   d. MUS 2010 Recital Attendance concurrent with applied music (principal) registration.
   e. Faculty jury recommendations for sophomore-level studio study (minimum)
   f. Composition 9 hours
   g. Introduction to Electronic Music (2)
   h. Composition Studio courses which may include one course of orchestration (6)
   i. Music Ensemble (1)

3. Admission to all studio applied music courses is by audition and/or permission of the instructor. Studio courses may be repeated for credit as stipulated in the catalog.

The Faculty:

The music faculty is made up of a collection of outstanding musicians and scholars whose talents and achievements provide a unique educational resource for all music students. Faculty ensembles such as the Arts Nova Quartet, the Faculty Jazz Quartet, and the Metropolitan Arts Trio provide an important musical contribution to campus and Tampa area cultural life, and many music faculty perform in professional music ensembles in west central Florida.

Student Organizations:

Sigma Alpha Iota, Phi Mu Alpha Sinfonia, and Pi Kappa Lambda honor society music organizations maintain active chapters in the School of Music. Additionally, chapters of the College Music Educators National Conference and International Association of Jazz Educators provide an important liaison with other professional musicians and teachers.

Financial Aid:

A significant number of students studying in the School of Music qualify for some degree of financial assistance. Financial aid is offered on the basis of talent, academic promise, and need. Students awarded financial assistance from the School of Music need not pursue a degree in music, but must follow specific guidelines concerning the awarding of monetary assistance. These guidelines are available from the chairperson of the Scholarship Committee. Write to the School of Music for specific dates each year.

In addition to general university and School of Music scholarships, there are a number of donated awards. Among these are the Dawn Zimmerman Flute Scholarship, Mary Corey Bogdonas Scholarship, Steve Penovitch Scholarship, Marjorie Roe Cello Scholarship, Zbar Piano Award, and the Virginia A. Bridges Music Education Award.

Visiting Artists and Artists-in-Residence

The School of Music utilizes guest composers, conductors, and performing musicians to enhance its offerings in terms of teaching faculty, forum appearances, and the conducting of musical programs, symposia, and clinics. Some prominent musicians who have appeared in the past are: Norman Dello Joio, Olly Wilson, Randall Thompson, Guarneri String Quartet, Virgil Thompson, Beaux Arts Trio, Walter Trampler, Boris Goldovsky, Fred Hemke, Greg Smith, Lukas Foss, Norman Luboff, Maurice Andre, Phil Woods, Jean Pierre Rampal, David Baker, Adele Adison, John Cage, Byron Janis, Karel Husa, Louis Bellson, Leslie Bassett, David Samuels, Samuel Adler, Julius Baker, Gunther Schuller, Ransom Wilson, Robert Merrill, T. J. Anderson, Doc Severinsen, Hale Smith, Bethany Beardse, George Russell, Robert Shaw, Art Blakey, Toshiko Akiyoshi, Andret Watts, Christopher Hogwood.

THEATRE (TAR)

The Department Major:

Through its curriculum and production program, the Department of Theatre offers seriously interested students the opportunity to prepare themselves for 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 selects one of the following areas of study: Performance, Design, Theatre Arts, or Theatre Education. To allow for greater preparation in design, a Bachelors of Fine Arts degree is in effect offered. The department also offers a minor in Theatre. For advanced upper level students a Theatre Honors Program of specialized courses is offered, often involving guest artist residencies.

Through the production program, which includes a variety of performances for the university community and the general public, the student is encouraged to participate in all aspects of theatre practice. The Department also offers opportunities to the advanced student to work with visiting professional companies.

Visiting Artists and Artists-in-Residence:

TheatreUSF actively promotes guest artists on campus. A partial list of the internationally known artists and the theatres with which they are affiliated includes: Edward Albee, Marge Barstow, Joseph Chaiken, Daniel Chrum, Henry H. D. Flowers, Christopher Fry, John and Lisel Gale, Patrick Garland, Miriam Goldina, Boris Goldovsky, Henry Hewes, Jeff Jones, Bob Kelly, Mesrop Keshkenian, Michael Kirby, Arthur Lithgow, Marcel Marceau, Siobhan McKenna, Sam Mendes, Bob Mooy, Eric Overmyer, Estelle Parsons, Olga Petrowka, Ben Piazza, Sergei Ponomaroff, Alan Schneider, Doug Watson, and ABE and Gordon. These and others have helped the department develop relationships with: 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, the BBC, the London Academy of Music and Dramatic Art, the Working Theatre, Coventry's Belgrade Theatre, The Deutsches Theatre, Free Theatre of Munich, The Polish Theatre, The Chichester Festival, The Edinburgh Festival and The Spoleto Festival.
Requirements for the B.A. Degree with a major in Theatre

Of the total 124 credit hours needed for graduation in the Performance, Design, or Theatre Arts areas, the student following a Performance area must take a minimum of 54 credit hours, and the student following the Design area or Theatre Arts area must take a minimum of 55 credit hours within the Department of Theatre. In addition, a maximum of 11 credit hours (Performance) and a maximum of 10 credit hours (Design or Theatre Arts) may apply to the theatre electives area. Of the 137-140 total credit hours needed for graduation in the Theatre Education area, the student must take a minimum of 54 credit hours within the Department of Theatre and a maximum of 37-40 credit hours within the College of Education. The student may choose one of four areas for the B.A. degree: Performance, Design, Theatre Arts, or Theatre Education. Common to all is the following core:

Core Curriculum (35 hours)

First Year (11 credit hours)
THE 2020 Theatre Fundamentals
TPA 2200 Theatre Crafts: Stagecraft
TPP 2110 Voice-Body-Improvisation
Choice of one:
TPA 2223 Theatre Crafts: Lighting
TPA 2232 Theatre Crafts: Costume

Second Year (10 credit hours)
THE 3100 Theatre History
TPA 3004 Means of Visual Expression
TPP 3111 Workshop for Text Analysis

Third Year (8 credit hours)
Choice of two:
THE 4320 Theatre of Myth and Ritual
THE 4330 Shakespeare for the Theatre
THE 4360 19th Century Theatre Revolution
THE 4401 O'Neil and After
THE 4442 Comedy of the Classic and Neo-Classic Stage
THE 4480 Drama - Special Topics
plus 2 credits of THE 3925 for Pl* 

Fourth Year (6 hours)
Choice of one:
THE 4180 Theatre Origins
THE 4562 Senior Colloquium
plus 2 credits of THE 4927 for Pl* 

*Theatre Crafts Lab: TPA 2200 Theatre Crafts Stagecraft, TPA 2223 Theatre Crafts Lighting, TPA 2232 Theatre Crafts Costume has a laboratory (LAB) in addition to the regularly scheduled class sessions. LAB guidelines are available in the Theatre Office.

*Production Involvements: All Theatre Majors must complete 4 Pl's (Production Involvements) as part of their graduation requirements. Pl's must be taken under THE 3925 Production Involvement and/or THE 4927 Advanced Production Involvement for a total of 4 Pl's. Students may register for Pl credit beginning in the second semester of the Sophomore year and are expected to register each consecutive semester until completion of the four involvements. Pl assignments are made by faculty committee following the student's completion of a Pl request form and registration in the course. Pl guidelines are available in the Theatre Office.

*Audition and Portfolio Review: All students desiring admittance into the Scene Study sequence must audition and those entering the upper level design sequence must present a portfolio.

Required Courses for Areas of Study:

Performance Area

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

Third Year (10 hours)
TPP 3500 Body Disciplines
TPP 3790 Voice Preparation
TPP 4150 Scene Study I
TPP 4152 Scene Study II

Fourth Year (9 hours)
TPP 4140 Styles of Acting
TPP 4180 Advanced Scene Study
TPP 4920 Senior Workshop for Actors

Design Area

(55 hours minimum with core) - 20 hours Theatre, 4 hours Art as follows:

Second Year (3 hours)
Complete Theatre Crafts sequence with TPA 2223 Lighting or TPA 2232 Costume
ART 3301C* Drawing I

*required in the Theatre Design Area, recommended to be taken upon completion of prerequisite TPA 3004 Means of Visual Expression

Third Year (9 credit hours)
TPA 4208 Stagecraft and Drafting
Choice of two depending on design concentration:
TPA 3221 Lighting: Theory and Practice
THE 4264 History of Costume
THE 4266 Architecture and Decor

Fourth Year (8 credit hours)
Choice of 2 depending on design area:
TPA 4020 Light Design
TPA 4040 Costume Design
TPA 4060 Scene Design

Theatre Arts Area

The Theatre Arts area is intended for the student who, in consultation with the Theatre Advisor, wishes to construct his/her own degree program from a broad spectrum of theatre courses. In addition to courses in performance and design, areas of study available are Puppetry, Playwriting, Stage Management, Directing, Literature and Criticism.

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

Two credit hours from any of the Performance sequence of courses (TPP) plus eighteen hours to be selected from the Theatre Department's course offerings.

Theatre Education Area

The Theatre Education area prepares students for the Florida Drama Teaching Certification exam for Grades 6-12. In addition to Department of Theatre requirements students must meet the College of Education's upper level entrance requirements and complete 37-40 credit hours in Education.

(54 hours minimum with core in Theatre Department)

Note to students: The curriculum for this program is currently being revised. Students are responsible for getting a copy of the revised program during the 1994/95 academic year. It is each student's responsibility to keep a copy of the revision to refer to for their graduation requirements under this catalog.

Freshman Lab and 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 Pl's before they are approved for graduation. The Pl'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 Theatre Fundamentals
TPA 2200 Theatre Crafts: Stagecraft
TPP 2110 Voice-Body-Improvisation
THE 3925  Production Involvement
THE 4927  Advanced Production Involvement
Choice of one:
TPA 2223  Theatre Crafts: Lighting
TPA 2232  Theatre Crafts: Costume
The remaining 10 hours are to be selected by the student with the advice of the theatre advisor. At least 9 hours must be upper level courses. The Theatre Advisor will be available to assist the student in developing a course of study that will meet the needs of the individual student.

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

All Theatre Minors must complete 2 Pl's (Production Involvement) as part of their graduation requirements. Pl'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 Pl credit in the second semester of the Sophomore year and are expected to register each consecutive semester until completion of two involvements.

Requirements for the B.F.A. Degree in Design:
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. Admission to the B.F.A. program is by portfolio presentation and acceptance by the Design 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:

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. (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.)

B.F.A. Design Coursework
7 hours in Creative Project and Execution:
THE 4905 or THE 5909 Directed Studies (Research & Design Creative Project)
7 hours in completion of third area of design and its prerequisite hours in the 9 hours in the following:
TPP 4310 Directing I
THE 4900 Directed Reading
Choice of one of the following:
TPP 4150 Scene Study I
TPP 4230 Lab Workshop in Performance
7 hours of additional electives of which 6 must be outside the Department of Theatre.

Honors Program
The Honors Program is available to upper level majors who have a 3.5 GPA in the major and a 3.2 overall GPA and who have achieved a comparably high level of artistic and/or scholarly achievement. A 6-8 credit one-year sequence of courses is offered to students accepted into the Honors Program. The sequence progresses from a reading seminar to a guest artist practicum to a student thesis or project:
THE 4593  2 credit hours
THE 4594  3 credit hours
THE 4595  1-3 credit hours
NEW COLLEGE OF USF

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. Enrollments 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 two semesters of academic leave during their tenure at New College without loss of scholarship support. By special petition and with summer study, exceptionally qualified students may complete the degree requirements in three years. All students must complete a senior thesis and pass a baccalaureate examination based upon the senior thesis.

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

Admissions Requirements

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

Applicants must submit a State University System application, New College supplementary application, official high school transcript, SAT or ACT scores, a graded research paper from an English or history class, teacher's recommendation, and counselor recommendation. 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 New College from Florida's two-year community colleges.

New College tuition is the same as for other institutions within the State University System.

Both need-based financial aid and achievement-based scholarships are available to New College students, and about 67% of the students receive some type of direct financial assistance. Students must apply for need-based aid and for USF scholarships. Achievement scholarships from the New College Foundation are awarded by the New College Admissions Office to those students the college believes will make an outstanding contribution to the New College community.

The New College Admissions Office processes applications on a rolling basis, with decisions beginning about January 15. Students applying for need-based financial aid must apply by February for the fall semester. Application forms and literature can be obtained from the New College Office of Admissions, 5700 N. Tamiami Trail, Sarasota, Florida 34243. Phone (813) 359-4269.

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.
The College of Nursing is committed to the improvement of nursing and health care services through its educational programs, community service, and research activities. In order to carry out its commitment in nursing education, the college offers an upper division program that leads to a Bachelor of Science degree with a major in nursing.

There are two sequences in the undergraduate program, one for qualified students with no previous preparation in nursing (basic students), and one for registered nurses, who are graduates of diploma or associate degree nursing programs. The basic sequence is designed so that students who have completed the prerequisite/support courses 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 registered nurse sequence is designed so that registered nurses can enroll in the nursing major on a full-time basis on the Tampa campus, or on a part-time basis on specific university campuses. Registered nurses who enroll as full-time students may complete requirements for the bachelor's degree in three semesters. If they enroll as part-time students, the degree requirements can be completed in five to six semesters.

The program is accredited by the National League for Nursing and approved by the Florida State Board of Nursing. Graduates of the basic sequence are eligible to write the qualifying examination for licensure as a registered nurse by the State of Florida Board of Nursing. Graduates also may apply for licensure in other states. Graduates of the undergraduate program have the educational background necessary for graduate study in nursing.

The College of Nursing encourages applications from qualified applicants of both sexes and from all cultural, racial, religious, ethnic, and age groups. The College of Nursing uses selective criteria for the admission of students. Limitations on enrollments are determined on the basis of availability of sufficient qualified faculty, laboratory and classroom facilities, and clinical teaching resources. Florida residents are given priority.

Philosophy of Nursing

Nursing is a profession and a discipline sanctioned by society. Its essential goal is health which is expressed within the context of personal, interpersonal and social systems. The focus for professional nursing is human beings interacting in a variety of environments for the purpose of pursuing health or a dignified death. Nursing is a transactional process which establishes mutually set goals with individuals, groups, families and communities for the purpose of promoting health, wellness, and caring for individuals, sick, healthy, injured, and dying. The complex intellectual processes used by nursing are perceiving, thinking, relating, judging, acting and interacting. These processes require the use of a scientific body of knowledge to assess, plan, implement, and evaluate nursing care.

Concepts which are the central focus for the practice of professional nursing are human beings, society, environment and health. Human beings are unique and holistic, and are characterized by open systems of transaction with their environment. They are perceptual; purposeful; action, time and goal oriented. Human beings communicate through their use of language and other symbols that reflect individual, group, and societal differences. Society encompasses individual, group, family and community values, norms and expectations. The United States is a pluralistic, democratic, dynamic society in continuous change as evidenced by increased technological advances. However, the freedom of individuals and groups is protected by the laws and the behavioral norms of this social system.

Environment is comprised of ecosystems which support the interactive process of the personal, interpersonal, and social systems. Nursing systems strive to promote, provide, and support healthy environments as an integral aspect of professional nursing practice. Health is viewed within the context of dynamic life experiences of individuals, groups, families, and communities. Health implies continuous adjustment to stressors and challenges in the internal and external environment through use of resources in order to achieve maximum potential for optimum functioning. Health is influenced by cultural, social, economic, genetic, political factors as well as value systems and religious beliefs. Human beings have the right to quality health care, the obligation to engage in health practices and the freedom to make informed decisions about their health, health practices, and health care.

Nursing care is an integral component of health care delivery. Professional nurses assume various roles which involve independent, collaborative, interdependent, and dependent functions. Professional nurses provide health services in a variety of complex systems and are accountable for these professional services based on (1) a body of knowledge which is continuously being refined and expanded through nursing research; (2) a Code of Ethics; (3) standards of practice as determined by the profession; and (4) the Nurse Practice Act. Professional nurses provide leadership through participation in professional and community organizations. As responsible citizens, nurses contribute to the promotion of quality health care by participation as knowledgeable members of society in activities that influence the health of individuals, families, groups and communities.

The discipline of nursing is an integral part of the system of higher education and is responsible for the development and dissemination of knowledge. The discipline is also responsible for promoting and preserving the historical and philosophical foundation of the profession. Knowledge is developed through identification of models for systematic thought; constructing and testing theories for nursing; and conducting research. The discipline disseminates knowledge for nursing through scholarly publications and presentations; and through curricula that prepare for entry into professional practice and for entry into areas of specialized practice and research. In these curriculums the teaching-learning process is a cooperative enterprise in which learners have the freedom to learn and teachers have the freedom to teach. Learning is viewed as a lifelong process of social, psychological, and intellectual growth essential for performing the functions of professional nursing.

UNDERGRADUATE PROGRAM

TERMINAL OBJECTIVES

UPON GRADUATION, GRADUATES WILL:
1. Use the nursing process as the basis for nursing practice in primary, secondary and tertiary care settings to assist individual clients, families or groups of clients of all cultures and ages in the promotion and maintenance of health, prevention of illness, coping with actual and perceived threats to health, restoration of health, habilitation, and rehabilitation.
2. Practice cooperatively with other health care professionals and community leaders in assessing community health needs and planning and providing essential services.
3. Practice within the legal/ethical parameters of professional nursing.
4. Utilize knowledge of concepts, principles, theories, and models underlying nursing practice to guide clinical decision making.
5. Utilize appropriate principles of leadership in providing leadership within the health care system of the profession.
6. Exercise clinical judgment needed to apply clinical data and research findings from nursing and related fields in nursing practice.

Undergraduate Education In Nursing

Qualified students with no previous preparation in nursing, and registered nurses who are graduates of associate degree or hospital programs are eligible for admission. The undergraduate program in nursing is an upper division major at the University of South Florida. The University's Liberal Arts requirements and College of Nursing prerequisites/support courses can be completed on the Tampa campus or at any local community college, university or college that offers the general education distribution. These can be completed prior to transfer to USF for the nursing major.
Admission Requirements

In order to be considered for full admission to the college, the applicant must:
1. Submit an application to USF by the appropriate deadline.
2. Submit an application and all supporting materials, including transcripts, to the College of Nursing by the appropriate deadline.
3. Maintain a minimum grade point average of 2.5 with a grade of "C" or better in each Liberal Arts course required for the major.
4. Complete prior to enrollment in the major all those Liberal Arts courses required for admission to the major.
5. Complete all Liberal Arts courses required for the major with no more than two (2) repeated courses and not more than one (1) repeat of any given course.
6. Complete the College Level Academic Skills Test (CLAST) and the writing and computational course requirements of 6A-10.30.
7. Complete an approved cardiopulmonary resuscitation (BCLS) course prior to enrollment.
8. Provide evidence of computer literacy.
9. Provide evidence of current licensure in Florida for enrolling in the program as a registered nurse.
10. Provide evidence of recent work in nursing if enrolling in the program as a registered nurse.

Conditional Admission Policy for Registered Nurses

RN students who have not completed their Liberal Arts requirements may be admitted conditionally to the College of Nursing. Students may enroll in selected nursing courses while completing these requirements. Nursing courses may be selected from the following:

- NUR 3105 Introduction to Professional Nursing
- NUR 3007 Nursing Process
- NUR 3065C Client Assessment I
- NUR 3706 Nursing Concepts in Secondary Care
- NUR 3706L Nursing Practicum I
- NUR 3826 Ethical/Legal Aspects in Nursing and Health Care
- NUR 4165 Introduction to Research
- Electives

The following courses are restricted to fully admitted students: NUR 4607, NUR 4607L, NUR 4827C, and NUR 4943L. Students who are admitted conditionally must satisfy written contract requirements before they are changed to full admission status.

Specific Course Requirements

The College of Nursing requires certain courses within the Liberal Arts requirements for the natural, social, and behavioral sciences, and mathematics. These requirements are outlined below. Suggested courses are also included. The student must:
1. earn a grade of "C" or better in each course,
2. repeat no course more than once,
3. repeat no more than two (2) courses.
4. Students who are admitted conditionally must satisfy written contract requirements before they are changed to full admission status.

Specific Course Requirements

Students who enroll at USF in the lower division are admitted to Undergraduate Studies. They must meet the requirements for admission to the University, and should follow the procedures for admission to the University in this Catalog.

Applications for admission to the University may be obtained by contacting the Office of Admissions, University of South Florida, Tampa, Florida 33620. College graduates and transfer students from other undergraduate nursing programs are also eligible for admission to the major on a space available basis. Transfer students may not be admitted to the College of Nursing unless they are eligible for admission to the University. Official transcripts certifying completion of all requirements for admission must be available to the College of Nursing before admission is confirmed and enrollment permitted.

Basic students are admitted in the Fall semester of each year. The deadline for University application is January 4 of the year in which the student plans to enroll. Applications are available from: Office of Admissions, University of South Florida, Tampa, Florida 33620: In addition, a separate application must be submitted directly to the College of Nursing by January 4 of the year in which the student plans to enroll. College applications are available from: College of Nursing, Office of Student Affairs, University of South Florida, Tampa, Florida 33612.

Registered nurse students are admitted to the College on a more flexible basis contingent upon completion of admission requirements, and the availability of the appropriate sequence of nursing courses on the campus to which they are seeking to pursue coursework. The deadline for receipt of an application from registered nurse students is January 4 for the fall semester and September 1 for the spring semester. For more specific information, contact the College of Nursing Office of Student Affairs.

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 Liberal Arts requirements as part of the above for freshmen admitted in Summer 1994. These requirements may be satisfied by the completion of the following:

- English 6
- Math* 6
- Algebra
- Statistics
- Fine Arts 3
- Natural Science* 17-20
  - Chemistry (6-8)
  - Nutrition (3)
  - Microbiology (3-4)
  - Anatomy/Physiology (5)
- Social Sciences 15-16
  - Life Cycle (3-4)
  - Psychology (3)
  - Sociology (3)
  - Economics (3)
  - Government/Policy (3)
- Historical Perspectives 6
- African, Latin American, Middle Eastern, Asian Perspectives 3
- Electives 4

3. Students with an A.A. degree (other than in nursing) will be considered to have met all of the USF Liberal Arts requirements but also must meet specific college requirements in the areas marked.

4. Students are required to meet the University requirement for foreign language.
Specific Course Requirements

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

2. Natural Sciences: minimum of 17 semester credits (including anatomy, physiology, and microbiology). Each course taken toward meeting this requirement must have been completed with a grade of "C" or better. At least one course must include a laboratory or have a corequisite laboratory course.
   a. Chemistry - A 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. CHM 2041, 2046 or "CHM 2030, 2031 can be partially met with CLEP. *Chemistry sequence for non-science majors.
   b. Microbiology - one course. CLEP is not acceptable. APB 3110 or MCB 3030C. The ACT/PEP examination in microbiology is acceptable.
   c. Anatomy and Physiology - one course. A combined course in anatomy and physiology which is equivalent to BSC 3092 is acceptable or individual courses. The ACT/PEP examination in anatomy and physiology is acceptable.
   d. Nutrition - one course. College of Nursing Challenge Examination or University of Florida correspondence course are acceptable. HUN 2201.

3. Social Sciences - completion of each of the following with a grade of "C" or better in each course.
   a. Government - once course in government/policy. CLEP is acceptable. POS 2041, POS 2112, PâD 3003, POT 4204, POS 4424, SYO 4300.
   b. Psychology, Sociology and Economics - one course. CLEP is acceptable.
   c. Human Growth and Development (Life Span) - one course. CLEP is acceptable.

These credits do not apply toward meeting the University requirement of 40 upper level credits, or toward meeting the requirements of the upper level nursing major. The credits earned by passing the ACT/PEP examinations in nursing apply only to the B.S. degree with a major in nursing offered by the College of Nursing. Additional information about the ACT/PEP examinations may be obtained from the Office of Evaluation and Testing, University of South Florida.

3. Registered nurses who are graduates of Florida associate degree programs will receive up to 23 semester lower level credits for their previous nursing education. Graduates of other associate degree nursing programs may receive up to 23 credits after individual evaluation of their transcripts.

4. Both basic and registered nurse students may earn up to 6 semester credits and fulfill the college's requirement in anatomy and physiology through successful completion of the ACT/PEP examination in anatomy and physiology, and up to 3 credits in microbiology through successful completion of the ACT/PEP examination in microbiology.

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 Liberal Arts requirements, science support courses (physical, biological, social and behavioral), upper level and nursing electives, and required nursing courses.

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

CLEP Examinations

In accordance with University policies, College Level Examination Program (CLEP) general and subject examinations may be taken in several areas. CLEP examinations must be taken according to the University or community college policies related to CLEP. The CLEP general examinations apply toward the distribution requirements at USF, and successful performance results in credits for any one or all of the required areas. In addition, credit may be earned for a number of College of Nursing support courses, including: American Government POS 2041; English Composition ENC 1101, 1102; Biology BSC 2010, BSC 2011; General Chemistry CHM 2041 and CHM 2046. Additional information may be obtained from the Office of Evaluation and Testing, University of South Florida.

ACT/PEP and College of Nursing Examinations

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

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

2. Registered nurses who are graduates of diploma programs may receive 23 semester general elective lower level credits through successful completion of the ACT/PEP examinations in nursing.

Nursing Courses - Basic Baccalaureate Sequence

Junior Year (2 semesters)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 3105</td>
<td>Introduction to Professional Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NUR 3615</td>
<td>Nursing Process I</td>
<td>3</td>
</tr>
<tr>
<td>NUR 3615L</td>
<td>Nursing Process I</td>
<td>3</td>
</tr>
<tr>
<td>NUR 3065C</td>
<td>Client Assessment I</td>
<td>2</td>
</tr>
<tr>
<td>NUR 3826</td>
<td>Ethical/Legal Aspects in Nursing and Health Care</td>
<td>2</td>
</tr>
<tr>
<td>NUR 3456</td>
<td>Nursing Process II</td>
<td>2</td>
</tr>
<tr>
<td>NUR 3456L</td>
<td>Nursing Process II</td>
<td>2</td>
</tr>
<tr>
<td>NUR 3535</td>
<td>Nursing Process III</td>
<td>2</td>
</tr>
<tr>
<td>NUR 3535L</td>
<td>Nursing Process III</td>
<td>2</td>
</tr>
<tr>
<td>NUR 3066C</td>
<td>Introduction to Community Health Nursing</td>
<td>2</td>
</tr>
</tbody>
</table>

Senior Year (3 semesters)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 4165</td>
<td>Introduction to Research</td>
<td>2</td>
</tr>
<tr>
<td>NUR 4285C</td>
<td>Nursing Process IV</td>
<td>1</td>
</tr>
<tr>
<td>NUR 4256</td>
<td>Nursing Process V</td>
<td>2</td>
</tr>
<tr>
<td>NUR 4256L</td>
<td>Nursing Process IV</td>
<td>2</td>
</tr>
<tr>
<td>NUR 3827</td>
<td>Leadership-Management Aspects in Community Health Nursing</td>
<td>2</td>
</tr>
<tr>
<td>NUR 4257</td>
<td>Nursing Process VI</td>
<td>2</td>
</tr>
<tr>
<td>NUR 4257L</td>
<td>Nursing Process V</td>
<td>2</td>
</tr>
<tr>
<td>NUR 4258</td>
<td>Nursing Process VII</td>
<td>2</td>
</tr>
<tr>
<td>NUR 4265</td>
<td>Nursing Process VIII</td>
<td>2</td>
</tr>
<tr>
<td>NUR 4837</td>
<td>Leadership/Management and Role Transition</td>
<td>3</td>
</tr>
<tr>
<td>NUR 4946L</td>
<td>Preceptorship</td>
<td>0.5</td>
</tr>
</tbody>
</table>

In addition to the requirements listed above, a minimum of 10 credits in upper level electives will be required for graduation: at least six (6) credits in upper level courses in Liberal Arts (courses in arts, humanities, natural or behavioral sciences, economics, business or management, education, etc., are acceptable) and at least four (4) credits in nursing electives (NUR 4935, Selected Topics in Nursing, and/or NUR 4905C, Independent Study in Nursing, can be used in addition to regularly approved electives. Students graduating through April 1996 must meet the above requirements).
### Nursing Courses - Registered Nurse Sequence

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 3007</td>
<td>Nursing Process</td>
<td>2</td>
</tr>
<tr>
<td>NUR 3826</td>
<td>Ethical-Legal Aspects of Nursing and Health Care</td>
<td>2</td>
</tr>
<tr>
<td>NUR 3105</td>
<td>Introduction to Professional Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NUR 3065C</td>
<td>Client Assessment I</td>
<td>1</td>
</tr>
<tr>
<td>NUR 3706</td>
<td>Nursing Concepts in Secondary Care</td>
<td>4</td>
</tr>
<tr>
<td>NUR 3706L</td>
<td>Nursing Practicum I</td>
<td>2</td>
</tr>
<tr>
<td>NUR 4165</td>
<td>Introduction to Research</td>
<td>2</td>
</tr>
<tr>
<td>NUR 4607</td>
<td>Nursing Concepts in Primary Care</td>
<td>4</td>
</tr>
<tr>
<td>NUR 4607L</td>
<td>Nursing Practicum II</td>
<td>3</td>
</tr>
</tbody>
</table>

In addition to the requirements listed, a minimum of 10 credits in upper level electives is required for graduation: at least six (6) credits in upper level courses in Liberal Arts (courses in arts, humanities, natural or behavioral sciences, economics, business or management, education, etc., are acceptable) and at least four (4) credits in nursing electives (NUR 4935, Selected Topics in Nursing and/or NUR 4905C, Independent Study in Nursing can be used in addition to regularly approved electives).
The College of Public Health began offering courses in 1984 and is fully accredited by the Council on Education for Public Health. The primary aim of the College is to provide trained health professionals who can meet the pressing health needs of the State and nation. The College also serves as a State center for public health research and information. Often cited as a bellwether state, due in part to its diverse population, Florida serves as an excellent environment for studying current and emerging health care issues.

The field of public health is broad. It focuses upon the prevention of illness, the control of infectious and chronic diseases and the methods for providing care to targeted populations such as those faced with geographic, financial, cultural and other access barriers.

Public health is concerned with keeping health care costs down and finding cost-effective ways to deal with the medically indigent population. It serves to address environmental issues as they affect populations as well as health and safety in the workplace.

Despite this diversity, the common focus of public health education is on preventing disease and promoting health in populations.

The Department of Community and Family Health offers an accelerated entry program which enables qualified students to enter the Master of Public Health (MPH) degree program with a concentration in Public Health Education following the completion of 90 semester hours of undergraduate study (usually the end of the junior year). It is recommended that students enroll in undergraduate programs related to the field of public health. These programs include social sciences, natural sciences, behavioral sciences, pre-med, nursing, education, etc. Full-time students are able to complete graduate degree requirements in 2 to 2-1/2 years. Interested individuals are encouraged to contact a health education faculty advisor during the term in which they expect to complete 60 undergraduate semester hours.

The MPH is a professional, non-thesis degree. The course of study is designed to prepare professional health educators to develop, implement, manage and evaluate programs which focus on health promotion and disease prevention. Individual and public health issues encompass the interrelationships of social, behavioral, legal, medical and economic factors. Therefore, the program emphasizes a multidisciplinary approach of developing strategies for the efficient utilization of health services, the adoption of self-care practices, and the promotion of healthier lifestyles. Career opportunities are available in a variety of work settings including hospitals and ambulatory care facilities, health maintenance organizations, voluntary health agencies, public and private school systems, colleges and universities, local and state health agencies, private industry and international health organizations.

Students seeking admission to the MPH degree program must have completed 90 undergraduate semester hours, achieved at least a 3.0 GPA, earned a combined verbal and quantitative score of at least 900 on the GRE, and satisfied the CLAST and Rule 6A-10.3 requirements.

Undergraduate students seeking careers in public health including Health Administration and Management, Environmental Health, Industrial Hygiene, Safety Management, Health Education, Maternal and Child Health, Epidemiology and Biostatistics should refer to the USF Graduate Catalog in order to plan an undergraduate program that will meet the College of Public Health admission requirements for graduate work.

Students interested in these programs should contact the Office of Academics at the College of Public Health for specific information, 974-6665.
COURSE DESCRIPTIONS

University of South Florida - 1994/95 Undergraduate Catalog

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

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

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

PHY 3040, 3041L, General Physics & Laboratory (3:1)

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

AMH 2010, 2020 American History I, II

Credits separated by a hyphen indicate variable credit:

HUM 4905 Directed Research (1-5)

The abbreviation "Var." also indicates variable credit:

MAT 7912 Directed Research (Var.)

The following abbreviations are utilized in various course descriptions:

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

SPECIAL INFORMATION COURSE CODES

6A - Courses to satisfy Rule 6A-10.30 (Gordon Rule)
EC - Course fulfills part of the Liberal Arts General Education Requirement for English Composition
FA - Course fulfills part of the Liberal Arts General Education Requirement for Fine Arts
HP - Course fulfills part of the Liberal Arts General Education Requirement for Historical Perspectives
NS - Course fulfills part of the Liberal Arts General Education Requirement for Natural Sciences
NW - Course fulfills part of the Liberal Arts General Education Requirement for African, Latin American, Middle Eastern, or Asian Perspectives
QM - Course fulfills part of the Liberal Arts General Education Requirement for Qualitative Methods
SS - Course fulfills part of the Liberal Arts General Education Requirement for Social Sciences
XLW - Course fulfills part of the Liberal Arts Exit Requirement for Literature and Writing
XMW - Course fulfills part of the Liberal Arts Exit Requirement for Major Works and Major Issues

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

Alphabetical Listing of Departments and Programs

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

Department/Program - College
Accounting - Business Administration
Administration/Supervision - Education
Adult Education - Education
African Studies - Arts and Sciences
Air Force ROTC - University-wide Courses
American Studies - Arts and Sciences
Ancient Studies (Religious Studies) - University-wide Courses
Anthropology - Arts and Sciences
Arabic (Language) - Arts and Sciences
Army ROTC - Fine Arts
Art - Education
Art Education - Arts and Sciences
Astronomy - Nursing

Basic and Interdisciplinary Engineering - Engineering
Biological - Arts and Sciences
Botany (Biology) - Arts and Sciences
Business and Office Education - Education
Chemistry - Arts and Sciences
Chemical Engineering - Engineering
Chinese (Language) - Arts and Sciences
Civil Engineering and Mechanics - Engineering
Classics - Business Administration
Common Body of Knowledge - Arts and Sciences
Communication - Arts and Sciences
Communication Science and Disorders - Education
Computers in Education - Engineering
Computer Science and Engineering - Engineering
Computer Service Courses - University-wide Courses
Cooperative Education - Education
Content Specializations - Fine Arts
Counselor Education - Education
Criminology - Arts and Sciences
Curriculum and Instruction - Education
Dance - Fine Arts
Distributive and Marketing Education - Education
Economics - Business Administration
Electrical Engineering - Engineering
Elementary Education - Education
Engineering Technology - Engineering
English - Arts and Sciences
English Education - Education
Finance - Business Administration
Foreign Language Education - Education
Foundations Education - Education
French (Language) - Arts and Sciences
General Business Administration - Business Administration
General Foreign Languages - Arts and Sciences
Geography - Arts and Sciences
Geology - Arts and Sciences
Gerontology - Arts and Sciences
German (Language) - Arts and Sciences
Government & International Affairs - Arts and Sciences
Greek (Classics) - Arts and Sciences
Hebrew (Language) - Arts and Sciences
Higher Education - Arts and Sciences
History - Education
Honor's Program - University-wide Courses
Humanities - Arts and Sciences
Humanities Education - Education
Human Services - Arts and Sciences
Industrial and Management Systems - Engineering
Industrial/Technical Education - Education
Information Systems & Decision Sciences - Business Administration
Interdisciplinary Studies - Arts and Sciences
International Social Studies - Arts and Sciences
Italian (Language) - Arts and Sciences
Japanese (Language) - Arts and Sciences
Language - Arts and Sciences
Latin (Classics) - Arts and Sciences
Liberal Studies - Arts and Sciences
Library, Media & Information Studies - Arts and Sciences
Linguistics - Arts and Sciences
Management - Business Administration
Marine Science - Arts and Sciences
Marketing - Business Administration
Mass Communications - Arts and Sciences
Mathematics - Arts and Sciences
Mathematics Education - Arts and Sciences
Measurement and Research - Arts and Sciences
Medical Engineering - Engineering
Medical Technology - Engineering
Microbiology (Biology) - Engineering
Military Science - Engineering
Music - Fine Arts
Music Education - Education
Nursing - Fine Arts

University-wide Courses - Fine Arts
Education, Fine Arts - Fine Arts

### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA - 1994/95 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Off-Campus Term</th>
<th>University-wide Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philosophy</td>
<td>Arts and Sciences</td>
</tr>
<tr>
<td>Physical Education Elective</td>
<td>Education</td>
</tr>
<tr>
<td>Physical Education for Teachers</td>
<td>Arts and Sciences</td>
</tr>
<tr>
<td>Physics</td>
<td>Arts and Sciences</td>
</tr>
<tr>
<td>Polish (Language)</td>
<td>Arts and Sciences</td>
</tr>
<tr>
<td>Political Science</td>
<td>Arts and Sciences</td>
</tr>
<tr>
<td>Portuguese (Language)</td>
<td>Arts and Sciences</td>
</tr>
<tr>
<td>Psychology</td>
<td>Arts and Sciences</td>
</tr>
<tr>
<td>Public Administration</td>
<td>Arts and Sciences</td>
</tr>
<tr>
<td>Public &amp; Community Health Education</td>
<td>Public Health</td>
</tr>
<tr>
<td>Reading Education</td>
<td>Education</td>
</tr>
<tr>
<td>Rehabilitation Counseling</td>
<td>Arts and Sciences</td>
</tr>
<tr>
<td>Religious Studies</td>
<td>Arts and Sciences</td>
</tr>
<tr>
<td>Romance (Language)</td>
<td>Arts and Sciences</td>
</tr>
<tr>
<td>Russian (Language)</td>
<td>Arts and Sciences</td>
</tr>
<tr>
<td>Social Science Education</td>
<td>Education</td>
</tr>
<tr>
<td>Social Sciences, Interdisciplinary</td>
<td>Arts and Sciences</td>
</tr>
<tr>
<td>Social Work</td>
<td>Arts and Sciences</td>
</tr>
<tr>
<td>Sociology</td>
<td>Arts and Sciences</td>
</tr>
<tr>
<td>Spanish (Language)</td>
<td>Arts and Sciences</td>
</tr>
<tr>
<td>Special Education</td>
<td>Education</td>
</tr>
<tr>
<td>Theatre</td>
<td>Fine Arts</td>
</tr>
<tr>
<td>Women's Studies</td>
<td>Arts and Sciences</td>
</tr>
<tr>
<td>Yoruba (Language)</td>
<td>Arts and Sciences</td>
</tr>
<tr>
<td>Zoology (Biology)</td>
<td>Arts and Sciences</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>College/Department/Program</th>
<th>Common Course Prefixes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>University-wide Courses</strong></td>
<td></td>
</tr>
<tr>
<td>Air Force ROTC</td>
<td>AFR</td>
</tr>
<tr>
<td>Architecture</td>
<td>ARC</td>
</tr>
<tr>
<td>Cooperative Education</td>
<td>COE</td>
</tr>
<tr>
<td>Honors Program</td>
<td>IDH</td>
</tr>
<tr>
<td>Military Science (Army ROTC)</td>
<td>MIS</td>
</tr>
<tr>
<td>Off-Campus Term</td>
<td>OCT</td>
</tr>
<tr>
<td>Public Health</td>
<td>HSC</td>
</tr>
<tr>
<td><strong>College of Arts and Sciences</strong></td>
<td></td>
</tr>
<tr>
<td>Africana</td>
<td>AFA, AFH, AFS</td>
</tr>
<tr>
<td>American Studies</td>
<td>AMS, PGY</td>
</tr>
<tr>
<td>Anthropology</td>
<td>ANT, MUH</td>
</tr>
<tr>
<td>Astronomy</td>
<td>AST</td>
</tr>
<tr>
<td>Biology</td>
<td>BSC, PCB</td>
</tr>
<tr>
<td>Botany</td>
<td>BOT</td>
</tr>
<tr>
<td>Chemistry</td>
<td>BCH, CHM, CHS</td>
</tr>
<tr>
<td>Classics</td>
<td>CLA, CLT</td>
</tr>
<tr>
<td>Greek</td>
<td>GRE, GRW</td>
</tr>
<tr>
<td>Latin</td>
<td>LAT, LNW</td>
</tr>
<tr>
<td>Clinical Chemistry</td>
<td>CHC</td>
</tr>
<tr>
<td>Communication</td>
<td>COM, ORI, SPC</td>
</tr>
<tr>
<td>Communication Sciences &amp; Disorders</td>
<td>SPA</td>
</tr>
<tr>
<td>Criminology</td>
<td>CCI, CJT</td>
</tr>
<tr>
<td>Economics</td>
<td>ECI</td>
</tr>
<tr>
<td>English</td>
<td>AMI, CRW, ENC, ENG, ENL, LAE, LIN, LIT, REA</td>
</tr>
<tr>
<td>General Biology</td>
<td>BSC</td>
</tr>
<tr>
<td>Geography</td>
<td>GEA, GEO, MET, URF</td>
</tr>
<tr>
<td>Geology</td>
<td>GLY</td>
</tr>
<tr>
<td>Gerontology</td>
<td>GEY, HUS</td>
</tr>
<tr>
<td>Government &amp; International Affairs</td>
<td>INR</td>
</tr>
<tr>
<td>International Studies</td>
<td>INR</td>
</tr>
<tr>
<td>Political Science</td>
<td>CPO, INR, POS, POT, PUP, URP</td>
</tr>
<tr>
<td>Public Administration</td>
<td>PAD</td>
</tr>
<tr>
<td>History</td>
<td>AMH, EHU, HIS, LAH</td>
</tr>
<tr>
<td>Humanities</td>
<td>HUM</td>
</tr>
<tr>
<td>Interdisciplinary Natural Sciences</td>
<td>INS</td>
</tr>
<tr>
<td>Interdisciplinary Social Sciences</td>
<td>ISS, STA</td>
</tr>
<tr>
<td>Language</td>
<td>FOL</td>
</tr>
<tr>
<td>General Foreign Languages</td>
<td>ARA</td>
</tr>
<tr>
<td>Arabic</td>
<td>CHI</td>
</tr>
</tbody>
</table>

**French** | FRE, FRW |
**German** | GER, GEW |
**Greek** | GRK |
**Hebrew** | HBR |
**Italian** | ITA, ITW |
**Japanese** | JPN |
**Polish** | POL |
**Portuguese** | POR |
**Russian** | FOW, RUT |
**Spanish** | SPN, SPW, SPT |
**Yoruba** | YOR |

**Liberal Studies** | IDS |
**Library & Information Science** | ADV, JOU, MMC, PGY, PUR, RTV, VIC |
**Linguistics** | OCE |
**Mass Communications** | CGS, COP, MAA, MAC, MAD, MAE, MAP, MAS, MAT, MG, MGHG, MTG, STA |
**Medical Technology** | MLS |
**Microbiology** | MCB |
**Philosophy** | PHH, PHI, PHM, PHP |
**Physics** | PHY, PHZ |
**Psychology** | CBH, CLP, DEP, EXP, INP, PPE, PSB, PSY, SOP |
**Rehabilitation Counseling** | RCS |
**Religious Studies** | CLA, GRE, HEB, REL |
**Ancient Studies** | CLA, HEB |
**Science** | SCE* |
**Sociology** | SYA, SYD, SYG, SYO, SYP |
**Social Science Education** | SOW |
**Social Work** | WST |
**Women's Studies** | BSC, ENV, PBC, ZOO |

**College of Business Administration**

Accounting | ACG, TAX |
Common Body of Knowledge | GEB |
(Graduate) Economics | ECO, ECP, ECS, GEB |
Finance | FIN, RIE, RMI |
General Business Administration | BUL, CGS, ROC, GEB, MAN |

Information Systems & Decision Sciences | COC, CGS, GEB, QMB |
Management | MAN, QMB |
Marketing | MAR |

**College of Education**

Administration/Supervision | EDA, EDS |
Adult Education | ADE, PEP, PET |
Art Education | ARE, EDG |
Business and Office Education | BTE |
Computers in Education | CAP, CGS, EDF, EME |
Content Specializations | ARE, ENE, FLE, MAE, MCE, SCE, SED, SIE |
Counselor Education | EGF, SLS |
Curriculum and Instruction | EDE, EDG, EMD, ESE, LAE, THE |
Distributive & Marketing Education | DEC |
Physical Education Elective | DAA, PEL, PEM, PEN, PEQ, PET |
Elementary Education | ARE, EDE, EDG, EDS, EEC, HLP, LAE, MAE, MUE, RED, SCE, SSE |

English Education | LAE |
Foreign Language Education | FLE |
Foundations Education | EDF, SPS |
Higher Education | EDH |
Humanities Education | HUM |
Industrial/Technical Education | ETA, EVI, EVT |
Measurement-Research Education | EDF |
Music Education | MUE |
<table>
<thead>
<tr>
<th>Course</th>
<th>Prefix</th>
<th>Department/Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education for Teachers</td>
<td>HES, LEI, PEQ, PET</td>
<td></td>
</tr>
<tr>
<td>Reading Education</td>
<td>RED</td>
<td></td>
</tr>
<tr>
<td>Science Education</td>
<td>SCE</td>
<td></td>
</tr>
<tr>
<td>Social Science Education</td>
<td>SSE</td>
<td></td>
</tr>
<tr>
<td>Special Education</td>
<td>EDG, EED, EEX, EGI, ELD, EMR, EPF, EVI</td>
<td></td>
</tr>
<tr>
<td><strong>College of Engineering</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basic and Interdisciplinary Engineering</td>
<td>EGN</td>
<td></td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>ECH, EMC</td>
<td></td>
</tr>
<tr>
<td>Civil Engineering and Mechanics</td>
<td>CEG, CES, CGN, CWR, EES, EMA, ENV, TTE</td>
<td></td>
</tr>
<tr>
<td>Computer Science &amp; Engineering</td>
<td>CAP, CDA, CGS, CIS, COC, COP, COT, EEL, ESI</td>
<td></td>
</tr>
<tr>
<td>Computer Service Courses</td>
<td>EEL, ELR</td>
<td></td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>ETE, ETG, ETI, CGS</td>
<td></td>
</tr>
<tr>
<td>Engineering Technology</td>
<td>EIN, ESI</td>
<td></td>
</tr>
<tr>
<td>Industrial and Management Systems</td>
<td>EAS, EMC, EML, ENU</td>
<td></td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>MUE</td>
<td></td>
</tr>
<tr>
<td><strong>College of Fine Arts</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art</td>
<td>ARH, ART</td>
<td></td>
</tr>
<tr>
<td>Dance</td>
<td>DAA, DAN</td>
<td></td>
</tr>
<tr>
<td>Music</td>
<td>MUC, MUG, MUH, MUL, MUN, MUO, MUS, MUV, MVK, MVP, MVS, MVV, MVW</td>
<td></td>
</tr>
<tr>
<td><strong>Music Education</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Theatre</td>
<td>THE, TPA, TPP</td>
<td></td>
</tr>
<tr>
<td><strong>College of Nursing</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nursing</td>
<td>HUN, NUR</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Prefix</th>
<th>Department/Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CIS</strong></td>
<td>Computer Science &amp; Engineering</td>
<td></td>
</tr>
<tr>
<td><strong>CHI</strong></td>
<td>Chinese</td>
<td></td>
</tr>
<tr>
<td><strong>CJT</strong></td>
<td>Criminology</td>
<td></td>
</tr>
<tr>
<td><strong>CLA</strong></td>
<td>Ancient Studies (Religious Studies), Classics</td>
<td></td>
</tr>
<tr>
<td><strong>CLP</strong></td>
<td>Psychology</td>
<td></td>
</tr>
<tr>
<td><strong>CLT</strong></td>
<td>Classics</td>
<td></td>
</tr>
<tr>
<td><strong>COC</strong></td>
<td>Computer Service Courses, Computer Science &amp; Engineering, General Business Administration, Information Systems &amp; Decision Sciences</td>
<td></td>
</tr>
<tr>
<td><strong>COE</strong></td>
<td>Cooperative Education</td>
<td></td>
</tr>
<tr>
<td><strong>COM</strong></td>
<td>Communication</td>
<td></td>
</tr>
<tr>
<td><strong>COP</strong></td>
<td>Computer Service Courses, Computer Science &amp; Engineering, Library, Media &amp; Information Studies, Mathematics</td>
<td></td>
</tr>
<tr>
<td><strong>COT</strong></td>
<td>Computer Science &amp; Engineering</td>
<td></td>
</tr>
<tr>
<td><strong>CPO</strong></td>
<td>Africana Studies, Political Science</td>
<td></td>
</tr>
<tr>
<td><strong>CRW</strong></td>
<td>English</td>
<td></td>
</tr>
<tr>
<td><strong>CWR</strong></td>
<td>Civil Engineering &amp; Mechanics</td>
<td></td>
</tr>
<tr>
<td><strong>DAA</strong></td>
<td>Dance, Physical Education Elective</td>
<td></td>
</tr>
<tr>
<td><strong>DAN</strong></td>
<td>Dance</td>
<td></td>
</tr>
<tr>
<td><strong>DEC</strong></td>
<td>Distributive &amp; Marketing Education</td>
<td></td>
</tr>
<tr>
<td><strong>DEP</strong></td>
<td>Psychology</td>
<td></td>
</tr>
<tr>
<td><strong>EAS</strong></td>
<td>Civil Engineering &amp; Mechanics</td>
<td></td>
</tr>
<tr>
<td><strong>ECH</strong></td>
<td>Chemical and Mechanical Engineering</td>
<td></td>
</tr>
<tr>
<td><strong>ECI</strong></td>
<td>Civil Engineering and Mechanics</td>
<td></td>
</tr>
<tr>
<td><strong>ECN</strong></td>
<td>Economics</td>
<td></td>
</tr>
<tr>
<td><strong>ECP</strong></td>
<td>Africana Studies, Economics</td>
<td></td>
</tr>
<tr>
<td><strong>ECS</strong></td>
<td>Economics</td>
<td></td>
</tr>
<tr>
<td><strong>EDA</strong></td>
<td>Administration/Supervision</td>
<td></td>
</tr>
<tr>
<td><strong>EDE</strong></td>
<td>Curriculum, Elementary Education</td>
<td></td>
</tr>
<tr>
<td><strong>EDF</strong></td>
<td>Foundations, Measurement-Research, Computers in Education</td>
<td></td>
</tr>
<tr>
<td><strong>EDG</strong></td>
<td>Art Education, Curriculum, Communication-Speech Communication, Elementary Education, Special Education</td>
<td></td>
</tr>
<tr>
<td><strong>EDH</strong></td>
<td>Higher Education</td>
<td></td>
</tr>
<tr>
<td><strong>EDM</strong></td>
<td>Curriculum</td>
<td></td>
</tr>
<tr>
<td><strong>EDS</strong></td>
<td>Elementary Education, Administration/Supervision</td>
<td></td>
</tr>
<tr>
<td><strong>EEC</strong></td>
<td>Elementary Education</td>
<td></td>
</tr>
<tr>
<td><strong>EED</strong></td>
<td>Special Education</td>
<td></td>
</tr>
<tr>
<td><strong>EEL</strong></td>
<td>Computer Science &amp; Engineering, Electrical Engineering</td>
<td></td>
</tr>
<tr>
<td><strong>EES</strong></td>
<td>Civil Engineering &amp; Mechanics</td>
<td></td>
</tr>
<tr>
<td><strong>EEX</strong></td>
<td>Special Education</td>
<td></td>
</tr>
<tr>
<td><strong>EGC</strong></td>
<td>Counselor Education, Rehabilitation Counseling</td>
<td></td>
</tr>
<tr>
<td><strong>EGI</strong></td>
<td>Special Education</td>
<td></td>
</tr>
<tr>
<td><strong>EGM</strong></td>
<td>Civil Engineering &amp; Mechanics</td>
<td></td>
</tr>
<tr>
<td><strong>EGN</strong></td>
<td>Basic &amp; Interdisciplinary Engineering</td>
<td></td>
</tr>
<tr>
<td><strong>EIA</strong></td>
<td>Industrial &amp; Technical Education</td>
<td></td>
</tr>
<tr>
<td><strong>EIN</strong></td>
<td>Industrial &amp; Management Systems Engineering</td>
<td></td>
</tr>
<tr>
<td><strong>EIV</strong></td>
<td>Industrial &amp; Technical Education</td>
<td></td>
</tr>
<tr>
<td><strong>ELD</strong></td>
<td>Special Education</td>
<td></td>
</tr>
<tr>
<td><strong>ELR</strong></td>
<td>Electrical Engineering</td>
<td></td>
</tr>
<tr>
<td><strong>EMA</strong></td>
<td>Civil Engineering &amp; Mechanics</td>
<td></td>
</tr>
<tr>
<td><strong>EMC</strong></td>
<td>Chemical &amp; Mechanical Engineering</td>
<td></td>
</tr>
<tr>
<td><strong>EML</strong></td>
<td>Chemical &amp; Mechanical Engineering</td>
<td></td>
</tr>
<tr>
<td><strong>EMR</strong></td>
<td>Special Education</td>
<td></td>
</tr>
<tr>
<td><strong>ENC</strong></td>
<td>English</td>
<td></td>
</tr>
<tr>
<td><strong>ENE</strong></td>
<td>Computers in Education, Content Specializations</td>
<td></td>
</tr>
<tr>
<td><strong>ENG</strong></td>
<td>English</td>
<td></td>
</tr>
<tr>
<td><strong>ENL</strong></td>
<td>English</td>
<td></td>
</tr>
<tr>
<td><strong>ENS</strong></td>
<td>Linguistics</td>
<td></td>
</tr>
<tr>
<td><strong>ENU</strong></td>
<td>Chemical &amp; Mechanical Engineering</td>
<td></td>
</tr>
<tr>
<td><strong>ENV</strong></td>
<td>Civil Engineering and Mechanics</td>
<td></td>
</tr>
<tr>
<td><strong>ENY</strong></td>
<td>Zoology (Biology)</td>
<td></td>
</tr>
<tr>
<td><strong>EPL</strong></td>
<td>Special Education</td>
<td></td>
</tr>
<tr>
<td><strong>ESE</strong></td>
<td>Curriculum</td>
<td></td>
</tr>
<tr>
<td><strong>ESI</strong></td>
<td>Industrial &amp; Management Systems Engineering, Computer Science Engineering</td>
<td></td>
</tr>
<tr>
<td><strong>ESL</strong></td>
<td>Linguistics</td>
<td></td>
</tr>
<tr>
<td><strong>ETE</strong></td>
<td>Engineering Technology</td>
<td></td>
</tr>
<tr>
<td><strong>ETG</strong></td>
<td>Engineering Technology</td>
<td></td>
</tr>
<tr>
<td><strong>ETI</strong></td>
<td>Engineering Technology</td>
<td></td>
</tr>
<tr>
<td><strong>EUH</strong></td>
<td>History</td>
<td></td>
</tr>
<tr>
<td><strong>EUS</strong></td>
<td>International Studies Program</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>--------------</td>
<td></td>
</tr>
<tr>
<td>EVI</td>
<td>Special Education</td>
<td></td>
</tr>
<tr>
<td>EVT</td>
<td>Industrial/Technical Education</td>
<td></td>
</tr>
<tr>
<td>EXP</td>
<td>Psychology</td>
<td></td>
</tr>
<tr>
<td>FIL</td>
<td>Mass Communications</td>
<td></td>
</tr>
<tr>
<td>FIN</td>
<td>Finance</td>
<td></td>
</tr>
<tr>
<td>FLE</td>
<td>Content Specializations in Foreign Language Education, French (Language)</td>
<td></td>
</tr>
<tr>
<td>FOL</td>
<td>General Foreign Languages</td>
<td></td>
</tr>
<tr>
<td>FOW</td>
<td>Romance (Language)</td>
<td></td>
</tr>
<tr>
<td>FRE</td>
<td>French (Language)</td>
<td></td>
</tr>
<tr>
<td>FRW</td>
<td>French (Language)</td>
<td></td>
</tr>
<tr>
<td>GEA</td>
<td>Geography</td>
<td></td>
</tr>
<tr>
<td>GEB</td>
<td>Common Body of Knowledge, Economics, General Business Administration, Information Systems &amp; Decision Sciences</td>
<td></td>
</tr>
<tr>
<td>GEO</td>
<td>Geography</td>
<td></td>
</tr>
<tr>
<td>GER</td>
<td>German (Language)</td>
<td></td>
</tr>
<tr>
<td>GEW</td>
<td>German (Language)</td>
<td></td>
</tr>
<tr>
<td>GEY</td>
<td>Gerontology</td>
<td></td>
</tr>
<tr>
<td>GIA</td>
<td>Government &amp; International Affairs</td>
<td></td>
</tr>
<tr>
<td>GLY</td>
<td>Geology</td>
<td></td>
</tr>
<tr>
<td>GMS</td>
<td>Medical Sciences, Medicine</td>
<td></td>
</tr>
<tr>
<td>GRE</td>
<td>Greek (Classics), Religious Studies</td>
<td></td>
</tr>
<tr>
<td>GRK</td>
<td>Greek (Classics)</td>
<td></td>
</tr>
<tr>
<td>GRW</td>
<td>Greek (Classics)</td>
<td></td>
</tr>
<tr>
<td>HBR</td>
<td>Hebrew (Language)</td>
<td></td>
</tr>
<tr>
<td>HEB</td>
<td>Ancient Studies (Religious Studies)</td>
<td></td>
</tr>
<tr>
<td>HES</td>
<td>Content Specialization, Physical Education for Teachers, Public Health</td>
<td></td>
</tr>
<tr>
<td>HIS</td>
<td>History</td>
<td></td>
</tr>
<tr>
<td>HLP</td>
<td>Elementary Education</td>
<td></td>
</tr>
<tr>
<td>HSC</td>
<td>Public Health</td>
<td></td>
</tr>
<tr>
<td>HUM</td>
<td>Africana Studies, Humanities, Humanities Education</td>
<td></td>
</tr>
<tr>
<td>HUN</td>
<td>Nursing</td>
<td></td>
</tr>
<tr>
<td>HUS</td>
<td>Human Services, Gerontology</td>
<td></td>
</tr>
<tr>
<td>IDH</td>
<td>Honors Program</td>
<td></td>
</tr>
<tr>
<td>IDS</td>
<td>Honors Program, Liberal Studies, Off-Campus Term</td>
<td></td>
</tr>
<tr>
<td>INP</td>
<td>Psychology</td>
<td></td>
</tr>
<tr>
<td>INR</td>
<td>Africana Studies, International Studies, Political Science</td>
<td></td>
</tr>
<tr>
<td>ISM</td>
<td>Information Systems &amp; Decision Sciences</td>
<td></td>
</tr>
<tr>
<td>ISS</td>
<td>Africana Studies, International Studies Program, Interdisciplinary Social Sciences</td>
<td></td>
</tr>
<tr>
<td>ITA</td>
<td>Italian (Language)</td>
<td></td>
</tr>
<tr>
<td>ITW</td>
<td>Italian (Language)</td>
<td></td>
</tr>
<tr>
<td>JPN</td>
<td>Japanese (Language)</td>
<td></td>
</tr>
<tr>
<td>JOU</td>
<td>Mass Communications</td>
<td></td>
</tr>
<tr>
<td>LAE</td>
<td>Curriculum, Elementary Education, English, Education</td>
<td></td>
</tr>
<tr>
<td>LAM</td>
<td>History</td>
<td></td>
</tr>
<tr>
<td>LAS</td>
<td>International Studies Program</td>
<td></td>
</tr>
<tr>
<td>LAT</td>
<td>Latin (Language)</td>
<td></td>
</tr>
<tr>
<td>LEI</td>
<td>Physical Education for Teachers, Sociology</td>
<td></td>
</tr>
<tr>
<td>LIN</td>
<td>Communication, English, Linguistics</td>
<td></td>
</tr>
<tr>
<td>LIS</td>
<td>Librarianship Information Science</td>
<td></td>
</tr>
<tr>
<td>LIT</td>
<td>English, Women's Studies</td>
<td></td>
</tr>
<tr>
<td>LWV</td>
<td>Latin (Classics)</td>
<td></td>
</tr>
<tr>
<td>MAA</td>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td>MAC</td>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td>MAD</td>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td>MAE</td>
<td>Content Specializations, Elementary Education, Mathematics, Mathematics Education</td>
<td></td>
</tr>
<tr>
<td>MAN</td>
<td>Foundation Courses in Business (Graduate), General Business Administration, Management</td>
<td></td>
</tr>
<tr>
<td>MAP</td>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td>MAR</td>
<td>Marketing</td>
<td></td>
</tr>
<tr>
<td>MAS</td>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td>MAT</td>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td>MCB</td>
<td>Microbiology (Biology)</td>
<td></td>
</tr>
<tr>
<td>MEL</td>
<td>Medicine</td>
<td></td>
</tr>
<tr>
<td>MET</td>
<td>Geography</td>
<td></td>
</tr>
<tr>
<td>MGF</td>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td>MHR</td>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td>MIS</td>
<td>Military Science</td>
<td></td>
</tr>
<tr>
<td>MLS</td>
<td>Medical Technology</td>
<td></td>
</tr>
<tr>
<td>MMC</td>
<td>Mass Communications</td>
<td></td>
</tr>
<tr>
<td>MGT</td>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td>MUC</td>
<td>Music</td>
<td></td>
</tr>
<tr>
<td>MUE</td>
<td>Elementary Education, Music Education</td>
<td></td>
</tr>
<tr>
<td>MUG</td>
<td>Music</td>
<td></td>
</tr>
<tr>
<td>MUH</td>
<td>Anthropology, Music</td>
<td></td>
</tr>
<tr>
<td>MUL</td>
<td>Music</td>
<td></td>
</tr>
<tr>
<td>MUN</td>
<td>Music</td>
<td></td>
</tr>
<tr>
<td>MUS</td>
<td>Music</td>
<td></td>
</tr>
<tr>
<td>MUT</td>
<td>Music</td>
<td></td>
</tr>
<tr>
<td>MVB</td>
<td>Music</td>
<td></td>
</tr>
<tr>
<td>MKR</td>
<td>Music</td>
<td></td>
</tr>
<tr>
<td>MVP</td>
<td>Music</td>
<td></td>
</tr>
<tr>
<td>MVS</td>
<td>Music</td>
<td></td>
</tr>
<tr>
<td>MVV</td>
<td>Music</td>
<td></td>
</tr>
<tr>
<td>MWV</td>
<td>Music</td>
<td></td>
</tr>
<tr>
<td>NGR</td>
<td>Nursing</td>
<td></td>
</tr>
<tr>
<td>NUR</td>
<td>Nursing</td>
<td></td>
</tr>
<tr>
<td>OCB</td>
<td>Marine Science</td>
<td></td>
</tr>
<tr>
<td>OCG</td>
<td>Marine Science</td>
<td></td>
</tr>
<tr>
<td>OCE</td>
<td>Geology, Marine Science</td>
<td></td>
</tr>
<tr>
<td>OCG</td>
<td>Marine Science</td>
<td></td>
</tr>
<tr>
<td>OCP</td>
<td>Marine Science</td>
<td></td>
</tr>
<tr>
<td>ORI</td>
<td>Communication</td>
<td></td>
</tr>
<tr>
<td>PAD</td>
<td>Public Administration</td>
<td></td>
</tr>
<tr>
<td>PCB</td>
<td>Biology, Marine Science, Microbiology (Biology), Zoology (Biology)</td>
<td></td>
</tr>
<tr>
<td>PEL</td>
<td>Physical Education Elective</td>
<td></td>
</tr>
<tr>
<td>PEM</td>
<td>Physical Education Elective</td>
<td></td>
</tr>
<tr>
<td>PEN</td>
<td>Physical Education Elective</td>
<td></td>
</tr>
<tr>
<td>PEP</td>
<td>Adult Education</td>
<td></td>
</tr>
<tr>
<td>PET</td>
<td>Physical Education Elective, Physical Education for Teachers, Adult Education</td>
<td></td>
</tr>
<tr>
<td>PGS</td>
<td>Mass Communications, American Studies, Art</td>
<td></td>
</tr>
<tr>
<td>PHH</td>
<td>Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHI</td>
<td>Linguistics, Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHM</td>
<td>Africana Studies, Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHP</td>
<td>Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHS</td>
<td>Physics</td>
<td></td>
</tr>
<tr>
<td>PHY</td>
<td>Physics</td>
<td></td>
</tr>
<tr>
<td>PHZ</td>
<td>Physics</td>
<td></td>
</tr>
<tr>
<td>POL</td>
<td>Polish</td>
<td></td>
</tr>
<tr>
<td>POR</td>
<td>Portuguese (Language)</td>
<td></td>
</tr>
<tr>
<td>POS</td>
<td>Political Science, Women's Studies</td>
<td></td>
</tr>
<tr>
<td>POT</td>
<td>Political Science</td>
<td></td>
</tr>
<tr>
<td>POW</td>
<td>Portuguese (Language)</td>
<td></td>
</tr>
<tr>
<td>PPE</td>
<td>Psychology</td>
<td></td>
</tr>
<tr>
<td>PSB</td>
<td>Psychology</td>
<td></td>
</tr>
<tr>
<td>PSY</td>
<td>Psychology</td>
<td></td>
</tr>
<tr>
<td>PUP</td>
<td>Africana Studies, Political Science</td>
<td></td>
</tr>
<tr>
<td>PUR</td>
<td>Mass Communications</td>
<td></td>
</tr>
<tr>
<td>QMB</td>
<td>Information Systems &amp; Decision Sciences, Management</td>
<td></td>
</tr>
<tr>
<td>REA</td>
<td>English</td>
<td></td>
</tr>
<tr>
<td>RED</td>
<td>Elementary Education, Reading Education</td>
<td></td>
</tr>
<tr>
<td>REE</td>
<td>Finance</td>
<td></td>
</tr>
<tr>
<td>REL</td>
<td>Religious Studies, Women's Studies</td>
<td></td>
</tr>
<tr>
<td>RMI</td>
<td>Finance</td>
<td></td>
</tr>
<tr>
<td>RSC</td>
<td>Rehabilitation Counseling</td>
<td></td>
</tr>
<tr>
<td>RTV</td>
<td>Mass Communications</td>
<td></td>
</tr>
<tr>
<td>RUS</td>
<td>Russian (Language)</td>
<td></td>
</tr>
<tr>
<td>RUT</td>
<td>Russian (Language)</td>
<td></td>
</tr>
<tr>
<td>RUW</td>
<td>Russian (Language)</td>
<td></td>
</tr>
<tr>
<td>SCE</td>
<td>Content Specializations, Elementary Education, Science Education</td>
<td></td>
</tr>
<tr>
<td>SED</td>
<td>Communication, Communication-Speech Communication, Speech Communication-English Education Content Specializations</td>
<td></td>
</tr>
<tr>
<td>SLS</td>
<td>Counselor Education</td>
<td></td>
</tr>
<tr>
<td>SOP</td>
<td>Psychology, Women's Studies</td>
<td></td>
</tr>
<tr>
<td>SOW</td>
<td>Human Services, Social Work</td>
<td></td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA - 1994-95 UNDERGRADUATE CATALOG

SPA Communication Science & Disorders
SPC Communication Science
SPN Spanish (Language)
SPS Foundations
SPT Spanish (Language)
SPW Spanish (Language)
SSE Content Specialization, Elementary Education, Social Science Education
STA Mathematics, Interdisciplinary Social Sciences
SUR Civil Engineering and Mechanics
SYA Sociology
SYD Sociology
SYG Sociology
SYO Sociology
SYP Sociology
TAX Accounting
THE Theatre
TPA Theatre
TTP Theatre
TSL Linguistics
TTE Civil Engineering & Mechanics
URF Geography
URP Political Science, Public Administration
VIC Mass Communications
WOH History
WST History, International Studies Program, Women's Studies
YOR Yoruba (Language)
ZOO Biology, Marine Science, Zoology (Biology)

COURSE LEVEL DEFINITION

Lower 0000-1999 Freshman Level
Level 2000-2999 Sophomore Level
Upper 3000-3999 Junior Level
Level 4000-4999 Senior Level
Graduate 5000-5999 Senior/Graduate Level
Level 6000-Up Graduate Level

FLORIDA'S STATEWIDE COURSE NUMBERING SYSTEM

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System (SCNS). This common numbering system is used by all public postsecondary institutions in Florida and by two participating private institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions.

Each participating institution controls the title, credit, and content of its own courses and assigns the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of the course prefixes committee, which has been appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to represent the various academic disciplines and to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have meaning in the SCNS. The list of course prefixes and numbers, along with their generic titles, is referred to as the "SCNS taxonomy." Descriptions of the content of courses are referred to as "course equivalency profiles."

General Rule for Course Equivalencies: Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between the participating institutions that offer the course, with a few exceptions. (Exceptions are listed below.)

For example, a survey course in social problems is offered by 31 different postsecondary institutions. Each institution uses "SYG_010" to identify its social problems course. The level code is the first digit and represents the year in which students normally take this course at a specific institution. In the SCNS taxonomy, "SYG" means "Sociology, General," the century digit "0" represents "Introductory Level," and the term digit "1" represents "Survey Course," and the unit digit "0" represents "Social Problems."

In science and other areas, a "C" or "L" after the course number is known as a lab indicator. The "C" represents a combined lecture and laboratory course that meets in the same place at the same time. The "L" represents a laboratory course or the laboratory part of a course, having the same prefix and course number without a lab indicator, which meets at a different time or place.

Transfer of any successfully completed course from one participating institution to another is guaranteed in cases where the course to be transferred is offered by the receiving institution and is identified by the same prefix and last three digits at both institutions. For example, SYG 1010 is offered at a community college. The same course is offered at a state university as SYG 2010. A student who has successfully completed SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 2010 at the state university if the student transfers. The student cannot be required to take SYG 2010 again since SYG 1010 is equivalent to SYG 2010. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the basis of credit awarded to native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed which have not been designated as equivalent.

Sometimes, as in Chemistry, a sequence of one or more courses must be completed at the same institution in order for the courses to be transferable to another institution, even if the course prefix and numbers are the same. This information is contained in the individual SCNS course equivalency profiles for each course in the sequence.

Course Prefix: The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix used to identify the course.

Authority for Acceptance of Equivalent Courses: State Board of Education Rule 6A-10.024(17), Florida Administrative Code, reads:

When a student transfers among institutions that participate in the common course designation and numbering system, the receiving institution shall award credit for courses satisfactorily completed at the previous participating institution on the same basis as native students.

Exceptions to the General Rule for Equivalency: The following courses are exceptions to the general rule for course equivalencies and may not be transferable. Transferability is at the discretion of the receiving institution:

A. Courses in the_900-999 series (e.g., ART 2905)
B. Internships, practica, clinical experiences, and study abroad courses
C. Performance or studio courses in Art, Dance, Theater, and Music
D. Skills courses in Criminal Justice
E. Graduate courses
F. Degree preparatory and vocational preparatory courses may not be used to meet degree requirements and are not transferable

Questions about the SCNS and appeals regarding course credit transfer decisions should be directed to William H. Scheuerle, Dean, Undergraduate Studies, USF, 4202 East Fowler Avenue, Tampa, FL 33620-6920, or the Florida Department of Education, Office of Postsecondary Education Coordination, 1101 Florida Education Center, Tallahassee, FL 32399-0400. Special reports and technical information may be requested by calling telephone number (904) 488-6402 or Suncom 278-6402.
UNIVERSITY-WIDE COURSES

UNIVERSITY OF SOUTH FLORIDA - 1994/95 UNDERGRADUATE CATALOG

COOPERATIVE EDUCATION
Director: Ray Easterlin, Coordinator: Sherri L. Greenberg.

AEROSPACE STUDIES
Professor: Lt. Col. Patricia B. Larson; Assistant Professors: Capt James J. Chambers, Capt Jeffrey C. Randall, Capt James E. Tusing.

HONORS PROGRAM
Director: Stuart Silverman (Instructors for the Honors courses are recruited from among the University's outstanding teacher-scholars).

MILITARY SCIENCE
Professor: MAJ Michael J. Tavares; Assistant Professors: MAJ Paul McCoy.

OFF-CAMPUS TERM
Director: D. Keith Lupton.

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

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

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

AFR 2130 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 WWII and WWII and how it affected the evolution of air power concepts and doctrine.

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

AFR 2150 FIELD TRAINING
(0) Field Training is offered during the summer months at selected Air Force bases throughout the United States. Students in the four-year program participate in four weeks of Field Training, usually between their sophomore and junior years. Students applying for entry into the two-year program must successfully complete six weeks of Field Training prior to enrollment in the General Officer Course (FOC). The major areas of study in the Field Training program include the FOC, the Air Force, and its relationship to civilian society. Students will be expected to prepare individual and group presentiations for the class, write reports and otherwise participate in group discussions, seminars, and conferences. Proficiency in communicative skills must be demonstrated.

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

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

AFR 4201 NATIONAL SECURITY FORCES IN CONTEMPORARY AMERICAN SOCIETY I
(3) A study of the Armed Forces as an integral element of society, with an emphasis on American civil-military relations and context in which U.S. defense policy is formulated and implemented. Special themes include: societal attitudes toward the military and the role of the professional military leader-manager in a democratic society. 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.

ARCHITECTURE
ARC 4784 THE CITY - XMW
(3) This course examines the history of the city, as both idea and reality, with a particular focus on Western cities, and the 20th century. The course is open to undergraduates and students in the Graduate Architecture Program.

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

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

COE 2942 COOPERATIVE EDUCATION, 3RD TRAINING PERIOD
PR: COE 1944. (S/U only.)

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

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

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

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

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

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

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

HONORS PROGRAM
IDH 2010 ACQUISITION OF KNOWLEDGE
PR: Admission into the Honors Program. An appreciation of the problems of 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
PR: IDH 2010. An introduction to western arts and letters from the perspectives of three period's terms (classicism, romanticism, and modernism), the relationship of ideas to art, the similarities among the arts of a given period, and important differences...
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.

MIS 1400 FUNDAMENTALS OF LEADERSHIP DEVELOPMENT
Basic leadership techniques and principles, professional ethics, senior-subordinate relationships, leadership problems, basic counseling and management techniques.

MIS 2601 MILITARY TRAINING MANAGEMENT AND INSTRUCTIONAL TECHNIQUES
Develops an understanding of the fundamental concepts involved with methods of instruction, training management and curriculum development in the military. Actual student preparation and presentation of instruction will be an integral part of the course.

MIS 2610 LEADERSHIP ASSESSMENT
Course will include an introduction to interpersonal skills required for effective leadership and diagnostic leadership assessment exercises. Topics will also include immediate first aid and injury prevention.

MIS 3302 SMALL UNIT OPERATIONS
Pr: Permission of Department. Provides training required by junior officer to direct and coordinate individuals and small units in the execution of offensive and defensive tactical missions. Also provides exposure to military weapons and communications systems found at this level.

MIS 3403 LEADERSHIP FUNDAMENTALS - TACTICS AND CAMP PREPARATION
Pr: Permission of Department. Improves cadet proficiency in those military subjects necessary to meet minimum standards of technical competence and self-confidence required of a junior officer in the U.S. Army. Prepares cadets for participation at Advanced Camp. Major emphasis during course is placed on physical training and field training exercises.

MIS 4002 ARMY AS A PROFESSION
Pr: Permission of Department. Designed to prepare cadets for duty as commissioned officers. Instruction centers around proficiency/familiarization with the military justice system, military administration, the Officer Professional Management System, international laws of war, and principles of management/leadership.

MIS 4421 SEMINAR IN MILITARY LEADERSHIP & MANAGEMENT
Pr: Permission of Department. Provides a basic understanding of the professional soldier’s responsibilities to the Army and the nation. Attempts to improve ethical decision-making skills through an examination of the need for ethical conduct, greater awareness and sensitivity to ethical issues, and the opportunity to apply these abilities in real world case study situations. Included are seminars to acquaint the new lieutenant with his/her relationship to NCOs, company grade officers, and senior officers.

MIS 4503 ADVANCED DIRECTED STUDY AND RESEARCH
Pr: CI and permission of Professor of Military Science. Intensive individual study in a particular aspect of military science that is not covered in regular course offerings. Request for enrollment must be made prior to registration in the form of a written proposal. May be repeated for credit.

OFF-CAMPUS TERM
IDS 4900 DIRECTED READINGS
Pr: OCT Program approval. Open to all students approved for OCT Program. Provides students with community related readings. May be repeated up to 8 credit hours.

IDS 4910 DIRECTED RESEARCH
Pr: OCT Program approval. To provide students with community related research experience in areas of specific interest. May be repeated up to 8 credit hours.

IDS 4942 OFF-CAMPUS TERM SOCIAL ACTION PROJECT
Pr: OCT Program approval. May be repeated up to 4 credit hours. (S/U only.)

IDS 4943 OFF-CAMPUS TERM SPECIAL PROJECT
Pr: OCT Program approval. (S/U only.)

IDS 4955 OFF-CAMPUS TERM INTERNATIONAL PROGRAM
Pr: OCT Program approval. (S/U only.)

PUBLIC AND COMMUNITY HEALTH EDUCATION COURSES
HSC 2100 CONTEMPORARY HEALTH SCIENCE -SS
A comprehensive approach to health concerns and problems in contemporary society, including methods of assessing individual health needs.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSC 4203</td>
<td>INTRODUCTION TO PUBLIC HEALTH</td>
<td>3</td>
<td></td>
<td>A survey of policies and programs in public/community health with emphasis on specific needs and problems of Florida.</td>
</tr>
<tr>
<td>HSC 4223</td>
<td>PREVENTIVE HEALTH PRACTICES IN THE WORKPLACE</td>
<td>3</td>
<td>PR: CI.</td>
<td>The content of this course focuses on a survey of health problems and concerns as they exist in a variety of work environments. No prior education or experience in this area is required.</td>
</tr>
<tr>
<td>HSC 4541</td>
<td>HUMAN STRUCTURE AND FUNCTION</td>
<td>3</td>
<td>PR: Fundamentals of biology with lab or CI.</td>
<td>Major concepts of the structure and function of the human body systems and methods by which these concepts may be taught.</td>
</tr>
<tr>
<td>HSC 4554</td>
<td>SURVEY OF HUMAN DISEASES</td>
<td>3</td>
<td>PR: Fundamentals of Biology with lab or CI.</td>
<td>An overview of the nature, types, and mechanisms of diseases of the major body systems.</td>
</tr>
<tr>
<td>HSC 4933</td>
<td>SPECIAL TOPICS: PUBLIC HEALTH</td>
<td>1-6</td>
<td>PR: CI.</td>
<td>The content of this course will be governed by student demand and instructor interest. May be repeated for credit for different topics only.</td>
</tr>
<tr>
<td>HSC 5319</td>
<td>HEALTH PROBLEMS OF SCHOOL AGE POPULATION</td>
<td>3</td>
<td></td>
<td>A study of health problems and needs of school age students, including a health status screening laboratory.</td>
</tr>
</tbody>
</table>
COLLEGE OF ARTS AND SCIENCES

UNIVERSITY OF SOUTH FLORIDA - 1994/95 UNDERGRADUATE CATALOG

AFRICAN STUDIES

AMERICAN STUDIES
Program Director: Amy J. Sparks; Professor: J. B. Moore; Associate Professors: R. A. Banes, P. J. Brewer; Other Faculty: S. A. Zylstra.

ANTHROPOLOGY

ASTRONOMY
Director: C. A. Williams; Professor: C. A. Williams (Mathematics Department), Visiting Professor: G. Hammond.

BACHELOR OF INDEPENDENT STUDIES
Interim Director: J. Bell; Area Coordinators: J. Bell (Bis Humanities), H. Mushinsky (Bis Natural Sciences), P. Waterman (Bis Social & Behavioral Sciences).

BIOLOGY

CHEMISTRY

CLASSICS
Director: TBA; Professor: A. L. Motto; Associate Professor: J. D. Noonan; Assistant Professor: J. S. Campbell; Other Faculty: J. R. Clark, W. M. Murray, J. F. Strange, G. K. Tipps.

COMMUNICATION

COMMUNICATION SCIENCES AND DISORDERS

CRIMINOLOGY

ENGLISH

GEOGRAPHY

GEOL OGY

GERONTOLOGY

HISTORY

HUMANITIES
Chairperson: A. J. Sparks; Professors: C. B. Cooper, S. L. Gaggi, T. B. Hoffman (Emeritus), H. Juergensen (Emeritus), G. S. Kashdin (Emerita), E. M. Mackay (Emerita), D. Rutenberg, A. J. Sparks, S. A. Zylstra; Assistant Professors: J. D'Emilio, N. Yavneh; Courtesy Professor: Laszlo J. Hetenyi.

INTERDISCIPLINARY SOCIAL SCIENCES
Director: J. B. Snook; Professor: S. M. D. Stamps, Jr.; Associate Professor: J. B. Snook; Lecturer: R. Gagan.

INTERNATIONAL STUDIES
AFRICAN STUDIES

AFR 2000 INTRODUCTION TO THE BLACK EXPERIENCE [IN AFRICA AND ITS DIASPORA] -6A -NW
Fundamental perspectives on the nature and significance of the Black Experience in Africa and the black communities in the Americas.

AFR 4150 AFRICA AND THE UNITED STATES
An examination of the historical and current political, economic, and cultural relations between the United States and Africa. (Also listed under International Studies.)

AFR 4331 SOCIAL INSTITUTIONS AND THE AFRICAN-AMERICAN COMMUNITY
A study of social institutions as they relate to the African-American community, with emphasis on social systems operating within and on the African-American community.

AFR 4335 BLACK WOMEN IN AMERICA -6A -XMW
An interdisciplinary survey of the contemporary experience of black women in America, including the African roots, myths and realities surrounding that experience. (Also listed under Women's Studies.)

AFR 4900 DIRECTED READINGS -2-3
Independent readings in a particular area of African and Afro-American Studies, selected by student and instructor.

ANTHROPOLGY IN AFRICAN STUDIES -1-3
Topics offered are selected to reflect student needs and faculty interests. In depth study in such areas as the Black Student and the American Educational Process; the Black Experience in the Americas; European Expansion in Africa to 19th century; Contemporary Economic Problems in Africa.

ANTHROPOLGY IN AFRICAN HISTORY TO 1850 -HP -NW
An outline survey of pre-colonial African history including a preface introduction to the use of primary sources (such as archaeology, oral tradition, cultural anthropology, comparative linguistics, documents) in reconstructing the African past. (Also listed under History.)

ART 3200 AFRICAN HISTORY SINCE 1850 -HP -NW
Survey of the colonial and post-colonial history of Africa. Emphasis on the impact of European and other alien influences on the continent, emergence of independent African states and post-independence problems of nation building and economic development. (Also listed under History.)

ART 2250 CULTURE AND SOCIETY IN AFRICA -6A -NW
Topics include: African religion, value systems, art and the aesthetics, family and life-cycle, impact of Islam and Christianity and conflict of cultures.

ART 3571 AFRICAN AMERICAN HISTORY TO 1865 -HP
A survey of African American history, with an emphasis on North Americas to 1865. Topics include pre-colonial Africa, transatlantic slave trade, slavery, and the Civil War.

ART 3572 AFRICAN AMERICAN HISTORY SINCE 1865 -HP
A survey of African American history, with an emphasis on North America, from 1865 to the present. Topics include reconstruction, World War I, World War II, and the Civil Right Movement.

ART 3721 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. (Also offered under English Department.)

ART 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 entochentricism and class conflict will also be studied. (Also offered under American Studies.)

ANT 4340 THE CARIBBEAN - 6A
PR: ANT 3410 or CI. Main themes include the depopulation of the aboriginal population and the resettlement of the area via slavery, indenture, and migration; contemporary ethnic heterogeneity; economic problems of Third World microstates; development of a modern social and political consciousness. Religious diversity, music, the graphic arts, and the literature of the contemporary Caribbean will also be surveyed. (Also offered under Anthropology.)

CPO 4204 GOVERNMENT AND POLITICS OF AFRICA -SS -NW
Designed to provide the information and analytical tools necessary to interpret current Sub-Saharan African politics. Survey of political organization in traditional African societies; politics under colonial rule; the struggle for independence, and post-independence politics.

CPO 4244 GOVERNMENT AND POLITICS OF EAST, CENTRAL AND SOUTHERN AFRICA
In depth study of political developments, ideologies and modernization in East, Central and Southern Africa including race relations and white minority rule in Southern Africa.

HUM 2420 ARTS AND MUSIC OF THE AFRICAN PEOPLE
An examination of the visual arts painting, sculpture, architecture and music of Sub-Saharan Africa; their meaning and impact on the arts and music of the Western World.

INR 4254 AFRICA IN WORLD POLITICS
Study of international relations in the new Africa including the relations of the new states with major world powers and their role in the United Nations.

IS 3130 SELECTED TOPICS -1-3
PR: CI plus senior standing or graduate status. Interdisciplinary studies with course content dependent on student demand and instructor's interest. May be repeated as topics vary.

PHI 4073 AFRICAN PHILOSOPHY
A descriptive and analytical study of African philosophical thought, featuring reflective compositions of African and Western categories of thought. (Also offered under Philosophy.)

PHM 4120 MAJOR BLACK THINKERS -XMW
Survey of major themes and issues in African/African-American intellectual and political thought with an emphasis on theories of nationalism. Works of individuals such as Martin Delany, Booker T. Washington, W. E. B. DuBois, Marcus Garvey, Malcolm X, and Angela Davis are considered.

PUP 3313 BLACKS IN THE AMERICAN POLITICAL PROCESS
An examination of the political experience of Blacks in the American political process including their political socialization, and struggle to become effective participants in the American political process.

AMERICAN STUDIES

AMS 2030 INTRODUCTION TO AMERICAN STUDIES -SS -HP
An overview of American Studies, the interdisciplinary study to American culture. Analysis of the arts and literature, including music; social issues; popular music; American communities, vigilante tradition, jazz music, role of the family, American success myth, youth in America. Topic varies.

AMS 3001 AMERICA AT THE TURN OF THE CENTURY -6A -HP
Integration of major aspects of American life between the 1880s and World War I.

AMS 3201 THE COLONIAL PERIOD -HP
An examination of cultural patterns in America as they developed between 1600 and 1780 with an emphasis on the texture of everyday life.

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

AMS 3230 AMERICA DURING THE TWENTIES AND THIRTIES
Selected interdisciplinary materials are used to examine the relationships among regionalism, nationalism and internationalism during the twenties and thirties. Emphasis is placed on the measure of cultural nationalism attained by the United States during this period.

AMS 3260 AMERICAN CULTURE, 1830-1860 -6A -HP
Examines the patterns of American culture in the years leading up to the Civil War. Topics include religion and social reform, race relations, and the impact of industrialization.
AMS 3302 ARCHITECTURE AND THE AMERICAN ENVIRONMENT (3)
By means of slides, lectures and discussion the course examines 350 years of American architectural history. Architectural styles, aesthetics and the relation between a building and its social environment are stressed.

AMS 3370 SOUTHERN WOMEN: MYTH AND REALITY - 6A (3)
An analysis of the myths surrounding Southern Women, this course will identify these myths, discern their sources and purposes, and contrast them with history. (Also offered under Women's Studies.)

AMS 3601 MATERIAL CULTURE AND AMERICAN SOCIETY -SS -HP(3)
By means of slides, lectures and student projects, examines connections between artifacts and American cultural attitudes from 17th century to present. Topics include: architecture, furniture, gravestone inscriptions, toys, automobiles, and the material subcultures of women, African-Americans and communal societies.

AMS 3700 RACISM IN AMERICAN SOCIETY (3)
An introduction into the causes and effects of racism in American history, literature, art, the media, and folklore. Related concepts of ethnocentrism and class conflict will also be studied. (Also offered under Africana Studies.)

AMS 3930 SELECTED TOPICS IN AMERICAN STUDIES (1-4)
Offerings include Cultural Darwinism in America, America Through Foreign Eyes, and The Female Hero in American Culture.

AMS 4152 FILM IN AMERICAN CULTURE (3)
Surveys the contributions to American Culture of major films, studios, directors, stars, theaters, and controversies from the perspectives of genres and styles, critical methodologies and theories. Variable topics such as: series on a region, director, performer, subject, or period of time.

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

AMS 4930 SELECTED TOPICS IN AMERICAN STUDIES (1-4)
PR: Senior in American Studies or Cl. Offerings include American Painting; its social implications, Technology in Twentieth Century America; American Environment, Popular Culture in America, American Military Experience, and Labor in America.

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

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

PGY 3000 PHOTOGRAPHY IN AMERICAN CULTURE (3)
A survey of photography as an art and a craft in America since the mid-nineteenth century. Attention devoted to technological innovations, leading personalities, major movements, and memorable icons. Open to majors and non-majors.

ANTHROPOLOGY

ANT 1001 THE HUMAN ADVENTURE (2)
This course examines the anthropological evidence relevant to controversial questions concerning human origins, social practices, human and animal communication, and ancient societies. Not for major credit.

ANT 2000 INTRODUCTION TO ANTHROPOLOGY -HP (3)
The crosscultural study of the human species in biological and social perspective. Surveys the four major branches of anthropology: physical anthropology (human biology), archaeology (the analysis of the prehistoric and historic remains of human cultures), anthropological linguistics (the analysis of language in its cultural context), and cultural anthropology (the crosscultural study of peoples living in the world today, be they in tribal, peasant, or urban societies).

ANT 3005 THE ANTHROPOLOGICAL PERSPECTIVE -NW (3)
For non-anthropology majors only. Presents the basic concepts of anthropology as they are relevant to contemporary life. Aims at explaining things to be understood. The anthropologist's crosscultural view of the human species as adapting through biosocial means to life on this planet. May not be counted for credit toward an anthropology major.

ANT 3100 ARCHAEOLOGY -SS (3)
PR: ANT 2000 or Cl. The crosscultural study of humankind from its beginnings up to and including the historic period through the recovery, description, and analysis of the remains of past cultures and societies.

ANT 3410 CULTURAL ANTHROPOLOGY -6A -SS -NWV (3)
PR: ANT 2000 or Cl. Discussion of major methods of and orientations to the crosscultural study of the world's peoples. Representative case studies are used to demonstrate variations in human adaptations and to encourage an appreciation of diverse values and lifestyles.

ANT 3511 BIOLOGICAL ANTHROPOLOGY -JS (3)
PR: ANT 2000 or Cl. Non-human primates, the fossil record and the biology of races are surveyed in order to understand the human animal as a product of biosocial phenomena. Anatomy, genetics, culture and evolution are emphasized.

ANT 3610 ANTHROPOLOGICAL LINGUISTICS -SS (3)
PR: ANT 2000 or Cl. The comparative study of language in its cultural context, especially emphasizing the role of language in the cultural interpretation of physical and social reality.

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

ANT 4124 ARCHAEOLOGICAL FIELD METHODS (4)
PR: ANT 3100 or Cl. Normally offered as part of a Summer Field Session. Students also take Florida Archaeology and Laboratory Methods in Archaeology. Emphasis on appropriate methods of archaeological excavation and recovery and recording of data.

ANT 4153 NORTH AMERICAN ARCHAEOLOGY -6A (3)
PR: ANT 3100 or Cl. An examination of the evidence regarding the human settlement of North America from its beginnings through the development of aboriginal culture to the period of European conquest. Emphasis on the comparative study of material culture at selected sites from all time periods. No field work is involved.

ANT 4158 FLORIDA ARCHAEOLOGY (4)
PR: ANT 3100 or Cl. The content of prehistoric cultures such as Paleolithic, Weeden Island, and Safety Harbor are reviewed and examined in terms of their temporal and spatial relationships to each other and the Eastern U.S. Normally offered as part of a Summer Field Session. Students also take Field Methods in Archaeology and Laboratory Methods in Archaeology.

ANT 4162 SOUTH AMERICAN ARCHAEOLOGY (3)
PR: ANT 3100 or Cl. Describes and analyzes the sequence of culture development in prehistoric South America. Cultures such as the Inca, Chavin, Mochica, Wari, Chimú are included. Emphasis on the environmental setting and the relationship between cultural ecology and the growth of civilization.

ANT 4163 MESOAMERICAN ARCHAEOLOGY (3)
PR: ANT 3100 or Cl. The chronological sequence from its beginnings through Protoprohistoric development is described and analyzed. Cultures such as the Maya, Aztec, Mixtec, Zapotec, Olmec, and Toltec are included, with emphasis on the environmental setting and the relationship between cultural ecology and the growth of civilization.

ANT 4172 HISTORICAL ARCHAEOLOGY -6A -XMW (3)
PR: ANT 3100 or Cl. A survey and analysis of archaeology focused on the historic period. Emphasis on appropriate methods of and orientation to recovery of historic sites in addition to classwork.

ANT 4180 LABORATORY METHODS IN ARCHAEOLOGY (4)
PR: ANT 3100 or Cl. Normally offered as part of a Summer Field Session. Students also enroll in Florida Archaeology and Field Methods in Archaeology. Data recovered in excavation are cleaned, catalogued, identified, and analyzed in the laboratory.

ANT 4181 MUSEUM METHODS (4)
PR: ANT 3100 and Cl. Design, preparation and installation of exhibits in the Department of Anthropology. Emphasis on theory, research, design, and construction. Discussion of museum-related issues such as administration and curation.

ANT 4226 ANTHROPOLOGY OF ART - 6A (3)
PR: ANT 3410 or Cl. An examination of the relationship between the visual arts (sculpture, painting, masks, carving, etc.) and culture in non-Western societies. Emphasis on formal symbolic and functional comparative analysis of specific art styles based on
crosscultural materials. Consideration of diffusion and change of art forms, commercial and ethnic arts, and role of the artist.

ANT 4445 METHODS IN CULTURAL RESEARCH (3)
PR: ANT 3410 or Cl. The stages in the development and execution of ethnological research are discussed and practiced. Literature search, hypothesis formation, selection of data collection techniques, elicitation of information, data analysis, and report presentation are stressed. Research design models from the case literature are studied and supervised research in the local community is designed and carried out.

ANT 4305 VISUAL ANTHROPOLOGY (3)
PR: ANT 3410 or Cl. The use of photographic techniques for the crosscultural recording and analysis of human activities. The study of ethnographic photography as both art and science, and the production of an anthropological study that expresses the goals of visual literacy. Review and evaluation of the uses of visual techniques and the evidence they provide to the social scientist.

ANT 4312 NORTH AMERICAN INDIANS (3)
PR: ANT 3410 or Cl. An examination of the evidence for the origin and antiquity of human beings in North America and of patterns of regional development until the period of contact with European colonists. Emphasis on varieties of ecological adaptation, social, political and religious systems, enculturation and worldview, folklore and visual art.

ANT 4316 ETHNIC DIVERSITY IN THE UNITED STATES (3)
PR: ANT 3410 or Cl. Special concerns include ethnic diversity in American society, historical and contemporary diversity in values, experiences, and lifestyles, and an examination of policies and problems affecting ethnic groups in the United States.

ANT 4324 MEXICO AND CENTRAL AMERICA (3)
PR: ANT 3410 or Cl. Focuses on the history, contemporary values and interpersonal relationships, and patterns of rural and urban life in Mesoamerica. Guatemala and Mexico are emphasized.

ANT 4340 THE CARIBBEAN (3)
PR: ANT 3410 or Cl. Main themes include: the depopulation of the aboriginal population and the resettlement of the area via slavery, indenture, and migration; contemporary ethnic heterogeneity; economic problems of Third World microstates; development of modern social and political consciousness. Religious diversity, music, the graphic arts, and the literature of the contemporary Caribbean will also be surveyed. (Also offered under Africana Studies.)

ANT 4332 THE INDIVIDUAL AND CULTURE (3)
PR: ANT 3410 or Cl. The relationship between the individual and society is studied crossculturally. Main themes include child-rearing practices, psychosomatic illness and curing. Discussion of theories and models of personality development with special reference to their applicability to the emerging field of cross-cultural mental health planning.

ANT 4442 URBAN LIFE AND CULTURE (3)
PR: ANT 3410 or Cl. The crosscultural study of urbanization, urbanism and human problems associated with metropolitan environments. Emphasis on the ethnography of city life and its relationship to the practical applications of urban research.

ANT 4452 HEALTH, ILLNESS, AND CULTURE (3)
PR: ANT 3410 or Cl. The study of health and human behavior in crosscultural perspective. Main themes include: the impact of disease on the development of human culture; comparative studies of curing practices; medical systems in their relationship to ideology. Emphasis on understanding the role of medicine, and the behavior of both practitioners and patients in modern societies.
140  COLLEGE OF ARTS AND SCIENCES

UNIVERSITY OF SOUTH FLORIDA • 1994/95 UNDERGRADUATE CATALOG

ANT 5937 SEMINAR IN ANTHROPOLOGY
PR: Graduate standing. Topics to be chosen by students and instructor.

MUS 4540 FOLK MUSIC
PR: ANT 3410 or CI. Examines ethnic music in America, emphasizing the function of folk music in rural and urban settings. Materials drawn crossculturally are studied in both religious and secular forms. When feasible, classwork is supplemented by live performances. Technical knowledge of music is not required.

Astronomy

AST 2005 ASTRONOMY OF THE SOLAR SYSTEM
Introduction to the Astronomy of the Solar System. No Physics background assumed. Topics covered include properties of light, stellar coordinates, timekeeping, eclipses, formation and dynamics of the solar system, properties of the sun and planets, space exploration of planets and the moon, life on other worlds. This course is complementary to but independent of AST 2006. Either may be taken before the other or taken by itself.

AST 2006 STELLAR ASTRONOMY AND COSMOLOGY
An introduction to Astrophysics and the structure of the universe. No Physics background assumed. Topics covered include properties of light, stellar coordinates, measurement of the physical properties of stars, formation, structure and evolution of stars, normal and peculiar galaxies, cosmology. This course is complementary to but independent of AST 2005. Either may be taken before the other or taken by itself.

AST 2032C ILLUSTRATIVE ASTRONOMY
Constellations, use of small telescopes, etc., apparent motions of celestial objects, comets and meteors, seasons, weather. Current events in the space program. Planetarium and open sky demonstrations. Lec.-lab.

AST 3033 CONTEMPORARY THINKING IN ASTRONOMY
PR: Junior or Senior Standing or CI. Seminar designed to assist the layman, with no scientific background, in comprehending contemporary developments in Astronomy. Necessary background material is provided by the instructor and a text. Topics covered in recent years include the space program, pulsars, x-ray astronomy, black holes, extra-terrestrial life, interacting galaxies, cosmology.

AST 3044 ARCHAEOASTRONOMY
PR: Jr. or Sr. Standing or CI. Astronomical concepts and observational techniques used by prehistoric/ancient peoples for detecting change of seasons, constructing calendars, predicting eclipses, etc. Particular attention is given to Stonehenge, and to works of N.A. Indians, the Maya and Aztecs, and the Egyptians. Lec.-lab.

AST 3052 NAVIGATION
PR: Some knowledge of geometry, algebra, and trigonometry. Timekeeping, use of sextant, constellations, celestial navigation with minimum equipment, spherical astronomy.

AST 3930 SELECTED TOPICS IN ASTRONOMY
PR: CI. Course content will depend upon the interest of the faculty member and student demand. May be repeated up to 8 credit hours.

AST 5505 INTRODUCTION TO CELESTIAL MECHANICS
PR: MAC 3313 or MAC 3283 and some knowledge of differential equations, or CI. The two-body problem, introduction to Hamiltonian systems and canonical variables, equilibrium solutions and stability, elements of perturbation theory.

AST 5932 SELECTED TOPICS IN ASTRONOMY
PR: Senior or advanced junior standing or CI. Intensive coverage of special topics to suit needs of advanced students.

BACHELOR OF INDEPENDENT STUDIES
State University System External Degree Program
See program description in College Section under College of Arts and Sciences for description of curriculum components.

HUM 4909 BIS HUMANITIES, INDEPENDENT STUDY
PR: BIS HUM 4909 or CI (S/U only)

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

ISC 4909 BIS NATURAL SCIENCES INDEPENDENT STUDY
PR: BIS ISC 4909 or CI (S/U only)

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

IDS 4990 BIS INTER-AREA STUDIES
PR: ISS 4909, ISS 4939, ISC 4909, ISC 4939, HUM 4909, HUM 4939.

BSC 1005 PRINCIPLES OF BIOLOGY FOR NON-MAJORS
Lectures and demonstrations of selected biological principles, usually taught by television. For non-majors only. No credit for majors.

BSC 2010C BIOLOGY II - CELLULAR PROCESSES
PR: CHM 2041. An analysis of biological systems at the cellular and subcellular levels: cell structure and function, respiration, photosynthesis, mitosis and meiosis, genetics, gene expression, and evolution. The course is designed for majors and has a laboratory associated with the lecture.

BSC 2011C BIOLOGY I - BIOLOGICAL DIVERSITY -NS
An analysis of biological systems at the organismal and supraorganismal levels: unity and diversity of life, organismal structure and function, and ecology. The course is recommended to be taken before Biology II (BSC 2010C). This course is designed for majors and has a laboratory associated with the lecture.

BSC 2022 BIOLOGY OF AGING -NS
An introduction to the basic biology of aging. Emphasis will be placed on understanding basic principles of biology relevant to timely and the aging process which begins at birth. May be taken by majors for free elective credit.

BSC 2025 FOOD: PERSONAL AND GLOBAL PERSPECTIVES -NS
The application of basic biological principles to relevant problems and topics in nutrition and drugs through the consideration of scientific and popular literature. May be taken by majors for free elective credit.

BSC 2030 SAVE THE PLANET: ENVIRONMENTAL SCIENCES -NS
An introduction to environmental sciences using mass communications and independent study. Emphasis will be placed on understanding basic principles of ecology relevant to problems and topics of the earth's environment. May be taken by majors for free elective credit.

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

BSC 2050 ENVIRONMENT -NS
The application of basic scientific principles to global environmental problems; how human activities impact the environment. May be taken by majors for free elective credit.

BSC 2052 SELECTED TOPICS IN BIOLOGY
May be repeated.

BSC 2636C MARINE BIOLOGY
PR: 1 year major's Biology. A survey of the marine environment, the types of organisms found inhabiting a variety of marine habitats, and the adaptations of the organisms to those habitats. Emphasis is placed on shallow water Florida environments.

BSC 2932 SELECTED TOPICS IN BIOLOGY
May be repeated.

BSC 4905 INDEPENDENT STUDY
PR: CI and CC. Specialized independent study determined by the student's needs and interests. The written contract required by the Department of Biology specifies the regulations governing independent study. May be repeated. (S/U only.)

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

BSC 4930 SEMINAR IN BIOLOGY
Senior or advanced junior standing. May be repeated once. (S/U only.)

BSC 4932 SELECTED TOPICS IN BIOLOGY
Each topic is a course in directed study under supervision of faculty member.

PCB 3023C CELL BIOLOGY
PR: CHM 3211, CHM 3211L and PCB 3063. A discussion of the connections of the cell to biology: biological molecules and metabolic processes within the cell; cellular energy conversion systems; and control of cellular metabolism. Lec.-lab.
fundamental concepts of Mendelian, molecular and population genetics. Lec.-dis.

PCB 4043C PRINCIPLES OF ECOLOGY (3)
PR: 1 year major's Biology. An introduction to the basic principles and concepts of ecology at the ecosystem, community, and population level of organization. Lec.-dis.

PCB 4064C EXPERIMENTAL GENETICS (3)
PR: PCB 3053. Experimental analysis of genetic systems. Lec.-lab.

PCB 4253 DEVELOPMENTAL BIOLOGY (3)
PR: PCB 3023C. Topics in modern developmental biology to be covered in lecture and through readings so as to gain a working knowledge and understanding of the cellular and molecular mechanisms of cell differentiation in both plants and animals.

PCB 4674 ORGANIC EVOLUTION (3)
PR: PCB 3063. An introduction to modern evolutionary theory. Lecture on population genetics, adaptations, speciation theory, phylogeny, human evolution and related areas. Lec.-dis.

PCB 5115C CYTOGENETICS (3)
PR: PCB 3023C. Survey of the structure and function of cytoplasmic and nuclear components of plant and animal cells. Lec.-lab.

PCB 5235 PRINCIPLES OF IMMUNOLOGY (3)
PR: PCB 3023C or PCB 3030C. Course will emphasize the biological principles involved in the vertebrate immune response. It will present the ramifications, preparation of the immune system, and the cellular and molecular mechanisms. Techniques will be described to familiarize the student with the types of immunological tools available to the cellular and molecular biologist.

PCB 5415 BEHAVIORAL ECOLOGY (3)
PR: PCB 4043C or PCB 4674. An emphasis on the evolutionary mechanisms that influence an organism's behavioral responses to environmental events. The theoretical framework is presented and analyzed.

PCB 5525 MOLECULAR GENETICS (3)
PR: PCB 3063. Detailed examination of DNA, RNA and protein synthesis; the effects of mutations on genes, cellular control; selected aspects of viral, bacterial, and fungal genetics.

PCB 5615C EVOLUTIONARY GENETICS (3)
PR: PCB 3063. Examination of factors such as mutation, migration, natural selection, and genetic drift which modify the genetic structure of populations.

PCB 5835 NEUROPHYSIOLOGY (3)
PR: PCB 3023C. A comparative analysis of the physiochemical basis and evolution of nervous systems and sensory mechanisms.

PCB 5845C PRINCIPLES OF NEUROSCIENCE (3)
PR: PCB 4723C. Study of the mammalian brain's structure and function, with an emphasis on the neuroanatomy, neuropharmacology, and neurophysiology of the human brain.

Botany

BOT 3373C VASCULAR PLANTS: FORM AND FUNCTION (4)
PR: BSC 2010C, BSC 2011C. Introduction to the morphology, adaption and evolution of vascular plants, integrating form and function to understand diversity. Lec.-lab.

BOT 3823C HORTICULTURAL BOTANY (3)
PR: Course in botany or biology. Application of principles of botany to give an understanding of basic horticultural operations; seed sowing, dormancy growth requirements, vegetative propagation, pruning, and related problems. Lec.-lab.

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

BOT 4223C PLANT ANATOMY (3)
PR: BOT 3373C. Comparative studies of tissue and organ systems of fossil and present-day vascular plants. Functional and phylogenetic aspects stressed. Lec.-lab.

BOT 4434C MYCOLOGY (3)
PR: BOT 3373C or MCB 3030C. A survey of the fungi with emphasis on their taxonomy, morphology, physiology and ecological importance. Lec.-lab.

BOT 4503 PLANT PHYSIOLOGY (4)

BOT 4713C PLANT TAXONOMY (4)

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

BOT 4840C MEDICAL BOTANY (3)
PR: BSC 2010C, BSC 2011C, CHM 2045, CHM 2046, Junior standing. Study of agents that are produced by plants and that are toxic or psychoactive in human beings or are useful as remedies.

BOT 5185C MARINE BOTANY (4)
PR: BOT 3373, PCB 4043C. A field course in marine plants with emphasis on ecology and functional morphology. Field work will stress the ecological aspects of plants in a subtropical marine environment in Florida. Lec.-lab.

Microbiology

MCB 3030C GENERAL MICROBIOLOGY (4)
PR: BSC 2010C and 1 year College Chemistry. Organic chemistry and a course in genetics is recommended. Introduction to the biology of microorganisms: structure, physiology, and ecology of bacteria, algae, viruses, protozoa and lower fungi. The laboratory involves preparation of culture media, staining, pure culture methodology, isolation of microbes from nature, enumeration techniques, resistance to infectious disease. Lec-Lab.

MCB 4115 DETERMINATIVE BACTERIOLOGY (5)
PR: MCB 3030C. Survey of bacterial classification; detailed examinations of bacteria important to man in agriculture, in industry and as pathogens. Lec-Lab.

MCB 4404C MICROBIAL PHYSIOLOGY AND GENETICS (5)
PR: MCB 3030C, PCB 3023C, PCB 3063, BCH 3023. A study of the physiological, metabolic, and genetic phenomena pertinent to understanding the growth, development, ecology, regulation, and reproduction of microorganisms. The course emphasizes the interdependence of physiological and genetic approaches to microbiology. Lec-Lab.

MCB 4486 EXPERIMENTAL MICROBIOLOGY (2)
PR: MCB 4502C. This course is designed to develop practical laboratory skills and the concepts of experimental analysis in virology, and microbial genetics for microbiology students.

MCB 4502C VIROLOGY (3)
PR: MCB 3030C. The biology of viruses associated with plants, animals, and bacteria will be considered; the nature of viruses, mechanisms of viral pathogenesis, and interactions with host cells.

MCB 4594 APPLIED AND ENVIRONMENTAL MICROBIOLOGY (4)
PR: MCB 3030C. A study of the applications of microbiology in industry, agriculture, the biomedical sciences, engineering, and environmental science.

MCB 4934 SEMINAR IN MICROBIOLOGY (1)
PR: Senior or advanced junior standing. May be repeated. (S/U only)

MCB 5206 PUBLIC HEALTH AND PATHOGENIC MICROBIOLOGY (3)
PR: MCB 3030C. A comprehensive survey of pathogenic microbes responsible for disease in man and other animals and the impact of these infectious agents on the public health. These pathogens will be studied with respect to their morphology, cultivation, mechanisms of pathogenicity, laboratory diagnosis, and epidemiology.

MCB 5506 SYMBIOTIC (3)
PR: A course in microbiology, cell biology or biochemistry and advanced standing. Consideration of mutualistic and parasitic symbioses between microbes and various animal, plant and microbial hosts from cellular, biochemical, evolutionary and ecological perspectives.

MCB 5815 MEDICAL MYCOLOGY (3)
PR: MCB 3030C. A modern biological survey of the medically important fungi (yeasts and molds) important to microbiologists and environmental scientists.

Zoology

BSC 3092 HUMAN ANATOMY AND PHYSIOLOGY (5)
PR: BSC 2010C and BSC 2011C. Lectures and discussions on the structure and function of the human body. May be taken by
majors for free elective by S/U only.

**ENY 4004 INTRODUCTION TO ENTOMOLOGY**
PR: ENY 2010C and ENY 2011C. An introduction to general aspects of insect morphology, development, and classification. The identification of local forms will be emphasized. Lec.-lab.

**PCB 4723C ANIMAL PHYSIOLOGY**
PR: PCB 3023C. Advanced presentation of mechanisms employed by animals to interact with their environment and to maintain their organization. Lec.-lab.

**ZOO 3030C COMPARATIVE ANATOMY**
PR: BSC 2010C, BSC 2011C. An introduction to the major vertebrate groups, with emphasis on local forms. Field work will be required. Lec.-lab.

**ZOO 3031C INTRODUCTION TO MARINE ANIMAL ECOLOGY**
PR: BSC 2010C, BSC 2011C. An introduction to the major invertebrate groups with emphasis on their organization. Lec.-lab.

**ZOO 3713C COMPARATIVE VERTEBRATE ANATOMY**
PR: BSC 2010C, BSC 2011C. Anatomy of selected vertebrate types emphasizing evolutionary trends. Lec.-lab.

**ZOO 4503C ANIMAL BEHAVIOR**
PR: BSC 2010C, BSC 2011C, or senior standing. An introduction to comparative animal behavior (Ethology), with emphasis on communication, social use of space, and behavioral evolution.

**ZOO 4603 ANIMAL EMBRYOLOGY**
PR: PCB 3023C. Structural and functional events involved in differentiation and morphogenesis. Lec.-lab.

**ZOO 4753C HISTOLOGY**

**ZOO 4825 PARASITOLOGY**
PR: BSC 2010C and BSC 2011C. Fundamentals of animal parasitology and parasitism, the biology of selected animal parasites, including those of major importance to man. Lec.-lab.

**ZOO 5425C HERPETOLOGY**
PR: ZOO 3713C, CI. Major aspects of amphibian and reptilian biology emphasizing fossil history, evolutionary morphology, sensory physiology, life history and reproductive behavior. Lec.-lab. Field trip.

**ZOO 5456C ICHTHYOLOGY**
PR: Senior or GS in Biology; BSC 2010C, BSC 2011C, ZOO 3713C. PCB 4674 is suggested. Evolution, systematics, structure, behavior, physiology, and ecology of fishes.

**ZOO 5475C ORNITHOLOGY**
PR: Senior standing in Biology. The biology of birds. Field trips emphasize local avifauna. Lec.-lab.

**ZOO 5555C MARINE ANIMAL ECOLOGY**
PR: PCB 4043C. Investigation of energy flow, biogeochemical cycles, and community structure in marine environments. Lec.-lab.

**CHEMISTRY**

**BCH 3023 INTRODUCTORY BIOCHEMISTRY**
PR: CHM 2020 or CHM 3211 and BSC 2010C. Introduction to the chemistry and intermediary metabolism of biologically important substances. Lec.

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

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

**BCH 5045 BIOCHEMISTRY CORE COURSE**
PR: Either CHM 3211, CHM 3211L, and CHM 3400 or CHM 4410 or graduate standing. A one-semester survey course in biochemistry for graduate students in chemistry, biology, and other appropriate fields and for particularly well-qualified undergraduates. Lec.

**CHM 2020 CURRENT ISSUES IN CHEMISTRY**
A survey of the important current issues in which chemistry affects our lives; e.g., environment, drugs, cancer, warfare, etc. No credit for chemistry majors.

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

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

**CHM 2031 INTRODUCTION TO GENERAL, ORGANIC AND BIOCHEMISTRY II**
PR: CHM 2030. Second half of general, biological and organic chemistry. No credit for science majors.

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

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

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

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

**CHM 3045L GENERAL CHEMISTRY II LABORATORY**
PR: CHM 2045L. Laboratory portion of General Chemistry II. Continuation of chemistry laboratory.

**CHM 2932 SELECTED TOPICS IN CHEMISTRY**
Topics of interest to students relating to chemistry and other sciences.

**CHM 3120C ELEMENTARY ANALYTICAL CHEMISTRY**

**CHM 3200 ORGANIC CHEMISTRY**
PR: CHM 2046 or equivalent. Fundamental organic chemistry principles. Structure, nomenclature, properties, preparation, reactions of hydrocarbons, alky1 halides, alcohols, phenols, ethers, sulfur analogs, etc. Lec.-lab.

**CHM 3210L ORGANIC CHEMISTRY LABORATORY I**

**CHM 3211 ORGANIC CHEMISTRY II**
PR: CHM 3210L or equivalent. Continuation of organic chemistry laboratory.

**CHM 3211L ORGANIC CHEMISTRY LABORATORY II**

**CHM 3400 ELEMENTARY PHYSICAL CHEMISTRY I**
PR: CHM 2046, CHM 2046L, MAC 3281 or MAC 3311, PHY 3054, PHY 3054L. Introduction to thermodynamics. Properties of solutions with emphasis on biological applications.

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

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

**CHM 3610C INTERMEDIATE INORGANIC CHEMISTRY**
PR: CHM 2046, CHM 246L. Fundamental principles of inorganic
CHEM 4060 USE OF THE CHEMICAL LITERATURE (1)
Discussions and assignments using abstracts, bibliographies, indices, encyclopedias, journals, patent files, electronic databases, and other information sources to obtain chemical and technical material and including written and oral presentations. Career information and opportunities also discussed.

CHEM 4070 HISTORICAL PERSPECTIVES IN CHEMISTRY - 6A -NS (3)
PR: One year of college chemistry; or senior standing and Cl. A study in depth of the historical and philosophical aspects of outstanding chemical discoveries and theories. Lec.-dis.

CHEM 4130C METHODS OF CHEMICAL INVESTIGATION I (4)
PR: CHM 3120C, CHM 3211, CHM 3211L, CHM 4060, CHM 4410. Theory and applications of instrumental methods in chemical research, chemical synthesis and analysis; electrochemical and calorigraphic techniques, separation methods, spectroscopy, statistical analysis of data, computer data handling, and industrial projects.

CHEM 4131C METHODS OF CHEMICAL INVESTIGATION II (4)
PR: CHM 4130C. Continuation of CHM 4130C.

CHEM 4300 BIOMOLECULES (3)
PR: CHM 3211. Nature, structure, elucidation, synthesis and (in selected cases) organic chemical mechanisms of biochemical involvement of the major classes of organic compounds found in living systems. Lec.

CHEM 4410 PHYSICAL CHEMISTRY I (3)
PR CHM 3120C and MAC 3282 or MAC 3312, and PHY 3054 or PHY 3049. Introduction to thermodynamics, the states of matter, solutions. Lec.

CHEM 4411 PHYSICAL CHEMISTRY II (3)
PR: CHM 3120C, and MAC 3282 or MAC 3312, and PHY 3054 or PHY 3049. Introduction to quantum mechanics and molecular spectroscopy. Lec.

CHEM 4412 PHYSICAL CHEMISTRY III (3)

CHEM 4610 ADVANCED INORGANIC CHEMISTRY (3)
PR: CHM 3610 and CHM 4410 or Cl. An advanced descriptive and theoretical treatment of inorganic compounds. Lec.

CHEM 4905 INDEPENDENT STUDY (1-3)
PR: Cl. Specialized independent study determined by the student's needs and interests. The written contract required by the College of Arts and Sciences specifies the regulations governing independent study. May be repeated. (S/U only)

CHEM 4932 SELECTED TOPICS IN CHEMISTRY (1-3)
PR: Cl. The course content will depend on the interest of faculty members and student demand.

CHEM 4870 UNDERGRADUATE RESEARCH (1-3)
PR: Cl. (S/U only)

CHEM 5225 INTERMEDIATE ORGANIC CHEMISTRY (3)
PR: CHM 3211, CHM 3211L, or equivalent. This course will extend organic chemistry beyond the undergraduate level and will emphasize concepts of stereochemistry and reaction mechanisms.

CHEM 5226 INTERMEDIATE ORGANIC CHEMISTRY II (3)
PR: CHM 5225 or Cl. An introduction to synthetic organic chemistry for graduate students and advanced undergraduates. Lec. Semester II.

CHEM 5425 APPLICATIONS IN PHYSICAL CHEMISTRY (3)
PR: CHM 4411, CHM 4412 or equivalent. Applications of chemical theory to chemical systems.

CHEM 5452 POLYMER CHEMISTRY (3)
PR: Either CHM 3211, CHM 3211L, and CHM 3400 or CHM 4410 or graduate status. Fundamentals of polymer synthesis, structure, properties, and characterization.

CHEM 5621 PRINCIPLES OF INORGANIC CHEMISTRY (3)
PR: CHM 4411 or Cl. Chemical forces, reactivity, periodicity, and literature in inorganic chemistry; basic core course. Lec.

CHEM 5911 SPECIAL TOPICS IN CHEMISTRY (1-3)
PR: Cl. The following courses are representative of those that are taught under this title: Natural Products, Stereochemistry, Reactive Intermediates, Photochemistry, Instrumental Electronics, Advanced Lab Techniques, Heterocyclic Chemistry, etc.

CHEM 4100C NUCLEAR CHEMISTRY (3)
PR: CHM 3120C. Theory and application of natural and induced radioactivity. Emphasis on the production, properties, measurement, and uses of radioactive tracers. Lec.-lab.

CHEM 4200 INDUSTRIAL CHEMISTRY (3)
PR: CHM 3211 or Cl. The general composition and properties of products in the petroleum, rubber, plastics, fiber, and detergent industries will be examined. Quality requirements imposed by product end use and new product development will be emphasized.

CHEM 4300 FUNDAMENTALS OF CLINICAL CHEMISTRY (3)
PR: BCH 3033. Theoretical and practical aspects of the analysis of various body fluids, with emphasis on the medical significance. Clinical chemistry majors must take CHM 4301L concurrently. Lec.

CHEM 4301L CLINICAL LABORATORY (2)
PR: BCH 3033 and Cl, CHM 3120C. Laboratory experience in some of the most important clinical determinations. CHM 4300 must be taken concurrently. Lec.-lab.

CHEM 4302 CLINICAL CHEMISTRY PRACTICE (2-12)
PR: Cl. Laboratory practice in clinical chemistry laboratories in the Tampa Bay area. (S/U only)

CHEM 4310C INSTRUMENTAL ANALYSIS (4)
PR: CHM 4412 or Cl. Theory and practice of instrumental methods of chemical analysis. Lec.-lab.

CLA 3103 GREEK CIVILIZATION -HP (3)
Study of Greek Civilization from its beginning to the Roman period, with emphasis on social customs, political institutions, and daily life.

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

Courses in Translation

CLT 3040 CLASSICAL WORD ROOTS IN SCIENCE (3)
A course in the Greek and Latin word elements used in science and technology.

CLT 3101 GREEK LITERATURE IN TRANSLATION - 6A -XMW (3)
Reading and discussion of major works in Greek literature. Special emphasis on the Iliad, the dramatists Aeschylus, Sophocles, Euripides and Aristophanes. Some attention is given to the social and political background of the works. All readings are in English.

CLT 3102 ROMAN LITERATURE IN TRANSLATION - 6A -XMW (3)
Reading and discussion of major works in Roman literature. Special emphasis is placed on the Aeneid, comedy and satire. Some attention is given to the political background of the works. All readings are in English.

CLT 3370 CLASSICAL MYTHOLOGY (3)
Study of Greek and Roman myths embodied in classical literature and of their impact on Western civilization. All readings are in English.

Greek

GRE 1120 BEGINNING CLASSICAL GREEK I (4)
An introductory course in classical Greek grammar with appropriate readings.

GRE 1121 BEGINNING CLASSICAL GREEK II (4)
PR: GRE 1120 or equivalent. An introductory course in classical Greek grammar with appropriate readings.

GRW 4905 DIRECTED READING (1-4)
Departmental approval required.

GRW 5905 DIRECTED READING (1-4)
Departmental approval required.

GRW 5934 SELECTED TOPICS (4)
Study of an author, movement or theme. May be repeated up to 12 credit hours.

Latin

LAT 1120 BEGINNING LATIN I (4)
An introductory course in Latin grammar with appropriate readings.

LAT 1121 BEGINNING LATIN II (4)
PR: LAT 1120 or equivalent. An introductory course in Latin grammar with appropriate readings.
COM 3030 DIMENSIONS OF COMMUNICATION (3)
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.

COM 3110 COMMUNICATION FOR BUSINESS AND THE PROFESSIONS (3)
Identification of communication situations specific to business and the professions. Analysis of variables related to communication objectives and preparation of oral presentations in the form of informational reports, conference management, persuasive communications, interviews, and public hearing.

COM 3120 INTRODUCTION TO COMMUNICATION THEORY IN ORGANIZATIONS (3)
PR: majors, COM 3003 or CI; non-majors, COM 3122 or COM 3110 or CI. A survey of communication concepts which impact upon organizational effectiveness.

COM 3122 INTERVIEW COMMUNICATION (3)
A study of communication theory relative to interview situations with emphasis on the employment interview, appraisal interview, and persuasive interview. Students must sign up for a one-hour lab and the mass lecture.

COM 3122L INTERVIEW COMMUNICATION LAB (0)
Interview laboratory for practice and individual consultation. Students must take this course in conjunction with the mass lecture COM 3122. Open to majors and non-majors. Not repeatable.

COM 4942 COMMUNICATION INTERNSHIP SEMINAR (3)
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.

COM 5930 TOPICS IN COMMUNICATION STUDIES (3)
Topical issues in communication. Rpt. up to 12 hours as topics vary.

ORI 3000 INTRODUCTION TO COMMUNICATION AS PERFORMANCE (3)
Designed to develop proficiency in the understanding and oral communication of literary and other written materials.

ORI 3950 COMMUNICATION AS PERFORMANCE LAB (1-3)
PR: ORI 3000 or CI. The study, rehearsal, and performance of literature for Readers Theatre and Chamber Theatre productions. May be repeated (maximum total four hours).

ORI 4120 PERFORMANCE OF POETRY (3)
PR: ORI 3000 or CI. Critical appreciation of lyric and narrative poetry and communication of that appreciation to audience. Study of poetic theory and prosodic techniques.

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

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

ORI 5390 TOPICS IN PERFORMANCE GENRES (3)
Variable topics course. Rpt. up to 12 hours as topics change.

SPC 2023 FUNDAMENTALS OF HUMAN COMMUNICATION -SS (3)
The nature and principles of human communication; emphasis on improving speaking and listening skills common to all forms of oral communication through a variety of experience in public discourse.

SPC 2050 SPEECH IMPROVEMENT AND PHONETICS (3)
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 3059 SPEECH IMPROVEMENT AND PHONETICS II (3)
PR: SPC 2050 or CI. A continuation of SPC 2050. Emphasis will be upon applying listening and transcription skills to the improvement of vocal quality and effective expressions.

SPC 3120 COMMUNICATION THEORY -HP (3)
PR: Junior standing or CI. The study of source, message, and medium of human communication; communication settings; descriptive and predictive models of communication; communication as a process.

SPC 3310 RHETORIC OF CONFRONTATION (3)
This course surveys the foundations and historical evolution of major concepts, issues, theorists, and approaches to the study of rhetoric from Plato to recent contemporary theorists.

SPC 3301 INTERPERSONAL COMMUNICATION -SS (3)
PR: Junior standing or CI. A study of interpersonal communication in informally structured settings with emphasis on the understanding, description, and analysis of human communication.

SPC 3410 PARLIAMENTARY PROCEDURES (2)
Principles of parliamentary procedure and practice in conducting and participating in meetings governed by parliamentary rules.

SPC 3441 GROUP COMMUNICATION (3)
PR: Junior standing or CI. A survey of theory and research in group communication. Group discussions and communication exercises to increase awareness of the dynamics of human communication in small group settings.

SPC 3513 ARGUMENTATION AND DEBATE (3)
PR: Junior standing or CI. Study of principles of argumentation as applied in oral discourse, analysis of evidence and modes of reasoning, practice in debate preparation and delivery.

SPC 3601 ADVANCED PUBLIC SPEAKING (3)
PR: SPC 2023 or CI. Study and application of communication strategies in speaking extemporaneously and from manuscript. The course includes study of selected public addresses as aids to increased understanding of speaking skills.

SPC 3633 RHETORIC OF CONFRONTATION (3)
PR: Junior standing or CI. The study of rhetorical strategies and tactics of agitation and control in confrontation situations.

SPC 3653 POPULAR FORMS OF PUBLIC COMMUNICATION (3)
PR: Junior standing or CI. Analysis of public communication with emphasis on various presentational forms.
This course introduces students to fundamentals of message analysis. Student examines persuasive strategies and language in oral and written discourse (not repeatable).

PR: SPA 3380 and SPA 3681. An introduction to the criticism of media forms and effects. Contemporaneous perspectives of the aesthetic and persuasive dimensions of mass media are examined. Students will engage in critical study of media artifacts.

SPA 4900 DIRECTED READINGS (1-3)
PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and CI. Maximum 6 hours.

SPA 4905 UNDERGRADUATE RESEARCH (1-3)
PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and CI. May be repeated.

SPA 4930 SELECTED TOPICS (1-3)
PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and CI. May be repeated.

SPA 4930A TOPICS IN RHETORICAL ANALYSIS (3)
Introduces a variety of critical perspectives applied to rhetoric in specialized contexts. Topics vary depending upon interest of students and faculty. Rpt. up to 12 hours.

SPA 5930 TOPICS IN DISCOURSE (3)
Variable topics course. Rpt. up to 12 hours.

COMMUNICATION SCIENCES AND DISORDERS

SPA 3002 INTRODUCTION TO DISORDERS OF SPEECH AND LANGUAGE (3)
PR: Junior standing and CI. The scope of speech-language pathology as a profession and a field of study. An introduction to speech and language disorders, etiologies, major treatment approaches, and research findings.

SPA 3011 INTRODUCTION TO SPEECH SCIENCE (3)
PR: SPA 3101 and SPA 3112. Concentrated study of the acoustic, physiological and perceptual aspects of sound as related to normal and pathological speech communication. Introduction to instrumentation and measurement procedures.

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

SPA 3010 ANATOMY AND PHYSIOLOGY OF THE SPEECH AND HEARING MECHANISM (3)
PR: Junior standing and CI. The neurological and anatomical basis of communication disorders. Comparisons of normal and pathological organic structures and their functional dynamics.

SPA 3112 APPLIED PHONETICS IN COMMUNICATION DISORDERS (3)
PR: Junior standing and CI. Introduction to phonetic analysis of normal and disordered speech, including extensive training in transcription using the International Phonetic Alphabet.

SPA 3112A INTRODUCTION TO DISORDERS OF HEARING (3)
PR: SPA 3030 and SPA 3101. The etiology, pathology, and management of disorders of the outer ear, middle ear, inner ear, retrocochlear, and central auditory systems.

SPA 3380 BASIC AMERICAN SIGN LANGUAGE (3)
PR: CI. Introduction to American Sign Language (ASL) as used in the deaf community. General discussion of ASL structure and introduction to various manual communication systems and philosophies. Emphasis on building a basic vocabulary. One hour laboratory course (SPA 3380L) to be taken concurrently. Open to all majors.

SPA 3380L BASIC AMERICAN SIGN LANGUAGE LABORATORY (1)
PR: CI. A laboratory designed to offer additional practice in sign language by means of videotapes. Concurrent enrollment at each level of sign language is required. There are no prerequisites. May be repeated up to 2 credit hours.

SPA 4000 COMMUNICATION DISORDERS IN THE PUBLIC SCHOOLS (3)
PR: CI. An examination of the speech, language and hearing problems affecting school-age children and the classroom teacher's role in the detection, prevention and amelioration of communication disorders. (Non-major course only).

SPA 4050 INTRODUCTION TO THE CLINICAL PROCESS (3)
PR: SPA 4930 (Lang. Dev.) and SPA 3310. Observation and participation in speech-language pathology and audiology practice in the University clinical laboratory.

SPA 4201 PHONOLOGICAL DEVELOPMENT AND DISORDERS (3)
PR: SPA 3011. An examination of normal and deviant articulatory acquisition and behavior. Presentation of major theoretical orientations and the therapeutic principles based upon them.

SPA 4210 VOCAL DISORDERS (3)
PR: SPA 3011 and SPA 3310. A comprehensive study of the medical and physical aspects of voice disorders. Primary emphasis is on therapeutic management.

SPA 4222 FLUENCY DISORDERS (3)
PR: SPA 4201. A comprehensive study of disfluent speech behavior. Differential diagnosis, principles of therapeutic intervention, procedures for children and adults will be studied. Major theories and models of the development and origin of stuttering are also presented.

SPA 4331 FUNDAMENTALS OF FINGERSPELLING (2)
PR: CI. A concentrated study of technique in fingerspelling emphasizing clarity and rhythm in expression as well as receptive understanding.

SPA 4332 STRUCTURE OF SIGN LANGUAGE (3)
PR: CI. Semiotic and linguistic consideration of American Sign Language (ASL). Includes aspects of phonology, syntax, semantics, and discourse in ASL.

SPA 4335 SIGN LANGUAGE INTERNS (3)
PR: CI. A review of the sign systems (SEE I, SEE II, L.O.V.E., and Signed English) used to code messages through the use of sign. The student will have the opportunity to practice one of the sign systems.

SPA 4363 NATURE AND NEEDS OF HEARING IMPAIRED (3)
A study of the effects of auditory disorders upon the organization and expression of behavioral patterns as they relate to motivation, adjustment and personality.

SPA 4382 INTERMEDIATE AMERICAN SIGN LANGUAGE (3)
PR: SPA 3380, SPA 3380L, and CI. A continuation of the basic course which expands the student's signing skills and introduces American Sign Language (ASL) idioms. Provides a greater opportunity for skill development in ASL structure and idiomatic usage. One hour laboratory course (SPA 4382L) to be taken concurrently.

SPA 4382L INTERMEDIATE AMERICAN SIGN LANGUAGE LABORATORY (1)
PR: SPA 3380 and SPA 3380L. A laboratory designed to offer additional practice in sign language by means of videotapes. Concurrent enrollment in SPA 4382 of sign language. May be repeated up to 2 credit hours.

SPA 4383 ADVANCED AMERICAN SIGN LANGUAGE (3)
PR: SPA 4382, SPA 4382L, and CI. A continuation of the study of American Sign Language (ASL) at the advanced skill level. Added emphasis on idioms, body language, and facial expression as an integral part of ASL. A one hour laboratory course (SPA 4383L) is to be taken concurrently. Open to all majors.

SPA 4383L ADVANCED AMERICAN SIGN LANGUAGE LABORATORY (1)
PR: CI. An advanced laboratory course designed to offer students added practice with the material presented in the ASL coursework through video and audio tapes. To be taken concurrently with Advanced American Sign Language (SPA 4383).
CCJ 3003 CRIME AND JUSTICE IN AMERICA-SS (4)
This course is a non-technical survey of the nature of crime in the United States and the ways in which our society seeks to deal with criminal offenders and victims of crime. May be taken by both majors and non-majors for credit, subject to departmental approval for declared majors.

CCJ 3020 SURVEY OF THE CRIMINAL JUSTICE SYSTEM-SS (3)
PR: PSY 2012, SOC 2000, or equivalent, or CI. An introduction to the structure and operation of law enforcement, prosecution, the courts, and corrections. Also includes brief coverage of major reported crimes.

CCJ 3210 SUBSTANTIVE CRIMINAL LAW (3)
PR: CCJ 3020, POS 2041 or CI. Examines the historical basis of the American criminal law system, the substantive elements of the crime, and court procedures.

CCJ 3610 THEORIES OF CRIMINAL BEHAVIOR (3)
PR: CCJ 3020. Provides a basic understanding of the complex factors related to crime, with concentration on experimental and social approaches to the explanation of crime.

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

CCJ 3701 RESEARCH METHODS IN CRIMINAL JUSTICE I (3)
PR: Junior standing and CCJ 3020 or CI. Introduces the student to some of the fundamentals of knowledge-generating processes in criminal justice.

CCJ 4110 AMERICAN LAW ENFORCEMENT SYSTEMS (3)
Provides a comprehensive examination of the American law enforcement system at the federal, state, and local levels and an assessment of career opportunities within the community.

CCJ 4230 CRIMINAL RIGHTS AND PROCEDURES (3)
Emphasizes the Constitutional issues and rules that are applied and enforced by the courts while processing criminal cases.

CCJ 4331 ALTERNATIVES TO INCARCERATION (3)
PR: Junior standing plus CCJ 4360 or CI. This course explores a variety of alternatives to imprisoning the offender, including probation, parole, diversion, and other community-based intervention and treatment approaches.

CCJ 4340 INTERVENTION TECHNIQUES AND STRATEGIES (3)
PR: Senior standing or CI. Introduces the student to theories and methods underlying treatment modalities currently employed in corrections.

CCJ 4360 AMERICAN CORRECTIONAL SYSTEMS (3)
PR: Junior standing plus CCJ 3610 or CI. Analysis of the different treatment philosophies and techniques currently in use in the field, with special attention to experimental and demonstration programs.

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

CCJ 4501 JUVENILE JUSTICE SYSTEM (3)
PR: CCJ 3020 or CI. Provides coverage of the juvenile and family courts, their clientele, and the complex of human services agencies and facilities that contribute to efforts at juvenile correctional intervention.

CCJ 4601 ABDOMINAL CRIMINAL AND CRIMINALITY (3)
PR: CCJ 3610, or CI. A systematic introduction to the relationship between mental illness and criminality, with focus on psychiatric labeling of deviant behavior and its implications for the handling of the criminal offender.

CCJ 4700 STATISTICAL RESEARCH METHODS IN CRIMINAL JUSTICE II (3)
PR: Junior standing or CI. Beginning with the scientific method, the tools commonly used to analyze criminal justice data will be emphasized. Recommended for students who intend to continue their education beyond the B.A. Required of students attending the MA program in CCJ at USF. This course may not be taken for credit if the student has already successfully completed STA 3122 or GEB 3121.

*CCJ 4900 DIRECTED READINGS (1-3)
PR: CI. This course is specifically designed to enable advanced students the opportunity to do in-depth independent work in the area of criminal justice. Each student will be under the close supervision of a faculty member of the program. No more than five hours of CCJ 4900, CCJ 4910 or any combination of the two will be accepted toward the minimum number of hours required for the major.

*CCJ 4910 DIRECTED RESEARCH (1-3)
PR: CI. This course is designed to provide students with a research experience in which they will work closely with faculty on the development and implementation of research projects in the area of criminal justice. No more than five hours of CCJ 4910, CCJ 4900 or any combination of the two will be accepted toward the minimum number of hours of the major.
*NOTE: CCJ 4900 & CCJ 4910. (a) Students wishing to enroll must make arrangements with a faculty member during the semester in which they are actually taking the course, (b) a minimum of four (4) CCJ courses must have been completed satisfactorily prior to enrollment, (c) first consideration will be given to Criminology majors, and (d) individual faculty members may add additional requirements at their discretion.

CCJ 4933 SELECTED TOPICS IN CRIMINOLOGY (3)
PR: Junior standing and CI. These variable topics seminars are used for indepth study and discussion of the relationships among culture, gender, ethics, age, society, and criminal behavior. Such examinations may include the operations the criminal justice does (or does not) have to deal with these interactions, and the ethics and efficacy of the system's response. Open to non-majors with CI.

NOTE: CCJ 4933 and CCJ 4934. No more than 9 hours of CCJ 4933, CCJ 4934, or any combination of the two will be accepted toward the minimum number of hours required for the major.

CCJ 4940 INTERNSHIP FOR CRIMINAL JUSTICE MAJORS (3)
PR: Senior standing. The internship will consist of placement with one or more of the agencies comprising the criminal justice system. This course will enable the students to gain meaningful field experience related to their future careers. The three-hour block of credit will require a minimum of ten hours of work per week within the host agencies in addition to any written work or reading assignments. See requirements for the B.A. degree in Criminology for the number of hours required. (S/U only.)

CCJ 4961 LITERATURE OF THE SOUTH (3)
A study of the master writers of the *Southern Renaissance,* including writers such as Faulkner, Wolfe, Caldwell, Hellman, McCullers, O'Connor, Warren, Styron, Tate, Davidson, and Dickey.

AML 3031 AMERICAN LITERATURE FROM THE BEGINNINGS TO 1880 (3)
A study of representative works from the period of early settlement through American Romanticism, with emphasis on such writers as Cooper, Irving, Bryant, Hawthorne, Emerson, Melville, Thoreau, and Poe, among others.

AML 3032 AMERICAN LITERATURE FROM 1860 TO 1912 (3)
A study of representative works of selected American Realists and early Naturalists, among them Whitman, Dickinson, Twain, James, Howells, Crane, Dreiser, Wharton, Robinson, Dunbar, and Johnson.

AML 3051 AMERICAN LITERATURE FROM 1912-1945 (3)
A study of poetry, drama, and fiction by such writers as Pound, Stein, Fitzgerald, Hemingway, Faulkner, Porter, Toomer, Cummings, Williams, Anderson, Steinbeck, Wright, West, Stevens, Henry Miller, and others.

AML 3271 BLACK LITERATURE (3)
A study of African American literature from the sixteenth century to the present, including the works of such writers as W.E.B. DuBois, Jean Toomer, Langston Hughes, Richard Wright, Ralph Ellison, LeRoi Jones, and Nikki Giovanni. (Also offered in African Studies.)

AML 4101 NINETEENTH-CENTURY AMERICAN NOVEL (3)
A study of the American novel from its beginnings through 1900, including such novelist as Cooper, Hawthorne, Melville, James, Twain, Crane, Dreiser, among others.

AML 4123 TWENTIETH-CENTURY AMERICAN NOVEL (3)
A study of major trends and influences in American prose fiction from 1900 to the present. Includes works by such writers as Hemingway, London, Wharton, Fitzgerald, Faulkner, West,Mailer, Bellow, Ellison, Donleavy, Updike, Vonnegut, and others.

AML 4934 SELECTED TOPICS IN CRIMINOLOGY (3)
PR: Junior standing and CI. This variable topics seminar is designed to address a wide variety of issues in criminology and criminal justice. Open to non-majors with CI.

NOTE: CCJ 4933 and CCJ 4934. No more than 9 hours of CCJ 4933, CCJ 4934, or any combination of the two will be accepted toward the minimum number of hours required for the major.

CRW 4000 NARRATION AND DESCRIPTION-6A (3)
A study of narrative and descriptive techniques in prose. By making the student sensitive to language usage, it is designed to bridge the gap between expository writing and imaginative writing.

CRW 3311 FORM AND TECHNIQUE OF FICTION-6A (3)
A study of short narrative forms such as the anecdote, tale, character sketch, incident, monologue, epistolary story, and short story as they have been used in the development of fiction and as they exist today.

CRW 3312 FICTION I-6A (3)
PR: CRW 3111. An introduction to fiction writing, beginning with a practical study of the various elements of fiction and proceeding through the many processes of revision to arrive at a completed work of art.

CRW 3312 FICTION II-6A (3)
PR: CRW 3111, CRW 3112. A fiction workshop which provides individual and peer guidance and direction for student writing and which also attempts to encourage the development of critical skills.

CRW 3311 FORM AND TECHNIQUE OF POETRY (3)
An examination of the techniques employed in fixed forms from the couplet through the sonnet to such various forms as the rondel, ballad, villanelle, sestina, etc. Principles in the narrative, dramatic, and lyric modes are also explored.

CRW 3312 POETRY I (3)
PR: CRW 3311. An introduction to poetry writing utilizing writing exercises employing poetic language and devices; the exercises progress to the writing of both rhymed and unrhymed metrical and non-metrical forms.

CRW 3321 POETRY II (3)
PR: CRW 3311, CRW 3312. A poetry workshop which provides individual and peer guidance and direction for the student's writing and which also attempts to encourage the development of critical skills.

CRW 4120 FICTION III (3)
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 3320 POETRY III (3)
PR: CRW 3311, CRW 3312, CRW 3321. An advanced poetry workshop wherein students are expected to create works exhibiting a firm knowledge of the principles explored in the preceding courses. May be taken twice for credit.

CRW 4930 SELECTED TOPICS IN CREATIVE WRITING (1-4)
PR: 12 hours of CRW courses or CI. The focus of the course will be governed by student demand and instructor interest. Topics to be covered may include writing the literary essay, writing in mixed genres, and utilizing popular conventions in serious works. May be repeated up to 8 credit hours.

ENC 1101, 1102 FRESHMAN ENGLISH-6A-EC (3)
Instruction and practice in the skills of writing and reading. Courses must be taken in numerical sequence.

ENC 1121 FRESHMAN ENGLISH: HONORS-6A-EC (3)
Honors Section of ENC 1101. Reserved for students in the University's Honors Program.

ENC 1122 FRESHMAN ENGLISH II: HONORS-6A-EC (3)
PR: ENC 1121. Honors Section of ENC 1102. Reserved for students in the University's Honors Program.

CRW 3210 TECHNICAL WRITING-6A (3)
Effective presentation of technical and semi-technical information.

ENC 3213 PROFESSIONAL WRITING-6A (3)
Introduction to the techniques and types of professional writing, including correspondence and reports most often found in business, technical, and scientific communities.
ENL 3250 BRITISH LITERATURE 1780-1900 (3) The poetry and poetics of the Romantic figures, with attention to the continuing importance of romantic thinking in contemporary affairs and letters; a survey of representative figures of the Victorian and Edwardian periods, including poetry, prose, and drama.

ENL 3272 BRITISH LITERATURE 1900-1945 (3) Survey of poetry, drama, and fiction of such writers as Eliot, Yeats, Thomas, Conrad, Shaw, Joyce, Lawrence, Huxley, Woolf, Forster, Waugh, Owen, Auden, O'Casey, and others.

ENL 3331 EARLY SHAKESPEARE (3) A study of from six to eight of Shakespeare's comedies, histories, and early tragedies, ending with Hamlet. Special attention to developing the student's ability to read and interpret the text.

ENL 3332 LATE SHAKESPEARE (3) A study of from six to eight of Shakespeare's problem plays, major tragedies, and late romances. Special attention to developing the student's ability to read and interpret the text.

ENL 4122 BRITISH NOVEL THROUGH HARDY (3) A study of early and later British novelists such as Fielding, Smollett, Sterne, Austen, Scott, Dickens, Eliot, and Hardy, among others.

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

ENL 4171 HISTORY OF BRITISH DRAMA TO 1912 (3) A study of the history of British Drama from its liturgical origins to the beginning of the twentieth century, exclusive of Shakespeare. Included are the mystery and morality plays, and representative works by Marlowe, Jonson, Middleton, Dryden, Congreve, Sheridan, and Wilde, and others.

ENL 4303 SELECTED AUTHORS (3) The study of two or three related major figures in English, American, or World Literature. The course may include such writers as Fielding and Austen, Keats and Yeats, Joyce and Flaubert, etc. Specific topics will vary. May be taken twice for credit with different topics.

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

ENL 4338 ADVANCED STUDIES IN SHAKESPEARE (3) PR: ENL 3331 or ENL 3332, 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 (3) Study of the poetry and major prose of John Milton, with special emphasis on Paradise Lost.

LIN 2570 ENGLISH GRAMMAR AND USAGE (3) A course in the basics of traditional English grammar designed as a complement to our composition and creative writing courses, as a review for those students who will take preprofessional exams, and as a basic course for students interested in improving their knowledge of English.

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

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

LIT 2010 INTRODUCTION TO FICTION -6A (3) A study of the short story and novel as literary forms; not restricted to any historical period. Will not be counted toward the English major.

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

LIT 2570 INTRODUCTION TO FICTION -6A (3) A survey of the poem as literary form; not restricted to any historical period. Will not be counted toward the English major.
LIT 2040 INTRODUCTION TO DRAMA -6A  (3)
The course presents a survey of major forms of drama literature; not restricted to any historical period. Will not be counted toward the English major.

LIT 2091 CURRENT NOVELS  (3)
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  (3)
A study of the great works of drama, with emphasis on recent forms and themes. Films will demonstrate the possibilities of visualization. Will not be counted toward the English major.

LIT 2931 SELECTED TOPICS IN ENGLISH STUDIES  (1-4)
Varying from semester to semester, the course examines in depth a predominant literary theme or the work of a select group of writers.

LIT 3000 INTRODUCTION TO LITERATURE -6A  (3)
The nature and significance of literature in its various forms: fiction, drama, poetry; emphasis on the techniques of reading literature for informed enjoyment. Will not be counted toward the English major.

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

LIT 3073 CONTEMPORARY LITERATURE  (3)
A survey of the major periodicals of the English language world from 1945--American, British, Continental. Focus may be on one, two, or all three genres or on works from any combination of nationalities.

LIT 3100 GREAT LITERATURE OF THE WORLD -XMW-XLW  (3)
PR: Junior/Senior standing. A survey of world literature including samples from the ancient and modern era, western and eastern traditions, male and female writers, and various ethnic cultures. Focus on values/ethics, race, ethnicity, and gender; thinking and writing skills. Does not count toward the English major.

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

LIT 3102 LITERATURE OF THE WESTERN WORLD SINCE THE RENAISSANCE -6A  (3)
A study in English of the great works of Western Literature from the Neoclassic to the Modern Period, including such contemporary writers as Moliere, Racine,Voltair, Dostoevsky, Chekhov, Ibsen, Kafka, Gide, Sartr, 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 Solzhenitsyn.

LIT 3310 FANTASY AND SCIENCE FICTION  (3)
A survey of fantasy and science fiction in English and America from Mary Shelley to the present; includes such works 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. Fall Semester, Old Testament; Spring Semester, New Testament. Course may be repeated for credit with change of content; may be counted only once toward the English major.

LIT 3383 THE IMAGE OF WOMEN IN LITERATURE  (3)
A survey of feminist, 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 uses 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 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 comprehension. An independent study approach is also available for students who prefer to assume responsibility for their own progress.

REA 1605 LEARNING STRATEGIES WITHIN ACADEMIC DISCIPLINES  (2)
To provide within any academic discipline the necessary learning strategies needed for success related to academic coursework. Practice of learning strategies will be within the framework of the student's coursework, providing direct transfer to academic area material.

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

REA 2505 VOCABULARY  (3)
A practical course in rapid vocabulary improvement for students in all areas. Stress is on words in context. Will not be counted toward the English major.

WST 4262 LITERATURE BY AMERICAN WOMEN OF COLOR -XLW  (3)
A study of the contributions of contemporary women writers of color in the U.S.: Native Americans, African Americans, Asian Americans, and Chicanas/U.S. Latinas. Readings will include literature contextual and historical articles and cultural issues. (May also be taken for credit in Women's Studies.)

WST 4263 THIRD WORLD WOMEN WRITERS  (3)
Introduces the literature of women from various anglophone countries in Africa, the Caribbean, and South Asia; some U.S. writers will be included to represent a third world diasporic consciousness. (May also be taken for credit in Women's Studies.)

GEOGRAPHY

GEA 3000 WORLD REGIONAL GEOGRAPHY -SS -HP -NW  (4)
Comparative and analytical analysis of representative regions of the world with emphasis on cultural, political, economic, environmental, and physical diversity.

GEA 3009 GENERAL GEOGRAPHY  (4)
Selected topics in regional and topical geography offered as survey courses. Open to all students.

GEA 3194 REGIONAL GEOGRAPHY  (4)
Variable title course to systematically study and compare special regions identified by the instructor.

GEA 3202 GEOGRAPHY OF ANGLO-AMERICA  (4)

GEA 3300 GEOGRAPHY OF MIDDLE AMERICA  (4)

GEA 3360 GEOGRAPHY OF GULF OF MEXICO  (4)

GEA 3400 GEOGRAPHY OF LATIN AMERICA -6A  (4)

GEA 3550 GEOGRAPHY OF EUROPE -6A  (4)

GEA 3554 GEOGRAPHY OF THE USSR  (4)

GEA 3600 GEOGRAPHY OF AFRICA  (4)

GEA 3703 GEOGRAPHY OF ASIA  (4)
GEO 1930 GEOGRAPHY OF CURRENT EVENTS -SS (4)
Application of basic geographic principles of the analysis of contemporary issues as they affect various parts of the world.

GEO 2041C MAP INTERPRETATION (4)
Analysis and synthesis of various types of maps and map projections.

GEO 2371 INTRODUCTION TO EARTH SYSTEMS SCIENCE -NS (4)
The application of basic earth system science analysis to environmental problems. Review of impact of human activities on the surface of the earth at local and global scales. For non-majors only.

GEO 3013 INTRODUCTION TO PHYSICAL GEOGRAPHY (6)
Principles and concepts of the discipline; maps, earth-sun relationships, weather, climate, soil, water, and landforms.

GEO 3402 HUMAN GEOGRAPHY (4)
Systematic treatment of man's activities on earth; population, settlement, agriculture, industry, trade, transportation, and political aspects are among those considered.

GEO 3602 URBAN GEOGRAPHY (4)
PR: GEO 3402. CI. Spatial analysis of urban areas; growth, location, spacing, and size. Development, site, situation, internal structure, and hinterland are considered.

GEO 3901 ELEMENTS OF GEOGRAPHY (1)
Independent study; various topics in physical and cultural geography. (S/U only.)

GEO 3931 SELECTED TOPICS (4)
PR: GEO 3013. Map compilation and graphic presentation.

GEO 4100C CARTOGRAPHY (4)
PR: GEO 3013. Map compilation and graphic presentation.

GEO 4114C GEOGRAPHIC TECHNIQUES AND METHODOLOGY (4)
PR: 12 credit hours in Geography or CI. Selected topics in various geographic techniques and methodologies and their application.

GEO 4124C AIR PHOTO INTERPRETATION (4)
PR: GEO 3013 or CI. Detection, identification, and analysis of objects on the earth's surface. Techniques other than photographic are also considered.

GEO 4164C QUALITATIVE METHODS (4)
PR: 12 credit hours in Geography or CI. Statistical analysis in geographic research.

GEO 4200C PHYSICAL GEOGRAPHY (4)
PR: GEO 3013 or CI. Intensive study of a topic selected from physical geography.

GEO 4210 PROCESS GEOMORPHOLOGY (4)
PR: GEO 3013, or CI. Analysis of the landforms of North America.

GEO 4280C HYDROLOGY (4)
PR: GEO 3013 or CI. Hydrologic cycle; precipitation, evapotranspiration, water budget, streamflow, and probability analysis.

GEO 4340 HUMAN RESPONSE TO NATURAL HAZARDS (4)
The impact of hurricanes, tornadoes, earthquakes, sink holes, tidal waves, fire, freezes, and droughts on people; attempts to overcome or avoid these hazards.

GEO 4372 GLOBAL CONSERVATION - 6A-XMW (4)
The distribution, exploitation, and conservation of physical and human resources, ecology.

GEO 4390 WATER RESOURCES (4)
A general overview of the hydrologic cycle and the impact of cultural development of its various components. May also include a survey of regional water problems.

GEO 4421 CULTURAL GEOGRAPHY (4)
PR: GEO 3402 or CI. The interrelationships of culture and nature, from prehistoric times to the present.

GEO 4440 POPULATION GEOGRAPHY (4)
PR: GEO 3402 or CI. An analysis of contemporary patterns in world and regional distributions of people and geographical factors underlying these patterns and their changes.

GEO 4460 HISTORICAL GEOGRAPHY (4)
PR: GEO 3402 or CI. Survey of evolving landscapes through time; analysis is made by means of systematic and regional methods in order to reconstruct the changing culture-nature equation.

GEO 4470 POLITICAL GEOGRAPHY - 6A-XMW (4)
PR: GEO 3402 or CI. The geographic factors underlying political decisions and influencing their outcome; the geographic consequences of these decisions; geopolitical.

GEO 4502 ECONOMIC GEOGRAPHY (4)
PR: GEO 3402 or CI. The spatial organization of economic production, consumption, and exchange systems.

GEO 4604 ADVANCED URBAN GEOGRAPHY - 6A-XMW (4)
PR: GEO 3402, GEO 3602, or CI. Intensive examination of issues such as economic restructuring and inner-city decline, ghetto formation, gentrification, transportation, and policy-making.

GEO 4700 TRANSPORTATION GEOGRAPHY (4)
PR: GEO 3402 or CI. Interrelationships between freight and passenger transportation and land use, in terms of sites, traffic generation, and circulation.

GEO 4900 DIRECTED READING (1-4)
PR: 20 hours in geography and CI prior to registration. May be repeated.

GEO 4910 INDIVIDUAL RESEARCH (1-4)
PR: 20 hours in geography and CI prior to registration. May be repeated.

GEO 5058 GEOGRAPHIC LITERATURE AND HISTORY (3)
PR: Senior or graduate standing in geography, or CI. The origins and development of the discipline as revealed through an examination of the principal written sources. Special attention paid to leading personalities and modern periodicals.

MET 4002 CLIMATOLOGY (4)
PR: GEO 3013 or CI. An introductory course which includes an examination of climatic classification systems, problem climates, and the application of climate to selected topics such as world vegetation patterns, agriculture, housing and health.

MET 4010C METEOROLOGY (4)
PR: GEO 3013 or CI. The earth's atmosphere and its processes; weather forecasting and analysis; instrumentation.

URP 4052 URBAN AND REGIONAL PLANNING (4)
The geographic foundations of the modern city, metropolitan development, and the trend toward megalopolis. Examined are the political problems of conflicting jurisdictions at the local, county, state, national, and international levels.

GEOLGY

GLY 2010 DYNAMIC EARTH: INTRODUCTION TO PHYSICAL GEOLOGY -NS (3)
Study of minerals, rocks, and processes of the earth's crust. Introduction to origin and classification of earth's materials and landforms.

GLY 2010L DYNAMIC EARTH LABORATORY (1)
PR: GLY 2010 or concurrent registration. Laboratory study of earth materials, landforms, geologic structures, topographic and geologic maps. Lect-lab-field trips. Required for Geology majors; open to non-majors.

GLY 2030 ENVIRONMENTAL GEOLOGY (3)
A first course in geology emphasizing environmental aspects of the earth's crust, such as earthquakes, depletion of the earth's resources, water supply problems, and geologic land use and planning. No credit toward Geology major.

GLY 2040 ORIGINS: FROM THE BIG BANG TO THE ICE AGE -NS (3)
The history of the cosmos, origin of the universe, galaxies, the solar system, and earth, evolution of life, great extinctions including the dinosaurs, evolution of the primates, and the environmental future of the planet. (For both non-science and science majors.)

GLY 2050 SCIENCE, EARTH AND LIFE (3)
The nature, history and philosophy of science intended primarily for non-science majors. Consideration of science as a way of knowing through examples taken primarily from historical geology and biology (e.g., extinction of the dinosaurs, continental drift, evolution), but also from physics and astronomy. Consideration of the social relevance of science. Does not count toward geology major.

GLY 2100 HISTORY OF THE EARTH AND LIFE (3)
PR: A course in geology. Study of the physical and biological history of the earth including evolution of the major groups of organisms, continental drift, and interpretation of ancient environments.

GLY 2100L EARTH HISTORY LABORATORY (1)
Laboratory study of the history of the earth and life. Required for Geology majors; open to non-majors.

GLY 2120 SELECTED TOPICS IN GEOLOGY (1-3)
Topical courses in geology of general interest. Does not count toward the geology major.
COLEGE OF ARTS AND SCIENCES 151
UNIVERSITY OF SOUTH FLORIDA - 1994/95 UNDERGRADUATE CATALOG

GLY 3200 MINERALOGY (4)
PR: GLY 2010, one year of chemistry, or Cl. Principles of crystal chemistry, crystallography and mineralogy with emphasis on common rock-forming minerals. Lec.-lab.

GLY 3400C STRUCTURAL GEOLOGY (4)
PR: 12 hours of geology, MAC 2132 or equivalent or Cl. Study of the origin and development of structural features of the earth's crust. Applications of principles of geography, physics, and mathematics to understanding relationships of strata and interpreting structural features. Study of regional tectonics and major structural trends. Lec.-lab.

GLY 3610C INTRODUCTION TO INVERTEBRATE PALEONTOLOGY (4)
PR: GLY 2100. BSC 2100C or equivalent strongly encouraged as background. Lectures cover principles and applications of paleontology, including biostratigraphy, taphonomy, paleoecology, and micro- and macroevolutionary patterns and processes. Labs survey the invertebrate phyla comprising the bulk of the fossil record.

GLY 3850 GEOLOGY FOR ENGINEERS (3)
PR: Junior standing in College of Engineering or Cl. An examination of geologic materials and processes designed for engineering laboratories. Classification and properties of earth materials and surface processes, site investigation techniques, applications of geology to the solution of engineering problems. (No credit toward the geology major, or for those with credit for GLY 2010.)

GLY 4310 PETROLOGY (4)
PR: GLY 3200, Cl. The formation of igneous and metamorphic rocks and igneous volcanic environments. Emphasis is placed on the identification of igneous and metamorphic rocks in hand specimens and thin sections. Lec.-lab.

GLY 4511 STRATIGRAPHY AND PETROLEUM GEOLOGY (4)
PR: GLY 4550. Emphasis on classical principles of litho- and biostratigraphy, basin analysis, geophysical well logging, origin and occurrence of petroleum. Exploration methods are emphasized. Lec.-lab.

GLY 4550 DEPOSITIONAL SYSTEMS (4)
PR: GLY 4552C. Study of modern sedimentary environments and their relationships to one another in order to understand environments preserved in the rock record. Physical, chemical, and biological aspects of terrestrial, transitional and marine sedimentary environments will be examined in light of their eventual preservation in the stratigraphic record.

GLY 4552C PETROLOGY OF SEDIMENTARY ROCKS (4)
PR: GLY 2010, GLY 3200, and one year of chemistry. A lecture and laboratory class that integrates knowledge of the lithosphere, atmosphere, biosphere, hydrosphere, and cyrosphere to study the sedimentary rock record. Examination of the rock record to solve problems in sedimentary geology.

GLY 4700 GEOMORPHOLOGY (4)
PR: Senior or advanced junior standing and Cl. Origin, evolution and distribution of land forms and soils. Dynamics of the earth's surface. Lec.-lab-field trips.

GLY 4730 MARINE GEOLOGY (3)
PR: 12 hours of geology or Cl. General survey of the geology of the ocean floor from beaches to ocean trenches including sediments, processes, tectonics and history.

GLY 4822 INTRODUCTION TO HYDROGEOLOGY (4)
PR: GLY 2010, advanced junior or senior standing, one year each physics and calculus or Cl. Ground water flow systems, ground water geology, introduction to numerical and analytical models of ground water flow. Lec.-lab-field trips.

GLY 4905 INDEPENDENT STUDY (1-3)
PR: Cl. Specialized independent study determined by the student's needs and interests. May be repeated. (S/U only)

GLY 4915 UNDERGRADUATE RESEARCH (1-3)
PR: Senior or advanced junior standing and written permission of department prior to registration. Individual experimental investigations with faculty supervision. (S/U only)

GLY 4920 GEOLOGY COLLOQUIUM (1)
PR: Senior standing in Geology. Weekly topical lectures by faculty, graduate students and invited speakers. (S/U only)

GLY 4930 SELECTED TOPICS IN GEOLOGY (1-4)
Each topic is a course under the direction of a faculty member with the content depending on the interests of the students and faculty involved. All areas of geology included. Departmental permission required prior to registration.

GLY 4970 UNDERGRADUATE HONORS THESIS (3)
Open to seniors admitted to the Geology undergraduate honors program. Students will complete an independent research project under supervision of a faculty member, and present results in a senior thesis and a public presentation.

GLY 5246 GENERAL GEOCHEMISTRY (3)
PR: One year college chemistry, GLY 3200 or Cl. Applications of basic chemical concepts are used to investigate and explain geological processes, the age and formation of the earth, and environmental conditions.

GLY 5285C ANALYTICAL TECHNIQUES IN GEOLOGY (4)
PR: One year college chemistry, GLY 4310 or Cl. Use and application of modern analytical methods including X-ray, atomic absorption, and other geochemical techniques. Interpretation and statistical analysis of data acquired. Lec.-lab.

GLY 5315C IGNEOUS AND METAMORPHIC PETROLOGY (4)
PR: GLY 4310. Systematic study of igneous and metamorphic rocks and complexes, including origin, composition, and classification. Use of the polarizing microscope for thin-section analysis will be emphasized, and other modern methods of study will be employed. Lec.-lab.

GLY 5475C PRINCIPLES OF APPLIED GEOPHYSICS (4)
PR: Senior standing, one year of college physics and calculus, or Cl. Survey of modern exploration geophysics, including gravimetric, magnetic, electric, and seismic methods as applied to regional and exploration and site investigations. Lec.-lab-field trips.

GLY 5752 GEOLOGICAL FIELD EXCURSION (2)
Lectures and 2-3 week field excursion to study regional geology, structure and lithogenesis of geologically complex terrain. Mapping and outcrop description techniques are emphasized. Destination of trip varies. Trip requires camping and vigorous physical activity. Lec.-field trip.

GLY 5827C ADVANCED HYDROGEOLOGY (4)
PR: GLY 4822, MAC 3282 or MAC 3312 or Cl. Flow systems, analytical and numerical solutions to ground water flow problems. Emphasis on the theoretical aspects of ground water flow systems and their interaction with the geologic framework. Lec.

GLY 5865 STATISTICAL MODELS IN GEOLOGY (4)
PR: STA 3023 or equivalent or Cl. Application of statistical methods to geological problems. Emphasis on sampling plans, nature of geologic distributions, and application of analyses of variance to solving geological problems. Lec.

GLY 5912 SELECTED TOPICS IN GEOLOGY (1-4)
PR: Senior or advanced junior standing and Cl. Each topic is a course in directed study under supervision of a faculty member. All areas of geology included. Departmental permission required prior to registration.

OCE 3001 INTRODUCTION TO OCEANOGRAPHY -NS (3)
Overview of biological, chemical, geological, and physical oceanography. Does not count toward geology major. (Also listed under Marine Science.)

GERONTOLOGY

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

GKY 3601 BEHAVIOR CHANGES IN LATER LIFE (3)
PR: GKY 3000. A survey of physical and psychological aspects of aging from middle age through older age. Course emphasis will be on basic age-related changes and their implications for behavior in older age.

GKY 3625 SOCIOCULTURAL ASPECTS OF AGING -SA -SS -MW (3)
PR: GKY 3000. Consideration of human aging in a broad sociocultural context. Course emphasis will be on historical, philosophic, and demographic aspects of aging, theories of social gerontology, attitudes toward aging and the aged, cross-cultural perspectives on aging, the sociology of retirement, and aging and the community.

GKY 4327 LONG-TERM CARE ADMINISTRATION (3)
PR: GKY 3000, AGC 2011. A survey of Long Term Care (LTC) environments. Explored are such issues as definitions of LTC,
physiological conditions of LTC uses, the institutional setting, the sociopsychological context, and methods of evaluation and intervention.

GEY 4328 LONG-TERM CARE ADMINISTRATION II (3)
PR: GEY 4327. Administration of long-term care institutions from a group dynamics perspective. Emphasis on informed problem solving and decision-making via analysis of the psychosocial and sociocultural environment in the nursing home community. Course objective is to create efficient and humane living and working conditions in nursing homes.

GEY 4330 LONG-TERM CARE ADMINISTRATION III (3)
PR: GEY 4328. This course will familiarize the student with the basic aspects of nursing home administration through the practical application of management theory and concepts.

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

GEY 4401 RESEARCH METHODS IN GERONTOLOGY (3)
PR: STA 3122 or equivalent. Restricted to Gerontology majors, others by departmental permission. Methods and techniques of social research in gerontology. Design of gerontological studies, collection and analysis of data, interpretation of results, and preparation of reports.

GEY 4540 DEATH AND DYING (3)
PR: GEY 3000. A broad overview of the basic concepts and psychosocial issues relating to the meaning of loss and death, the process of dying, and the experience of grieving. Health care practices are considered along with community resources.

GEY 4900 DIRECTED READINGS (1-3)
PR: CI. A reading program with topics in gerontology conducted under the supervision of a faculty member.

GEY 4935 SPECIAL TOPICS IN GERONTOLOGY (3)
Courses on topics such as preretirement, mental health, human services organization, nursing home administration, the older woman, and elder abuse will be offered. May be repeated up to 6 credit hours.

GEY 4945 FIELD PLACEMENT (6-8)
PR: CI. Internship in an agency or community setting. A full-time assignment to an agency or organization, engaged in planning or administering programs for older people if in the BA program (6 hours), or to a nursing home if in the BS program (8 hours).

GEY 5520 SOCIOLOGICAL ASPECTS OF AGING (3)
Examines, within a sociological frame of reference, the interrelations between the aged (or aging) and the structure and function of the social systems and its major institutionalized sub-systems.

GEY 5530 ECONOMICS AND AGING (3)
Examines basic economic systems as they impact the aged. Emphasis is on applied aspects of economic planning, pensions, insurance, social security, and other support systems.

GEY 5542 PERSPECTIVES ON DEATH AND DYING (3)
Study of the various psychological, medical, legal, and religious problems caused by dying and death, and of how individuals and groups have responded in the past and present.

HUS 3001 INTRODUCTION TO HUMAN SERVICES (3)
An introduction to the field of human services. Study of the professions and agencies involved in providing human services. Analysis of the values and ethics of various professional associations.

HUS 4020 THE LIFE CYCLE (4)
An examination of individuals and the physiological and psychosocial changes which occur during infancy, childhood, adolescence, young adulthood, middle age and old age.

HUS 4100 INTERVIEWING (3)
PR: HUS 3001. The principles and techniques of interviewing. Use of interviewing in information gathering, research and helping relationships and developing skills in communication across cultural, social and age barriers.

HISTORY

AFH 3100 AFRICAN HISTORY TO 1850 - HP - NW (1)
An outline survey of pre-colonial African history including a pre-face to the use of primary sources (such as archaeology, oral tradition, cultural anthropology, comparative linguistics, documents) in reconstructing the African past. (Also offered under Africana Studies.)

AFH 3200 AFRICAN HISTORY SINCE 1850 - HP - NW (3)
Survey of the Colonial and post-colonial history of Africa. Emphasis on the impact of European and other alien influences on the continent, emergence of independent African states, and post-independence problems of nation building and economic development. (Also offered under Africana Studies.)

AMH 200 AFRICAN HISTORY I, II - HP (3)
A history of the United States with attention given to relevant developments in the Western Hemisphere, AMH 2010: European origins to 1877; AMH 2020: 1877 to present.

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

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

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

AMH 3145 THE AGE OF JACKSON (4)
The United States from 1828-1850, with emphasis on social and political conflict. Consideration of evangelicalism, reform, labor movements, urbanization, and political activity in the antebellum era.

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

AMH 3201 THE UNITED STATES, 1877-1929 (4)
A study of America from the end of Reconstruction to the stock market crash. Ranging over political, social, and diplomatic developments, the course covers industrialization, reform, imperialism, feminism, race relations and World War I.

AMH 3252 THE UNITED STATES SINCE 1929 (4)
The United States from the Great Depression to the present. Covering political, social and diplomatic developments, examines the New Deal, World War II, the Cold War, Viet Nam, civil rights, feminism and Watergate.

AMH 3402 THE OLD SOUTH (4)
A study of the American South from its colonial origins to the fall of the Confederacy in 1865. Emphasis on slavery and race, the Southern frontier, the development of sectional consciousness, and the coming of the Civil War.

AMH 3403 THE SOUTH SINCE 1865 (4)
Southern history since the surrender at Appomattox. Topics covered include Reconstruction, the Populist revolt, race relations, demogouery and disfranchisement, Southern women, and the Civil Rights Movement.

AMH 3421 EARLY FLORIDA (4)
A history of colonial Florida under the Spanish and English. Florida as an area of discovery, colonization, and imperial conflict; the emergence of Florida within the regional setting.

AMH 3423 MODERN FLORIDA (4)
An historical survey of Florida from the territorial period to the modern era. An examination of the social, political, and economic changes occurring in Florida between 1821 and the 1980s.

AMH 3500 AMERICAN LABOR HISTORY (4)
A study of American workers from the colonial period to the present. Examines the changing nature of work, its effects on workers (including minorities and women), and their responses as expressed in strikes, unions, and political action.

AMH 3510 U.S. DIPLOMATIC HISTORY TO 1898 - 6A (4)
The development of American Foreign Relations in the Agricultural era.
AMH 3511 U.S. DIPLOMATIC HISTORY IN THE 20TH CENTURY-64
A history of American Foreign Relations in the industrial era.

AMH 3530 IMMIGRATION HISTORY
A study of the composition and character of the "American" people with emphasis on the period from 1840s to the 1920s. Examines old world backgrounds of immigrants and their responses to the new world's social, economic and political conditions.

AMH 3540 UNITED STATES MILITARY HISTORY
A study of American military policy and practices from colonial days to the present. Attention is given both to tactics and to strategy in the unfolding formulation and development of American armed might.

AMH 3545 WAR AND AMERICAN EMPIRE
The U.S. evolved in 200 years from 13 colonies to the number one power in the world. To achieve this goal we utilized war to achieve empire. This course will examine the link between American War and empire from the Revolution through Viet Nam.

AMH 3561 AMERICAN WOMEN I
A study of women in the evolution of American society from European origins to 1877. Women's roles in the family, economy, politics, wars, and reform movements will be examined. (May also be taken for credit in Women's Studies.)

AMH 3562 AMERICAN WOMEN II
A study of women in the evolution of American society from 1877 to the present. Women's roles in the family, economy, politics, immigration, wars, religion and reform movements will be examined. (May also be taken for credit in Women's Studies.)

ASH 3404 MODERN CHINA
Political, economic, and social history of China from the time of the first major Western contact (17th-18th Centuries) through the consolidation of socialism in the late 1950's, and the Great Leap Forward.

ASH 3501 HISTORY OF INDIA
A study of the major themes of Indian history from the Indus culture to the present. Emphasis will be given to the Classical, Mogul and British periods as well as the modern independent subcontinent.

EIH 3511 ANCIENT HISTORY I -HP
An introductory survey of ancient history. EIH 2011 treats the ancient Near East and Greece from the origins of civilization to the full development of the Hellenistic kingdoms prior to conflict with Rome.

EIH 3512 ANCIENT HISTORY II
An introductory survey of ancient history. EIH 2012 deals with Rome through the Regal, Republican, and Imperial periods, from the beginnings of civilization in Italy to the division of the Roman Empire, A.D. 395.

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

EIH 2030, 2031 MODERN EUROPEAN HISTORY I, II -HP
A thematic survey of Europe in the modern age. EIH 2030 treats the period from the Renaissance to the French Revolution; EIH 2031, from the French Revolution to the present.

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

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

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

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

EIH 3197 MEDIEVAL POLITICS
An inquiry into the nature, distribution, and use of political power during the Middle Ages, in such institutions as feudalism, monarchy, cities, and the church.

EIH 3202 HISTORY OF 17TH AND 18TH CENTURY EUROPE
A history of Europe from the beginning of the Thirty Years' War to the outbreak of the French Revolution. Political and intellectual developments will be assessed in the light of society and the economy.

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

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

EIH 3300 BYZANTINE HISTORY
A survey of the Byzantine (eastern Roman) Empire from its founding in A.D. 330 to its collapse in 1453. Emphasis on the relationship between the Byzantine Empire and the course of European history and on the cultural heritage of this Empire.

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

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

EIH 3412 ROMAN REPUBLIC
A study of the Roman Republic from 509 B.C. to the assassination of Julius Caesar in 44 B.C., with a prelude treating Rome's early development under royal rule. Political growth and change provide the framework for the treatment.

EIH 3413 ROMAN EMPIRE
A study of Imperial Rome from the assassination of Julius Caesar in 44 B.C. to the death of the emperor Constantine in A.D. 337. Emphasized is Rome's government of a vast Mediterranean empire including much of the near East and Europe.

EIH 3460 GERMAN HISTORY 1
A political, social, and cultural approach to the history of the Germanies from 1500 through 1870, with emphasis on the Protestant Reformation, the rise of Brandenburg-Prussian, and the unification under Bismarck.

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

EIH 3501 BRITISH HISTORY TO 1688
A study of major developments in British history from the 15th century to 1688.

EIH 3502 BRITISH HISTORY 1688 TO PRESENT
A study of the major themes of British history since the Glorious Revolution, including social, political, and economic developments leading to the creation of the modern demographic welfare state.

EIH 3513 BRITISH EMPIRE AND COMMONWEALTH
A study of the development of the British Empire from the age of initial expansion overseas to the creation of the multinational commonwealth. Included are examinations of theory and myth of colonialism as well as the literature of imperialism.

EIH 3571 RUSSIAN HISTORY TO 1865
A survey of the social, political, economic, and cultural development of Russia from the year 800 to 1865. Topics include the
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 3930 SPECIAL TOPICS</td>
<td>This course emphasizes a selected historical problem or issue. A variety of instructional approaches will be taken, and topics may vary.</td>
<td></td>
</tr>
<tr>
<td>HIS 3930 SPECIAL TOPICS</td>
<td>This course is designed to emphasize a selected historical problem or issue that is meaningful and challenging to the student. A variety of instructional approaches will be taken to the material. Topics will be changed each semester.</td>
<td></td>
</tr>
<tr>
<td>HIS 4104 THEORY OF HISTORY</td>
<td>Recommended to be taken during the senior year. Required of all history majors. An analysis of the foundations of historical knowledge and historical methodology. Includes a survey of historical thinking and writing from ancient times to the present.</td>
<td></td>
</tr>
<tr>
<td>HUM 2930 SELECTED TOPICS</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>HUM 2930 SELECTED TOPICS</td>
<td>A thematic study of the interrelationship of science and society, value structures, and social relations in science as they have developed from the scientific revolution to the present.</td>
<td></td>
</tr>
<tr>
<td>HUM 3243 STUDIES IN CULTURE: THE RENAISSANCE THROUGH THE NINETEENTH CENTURY</td>
<td>A historical survey of the visual arts, literature, music and thought of Europe from the Renaissance through the nineteenth century. Issues to be examined may include the relationship between science and the arts and the consequences of the growing contacts among world civilizations.</td>
<td></td>
</tr>
<tr>
<td>HUM 3251 STUDIES IN CULTURE: THE TWENTIETH CENTURY</td>
<td>A comparative treatment of music, visual arts, theatre, literature, and philosophy in the East and West, proceeding chronologically from Ancient times through the Middle Ages, emphasizing Europe and India.</td>
<td></td>
</tr>
<tr>
<td>HUM 4200 HUMANITIES IN THE ORIENT: INDIA</td>
<td>A study of the poetry, drama, films, paintings, music, and literature of India and the relationship of these arts to the Buddhist philosophy-religions.</td>
<td></td>
</tr>
<tr>
<td>HUM 4202 HUMANITIES IN THE ORIENT: CHINA</td>
<td>May be repeated for credit with change of content.</td>
<td></td>
</tr>
<tr>
<td>HUM 4405 HUMANITIES IN THE ORIENT: JAPAN</td>
<td>A study of the poetry, drama, films, paintings, music, and literature of Japan, their relationship to Zen Buddhism and other Japanese philosophy-religions; Western influences on twentieth century Japanese arts and letters.</td>
<td></td>
</tr>
<tr>
<td>HUM 4433 CLASSICAL ARTS AND LETTERS</td>
<td>A study of the poetry, drama, philosophy, historical writing, painting, sculpture and architecture of ancient Greece, including such authors as Homer, Sophocles, and Plato, and monuments such as the Parthenon.</td>
<td></td>
</tr>
<tr>
<td>HUM 4435 MEDIEVAL ARTS AND LETTERS</td>
<td>A study of the culture of Europe and the Mediterranean world from the 4th to 11th centuries through readings of early Medieval historians, poets, and theologians, as well as the study of illuminated manuscripts, mosaics, paintings and architecture.</td>
<td></td>
</tr>
<tr>
<td>HUM 4436 MEDIEVAL ARTS AND LETTERS</td>
<td>A study of the culture of Western</td>
<td></td>
</tr>
</tbody>
</table>
Europe from the 9th to 14th centuries. Readings will include poetry and religious works; examples of painting, architecture, sculpture and music will be studied.

**HUM 4437 RENAISSANCE ARTS AND LETTERS I**
PR: Sophomore standing or CI. A study of the Italian Renaissance, 1300-1580, emphasizing Humanism, painting, architecture, literature, music and sculpture. Special study will be done of Petrarch, Giotto, DuVinci, and Michelangelo.

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

**HUM 4439 ARTS AND LETTERS IN THE 17TH AND 18TH CENTURIES**
PR: Sophomore standing or CI. This course includes the arts, literature, and music of the Baroque, Rococo, and Neo-Classical periods with special study of Rubens, Rembrandt, Bach, Haydn, and Mozart.

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

**HUM 4444 NINETEENTH CENTURY ARTS AND LETTERS**
PR: Sophomore standing or CI. A study of continental literary, musical, and art masterworks from the Revolutions of 1848 until the outbreak of World War I.

**HUM 4445 TWENTIETH CENTURY ARTS AND LETTERS I**
PR: Sophomore standing or CI. Analysis of selected works of twentieth century art. The course will focus on a particular phase in the development of modernism, a set of themes, or certain stylistic aspects of various arts of the twentieth century.

**HUM 4446 TWENTIETH CENTURY ARTS AND LETTERS II**
PR: Sophomore standing or CI. Analysis of selected works of twentieth century art. The course will focus on a particular phase in the development of modernism, a set of themes, or certain stylistic aspects of various arts of the twentieth century.

**HUM 4452 HUMANITIES IN AMERICA I**
PR: Sophomore standing or CI. Study of selected works of art, tracing the course of westward expansion in civilization, and the interaction between the arts and the sciences in American ways of life and work, 1790-1890.

**HUM 4455 HUMANITIES IN AMERICA II**
PR: Sophomore standing or CI. Study of selected works, tracing the course of expansion in the production and enjoyment of works of art, and interaction between the idealistic and pragmatic concerns for development of the arts in the 20th century.

**HUM 4456 LATIN AMERICAN ARTS AND LETTERS I**
PR: Sophomore standing or CI. Analysis of selected Latin American works of art in their cultural context, with emphasis on major art forms selected from the Pre-Columbian period.

**HUM 4464 LATIN AMERICAN ARTS AND LETTERS II**
PR: Sophomore standing or CI. Analysis of selected Latin American works of art in their cultural context, with emphasis on major art forms selected from the colonial through contemporary periods.

**HUM 4905 DIRECTED STUDY**
PR: CI. Specialized individual study determined by the student’s needs and interests.

**HUM 4930 SELECTED TOPICS IN HUMANITIES**
PR: Sophomore standing or CI. This course will deal with a recurrent theme in the arts as, for example, love or death, or will focus on artistic centers such as Renaissance Florence or Paris in the 1920s. Topics will vary; course may be repeated for credit with change of content.

**HUM 4931 SEMINAR IN HUMANITIES -54**
PR: Humanities major or CI; Senior standing. Discussion of interdisciplinary humanities. Includes essay. (Fall term only.)

**HUM 4938 MAJOR ISSUES IN THE HUMANITIES -XMW**
The study of an important topical issue in the Humanities. Materials representing diverse views relating to that issue will be read, and works of art in different media that have relevance to the debate will be studied. Available to majors and non-majors. May be repeated up to 6 credit hours with change in content.

**HUM 4941 STUDY ON LOCATION**
The art of a culture will be examined during travel in groups, led by an instructor, to important cities or sites. Monuments, museums, architecture, plays, and/or concerts will be studied. Reading assignments and lectures.

**INTERDISCIPLINARY ARTS AND SCIENCES**

**LIBERAL STUDIES**

**IDS 2931 SELECTED TOPICS**
PR: Sophomore standing or CI. A study of selected works of art from the 1920s. Topics will vary; course may be repeated for credit with change of content.

**IDS 3300 STRUCTURES OF KNOWLEDGE AND KNOWING**
PR: Sophomore standing or CI. A study of the social and cultural aspects of human knowledge and awareness as reflected in the classic distinctions: sensory/motor/emo­tive; normative/descriptive/non-rational; logical/mathematical; ethical/physical/moral; qualitative/quantitative; mind/will/body; substance and function.

**IDS 3310 PROGRESS AND UTOPIA**
PR: Sophomore standing or CI. A study of the social and cultural aspects of human knowledge and awareness as reflected in the classic distinctions: sensory/motor/emo­tive; normative/descriptive/non-rational; logical/mathematical; ethical/physical/moral; qualitative/quantitative; mind/will/body; substance and function.

**IDS 4344 SEMINAR: MAN AND NATURE**
PR: Senior standing or CI. A study of the social and cultural aspects of human knowledge and awareness as reflected in the classic distinctions: sensory/motor/emo­tive; normative/descriptive/non-rational; logical/mathematical; ethical/physical/moral; qualitative/quantitative; mind/will/body; substance and function.

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

**MEDICAL TECHNOLOGY**

**MLS 3031 INTRODUCTION TO MEDICAL TECHNOLOGY**
PR: Sophomore standing or CI. A study of the social and cultural aspects of human knowledge and awareness as reflected in the classic distinctions: sensory/motor/emo­tive; normative/descriptive/non-rational; logical/mathematical; ethical/physical/moral; qualitative/quantitative; mind/will/body; substance and function.

**MLS 4860 CLINICAL MICROSCOPY I**
PR: Senior standing or CI. An introduction to clinical microbiology. Lecture and laboratory instruction such as urinalysis, parasitology, and histological technique. A hospital internship course for medical technology majors.

**MLS 4861 CLINICAL MICROSCOPY II**
PR: Senior standing or CI. An introduction to clinical microbiology. Lecture and laboratory instruction such as urinalysis, parasitology, and histological technique. A hospital internship course for medical technology majors.

**MLS 4862 HEMATOLOGY**
PR: Senior standing or CI. An introduction to clinical microbiology. Lecture and laboratory instruction such as urinalysis, parasitology, and histological technique. A hospital internship course for medical technology majors.

**MLS 4863 CLINICAL BACTERIOLOGY**
PR: Senior standing or CI. An introduction to clinical microbiology. Lecture and laboratory instruction such as urinalysis, parasitology, and histological technique. A hospital internship course for medical technology majors.

**MLS 4864 CLINICAL CHEMISTRY I**
PR: Senior standing or CI. An introduction to clinical microbiology. Lecture and laboratory instruction such as urinalysis, parasitology, and histological technique. A hospital internship course for medical technology majors.

**MLS 4865 CLINICAL CHEMISTRY II**
PR: Senior standing or CI. An introduction to clinical microbiology. Lecture and laboratory instruction such as urinalysis, parasitology, and histological technique. A hospital internship course for medical technology majors.
INTERDISCIPLINARY SOCIAL SCIENCES

ISS 3010 INTRODUCTION TO THE SOCIAL SCIENCES
An introduction to the fields within the social sciences. Emphasis is placed on the concepts, theories methodologies and applications used in the social sciences. Course may be taken by non-majors.

ISS 3930 SELECTED TOPICS IN THE SOCIAL SCIENCES
Interdisciplinary studies with course content dependent on student demand and instructor's interest. May be repeated as topics vary.

ISS 4152 THE CITY AND URBANIZATION
An introduction to the city and urbanization. Urban planning and governance will be examined in looking at how urban areas deal with social and physical problem.

ISS 4154 URBAN SOCIAL ISSUES: AN INTERDISCIPLINARY APPROACH
This course is designed to examine current social issues from an interdisciplinary perspective. Topic selection will be within the broad framework of technological changes, economic conditions, political ideologies, and their impact on changing social patterns.

ISS 4900 SELECTED READINGS
PR: CI. A supervised program of intensive reading of interdisciplinary materials in areas of specific interest. May be repeated.

ISS 4910 DIRECTED RESEARCH
PR: CI. A supervised program of interdisciplinary research in areas of specific interest. May be repeated.

ISS 4935 SEMINAR IN THE SOCIAL SCIENCES
PR: Senior standing and ISS 3010. A capstone course designed to provide an in-depth study of topical areas related to the social sciences. Course may be taken by non-majors.

ISS 5934 SELECTED TOPICS
PR: CI plus senior standing or graduate status. Interdisciplinary studies with course content dependent on student demand and instructor's interest. May be repeated as topics vary.

STA 3122 SOCIAL SCIENCE STATISTICS -6A -QM
This course is designed to introduce concepts, theories, and assumptions that underlie specific techniques used in the social sciences. Emphasis is placed on selection of appropriate techniques given the research design to be utilized.

INTERNATIONAL STUDIES

AREA STUDIES
Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic, anthropological, and sociological analysis in dealing with salient features and current problems. The same course may be repeated, but only when the countries of concentration differ. The regularly offered area study courses are:

AFA 4750 AFRICA AND THE UNITED STATES
ASN 3012 JAPAN TODAY
ASN 3014 CHINA TODAY
ASN 3030 THE MIDDLE EAST
EUS 3041 SOUTH AFRICA
EUS 3022 RUSSIA
LAS 3002 LATIN AMERICA
INR 1015 WORLD PERSPECTIVE
An interdisciplinary study of the international system, major world regions and problems.
INR 2085 WORLD TENSIONS
A study of the major causes and consequences of critical tensions which lead to serious social disturbances among and within the independent states of the world.
INR 2930 SELECTED TOPICS
International studies with course content dependent on student demand and instructor's interest. For non-majors only. May be repeated as topics vary.

INR 3003 INTRODUCTION TO INTERNATIONAL STUDIES
An interdisciplinary study which stresses methods and analysis. A major portion will focus on the roles which different disciplines play in interpreting the international scene.

INR 3018 WORLD IDEOLOGIES -XMW
A course which details and examines the ideologies of today's independent countries; analyzing them in their political, social, cultural and historical contexts.

INR 3038 INTERNATIONAL WEALTH AND POWER -SS
Introduction to the relationship between politics and economics, emphasizing the analysis of government policies in response to both domestic and international economic problems.

INR 3087 DIRECTED RESEARCH
Senior standing and instructor's interest. May be repeated as topics vary.

INR 3097 DIRECTED RESEARCH
Senior status. The purpose of the course is to promote the student's understanding of global international issues within a local and practical context. (For majors only.)

INR 4936 SENIOR SEMINAR -XMW
PR: International Studies major and senior standing. A variable topics seminar integrating concepts and analyses relating to the academic background of INT majors. Should be taken in the student's final semester.

INR 4943 INTERNSHIP IN INTERNATIONAL STUDIES
PR: Senior status. The purpose of the course is to promote the student's understanding of global international issues within a local and practical context. (For majors only.)

WST 3275 WOMEN IN THE DEVELOPING WORLD
A comparative study of women's status in various developing nations with that in various industrialized states. (Also offered under Women's Studies Program.)
COLLEGE OF ARTS AND SCIENCES
UNIVERSITY OF SOUTH FLORIDA - 1994/95 UNDERGRADUATE CATALOG

LIBRARY AND INFORMATION SCIENCE
LIS 2001 INFORMATION RESOURCES AND LIBRARY RESEARCH
An introduction to the resources of the University of South Florida Library. Emphasis will be placed on library materials germane to the course work of the undergraduate.
LIS 2937 SELECTED TOPICS IN LIBRARY/INFORMATION SCIENCE
Covers a variety of topics in the field of library/information science such as emerging technologies, administration and service, and current professional issues. May be repeated up to 9 credit hours total when topic varies.
LIN 3010 INTRODUCTION TO LINGUISTICS
An introduction to the resources of the PR. Overview of the introduction to the study of current trends, issues, and problems inherent in both the community and the basic elements, functions, purposes, directions, programs, etc. inherent in both the community college and the library resources center which serves it.
LIN 3035 SELECTED TOPICS IN LIBRARY STUDIES
PR: CI. Covers a variety of topics in such areas as collection development, reference services, technical services, and administration.

LINGUISTICS
ENS 1483 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.
ENS 1484 ENGLISH FOR FOREIGN STUDENTS II
PR: ENS 1483 or CI. A continuation of ENS 1483. Emphasis on reading and composition.
LIN 3010 INTRODUCTION TO LINGUISTICS
Introduction to the basic principles of linguistic science; phonological and grammatical analysis and description; language change and genetic relationships.
LIN 3801 LANGUAGE AND MEANING -64
A survey introduction for non-specialists to the basic principles of semantics and the way language conveys ideas. This course is also available on WUSF/TV Channel 16 by the O.U. Program.
LIN 4040 DESCRIPTIVE LINGUISTICS
PR: LIN 3010 or CI. Introduction to the basic techniques of formalizing linguistic descriptions through elementary phonological, morphological, and syntactic data solution-problems drawn from a variety of languages. Both taxonomic and generative analysis and descriptions will be developed and compared.
LIN 4575 LANGUAGE TYPES OF THE WORLD
An introduction to linguistic typology consisting in a systematic comparison of characteristic representatives of the various language types, such as Vietnamese, Malay, Hungarian, Swahili, Sanskrit, Hebrew, and others. No knowledge of any of these languages on the part of the student is presumed.
LIN 4600 LANGUAGE AND SOCIETY
PR: LIN 3010. An analysis of the interrelation of a language and the structure of the society using it. The linguistic behavior patterns characteristic of particular social, political, economic, educational, and racial groups. Problems in communication between strata.
LIN 4710 LANGUAGE AND COMMUNICATION: ACQUISITION AND DEVELOPMENT
PR: LIN 3010. A survey of current research and theory in the processes of normal acquisition and development of language and communication in children. The acquisition and development of phonology, syntax, semantics, pragmatics, and non-verbal communication and the role of language in general cognitive development.
LIN 4903 DIRECTED READING
PR: CI. Readings in special topics. Must be arranged prior to registration.
LIN 4930 SELECTED TOPICS
PR: CI. Course content depends upon students' needs and instructor's interest and may range over the entire field of linguistics.
LIN 5700 APPLIED LINGUISTICS
Analysis of the phonological, morphological, and syntactic features of English as a basis for linguistic application to problems of English language acquisition by non-native speakers.
TSL 4374 METHODOLOGY OF TEACHING ENGLISH OVERSEAS
PR: Upper-level standing. Designed to introduce and prepare the enrollee in the various facets of teaching English as a foreign language in the overseas setting. It will include aspects of teaching verbal skills and comprehension as well as writing. It involves a practicum at the English Language Institute on campus.
TSL 5321 ESOL STRATEGIES FOR CONTENT AREA TEACHERS
This course is designed for public school teachers working with limited English proficient (foreign) students in the classroom. The new ESOL requirements specify that this course be offered to content area teachers and to ESOL teachers. May not be repeated for additional credit hours.
TSL 5371 METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE
Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.
TSL 5471 LANGUAGE TESTING
PR: TSL 5371. This is a lecture course on the methodology of testing English as a second/foreign language. May not be repeated for additional credit hours.
TSL 5525 CROSS CULTURAL ISSUES IN ESL
PR: LIN 5700. This is a lecture course on cultural issues in teaching English as a second/foreign language. May not be repeated for additional credit hours.

MARINE SCIENCE
OCE 3001 INTRODUCTION TO OCEANOGRAPHY
Overview of biological, chemical, geological, and physical oceanography. (Also listed under Geology.)

MASS COMMUNICATIONS
ADV 3000 INTRODUCTION TO ADVERTISING
PR: MMC 3100 and MMC 3602. A study of the structures, functions, and persuasive language of advertising in mass media with attention to social, political, economic, and legal aspects.
ADV 3002 ADVERTISING DESIGN
PR: ADV 3000 for advertising majors; VIC 3000 for other Mass Comm majors. Application of graphic design principles to various areas of advertising. Combining visual and verbal elements effectively.
ADV 3101 ADVERTISING COPYWRITING
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
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
ADV 3700 RETAIL ADVERTISING PLANNING AND EXECUTION
PR: ADV 3000 and ADV 3101. A study of retail advertising, including management decisions, processes, procedures, media planning, production techniques, and problems affecting the development of advertising to fulfill retail objectives.
ADV 4800 ADVERTISING CAMPAIGNS (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 4945 ADVERTISING PRACTICUM (1)
PR: 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 4805 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.

JOU 3100 BEGINNING REPORTING (3)
PR: MMC 3100 and MMC 3602. Basic instruction in news judgment, sources of news, newsgathering, 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 2100, JOU 3100. Planning, researching, writing, and marketing articles for general and special interest magazines and newspaper magazine supplements; experiences in developing article idea; inductive analysis of contemporary magazine articles.

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 personal columns.

JOU 3500 REPORTING PRACTICUM (1)
PR: JOU 3101 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 1003, JOU 3100, and SYG 3010. Evaluating news and its display; editing and rewriting copy for the mass media, with emphasis on the daily newspaper; news judgment, headlines, makeup; ethical problems.

JOU 4206 NEWSPAPER DESIGN AND TYPOGRAPHY (3)
PR: JOU 4200 or CI. Theoretical and practical applications of newspaper design; problems in newspaper layout; the research of newspaper typography and design and its application; redesign of contemporary newspapers.

JOU 4941 EDITING PRACTICUM (1)
PR: Senior standing, JOU 4200 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 news editor. (S/U only.)

JOU 4944 MAGAZINE PRACTICUM (1)
PR: Senior standing and CI. For selected Magazine Sequence majors. Practical experience outside the classroom in a live magazine or industrial publication situation where the student works for academic credit under the tutelage of a professional practitioner. (S/U only.)

JOU 5116 EXPLORATIONS IN NEWSWRITING (3)
PR: Graduate Status in Mass Communications or CI. Students work to develop writing styles, reporting on and creating stories about significant issues, events, and ideas. The course explores the notion that narrative-style journalism can be accurate, thorough, fair, and compelling, effectively bringing readers into stories and giving them a bigger stake in the news. The focus is on going beyond traditional practices of reporting and writing news stories.

MMC 3100 WRITING FOR THE MASS MEDIA (3)
PR: Sophomore standing; 2.7 GPA; 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 (3)
PR: Sophomore standing. A survey of the history, theory processes, and philosophy of mass communications and the mass media in the United States, and their relationship to the other major institutions of American society.

MMC 4123 MEDIA SCRIPT WRITING (3)

MMC 4200 HISTORY AND PRINCIPLES OF COMMUNICATIONS LAW (3)
PR: MMC 3100 and MMC 3602. Historical and constitutional boundaries of freedom of expression and the role of mass communications and the mass media in the United States, and their relationship to the other major institutions of American society.

MMC 4203 COMMUNICATION ETHICS (3)
PR: MMC 3602 and MMC 3100 or CI. A study of the fundamental principles and philosophies of ethics and their application to the decision-making process in the various professions of mass communications.

MMC 4420 RESEARCH METHODS IN MASS COMMUNICATIONS (3)
PR: MMC 3100, MMC 3602. An introduction to the theory and practice of quantitative and historical research methods as applicable to the study of media and mass communications. Emphasis is on survey research, interpretation of data, and report writing.

MMC 4900 DIRECTED READING IN MASS COMMUNICATIONS (1-3)
PR: Junior standing, CC and CI. Reading and directed study in special topics.

MMC 4910 INDIVIDUAL RESEARCH IN MASS COMMUNICATIONS (1-3)
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 4930 SELECTED TOPICS IN MASS COMMUNICATIONS STUDIES (1-3)
PR: Junior standing. Courses designed to meet current or specific topics of interest to instructors and students.

MMC 4945 MEDIA INTERNSHIP-SEMINAR (3)
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.

PGY 3610 PHOTOJOURNALISM I (3)
PR: MMC 3100 and MMC 3602. Camera operation, darkroom techniques, picture composition; editing, ethics, history, and laws in connection with photojournalism.

PGY 3612 PHOTOJOURNALISM II (3)
PR: PGY 3610. Advanced process and practice of photography for publication. Content includes advanced camera and laboratory techniques, publication requirements and theory of photo-
chemical color separation used in magazine and newspaper. Emphasis is placed on student production.

PGY 4110C COLOR PHOTOGRAPHY (3) 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 (3) PR: 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 (3) PR: PUR 4401, 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 (3) 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 4001 PUBLIC RELATIONS: ISSUES, PRACTICES AND PROBLEMS (3) PR: PUR 3000. The theory of public relations practice and its application in the real world. The role of the public relations practitioner in business, government and social institutions, and the nature of specialized areas of the practice. Identification of public issues, analysis of potential impact on organizations and development of strategies to deal with them successfully and responsibly. Communication techniques and trends.

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 3002 INTRODUCTION TO TELECOMMUNICATIONS (3) PR: MMC 3100 and MMC 3602. A survey of the organization, structure, and function of the broadcasting industry.

RTV 3100 RADIO PROGRAMMING (3) PR: ENC 3310 or CRW 2100, RTV 3002. The writing of radio and television scripts such as documentaries, children's programs, commercials, dramas, talks, and demonstrations.

RTV 3210 RADIO PRODUCTION AND DIRECTION (3) PR: RTV 3002. Radio production and direction; laboratory and production experiences.

RTV 3225 VIDEO WORKSHOP (1) PR: MMC 3100 and MMC 3602. An introduction to the techniques and applications of field television production and electronic editing.

RTV 3300 BROADCAST NEWS (4) PR: MMC 3602 AND MMC 3100. The study and methods in gathering, writing, and editing newscasts for radio and television.

RTV 3941 RADIO PRACTICUM (1) PR: RTV 3210 and CI. The study, rehearsal, and production of radio programs and materials. (S/U only.)

RTV 4220 TV PRODUCTION AND DIRECTION (3) PR: RTV 3002, and junior standing. A basic course in the techniques of producing and directing TV programs.

RTV 4301 TV NEWS FILM (3) PR: RTV 3002 and RTV 3300. Techniques in writing and filming for television news.

RTV 4320 ELECTRONIC FIELD PRODUCTION (3) PR: RTV 3002 and RTV 3300. Advanced producing, scripting, lighting, camera, and editing for video production on location. Introduction to computer editing and graphics.

RTV 4500 PHOTOGRAPHY/PRODUCTION (3) PR: RTV 3002. Program concepts, resources, costs, selection and scheduling. Analysis of programming in terms of structures, appeals and strengths.

RTV 4700 TELECOMMUNICATIONS LAW AND POLICY (3) PR: for Broadcast News Option: RTV 3002, RTV 3300, MMC 4200, POS 3142 AND CI. Programming Option: RTV 3002, RTV 4500, RTV 3100 or RTV 3300, and Senior standing. A study of broadcasting industry from the perspective of governmental regulation and the political process with special emphasis on how regulatory policy is determined.

RTV 4949 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.)

MATHEMATICS

CGS 3422 COMPUTER APPLICATIONS OF MATHEMATICS -6A (3) CR: MAS 3103. Introduction to FORTRAN (WATFIV) with special emphasis on its applications to Mathematics.

COP 4210 MATHEMATICAL PROBLEM SOLVING USING PASCAL -6A (3) PR: MAS 3103, and the ability to program at least one other language. The highly structured programming language PASCAL is used to solve numerical and non-numerical problems in mathematics involving graph theory, combinatorics, and number theory. Non-numerical data structures and algebraic manipulation are emphasized.

MAA 4211 MULTIVARIATE CALCULUS -6A (4) PR: MAS 3313 or MAC 2833 with a grade of "C" or better, MAS 4301 and MAS 3103. Vector-valued functions, multiple integrals, line and surface integrals.

MAA 4212 INTERMEDIATE ANALYSIS -6A (4) PR: MAA 4211. A theoretical treatment of differential and integral calculus of one and several variables. Emphasis on techniques of proof.

MAA 5306 REAL ANALYSIS I (3) PR: MAA 4212. Riemann-Stieljes integrals, uniform convergence, Fourier series, Lebesgue measure and integration on R.

MAA 5307 REAL ANALYSIS II (3) PR: MAA 5306. Metric spaces, Banach spaces, and function spaces; measure and integration on abstract spaces.

MAA 5405 APPLIED COMPLEX ANALYSIS (3) CR: CI. Complex numbers, analytic and harmonic functions. Series. Contour integrals, residue theory. Conformal mappings. (A survey course emphasizing techniques and applications.)

MAC 2102 COLLEGE ALGEBRA -6A -QM (3) PR: Two years of high school algebra. Concepts of the real number system, functions, graphs, and complex numbers. Analytic skills for solving linear, quadratic, polynomial, exponential, and logarithmic equations. Mathematical modeling of real life applications.

MAC 2114 COLLEGE TRIGONOMETRY -6A (2) PR: Two years of high school algebra. Angles, Trigonometric functions, properties and graphs of trigonometric functions, right triangles, laws of sines and cosines, polar coordinates. (No credit for students with credit in MAC 2132.)

MAC 2132 COLLEGE ALGEBRA AND TRIGONOMETRY -6A -QM (4) PR: Two years of high school algebra. Real numbers and their properties, algebraic expression, equations and inequalities, functions, polynomials, exponential and logarithmic functions. Angles, trigonometric functions, properties and graphs of trigonometric functions, right triangles, laws of sines and cosines, polar coordinates. (No credit for MAC 2132 for students with credit in MAC 2233 or MAC 2102.)

MAC 3233 ELEMENTARY CALCULUS I -6A -QM (4) PR: Three years of high school mathematics including two years.
of algebra or MAC 2102. Differentiation and integration of algebraic functions with applications, exponential and logarithmic functions. MAC 3233-MAC 3234 are primarily for students from Biological Sciences, Social Sciences and Business. (No credit for math majors or students with credit in MAC 3281 or MAC 3311.)

MAC 3234 ELEMENTARY CALCULUS II -6A -QM
PR: MAC 3233. Techniques of integration, differential equations, functions of several variables, series and Taylor polynomials. (No credit for Mathematics majors or students with credit in MAC 3281 or MAC 3311.)

MAC 3281 ENGINEERING CALCULUS I -6A -QM
PR: Two years of high school algebra, and a semester of trigonometry or MAC 2132. A year of high school geometry is recommended. Differentiation, limits, differentials, extrema, indefinite integral. (No credit for students with credit in MAC 3233 or MAC 3311.)

MAC 3282 ENGINEERING CALCULUS II -6A -QM
PR: MAC 3281 or CC. Definite integral, trigonometric functions, log, exponential, series, applications. (No credit for students with credit in MAC 3234 or MAC 3312.)

MAC 3283 ENGINEERING CALCULUS III -6A
PR: MAC 3282 or CC. Techniques of integration, numerical methods, analytic geometry, polar coordinates, Vector algebra, applications. (No credit for students with credit in MAC 3234 or MAC 3282.)

MAC 3311 CALCULUS I -6A -QM
PR: Two years of high school algebra, and a semester of trigonometry or MAC 2132. A year of high school geometry is recommended. Limits, derivatives, applications. (No credit for students with credit in MAC 3233 or MAC 3282.)

MAC 3312 CALCULUS II -6A
PR: MAC 3311 with a grade of "C" or better or CC. Antiderivatives, the definite integral, applications, series, log, exponential and trig functions. (No credit for students with credit in MAC 3234 or MAC 3282.)

MAC 3313 CALCULUS III -6A
PR: MAC 3312 with a grade of "C" or better or CC. Integration, polar coordinates, conic sections, vectors, indeterminate forms and proper integrals. (No credit for students with credit in MAC 3234.)

MAD 3100 DISCRETE MATHEMATICS -6A
PR: MAC 3281 or MAC 3311. An introduction to some of the aspects of discrete mathematics that are fundamental to digital computing. Topics include sets, numbers, algorithms, Boolean algebra, computer arithmetic, elementary combinatorics and an introduction to graph theory.

MAD 4401 NUMERICAL ANALYSIS -6A
PR: MAS 3103; ability to program a digital computer. Interpolation and quadrature, finite differences, numerical solution of algebraic and transcendental equations, numerical solution of differential equations, computer techniques.

MAD 5101 LISP: PROGRAMMING WITH ALGEBRAIC APPLICATIONS
PR: MHP 5306 or MAD 6510 or MAS 5311 or CI. Programming in LISP, functional languages, foundations of Lambda Calculus and algebraic applications (theorem proving and game playing).

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

MAE 5875 ABSTRACT ALGEBRA FOR TEACHERS
PR: MAS 3103 and MAS 4301 and bachelor's degree or CC. Groups, fields, vector spaces as they relate to high school algebra and geometry. (No credit for Mathematics majors.)

MAE 5877 MATHEMATICAL ANALYSIS FOR TEACHERS
PR: MAC 3317 or MAC 3313 or CI. Advanced consideration of limits continuity, derivatives, differentials. (No credit for Mathematics majors.)

MAP 4302 DIFFERENTIAL EQUATIONS -6A
PR: MAC 3283 or MAC 3313. First order linear and nonlinear differential equations, higher order linear equations, applications.

MAP 4316 ORDINARY DIFFERENTIAL EQUATIONS I
PR: MAP 4302, MAA 4211, or CI. Existence and uniqueness theory, properties of solutions, linear systems, stability theory, Sturm-Liouville theory.

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

MAP 5345 APPLIED PARTIAL DIFFERENTIAL EQUATIONS
PR: MAP 5407 or CI. Separation of variables, the heat equation, wave equation, Laplace's equation, classification, Green's functions, with emphasis on applications.

MAP 5407 METHODS OF APPLIED MATHEMATICS
PR: MAP 4302 or CI. Sturm-Liouville theory, Fourier series, Green's functions, matrix methods for linear systems of ordinary differential equations, and topics from calculus of variations, control theory, numerical solutions of differential equations.

MAS 3103 LINEAR ALGEBRA -6A
CR: MAC 3283 or 3313. Linear equations, matrices, real vector spaces, relationship between linear transformations and matrices, determinants, inner product spaces, eigenvalues and eigenvectors.

MAS 4124 NUMERICAL LINEAR ALGEBRA -6A
PR: MAS 3103. This course will consider efficient and stable numerical methods for dealing with matrix computations such as the solution of systems, calculation eigenvalues and vectors, least squares, and so on.

MAS 5316 VECTOR ANALYSIS -6A
PR: MAC 3313 or MAC 3283 or CI. The algebra and calculus of vectors, line and surface integrals, Divergence Theorem, Stokes' Theorem, generalized coordinates, applications. (No credit for both MAA 4211 and MAS 4156.)

MAS 4214 ELEMENTARY NUMBER THEORY
PR: MAC 3112. Divisibility, prime numbers, Fundamental Theorem of Arithmetic, Diophantine equations, the algebra of congruences, number functions and other selected topics.

MAS 4301 ELEMENTARY ABSTRACT ALGEBRA -6A
PR: MAC 3311 or MAC 3281. An introduction to basic set theory: sets, functions, and relations. An introduction to the basic algebraic structures: groups, rings, and fields. Homomorphisms and isomorphisms. A rigorous treatment of the real and complex number systems.

MAS 5107 ADVANCED LINEAR ALGEBRA
PR: MAS 3103, MAS 4301 (or MHP 4102) or CI; CR: MAS 5311. The study of finite dimensional vector spaces over arbitrary fields. Topics covered include dual spaces, canonical forms for linear transformations, inner product spaces, orthogonal, unitary and self-adjoint operators and quadratic forms.

MAS 5215 NUMBER THEORY
PR: MAS 3103 and MAS 4301, or CI. Fundamental theorem of arithmetic, modular arithmetic, Chinese remainder theorem, Mersenne primes, perfect numbers, Euler-Fermat theorem, pseudoprimes, primitive roots, law of quadratic reciprocity, factorization and primality testing algorithms.

MAS 5311 ALGEBRA I
PR: MAS 3103 and MAS 4301, or CI. Group theory; Sylow theorems; classification of groups of small order. Ring theory: ideals, quotient rings, polynomial rings, Euclidean domains, principal ideal domains and unique factorization.

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

MAT 2930 SELECTED TOPICS IN MATHEMATICS
PR: CI. The course content will depend on the interest of faculty members and student demand.

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

MAT 4930 SELECTED TOPICS IN MATHEMATICS -6A
PR: CI. The course content will depend on the interest of faculty members and student demand.

MAT 4937 MATHEMATICS MAJORS SEMINAR -6A
(1) Directed discussions on a variety of topics of interest to math majors, including career opportunities in mathematics. May be repeated up to 2 credit hours. (S/U only.)
discrete probability functions, continuous probability densities including normal, gamma, & (Greek letter Chi), and Weibull, and transformations of random variables.

**STA 5166 COMPUTATIONAL STATISTICS I**

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

**STA 5228 SAMPLING TECHNIQUES**


**STA 5326 MATHEMATICAL STATISTICS**

PR: STA 5446. Sample distribution theory, point and interval estimation, optimality theory, statistical decision theory and hypothesis testing.

**STA 5446 PROBABILITY THEORY I**

PR: STA 4442 and MAA 4212 or CI. Axioms of probability, random variables in Euclidean spaces, moments and moment generating functions, modes of convergence, limit theory for sums of independent random variables.

**STA 5447 NON-PARAMETRIC STATISTICS**

PR: STA 5326, CC. Theory and methods of non-parametric statistics, order statistics, tolerance regions and their applications.

**MODERN LANGUAGES**

**General Foreign Languages**

**FOL 3100 GENERAL FOREIGN LANGUAGE I**

A general purpose course that may be used for transfer of credit, credit by examination, and similar matters; may also be used for formal courses in less commonly taught languages or in professional translation.

**FOL 4101 GENERAL FOREIGN LANGUAGE II**

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**

Departmental approval required.

**FOL 5906 DIRECTED STUDY**

PR: FOL 4101 or equivalent.

**Arabic**

**ARA 1120 MODERN ARABIC I**

CR: ARA 1120L. An intensive study of basic skills: pronunciation, listening comprehension, speaking and some composition.

**ARA 1120L MODERN ARABIC I LABORATORY**

CR: ARA 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

**ARA 1121 MODERN ARABIC II**

PR: ARA 1120 or its equivalent. CR: ARA 1120L. A continuation of ARA 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

**ARA 1211 MODERN ARABIC II LABORATORY**

CR: ARA 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

**ARA 2200 MODERN ARABIC III**

PR: ARA 1121 or the equivalent. For language students who intend to attain basic proficiency.

**ARA 2201 MODERN ARABIC IV**

PR: ARA 2200 or its equivalent. Continuation of ARA 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

**ARA 4905 DIRECTED STUDY**

Permits study options in Arabic not available in regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours. (S/U only.)
ARA 4930 SELECTED TOPICS (1-5)
Course permits classes in Arabic not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours.

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

CHI 1120L MODERN CHINESE I LABORATORY (1)
CR: CHI 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

CHI 1121 MODERN CHINESE II (4)
CR: CHI 1121L Mandarin. PR: CHI 1120 or equivalent. A continuation of CHI 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

CHI 1121L MODERN CHINESE II LABORATORY (1)
CR: CHI 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

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

CHI 2201 MODERN CHINESE IV (4)
PR: CHI 2200 or the equivalent. Continuation of CHI 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

CHI 4905 DIRECTED STUDY (1-5)
Permits study options in Modern Chinese not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 hours. (S/U only.)

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

French
FRE 1040 FRENCH FOR READING (3)
Designed to provide a reading ability in French that will support research in other disciplines. Primarily for graduate students.

FRE 1120 BEGINNING FRENCH I (4)
CR: FRE 1120L. The first course in the study of elementary French. Emphasis on the development of basic skills in comprehension, speaking and reading.

FRE 1120L BEGINNING FRENCH I LABORATORY (1)
CR: FRE 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

FRE 1121 BEGINNING FRENCH II (4)
PR: FRE 1120 or equivalent. CR: FRE 1121L A continuation of FRE 1120.

FRE 1121L BEGINNING FRENCH II LABORATORY (1)
CR: FRE 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

FRE 1170 OVERSEAS STUDY-ÉLÉM. FRENCH (4)
Elementary-level French taught in France. In lieu of FRE 1120 and FRE 1121. Departmental approval required. May be repeated up to 8 credit hours.

FRE 2200 FRENCH III (3)
PR: FRE 1121 or equivalent. A review of the basic structure of French. May be taken concurrently with FRE 2201.

FRE 2201 FRENCH IV (3)
PR: FRE 2200 or equivalent. Readings in French on the intermediate level.

FRE 2241 CONVERSATION I (3)
PR: FRE 1121. For development of basic conversational skills.

FRE 2270 OVERSEAS STUDY-INTR. FRENCH (1-6)
PR: Two semesters of university-level French or equivalent proficiency. Departmental approval required. May be repeated up to 12 credit hours.

FRE 3230 READING IN FRENCH LITERATURE AND CULTURE (3)
PR: FRE 2201 or equivalent. This course is designed to build reading skills in French while giving students a broad background in French culture which will serve them in all subsequent courses.

FRE 3240 CONVERSATION II (3)
PR: FRE 2241 or equivalent proficiency. Conversation practice with concentration on current idiomatic usage.

FRE 3420 COMPOSITION I (3)
A fundamental composition course for students who have completed FRE 2200 or FRE 2201.

FRE 3440 FRENCH FOR BUSINESS (3)
PR: FRE 2200 or equivalent. An introduction to the French language in ordinary business transactions.

FRE 3470 OVERSEAS STUDY (1-6)
An intensive study-travel project in France. Departmental approval required. May be repeated up to 12 credit hours.

FRE 3500 FRENCH CIVILIZATION (3)
Readings and discussion on the cultural history of France.

FRE 4421 COMPOSITION II (3)
Continuation of French composition. This course is designed to follow FRE 3420.

FRE 4471 ADVANCED OVERSEAS STUDY (1-6)
PR: FRE 3470 or CI. Intensive language study in France. Departmental approval required. May be repeated up to 12 credit hours.

FRE 4700 FRENCH LINGUISTICS (3)
PR: LIN 3010 and FRE 2201 or equivalent. An introduction to the phonological, morphological and syntactic structure of French.

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

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

FRE 5425 ADVANCED WRITTEN EXPRESSION (3)
PR: FRE 4421, or equivalent. Course is designed to give advanced training in free composition in French.

FRE 5566 CONTEMPORARY FRANCE (3)
PR: FRE 3500 or equivalent or graduate standing. An advanced course in French civilization and culture including a study of recent social, artistic and political trends as well as various current intellectual movements. Text and discussions in French.

FRW 4100 INTRODUCTION TO FRENCH NOVEL (3)
PR: FRE 3230. A study of the history of the novel from its early appearance to present times with emphasis on the 19th and 20th centuries. Authors to be studied include Chretien de Troyes, Rabelais, Balzac, Flaubert, Proust, Camus, Sartre, Robbe-Grillet, and others. Specific content may vary from year to year.

FRW 5222 CLASSICAL PROSE AND POETRY (3)
PR: FRW 4101. Emphasis on Malherbe, La Fontaine, Boileau, Descartes, and Pascal.

FRW 5226 20TH CENTURY POETRY AND THEATRE (3)
PR: FRW 4101. Valery, Claudel, Anouilh, Montherland, Sartre, Ionesco, and others.

FRW 5228 THE 20TH CENTURY NOVEL (3)
PR: FRW 4100. Proust, Gide, Mauriac, Malraux, Camus, Robbe-Grillet.

FRW5314 CLASSICAL DRAMA (3)
PR: FRW 4101. Corneille, Moliere, and Racine.

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

FRW 5425 LITERATURE OF THE RENAISSANCE (3)
PR: FRW 4100 or FRW 4101. A study of Renaissance French humanism including Rabelais, Montaigne, and Pleiade poets.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRW 5445</td>
<td>18TH CENTURY LITERATURE</td>
<td>(3)</td>
<td>The classical tradition and the new currents of thought in the Age of Enlightenment.</td>
</tr>
<tr>
<td>FRW 5535</td>
<td>ROMANTICISM</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>REALISM AND NATURALISM</td>
<td>(3)</td>
<td>PR: FRW 4100 or FRW 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 1120 BEGINNING GERMAN I</td>
<td>CR: GER 1120L. Development of basic skills in listening and reading comprehension, speaking and writing of German.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GER 1120 BEGINNING GERMAN I LABORATORY</td>
<td>CR: GER 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GER 1120 BEGINNING GERMAN II</td>
<td>CR: GER 1121L. Continued development of basic skills in listening and reading comprehension, speaking and writing German.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GER 1121 BEGINNING GERMAN II LABORATORY</td>
<td>CR: GER 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GER 2200 GERMAN III</td>
<td>PR: GER 1120 or equivalent. CR: GER 1121L. Continued development of basic skills in listening and reading comprehension, speaking and writing German.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GER 2200 GERMAN IV</td>
<td>PR: GER 1121 or equivalent. CR: GER 1121L. For development of basic conversational skills.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GER 3240 CONVERSATION I</td>
<td>CR: GER 1121. A fundamental course for students who have completed GER 2200 or GER 2201.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GER 3420 COMPOSITION I</td>
<td>CR: GER 1121. A review of the basic structure of spoken and written German. May be taken concurrently with GER 2200.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GER 3500 GERMAN CIVILIZATION</td>
<td>PR: GER 2200 or GER 2201. Readings in German on the cultural history of Germany.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GER 4410 CONVERSATION II</td>
<td>A fundamental course for students who have completed GER 2200 or GER 2201.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GER 4421 COMPOSITION II</td>
<td>CR: GER 1121. Free conversation based on the current German idiom.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GER 5845 HISTORY OF THE GERMAN LANGUAGE</td>
<td>CR: GER 1121. A diachronic approach to the study of the German language. The course traces the history and development of the language from Indo-European through Germanic, Old, Middle, and New High German.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEW 4100 SURVEY OF GERMAN LITERATURE I</td>
<td>Old High German and Middle High German literature in modern German translation; the literature of Humanism and Baroque, the classical period.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEW 4101 SURVEY OF GERMAN LITERATURE II</td>
<td>The Romantic period, 19th and 20th centuries.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEW 4900 DIRECTED STUDY</td>
<td>Departmental approval required.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEW 4930 SELECTED TOPICS</td>
<td>Study of an author, movement or theme.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEW 5475 20TH CENTURY LITERATURE TO 1945</td>
<td>A study of major styles in German literature from 1900 to WW II with emphasis on Hauptmann, Schnitzler, Hofmannsthal, George Rilke, Kaiser, Heym, Trakl, Thomas Mann, Hesse, Kafka, Benn, Brecht.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEW 5489 20TH CENTURY LITERATURE: 1945 TO PRESENT</td>
<td>Study of major trends in German literature since WWII with emphasis on Borchert, Frisch, Durrenmatt, Boll, Uwe, Johnson, Grass, Aichinger, Eich Enzensberger, Bachmann.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEW 5515 THE ENLIGHTENMENT</td>
<td>Selected dramas and critical writings by Lessing, Wieland, Kant.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEW 5545 ROMANTICISM</td>
<td>Jenaer circle and Heidelberg circle; the late romantic period, the writers between Classicism and Romanticism.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEW 5555 REALISM</td>
<td>Selected works by Grillparzer, Grabbe, Buchner, Hebbel, Heine, Immerman, Stifter, Keller, Meyer, Storm, Raabe, Hulshoff, and Morike.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEW 5606 FAUST</td>
<td>Sources, form, content, and literary significance of Urfaust and Faust.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEW 5615 SCHILLER</td>
<td>Selected dramas, philosophical and aesthetic writings.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEW 5934 SELECTED TOPICS</td>
<td>(1-3) PR: Upper-level or graduate standing. Study of an author, movement or theme.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GRK 1120 BEGINNING MODERN GREEK I</td>
<td>CR: GRK 1120L. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GRK 1120 BEGINNING MODERN GREEK I LABORATORY</td>
<td>CR: GRK 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GRK 1121 BEGINNING MODERN GREEK II</td>
<td>CR: GRK 1121 or equivalent. CR: GRK 1121L. A continuation of GRK 1120. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GRK 1121 MODERN GREEK II</td>
<td>CR: GRK 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GRK 2200 MODERN GREEK IV</td>
<td>CR: GRK 2200 or its equivalent. Continuation of GRK 2200. Practice of writing, speaking and listening for language students who intend to attain basic proficiency.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GRK 4905 DIRECTED STUDY</td>
<td>Permits study options in Modern Greek not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours. (S/U only.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HBR 1120 MODERN HEBREW I</td>
<td>CR: HBR 1120L. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HBR 1120 MODERN HEBREW I LABORATORY</td>
<td>CR: HBR 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| HBR 1121 MODERN HEBREW II | CR: HBR 1120L. A study of an author, movement or theme. PR: HBR 1120 or its equivalent. CR: HBR1121L. A continuation of HBR 1120. An intensive study of basic skills; pronunciation,
listening comprehension, speaking and some composition. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

**HBR 1121L MODERN HEBREW II LABORATORY** (1)
CR: HBR 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

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

**HBR 2201 MODERN HEBREW IV** (4)
PR: HBR 2200 or its equivalent. Continuation of HBR 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

**HBR 4905 DIRECTED STUDY** (1-5)
Permits study options in Modern Hebrew not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours. (S/U only.)

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

**Italian**

**ITA 1120 BEGINNING ITALIAN I** (4)
CR: ITA 1120L. The first course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking, and reading.

**ITA 1120L BEGINNING ITALIAN LABORATORY** (1)
CR: ITA 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

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

**ITA 1121L BEGINNING ITALIAN II LABORATORY** (1)
CR: ITA 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

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

**ITA 3240 ITALIAN CONVERSATION I** (4)
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.

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

**ITA 3470 OVERSEAS STUDY** (1-6)
An intensive study-travel project in Italy. Prior approval and early registration required. May be repeated up to 12 credit hours.

**ITA 4241 ITALIAN CONVERSATION II** (4)
To assist students who have already made a start in speaking Italian, who have not had the advantages of travel or who have non-Italian speaking parents, to improve their skill in speaking Italian. Current events; literary discussions; free conversation; prepared speeches. Differences of media, syntactical signal.

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

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

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

**Japanese**

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

**JPN 1120L MODERN JAPANESE I LABORATORY** (1)
CR: JPN 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

**JPN 1121 MODERN JAPANESE II** (4)
PR: JPN 1120 or equivalent. CR: JPN 1121L. A continuation of JPN 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

**JPN 1121L MODERN JAPANESE II LABORATORY** (1)
CR: JPN 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

**JPN 2200 MODERN JAPANESE III** (3)
PR: JPN 1121 or equivalent. Continuing study to attain basic proficiency in Japanese.

**JPN 2201 MODERN JAPANESE IV** (3)
PR: JPN 2200 or equivalent. Continuation of JPN 2200. Practice of writing, speaking, and listening skills to attain basic proficiency.

**JPN 4905 DIRECTED STUDY** (1-5)
Permits study options in Japanese not available in regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours. (S/U only.)

**JPN 4930 SELECTED TOPICS** (1-5)
Course permits study options in Japanese not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours.

**Polish**

**POL 1120 BEGINNING POLISH I** (4)
CR: POL 1120L. This course features all four major skills: listening, reading, speaking, and writing. Grammar exercises, dictation, readings and vocabulary-building are central in this first course. Knowledge of Russian can help. S/U available.

**POL 1120L BEGINNING POLISH I LABORATORY** (1)
CR: POL 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

**POL 1121 BEGINNING POLISH II** (4)
PR: POL 1120 or equivalent by examination. CR: POL 1121L. This course continues the four basic skills of POL 1120, with continued emphasis on structures, dialogues, readings, dictation, and vocabulary-building. Knowledge of Russian can help. S/U available.

**POL 1121L BEGINNING POLISH II LABORATORY** (1)
CR: POL 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

**POL 2200 POLISH III** (3)
PR: POL 1121 or the equivalent. For language students who intend to attain basic proficiency.

**POL 2201 POLISH IV** (4)
PR: POL 2200 or the equivalent. Continuation of POL 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

**POL 4905 DIRECTED STUDY** (1-5)
Permits study options in Polish not available in regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours.

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>POR 1120</td>
<td>BEGINNING PORTUGUESE I</td>
<td>4</td>
<td>CR: POR 1120L. Development of basic skills in listening and reading comprehension, speaking and writing of Brazilian Portuguese.</td>
</tr>
<tr>
<td>POR 1120L</td>
<td>BEGINNING PORTUGUESE I LABORATORY</td>
<td>1</td>
<td>CR: POR 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)</td>
</tr>
<tr>
<td>POR 1121</td>
<td>BEGINNING PORTUGUESE II</td>
<td>4</td>
<td>PR: POR 1120 or equivalent. CR: POR 1121L. Continued development of basic skills in listening and reading comprehension, speaking and writing of Brazilian Portuguese.</td>
</tr>
<tr>
<td>POR 1121L</td>
<td>BEGINNING PORTUGUESE II LABORATORY</td>
<td>1</td>
<td>CR: POR 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)</td>
</tr>
<tr>
<td>POR 2200</td>
<td>INTERMEDIATE PORTUGUESE I</td>
<td>3</td>
<td>POR 2200 builds upon the four language skills (speaking, comprehension, reading, and writing) introduced in POR 1120 and POR 1121. It is available to all foreign language students and includes lab attendance of at least two hours per week. May not be repeated for credit.</td>
</tr>
<tr>
<td>POR 2201</td>
<td>INTERMEDIATE PORTUGUESE II</td>
<td>3</td>
<td>For language students who intend to attain basic proficiency. There is a two-hour lab each week which can be taken in smaller segments. May not be repeated for extra credit.</td>
</tr>
</tbody>
</table>

### Russian

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUS 1120</td>
<td>BEGINNING RUSSIAN I</td>
<td>4</td>
<td>CR: RUS 1120L. The first course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading.</td>
</tr>
<tr>
<td>RUS 1120L</td>
<td>BEGINNING RUSSIAN I LABORATORY</td>
<td>1</td>
<td>CR: RUS 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)</td>
</tr>
<tr>
<td>RUS 1121</td>
<td>BEGINNING RUSSIAN II</td>
<td>4</td>
<td>PR: RUS 1120 or CR: RUS 1121L. The second course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading.</td>
</tr>
<tr>
<td>RUS 1121L</td>
<td>BEGINNING RUSSIAN II LABORATORY</td>
<td>1</td>
<td>CR: RUS 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)</td>
</tr>
<tr>
<td>RUS 2200</td>
<td>RUSSIAN III</td>
<td>4</td>
<td>PR: First year Russian or equivalent. Review and development of basic skills in conversation, composition, and reading.</td>
</tr>
<tr>
<td>RUS 2201</td>
<td>RUSSIAN IV</td>
<td>4</td>
<td>PR: RUS 2200 or equivalent. Review and development of basic skills in conversation, composition, and reading.</td>
</tr>
<tr>
<td>RUS 2270</td>
<td>OVERSEAS STUDY</td>
<td>(1-6)</td>
<td>Intensive study of the Russian language in Russia involving at least 20 hours per week of classroom instruction and cultural excursions conducted in Russian around Moscow and other parts of Russia. May be repeated up to 12 credit hours.</td>
</tr>
<tr>
<td>RUS 3240</td>
<td>CONVERSATION I</td>
<td>(4)</td>
<td>PR: Second year Russian or equivalent. Development of basic conversational skills.</td>
</tr>
<tr>
<td>RUS 3470</td>
<td>OVERSEAS STUDY</td>
<td>(1-6)</td>
<td>Intensive Russian at Moscow Linguistic University with excursions in Moscow and Russia. Must be enrolled in the USF Summer Study in Moscow program. Two years Russian required. Students from other institutions eligible.</td>
</tr>
<tr>
<td>RUS 3500</td>
<td>RUSSIAN CIVILIZATION -6A</td>
<td>(3)</td>
<td>A survey of the cultural history of Russia.</td>
</tr>
<tr>
<td>RUS 4241</td>
<td>CONVERSATION II</td>
<td>(4)</td>
<td>PR: Previous course in series or equivalent. Development of conversational skills.</td>
</tr>
<tr>
<td>RUS 4402</td>
<td>ADVANCED RUSSIAN CONVERSATION &amp; COMPOSITION I</td>
<td>(4)</td>
<td>PR: RUS 4241 or Cr. Third year Russian.</td>
</tr>
<tr>
<td>RUS 4403</td>
<td>ADVANCED RUSSIAN CONVERSATION &amp; COMPOSITION II</td>
<td>(4)</td>
<td>PR: RUS 4241 or Cr. Third year Russian.</td>
</tr>
<tr>
<td>RUS 4471</td>
<td>ADVANCED OVERSEAS STUDY</td>
<td>(1-6)</td>
<td>Intensive Russian at Moscow Linguistic University with excursions in Moscow and Russia. Must be enrolled in the USF Summer Study in Moscow program. Three years Russian required. Students from other institutions eligible.</td>
</tr>
<tr>
<td>RUS 4700</td>
<td>RUSSIAN LINGUISTICS</td>
<td>(3)</td>
<td>PR LIN 3010 or equivalent or CR. An introduction to Russian Linguistics content: Phonology, Morphology, Word-formation, Syntax.</td>
</tr>
<tr>
<td>RUS 4900</td>
<td>SELECTED TOPICS</td>
<td>(1-3)</td>
<td>Study of an author, movement or theme.</td>
</tr>
<tr>
<td>RUS 4905</td>
<td>DIRECTED STUDY</td>
<td>(1-3)</td>
<td>Departmental approval required.</td>
</tr>
</tbody>
</table>

### Spanish

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPN 1120</td>
<td>BEGINNING SPANISH I</td>
<td>4</td>
<td>CR: SPN 1120L. Development of basic skills in listening and reading comprehension, speaking and writing of Spanish.</td>
</tr>
<tr>
<td>SPN 1120L</td>
<td>BEGINNING SPANISH I LABORATORY</td>
<td>1</td>
<td>CR: SPN 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)</td>
</tr>
<tr>
<td>SPN 1121</td>
<td>BEGINNING SPANISH II</td>
<td>4</td>
<td>PR: SPN 1120 or equivalent. CR: SPN 1121L. Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish.</td>
</tr>
<tr>
<td>SPN 1121L</td>
<td>BEGINNING SPANISH II LABORATORY</td>
<td>1</td>
<td>CR: SPN 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)</td>
</tr>
<tr>
<td>SPN 1130</td>
<td>ACCELERATED SPANISH</td>
<td>(1-6)</td>
<td>PR: CR. Accelerated course for near-native speakers and others with some knowledge of Spanish capable of making rapid progress.</td>
</tr>
<tr>
<td>SPN 2200</td>
<td>SPANISH III</td>
<td>(3)</td>
<td>PR: SPN 1121 or equivalent. A review of the basic structure of spoken and written Spanish. May be taken concurrently with SPN 2201.</td>
</tr>
<tr>
<td>SPN 2201</td>
<td>SPANISH IV</td>
<td>(3)</td>
<td>PR: SPN 1121 or equivalent. Readings in Spanish on the intermediate level. May be taken concurrently with SPN 2200.</td>
</tr>
<tr>
<td>SPN 2240</td>
<td>CONVERSATION I</td>
<td>(4)</td>
<td>PR: SPN 1121. For development of basic conversational skills.</td>
</tr>
<tr>
<td>SPN 2440</td>
<td>SPANISH FOR BUSINESS</td>
<td>(3)</td>
<td>PR: SPN 2201 or equivalent. Introduction to the Spanish language as used in undertaking ordinary business transactions.</td>
</tr>
<tr>
<td>SPN 3241</td>
<td>CONVERSATION II</td>
<td>(3)</td>
<td>PR: SPN 2240 or equivalent. To improve fluency in spoken Spanish.</td>
</tr>
<tr>
<td>SPN 3270</td>
<td>OVERSEAS STUDY</td>
<td>(1-6)</td>
<td>PR: SPN 1121. An intensive study-travel program in a Spanish-speaking country. Prior departmental approval and early registration are required.</td>
</tr>
<tr>
<td>SPN 3300</td>
<td>COMPOSITION</td>
<td>(3)</td>
<td>PR: SPN 2200-2201. A study of syntax, grammar and writing.</td>
</tr>
<tr>
<td>SPN 3500</td>
<td>SPANISH CIVILIZATION</td>
<td>(3)</td>
<td>PR: SPN 1121. The culture and civilization of Spain.</td>
</tr>
</tbody>
</table>
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 4400 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 4700 SPANISH LINGUISTICS
PR: LIN 3010 or equivalent (may be taken concurrently with CI) and SPN 2201 or equivalent. An introduction to Hispanic linguistics: Phonology, morphology, syntax, and lexicography.

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

SPN 5877 MODERN SPANISH CIVILIZATION
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.

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

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

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

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

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

SPW 4900 DIRECTED STUDY
Departmental approval required.

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

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

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

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

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

SPW 5405 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 Buen Amor and La Celestina.

SPW 5465 19TH CENTURY LITERATURE

SPW 5605 CERVANTES
Cervantes' masterpiece Don Quijote de la Mancha.

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

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

Yoruba
YOR 1121 YORUBA I
This course is designed to familiarize students with modern orthography and to develop skills in reading, writing, speaking, and understanding spoken Yoruba. Pronunciation in Yoruba and achieving basic communicative competence in the language are among the skills to be attained in the course.

YOR 1121 YORUBA II
An continuation of YOR 1120, this course delves further into the structure of Yoruba and its grammatical functions. Also covered is practice in reading elementary texts with emphasis on grammar, vocabulary, and an appreciation for style. Also included is composition and drills in oral work. May be repeated up to 8 credit hours.

PHILOSOPHY

PHI 3000 INTRODUCTION TO PHILOSOPHY-6A -HP
An introduction to selected philosophical problems and traditions.

PHI 3062 HISTORY OF PHILOSOPHY: ANCIENT AND MEDIEVAL
A survey of Western philosophy from the pre-Socratic to the end of the Middle Ages.

PHI 3420 HISTORY OF PHILOSOPHY: MODERN
A survey of Western philosophy from the end of the Middle Ages to the nineteenth century.

PHI 4440 CONTINENTAL PHILOSOPHY
A study of developments in post-Kantian European philosophy.

PHI 4600 CONTEMPORARY PHILOSOPHY -6A -XMW
Selected schools of twentieth century thought such as positivism, pragmatism, existentialism, and rationalism.

PHI 4700 AMERICAN PHILOSOPHY 1818 AND 1936
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
Lectures and discussions of the great philosophers since Plato, focusing on particular problems.

PHI 1010 PHILOSOPHIC CONTROVERSIES
A discussion of central controversies in philosophy such as the nature of love, violence, freedom, truth, morality, etc.

PHI 1103 CRITICAL THINKING -SS
Methods of thinking that lead to reliable conclusions, with emphasis on concrete cases in ordinary thinking and the sciences.

PHI 2100 INTRODUCTION TO FORMAL LOGIC -6A -QM
An elementary study of propositional, predicate, class and syllogistic logic with some attention to basic problems of logical theory.

PHI 3404 SCIENTIFIC METHOD
Probability, inductive inference, the hypothetico-deductive method, experimentation, and selected topics in the philosophy of science.

PHI 3600 ETHICAL THEORY
A study of ethical theories, concepts, problems and methods.

PHI 3601 CONTEMPORARY MORAL ISSUES -6A -SS
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
An application of traditional ethical theories to contemporary problems in business.

PHI 3633 BIO MEDICAL ETHICS
This course will focus on the ethical issues arising from advances in medical practice, delivery of health care, and scientific research.

PHI 3679 PROFESSIONAL ETHICS
PR: Junior standing. An examination of the ethical problems that professionals will face in the complex, global society of the next few decades: confidentiality, divided loyalty, racism/sexism, etc.

PHI 3640 ENVIRONMENTAL ETHICS -SS
A study of alternative theories of environmental ethics, including the application of these theories to contemporary environmental...
problems, such as pollution, resource depletion, species extinction, and land use.

PHI 3700 PHILOSOPHY OF RELIGION -6A -SS (3)
Analysis of religious experience and activity and examination of principal religious ideas in light of modern philosophy.

PHI 3905 DIRECTED STUDY (1-4)
PR: Cl. Individual study directed by a faculty member. Approval slip from instructor required.

PHI 3930 SELECTED TOPICS (1-4)
PR: C.I. Selected topics according to the needs of the student.

PHI 4073 AFRICAN PHILOSOPHY -6A -XMW (3)
A descriptive and analytical study of African philosophical thought, featuring reflective comparisons of African and Western categories of thought. (May also be taken for credit in Africana Studies.)

PHI 4300 THEORY OF KNOWLEDGE -6A -XMW (3)
An examination of human knowledge; its scope and limits, and an evaluation of evidence, criteria of truth, the nature of belief, conditions for meaningfulness, theories of perception, and a study of memory and sense perception in the four major fields of nature, history, personal experience, and the a priori.

PHI 4320 PHILOSOPHY OF MIND -6A -XMW (3)
A study of historical and current issues in philosophy of mind, including the nature and status of mind, mind/.body dualism, the relationship of mind and body, the problems of other minds, the physical basis for intelligence, etc.

PHI 4632 FEMINIST ETHICS -XMW (3)
A study of the varied approaches to moral reasoning taken by feminist ethical writers such as Wollstonecraft, Mill, Gilligan, Daly, Hoagland and others. (May also be taken for credit in Women's Studies.)

PHI 4800 AESTHETICS -6A -XMW (3)
A study of traditional and contemporary aesthetic theories with emphasis on creative process, the nature of the art work, the aesthetic response, expressiveness, form and content as well as art and morality.

PHI 4905 DIRECTED STUDY (1-4)
PR: Cl. Individual study directed by a faculty member. Approval slip from instructor required.

PHI 4930 SELECTED TOPICS (1-3)
PR: Cl. Selected topics according to the needs of the senior students. Approval slip from instructor required.

PHI 5135 SYMBOLIC LOGIC (3)
PR: PHI 2100 or Cl. Study of topics such as the following: Metatheory of propositional and predicate logic, related metatheoretic results, alternative logics.

PHI 5225 PHILOSOPHY OF LANGUAGE (3)
PR: Eight hours of philosophy, major in linguistics, or Cl. An examination of semantic, syntactical, and functional theories of language with special attention given to the problems of meaning, linguistic reference, syntactical form, and the relations between scientific languages and ordinary linguistic usage. Seminar format.

PHI 5913 RESEARCH (1-4)
PR: Cl. Individual research supervised by a faculty member. Approval slip from instructor required.

PHI 5934 SELECTED TOPICS (1-3)
PR: Cl. Selected topics according to the needs of the student. Approval slip from instructor required.

PHM 3021 PHILOSOPHIES OF LOVE AND SEX (3)
Discussion of Philosophies of Love/Sex of Plato, Aristotle, Epicurus, Aquinas, Hume, Kant, Schopenhauer, Russell, Sartre, Marx, etc.

PHM 3100 SOCIAL PHILOSOPHY -6A (3)
An analysis of rival theories of social order and their philosophical foundations.

PHM 3400 INTRODUCTION TO PHILOSOPHY OF LAW (3)
A study of the fundamental concepts of law from a philosophical standpoint including crime, justice, punishment, free speech, insanity, etc.

PHM 4322 ANCIENT AND MEDIEVAL POLITICAL PHILOSOPHY -6A -XMW (3)
A survey of political philosophy from 6 B.C. until 1600 A.D., including an examination of the ethical, metaphysical, and epistemological bases of these philosophies.

PHM 4331 MODERN POLITICAL PHILOSOPHY -6A -XMW (3)
A survey of political philosophy from 1600 A.D. until 1900 A.D., including an examination of the ethical, metaphysical, and epistemological bases of these philosophies.

PHM 4340 CONTEMPORARY POLITICAL PHILOSOPHY -6A -XMW (3)
A survey of political philosophy in the twentieth century, including an examination of the ethical, metaphysical and epistemological bases of these philosophies.

PHM 5125 TOPICS IN FEMINIST PHILOSOPHY (3)
A study of recent feminist philosophical approaches to epistemology, aesthetics or political philosophy. (May also be taken for credit in Women's Studies.)

PHP 3786 EXISTENTIALISM -6A (3)
The examination of Plato will include the dialogues Protagoras, Georgias, Meno, Republic, etc.

PHP 4010 ARISTOTLE -6A -XMW (3)
Study of Aristotle's philosophy.

PHP 4410 KANT (3)
Lecture and discussion of Kant's philosophy, especially The Critique of Pure Reason.

PHP 4740 THE RATIONALISTS -6A (3)
A careful study of the epistemologies of Descartes, Spinoza, Leibniz, and Malebranche.

PHP 4745 EMPIRICISM -6A (3)
A careful study of epistemologies of Locke, Berkeley, Hume, and Thomas Reid.

PHP 4784 ANALYTICAL PHILOSOPHY -6A (3)
A study of the method devoted to clarifying philosophical problems through analysis of the language in which these problems are stated.

PHP 4788 PHILOSOPHY OF MARXISM -6A -XMW (3)
A critical survey of Marxist philosophy from Marx and Engels to Mao Tse-Tung and Herbert Marcuse. Hegelian foundations of Marxist philosophy analyzed in detail.

WST 4342 CLASSICS IN FEMINIST THEORY (3)
A study of classic contributions to the elaboration of feminist thought from the 18th century to the present in an attempt to discover the roots of the contemporary feminist movement. (May also be taken for credit in Women's Studies.)

PHYS

PHY 2020 CONCEPTUAL PHYSICS -NS (3)
A qualitative, non-mathematical investigation of physics, emphasizing its influence on life today. (No credit for physics B.S. major credit.)

PHY 2038 ENERGY AND HUMANITY -NS (3)
Social, economic, and political aspects of energy. Includes energy conservation, environmental impact, energy-source alternatives, changing lifestyles, and personal use of solar energy. The relevant basic laws of physics and the scientific method are emphasized. Field trips and audiovisual presentations play important roles.

PHY 3048, 3048L GENERAL PHYSICS AND LABORATORY (3, 1)
PR: MAC 3281 or MAC 3311. First semester of a two semester sequence of general physics (mechanics, wave motion, sound, thermodynamics, geometrical and physical optics, electricity, and magnetism) and laboratory for physics majors and engineering students. Must be taken concurrently and, if dropped, then dropped simultaneously.

PHY 3049, 3049L GENERAL PHYSICS AND LABORATORY (3, 1)
PR: MAC 3282 or MAC 3312, PHY 3048, PHY 3048L. Second semester of general physics and laboratory for physics majors and engineering students. Must be taken concurrently and, if dropped, then dropped simultaneously.

PHY 3053, 3053L GENERAL PHYSICS AND LABORATORY (3, 1)
First semester of a two semester sequence of general physics (mechanics, heat, wave motion, sound, electricity, magnetism, optics, modern physics) and laboratory for science students. Must be taken concurrently and, if dropped, then dropped simultaneously.
are to be determined by student/instructor agreement. (S/U only.)

PHY 4930 PHYSICS SEMINAR
PR: Senior or advanced junior standing or CC. All undergraduate physics majors must enroll in this course at least once and are expected to attend all Physics Colloquia. (S/U only.)

PHY 4936 SELECTED TOPICS IN PHYSICS
PR: Senior or advanced junior standing and CC. Each topic is a course in directed study and under the supervision of a faculty member.

PHY 5624 QUANTUM MECHANICS II
PR: PHY 4604 or CI. Hilbert space, continuous spectrum, matrix and wave mechanics, quantum dynamics, symmetries, angular momentum.

PHY 5720C ELECTRONICS FOR RESEARCH
PR: CI. A rigorous introduction to the fundamentals of analog and digital electronics. Theoretical circuit analysis and weekly labs introduce practical diodes, transistors, analog and digital ICs, breadboarding techniques and electronic test instrumentation.

PHY 5937 SELECTED TOPICS IN PHYSICS
PR: Senior or advanced standing and CC. Each topic is a course in directed study under the supervision of a faculty member.

PHZ 3101 MATHEMATICAL ANALYSIS OF PROBLEMS IN MECHANICS AND ELECTRICITY
PR: One year of non-calculus general physics. CR: MAC 3283 or MAC 3313. Designed for students who have not had the general physics sequence using calculus. Review of mechanics and electricity emphasizing problems which involve the use of calculus.

PHZ 3102 PROBLEMS IN GENERAL PHYSICS I
PR: PHY 3048. First semester of two semester sequence of general physics problems. A course designed to allow those interested students to investigate problems not covered in the general physics course.

PHZ 3103 PROBLEMS IN GENERAL PHYSICS II

PHZ 5115 METHODS OF THEORETICAL PHYSICS I
PR: MAP 4302 or CI. Applications of mathematical techniques to classical and modern physics. Vector spaces including Hilbert space, orthogonal functions, generalized functions, Fourier analysis, transform calculus, and variational calculus.

PHZ 5116 METHODS OF THEORETICAL PHYSICS II
PR: MAP 4302 or CI. Applications of mathematical techniques to classical and modern physics. Selected topics in complex analysis, differential and integral equations, numerical methods, and probability theory.

PHZ 5304 NUCLEAR PHYSICS
PR: PHY 4604 or CI. Nuclear forces, nuclear models, nuclear structure, decay, nuclear reaction, and high energy physics.

PHZ 5405 SOLID STATE PHYSICS I
PR: PHY 3048. Crystal structure, x-ray and electron diffraction, mechanical and thermal properties of solids, electrical and magnetic properties of metals, band theory of metals, insulators, and semiconductors. First semester of sequence PHZ 5405, PHZ 6426.

PHZ 5505 PLASMA PHYSICS I
PR: PHY 4324C or CI. Introduction to Boltzmann, magnetohydrodynamic and orbit approaches to plasmas. Longitudinal and electromagnetic waves in plasmas. Collisions and radiation instabilities.

POLITICAL SCIENCE
CPO 3002 INTRODUCTION TO COMPARATIVE POLITICS - SS
Comparison and analysis of representative European and non-Western political systems.

CPO 4034 POLITICS OF THE DEVELOPING AREAS
An analysis of the ideologies, governmental structures, and political processes of selected nations of the non-Western world.

CPO 4930 COMPARATIVE GOVERNMENT AND POLITICS
OF SELECTED COUNTRIES OR AREAS
Studies political systems with common elements. Structure, process, domestic and foreign policies, and regional roles are considered. May be repeated up to 9 credit hours as topics vary.

CPO 5934 SELECTED TOPICS IN COMPARATIVE POLITICS
Studies specific substantive areas in comparative politics such as political economy or the politics of specific countries or regions.
COLLEGE OF ARTS AND SCIENCES 169

UNIVERSITY OF SOUTH FLORIDA - 1994/95 UNDERGRADUATE CATALOG

May be repeated for credit as topics vary.

INR 3002 INTRODUCTION TO INTERNATIONAL RELATIONS (3)
Concepts and analytical tools applied to events such as politics among nations, control of foreign policies, types of actors, war and peace.

INR 3102 AMERICAN FOREIGN POLICY (3)
Analysis of the development and scope of United States foreign policy, emphasizing goals and objectives, policy formulation and implementation, themes and issues.

INR 4035 INTERNATIONAL POLITICAL ECONOMY (3)
Analysis of the development and politics of the international economic system, focusing on questions of cooperation and conflict in trade, aid, and investment relationships.

INR 4334 DEFENSE POLICY (3)
Analytic institutional factors contributing to formulation of defense policy and the impact of such policy on international relations.

INR 4403 INTERNATIONAL LAW (3)
Exames essential components of the international legal system; recognition; succession; sea, air and space law, treaties, diplomats, International Court of Justice; laws of war, etc. Introduces the student to legal reasoning as employed in the international context.

INR 4502 INTERNATIONAL ORGANIZATIONS (3)
Study of the operations and structure of international organizations and agencies, oversight, decision-making processes, House/Senate comparisons.

INR 5086 ISSUES IN INTERNATIONAL RELATIONS (3)
Explores specific topics and provides the student with an opportunity for in-depth study of historical and contemporary problems in international politics. May be repeated for credit as topics vary.

POS 2041 AMERICAN NATIONAL GOVERNMENT (3)
Analysis of basic principles and procedures of the American governmental system with emphasis on current issues and trends.

POS 2112 STATE AND LOCAL GOVERNMENT AND POLITICS (3)
Analysis of the structure and function of state and local governments, of the social and political influences that shape them, and of the dynamics of their administrative processes.

POS 3142 INTRODUCTION TO URBAN POLITICS AND GOVERNMENT (3)
Governmental and political structures and processes as they function in urban areas, with special focus on municipalities and locally based public services.

POS 3145 GOVERNING METROPOLITAN AREAS (3)
Examines governmental units and interactions in metropolitan areas, proposals for changes in governance, and policy areas of widespread concern, such as human services.

POS 3173 SOUTHERN POLITICS (3)
Examines changes in electoral politics in the South, and the role of interest groups and the state and federal government in facilitating change.

POS 3182 FLORIDA POLITICS AND GOVERNMENT (3)
A study of Florida political culture, political parties and elections, the legislative, executive, and judicial systems, and policy patterns.

POS 3273 PRACTICAL POLITICS (3)
Pr: POS 2041 or POS 3453 or Cl. Coordinated scholarly and practical activity through class lecture and supervised field work in local political parties and electoral campaigns.

POS 3283 JUDICIAL PROCESS AND POLITICS (3)
The organization, development, and functioning of American court systems and the causes and consequences of judicial behavior from an empirical perspective.

POS 3353 POLITICAL PARTIES AND INTEREST GROUPS (3)
Analysis and understanding of role, functions, structure, and composition of such, and their impact on American governmental institutions.

POS 3691 INTRODUCTION TO LAW AND POLITICS (3)
Nature of law, legal process, relationship to political life of constitutional law, administrative law, the judicial process, and private law.

POS 3713 EMPIRICAL POLITICAL ANALYSIS (3)
Fundamentals of empirical political inquiry: systematic data collection and quantitative analysis techniques. Laboratory exercises using the computer are required.

POS 3931 SELECTED TOPICS (3)
Selected topics in political science with course content based upon student demand and instructor's interest. May be repeated for up to 6 credits as topics vary.

POS 4165 COMMUNITY LEADERS AND POLITICS (3)
Analysis of the roles and powers of mayors, city managers, council members, and interest and ethnic groups; distribution of community power.

POS 4204 POLITICAL BEHAVIOR, PUBLIC OPINION, AND ELECTIONS (3)
Analysis of economic and socio-psychological factors influencing mass and elite political behavior; voting behavior, public opinion, and political activism.

POS 4413 THE AMERICAN PRESIDENCY-SA (3)
The presidency as a political institution; analysis of powers; legislative, administrative, political, and foreign policy leadership; crisis management and decision making; White House staffing; limits on power.

POS 4424 THE AMERICAN CONGRESS (3)
Organization, procedures, committee system, party leadership, relations with governmental and nongovernmental organizations, and agencies, oversight, decision-making processes, House/Senate comparisons.

POS 4614 CONSTITUTIONAL LAW I (3)
Pr: POS 2041. Leading social problems, principle institutions, and the scope of powers. Analysis of Supreme Court decisions, scholarly commentaries, and the writings of leading public figures.

POS 4624 CONSTITUTIONAL LAW II (3)
Pr: POS 2041. Analysis of Supreme Court decisions and scholarly commentaries on the constitutional rights of individuals.

POS 4693 WOMEN AND LAW I (3)
Introduction to issues concerning the legal aspects of sex and sex-based discrimination as embodied in statutory and case law, focusing on constitutional and family law and reproductive freedom issues. (May also be taken for credit in Women's Studies.)

POS 4694 WOMEN AND LAW II (3)
Pr: POS 4693 or Cl. Legal position of women in American society and remedies available to challenge current laws and practices, with specific emphasis on employment and education issues as they relate to both women and men. (May also be taken for credit in Women's Studies.)

POS 4905 INDEPENDENT STUDY (1-3)
Pr: 3.0 average in Political Science and Cl. Specialized study determined by the student's needs and interests. (S/U only.)

POS 4910 INDIVIDUAL RESEARCH (1-3)
Pr: 3.0 average in Political Science and Cl. Investigation of some aspect of political science culminating in the preparation of an original research paper.

POS 4911 SENIOR SENIOR SEMINAR (3)
Pr: Senior standing and Cl. An opportunity to work with others in a seminar format, exploring specialized topics.

POS 4941 FIELD WORK (3)
Pr: 3.0 average in Political Science and Cl. Opportunity for students to obtain practical experience as aides to agencies of government and political parties.

POS 4970 HONOR THESIS (3)
Pr: Admission to Honor option. Writing of honor thesis under direction of faculty members.

POS 5094 ISSUES IN AMERICAN NATIONAL AND STATE GOVERNMENT (3)
Selected topics of study in American government. May be repeated for credit as topics vary.

POS 5155 ISSUES IN URBAN GOVERNMENT AND POLITICS (3)
Selected issues and topics in Urban Government and politics. May be repeated for credit as topics vary.

POS 5736 POLITICAL RESEARCH METHODS (3)
A survey of methods, problems, and issues in political research and analysis for the advanced student.

POT 3003 INTRODUCTION TO POLITICAL THEORY (3)
Examines various kinds of theory used in political science for understanding political life: normative theory, empirical theory, historicist theory, analytical theory, and critical theory.

POT 3013 CLASSICAL POLITICAL THEORY (3)
Analysis of basic ideas of Plato, Aristotle, Cicero, St. Thomas, and other leading pre-modern political philosophers.
POT 4054 MODERN POLITICAL THEORY (3)
Analysis of basic political ideas of Machiavelli, Hobbes, Locke, Rousseau, Burke, and other modern philosophers.

POT 4064 CONTEMPORARY POLITICAL THOUGHT (3)
Examines various political views and political phenomena in the nineteenth and twentieth centuries. Diverse theoretical types and salient political phenomena will be presented.

POT 4024 AMERICAN POLITICAL THOUGHT (3)
Examines political writings in the U.S. and responses to critical periods in history, beginning with the Founding Fathers, and culminating in recent contributions and understanding contemporary political problems and solutions.

DIF 4561 THE POLITICAL PROCESS OF IDENTITY, DIFFERENCE AND INEQUALITY -EA-XMW (3)
PR: POT 3003. An analysis of how relationships of social identity and difference become the basis of social, political and economic inequality in modern society. It incorporates both contemporary and "classical" discussions of inequality.

POT 5626 ISSUES IN POLITICAL PHILOSOPHY AND LAW (3)
PR: Graduate or senior standing and CI. Selected topics in political philosophy and law. May be repeated as topics vary.

PUP 4323 WOMEN AND POLITICS (3)
An analysis of the impact of gender on power and influence in American society, and women's changing role in the political process. (May also be taken for credit in Women's Studies.)

PUP 5609 PUBLIC POLICY AND HEALTH CARE (3)
The study of health care policy as it relates to the policy process in the American setting.

URP 5050 CITY PLANNING AND COMMUNITY DEVELOPMENT (3)
An introduction to the development, role, and components of city planning, and the political and actual policies of government in attempting to regulate or control urbanization.

PSYCHOLOGY

CBH 4004 COMPARATIVE PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. The study of the evolution of behavior, similarities, and differences in capacities for environmental adjustment and for behavioral organization among important types of living beings.

CLP 3003 PSYCHOLOGY OF ADJUSTMENT -SS (3)
Genetic, organic, and learned factors involved in the processes of personal adjustment: applications of mental health principles to everyday living. Not for major credit.

CLP 4143 ABNORMAL PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. Descriptions, theoretical explanations, research evidence, and treatment of maladaptive behavior.

CLP 4414 BEHAVIOR MODIFICATION (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. Introduction to behavior analysis, and application of learning principles, behavioral measurement, research designs, and interventions in treatment settings.

CLP 4433 PSYCHOLOGICAL TESTS AND MEASUREMENT (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. A consideration of the instruments for intellectual and personality assessment including their applications, development, and potential abuses. Students may not receive credit for both CLP 4433 and EDF 4430.

DEP 3103 CHILD PSYCHOLOGY -SS (3)
Developmental and psychosocial aspects of childhood, including hereditary, maturation, psychological, and social determinants of child behavior. Not for major credit.

DEP 4005 DEVELOPMENTAL PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. Survey of methods, empirical findings, and theoretical interpretations in the study of human development.

DEP 4135 PSYCHOLOGY OF LANGUAGE DEVELOPMENT (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. Available both to majors and non-majors. Surveys the course of and processes underlying normal language development. Presents data and theory on phonological, semantic, syntactic, and pragmatic development.

EXP 4104 SENSORY PROCESSES (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. Available to both majors and non-majors. Physophysical and neurophysiological data and theory underlying sensory processes. Visual, auditory, chemical, and somatosensory systems, with particular emphasis on visual processes.

EXP 4204C PERCEPTION (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. Topics include sensory and physiological bases of perception and how people process relevant information in their environments.

EXP 4304 MOTIVATION (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. An examination of human and animal motivations from both physiological and psychological viewpoints.

EXP 4404 PSYCHOLOGY OF LEARNING (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. Survey of methods, empirical findings, and theoretical interpretations in conditioning and instrumental learning.

EXP 4523C COGNITIVE PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. Applications of psychological principles to industry. Topics include: selection, training, motivation, job satisfaction, supervision, decision-making.

INP 3101 APPLIED PSYCHOLOGY -SS (3)
The application of psychological principles and the functions of psychologist in education, government, industry, and clinical practice.

INP 4004 INDUSTRIAL PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. Applications of psychological principles to industry. Topics include: selection, training, motivation, job satisfaction, supervision, decision-making.

PPE 4004 PERSONALITY (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. Methods and findings of personality theories and an evaluation of constitutional, biosocial, and psychological determinants of personality.

PSB 4013C NEUROPSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. Gross neural and physiological components of behavior. Structure and function of the central nervous system and theory of brain functions.

PSY 2012 AN INTRODUCTION TO CONTEMPORARY PSYCHOLOGY -SS (3)
A broad survey of psychology for both majors and non-majors with special emphasis on the more applied areas of psychology (e.g., social psychology, abnormal psychology, personality, and developmental psychology.)

PSY 3022 CONTEMPORARY PROBLEMS IN PSYCHOLOGY -SS (3)
The content of this course varies depending on the needs and interests of students and faculty. Offerings include in-depth coverage of specialized aspects of psychology applied to contemporary problems not studied in general introductory courses.

PSY 3044 EXPERIMENTAL PSYCHOLOGY -SS (3)
PR: PSY 2012, psychology major or CI. Designed as an in-depth examination of the basic principles and concepts of psychological science. Extensive coverage will be given to the areas of learning, perception, physiological psychology, and cognition.

PSY 3213 RESEARCH METHODS IN PSYCHOLOGY (4)
PR: PSY 3044, psychology major, or CI. This course considers the logic of experimental design, concept of control and the analysis of experimentally obtained data. The laboratory section provides experience applying the concepts discussed in lecture. Two lectures plus two-hour lab. May be taken concurrently with PSY 3044.

PSY 4205 EXPERIMENTAL DESIGN AND ANALYSIS (3)
PR: PSY 3213 with grade of C or better, psychology major, or CI. Detailed coverage of those research designs and statistical techniques having the greatest utility for research problems in psychology. Emphasis on topics from analysis of variance.

PSY 4604 SYSTEMATIC PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. The historical roots of modern psychological theories, investigation of the various schools of psychology such as behaviorism, Gestalt psychology, psychoanalysis, and phenomenological psychology.

170 COLLEGE OF ARTS AND SCIENCES
UNIVERSITY OF SOUTH FLORIDA - 1994/95 UNDERGRADUATE CATALOG
PSY 4913 DIRECTED STUDY (1-3)
PR: Upper-level standing, psychology major and CI. The student plans and conducts an individual research project or program of directed readings under the supervision of a faculty member. (S/U Only.)

PSY 4931 SELECTED TOPICS: SEMINAR (3)
PR: Upper-level standing, psychology major and CI. Graduate-type seminar designed to provide the advanced undergraduate student with an in-depth understanding of a selected sub-area within psychology. May be repeated with a maximum of six (6) hours credit for the major.

PSY 4932 HONORS SEMINAR (3)
PR: Admission to honors program in psychology and CI. The student, under supervision of a faculty member, will formalize, conduct, analyze, and report in writing a research project in psychology. May be repeated with a maximum of 6 hours credit. May not count for major credit.

PSY 4970 HONORS THESIS (1-3)
The student under supervision of a faculty member will formalize, conduct, analyze, and report in writing a research project in psychology. May be repeated with a maximum of 6 credit hours.

SOP 3742 PSYCHOLOGY OF WOMEN - SS (3)
An examination of theories of female personality in historical perspective. Current research on sex differences, socialization, sexuality, psychology of reproduction. Emerging roles of women as related to social change and developmental tasks of the life cycle. (Also offered under Women's Studies.)

SOP 4004 SOCIAL PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. Survey of methods, empirical findings, and theoretical interpretations in the study of an individual's behavior as it is affected by others.

SOP 4714C ENVIRONMENTAL PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. Explores the influences of environment on behavior. Topics considered include crowding, privacy, territorial behavior, environmental design, and pollution effects. Designed for both psychology majors and non-majors.

PUBLIC ADMINISTRATION

PAD 3003 INTRODUCTION TO PUBLIC ADMINISTRATION - SS (3)
Examination of organizational behavior and change, policy process, public management, financial administration, and personnel management from the perspective of public and social delivery.

PAD 4204 PUBLIC FINANCIAL ADMINISTRATION (3)
Analysis of problems in the growth and development of public budgetary theory and Federal budgetary innovations.

PAD 5035 ISSUES IN PUBLIC ADMINISTRATION AND PUBLIC POLICY (3)
Selected issues and topics in Public Administration and Public Policy. May be repeated for credit as topics vary.

PAD 5333 CONCEPTS AND ISSUES IN PUBLIC PLANNING (3)
PR: URP 4050 or URP 6056. Analysis of basic concepts, issues, and strategies of planning; policy determination, collection of information, and decision making.

PAD 5605 ADMINISTRATIVE LAW (3)
An examination of the constitutional and statutory bases and limitations of the administrative process, administrative adjudication, rule making, and the judicial review of such actions.

PAD 5612 ADMINISTRATIVE REGULATION (3)
Analysis of the regulatory functions and processes in the American political system: regulatory commissions, their functions, powers, management, reforms, and relationship with other branches of government.

PAD 5700 RESEARCH METHODS IN PUBLIC ADMINISTRATION (3)
This course provides the student with the fundamental skills and knowledge of how research is designed, implemented, analyzed, and utilized in public sector agencies. Available to majors and non-majors.

PAD 5807 ADMINISTRATION OF URBAN AFFAIRS (3)
Analysis of the role of the administrator at the municipal level; the division of functions; policy formation; alternative governmental structures; effects on the administrative process.

PAD 5836 COMPARATIVE PUBLIC ADMINISTRATION (3)
How organizations and managers perform within a particular environment, potential impact of innovation, and how service is accomplished in a variety of socio-economic environments.

REHABILITATION COUNSELING

RCS 3060 REHABILITATION COUNSELING: CONCEPTS AND APPLICATIONS (3)
This introductory course (1) surveys the theories, concepts, and attitudes involved in helping disabled or unable persons become increasingly able. (2) provides initial experiences with these counseling perspectives and methods and their personal application.

RCS 5080 MEDICAL ASPECTS OF DISABILITY (4)
PR or CR: RCS 5700. A survey of medical conditions and disabilities encountered by rehabilitation and mental health counselors. Examines the relationship of client handicaps, physical and mental, to rehabilitation and mental health programming.

RCS 5408 SEMINAR I: HUMAN DEVELOPMENT THEORY IN COUNSELING (3)
Human development theory as applied in psychotherapy and case management rehabilitation mental health and addiction settings.

RCS 5450 THEORETICAL ISSUES IN APPLIED ALCOHOL ABUSE IN REHABILITATION COUNSELING (4)

RCS 5485 INTERPERSONAL COUNSELING I: PERSONALITY THEORY (4)
A skill-building course on the utilization of one's self in rehabilitation and mental health counseling relationships. Includes the study of personality theories and their contribution to successful counseling and rehabilitation practice.

RCS 5700 FOUNDATIONS AND ETHICS (4)
An overview of rehabilitation history and introduction to rehabilitation processes and ethical issues in the public and private sectors. Ethical, legal, and professional standards in rehabilitation and mental health counseling are emphasized.

RCS 5800 PRACTICUM I (1)
Supervised experience and practice in counseling in various rehabilitation and mental health settings for a minimum of 120 hours.

RCS 5905 DIRECTED STUDIES (1-4)
Supervised rehabilitation studies under the direction of a faculty member.

RELIGIOUS STUDIES

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.

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 lan-
An introduction to the context of Christian beginnings in the first century A.D. through film against the background of the ancient Near East, with attention to the dimensions of theories, methods, history, myths and traditions in a global context in order to understand the mutual interactions between religions and cultures. Emphasis will be placed on the role of religions in shaping human values which can either create or resolve social conflicts, and the impact these values can have on issues of race, ethnicity and religious diversity in a multicultural world.

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.

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.

A course designed to allow the student to survey the wide spectrum of contemporary sects and cults and learn what motivates their development.

A study of contemporary witchcraft and paganism, including theories, methods, history, myths and symbols, beliefs, rituals and practices, believers, recruitment, socialization, and organizations.

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.)

This course will use contemporary films such as Gandhi, Malcolm X, The Long Walk Home, The Color Purple, The Leap of Faith, The Chosen, and Grand Canyon, to explore the personal and social dimensions of religion in modern secular societies, with an emphasis on issues of racism, sexism and human liberation and reconciliation.

An analysis of contemporary social issues through contemporary films, drawing on religious narrative traditions from Eastern and Western cultures which have contributed to the development of an ethic of human dignity, human rights and human liberation after Auschwitz and Hiroshima.

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.

An introduction to the critical study of the New Testament in context of Christian beginnings in the first century A.D.
REL 4221 WHO WROTE THE BIBLE (GENESIS-KINGS-XFA-XMW-XLW) (4)
A critical examination of Genesis through 2 Kings. This course focuses on the history of the formation of the text and the development of the religious traditions represented therein. Special attention will be paid to Israelite Law, Covenant Theology, and the history of the religion(s) of the Children of Israel in their Ancient Near Eastern context.

REL 4224 HEBREW BIBLE II/PROPHETS AND WRITINGS (4)
PR: REL 3210 or REL 4221 or CI. An investigation of the prophetic movement and the historical and cultic writings in Israel from the point of view of theological developments, history presupposed, and the religious institutions depicted. Special attention is given to a theme such as Job and the problem of evil.

REL 4244 NEW TESTAMENT I: GOSPELS, ACTS (4)
An exploration of the Gospels and Acts, including their backgrounds in Judaism and pagan religion, literary and form criticism, historical Jesus research, and the social history of earliest Christianity.

REL 4250 ESOTERIC LIFE AND TEACHINGS (4)
PR: CI. An examination of the various historical studies made in the quest of identifying Jesus as an historical figure. The concern is to make a reasonable assessment of who Jesus was and what he was saying to the Jews in Palestine at the beginning of the common era.

REL 4252 NEW TESTAMENT II: THE LETTERS OF PAUL AND OTHER NEW TESTAMENT WRITINGS (4)
PR: REL 4244 or REL 3240 or CI. An investigation of the phenomenon of earliest Christianity in its Pauline and non-Pauline forms, particularly as reflected in Paul’s letters and in other writings of the New Testament. Special attention is given to the program of Apocalyptic, as in the book of Revelation.

REL 4333 HINDUISM (4)
The philosophy of the sages; the complex rituals of the Brahmins; the art of their temples; the psychology and physiology of yoga; the social rigidity of the caste system; the esoteric science of meditation; the ascetic activism of Mahatma Gandhi—all of these are Hinduism, and through readings of classical texts, philosophic systems and medieval poems.

REL 4343 BUDDHISM IN INDIA, SRI LANKA, AND SOUTH EAST ASIA (4)
The life and teachings of the Buddha; the order of monks and nuns; the Buddhist Emperor Ashoka; schisms; the rise of the Great Vehicle and the philosophy of emptiness; Buddhist missions; Buddhist art and culture; Buddhism and national liberation; contemporary social and political issues.

REL 4344 BUDDHISM IN CHINA, JAPAN, AND TIBET (4)
Mahayana Buddhism followed the silk routes to China and Japan, and later it crossed the Himalayas into Tibet. An overview of the variety of schools and practices of Buddhism and its adaptation by these ancient cultures.

REL 4433 THE HERO AND RELIGION -XMW (3)
A study of the way in which embedded religious models help to fashion the representation of an heroic protagonist. The focus of the course will be on the relationship between the hero and the "other," as differentiated by race, gender, ethnicity, or merely inner being.

REL 4508 FROM MYTH TO CHRISTIANITY (3)
Study of the religions/mythologies of the ancient Middle East and Eastern Mediterranean and how their influences shaped the theology and practices of Christianity up to the end of the fourth century; influences many of which continue to be evident in the traditional Roman and Eastern Orthodox churches.

REL 4626 REASON IN RELIGION: TALMUDIC LOGIC -6A -XMW (3)
Analyzes the modes of thought and of logical analysis of the Talmud of Babylonia; the way in which applied logic and practical reason work in a religious definition of the social order, the dialectical aspect.

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.

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 religious studies.

REL 4936 SELECTED TOPICS (1-4)
PR: Junior standing and CI. Individual investigations with faculty supervision.

REL 4939 THE DEVELOPMENT OF RELIGIOUS STUDIES (3)
Course designed for senior majors (and minors) in religious studies to complement REL 4931 (Senior Seminar). Discussion of key figures and methodological advances in the development of the field from the 18th century to present, with readings of classics in the development.

WST 5318 FEMINIST SPIRITUALITY (3)
This course will focus on the many voices of contemporary feminist spirituality beginning with women's experiences in diverse religious, ethnic and cultural traditions, and representing a range of theoretical perspectives from biblical feminism to goddess worship and wicca. May not be repeated. (May be taken through Women's Studies.)

SOW 3011 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I (3)
PR: All pre-core courses. Restricted to Social Work majors; others by School permission. An integrating human behavior-social environment course emphasizing dynamics of behavior and environmental factors as they relate to social work practice with individuals, and families and groups.

SOW 3023 THE AMERICAN SOCIAL WELFARE SYSTEM -SS (3)
A general education introductory course which provides students with a framework for understanding the historical development of American social welfare, its value base, and its response to minorities, women, children, the elderly, and the disabled.

SOW 3302 INTRODUCTION TO SOCIAL WORK (3)
An introductory course tracing the development of social work as a profession including an examination of the knowledge, skill and attitudinal base of the profession and professional roles and functions.

SOW 3401 RESEARCH AND STATISTICS FOR SOCIAL WORK (3)
PR: All pre-core courses. Restricted to Social Work majors, others by School permission. The purpose of this course is two-fold: to familiarize the student with research as it is practiced in the profession of Social Work; and to equip the student with those theoretical understandings necessary to be a critical consumer of social work research.

SOW 4233 SOCIAL WELFARE: POLICY & PROGRAM (4)
PR: All pre-core courses and SOW 3203. Restricted to Social Work majors, others by School permission. An advanced policy course taking an analytical approach to contemporary social welfare policy issues and current social welfare programs.

SOW 4341 MULTI-METHODS OF SOCIAL WORK PRACTICE I: MICRO-SYSTEM INTERVENTION (5)
PR or CR: SOW 3101; SOW 3401. Restricted to Social Work majors; others by School permission. First practice course emphasizing development of skills and interventive methods with individual, families and small groups. Course includes both didactic and experiential learning components.

SOW 4343 MULTI-METHODS OF SOCIAL WORK PRACTICE II: MACRO-SYSTEM INTERVENTION (5)
PR: All pre-core courses, SOW 4341; SOW 4233, and SOW 3102 may be taken as PR or CR. Restricted to Social Work majors, others by School permission. Second practice course emphasizing intervention at the community and organizational level.
Builds upon theoretical and practical content of SOW 4341. Course includes both didactic and experiential learning components.

SOW 4510 FIELD PLACEMENT (10)
- Completion of all social work core courses except SOW 4522.
- Restricted to social work majors in Senior year. Supervised field placement in a social welfare organization consisting of 32 hours per week in the field and 4 hours per week in an integrated practice seminar which constitutes the third and final course in the practice sequence.

SOW 4522 SENIOR SEMINAR (2)
- All pre-core courses; all core Social Work courses, except that SOW 4510 may be taken as Cr. This course is the final course taken in the BSW curriculum. It is restricted to Social Work majors in their final stages of the senior year. The course serves as a means for assisting the student in synthesizing and integrating his/her learning experiences in the BSW program.

SOW 4900 DIRECTED READINGS (1-6)
- Completion of four social work courses including SOW 3401, upper level standing, and School permission. Content dependent upon student interest and ability. A contract will be jointly developed by student and instructor specifying nature of work to be completed. May be repeated up to 6 credit hours.

SOW 4930 VARIABLE TOPICS IN SOCIAL WORK (1-3)
- Restricted to Social Work majors; others by School permission. Variable title courses to expand on the four sequence areas in the Social Work core curriculum. Allows focus on areas relevant to student's educational interest.

SOW 5930C SELECTED TOPICS IN SOCIAL WORK (1-4)
- Restricted to Social Work majors, both graduate and undergraduate; others by School permission. Course is taken as an elective. Variable title courses will selectively expand specific social work content areas. May be repeated in varying topic areas.

SOCIOLOGY

SYA 3010 MACRO THEORY (3)
- SYG 2000 or Cr. Examination of the major theoretical perspectives in sociology which approach the study of society from the analysis of large scale social structures and phenomena.

SYA 3300 QUANTITATIVE METHODS (3)
- SYG 2000 or Cr. Examination of techniques of planning and conducting quantitative research; and analyzing and interpreting quantitative data.

SYA 33100 QUALITATIVE METHODS - XLW (3)
- SYG 2000 or Cr. For majors only (or Cr). Examination of the techniques of planning and conducting qualitative research; and analyzing and interpreting qualitative data.

SYA 3503 COMMENTARY FILM MAKING IN THE SOCIAL SCIENCES (3)
- Major in the College of Arts and Sciences and Cr in an upper level course. For students majoring in some other college, approval by major professor and instructor of course is both required, but concurrent registration in one of the social and behavioral science courses is maintained. The consideration of the theoretical and technical requirements for expressing social science concepts and propositions on film. Film planning, camera techniques, editing silent film, and the utilization of the independent sound (tape cassette) in the commentary film. Ethics of film making.

SYA 3504 LABORATORY WORK IN COMMENTARY FILM MAKING IN THE SOCIAL SCIENCES (1)
- SYA 3503, Cr in a course in the social and behavioral sciences with instructor's approval to enable student to make a film in lieu of some other course requirement. A continuation of lab and field work in the making of commentary films. Camera, editorial and problems of independent sound solved in the context of making a film in one of the social sciences. Does not count for sociology major credit. May be repeated for a maximum of three credits. (S/U only)

SYA 4430 COMPUTERS IN SOCIOLOGICAL RESEARCH (3)
- Introduction to the uses of computers in sociological research. Major emphasis is upon the use of statistical packages (principally SPSS) in data analysis. (S/U only.)

SYA 4910 INDIVIDUAL RESEARCH (1-3)
- Four courses in sociology, including SYA 3300, upper level standing, at least 3.0 overall GPA, or Cr. Content dependent upon interest and competence of student. A contract specifying the work to be done must be completed and signed by both the student and the chairperson of the department before registration for this course will be permitted. May be repeated for credit. Up to 3 credits may be counted towards meeting major electives requirement.

SYA 4930 TOPICS IN SOCIOLOGY (3)
- SYG 2000 or Cr. May be repeated for credit. See class schedule for content.

SYA 4935 SENIOR SEMINAR (3)
- Senior standing. SYG 2000, SYA 3010, SYA 3015, SYA 3300, SYA 3310 plus 6 hours of sociology electives. Course stresses application of theory and methods to specific topics in sociology.

SYA 4949 SOCIOLOGICAL INTERNSHIP (1-6)
- Senior or graduate standing in Sociology plus Cr. Supervised placement in community organization or agency for a minimum of 10 hours of volunteer work per week, and a weekly seminar on applying sociological skills and methods in the placement setting. May be repeated up to 6 credit hours. (S/U only.)

SYD 3700 RACIAL AND ETHNIC RELATIONS (3)
- SYG 2000 or Cr. Comparative study of interracial relations, social tensions, attitudes, and modes of adjustment in various areas of the world.

SYD 4020 POPULATION (3)
- SYG 2000 or Cr. Upper level standing. Sociological determinants of fertility, mortality and migration; theories of population change.

SYD 4410 URBAN SOCIOLOGY (3)
- SYG 2000 or Cr. Upper-level standing. The social structure of the community in modern industrial societies. Analysis of community change.

SYD 4441 COMPARATIVE RURAL SOCIOLOGY (3)
- SYG 2000 or Cr. The study of rural life in the United States; compares the situation in the United States with that of other societies as well as other times in history; some aspects of rural peasant societies and experiments in rural community formation.

SYD 4800 SOCIOLOGY OF SEX ROLES (3)
- SYG 2000; WST 2010 or 2011, or Cr. Historical and contemporary exploration of current issues relevant to sex roles in America. Emphasis on sex role differences, interpersonal relationships and institutional participation. (Also offered under Women's Studies.)

SYG 2000 INTRODUCTION TO SOCIOLOGY -SS (3)
- Nature and application of sociological concepts, theories, and methods; analysis of societies, associations and groups; social processes and social change.

SYG 2412 MARRIAGE (3)
- Study of pre-marital relations, Social, cultural, and personal factors related to success and failure in mate selection and marriage. Does not count for sociology major credit.

SYG 3010 CONTEMPORARY SOCIAL PROBLEMS -SS (3)
- Application of sociological concepts and principles to the description and analysis of major social problems of modern societies. Does not count for sociology major credit.

SYO 3120 THE FAMILY (3)
- SYG 2000 or Cr. Principles of family organization, social adjustment, and control. Maturation, socialization, and stability of the family.

SYO 3200 SOCIOLOGY OF RELIGION (3)
- SYG 2000 or Cr. Types, sources, and functions of religious behavior. Religious behavior in relation to other aspects of personality and culture.

SYO 3500 SOCIAL ORGANIZATION (3)
- SYG 2000 or Cr. Social organization in the broadest sense, including institutions and associations, as well as variations in role and status.

SYO 3530 SOCIAL STRATIFICATION (3)
- SYG 2000 or Cr. Social status and social stratification, social class as a factor in behavior, social mobility.

SYO 4431 POLITICAL SOCIOLOGY (3)
- SYG 2000 or Cr. An examination of the social factors that...
### WOMEN'S STUDIES

**AFA 4335 BLACK WOMEN IN AMERICA -6A -XMW**
An interdisciplinary survey of the contemporary experience of black women in America, including the African roots, myths, and realities surrounding that experience. (May also be taken for credit in Africana Studies.)

**AMH 3561 AMERICAN WOMEN I**
A study of women in the evolution of American society from European origins to 1877. Women's roles in the family, economy, politics, wars, religion and reform movements will be examined. (May also be taken for credit in History.)

**AMH 3562 AMERICAN WOMEN II**
A study of women in the evolution of American society from 1877 to the present. Women's roles in the family, economy, politics, wars, religion and reform movements will be examined. (May also be taken for credit in History.)

**AMH 3563 AMERICAN WOMEN III**
A study of women in the evolution of American society from 1877 to the present. Women's roles in the family, economy, politics, wars, religion and reform movements will be examined. (May also be taken for credit in History.)

**AMS 3370 SOUTHERN WOMEN: MYTH AND REALITY -6A**
An analysis of the myths surrounding Southern Women, this course will identify these myths, discern their sources and purposes, and contrast them with history. (May also be taken for credit in American Studies.)

**ANT 4302 SEX ROLES IN CROSSCULTURAL PERSPECTIVE**
PR: ANT 3410 or Cl. Focuses on various theories, models and beliefs about male-female behaviors and interactions in human cultures throughout history and in various societies in the world today. (May also be taken for credit in Anthropology.)

**LIT 3383 THE IMAGE OF WOMEN IN LITERATURE**
A survey of feminism, antifeminism, sexual identity, the feminine mystique, stereotyped and liberated female images form Sappho to the present, with special emphasis on women writers and on the emergence of the women's movement. (Also offered in English Department.)

**PHI 4632 FEMINIST ETHICS -XMW**
A study of the varied approaches to moral reasoning taken by feminist ethical writers such as Wollstonecraft, Mill, Gilligan, Daly, Hoagland and others. (May also be taken for credit in Phi­losophy.)

**PHM 5125 TOPICS IN FEMINIST PHILOSOPHY**
A study of recent feminist philosophical approaches to epistemology, aesthetics or political philosophy. (May also be taken for credit in Philosophy.)

**POS 4693 WOMEN AND LAW I**
Introduction to issues concerning the legal aspects of sex and sex-based discrimination as embodied in statutory and case law, focusing on constitutional and family law and reproductive freedom issues. Open to majors and non-majors. (May also be taken for credit in Government and International Affairs.)

**POS 4694 WOMEN AND LAW II**
PR: POS 4693 or Cl. Legal position of women in American society and remedies available to challenge current laws and practices, with specific emphasis on employment and education issues as they relate to both women and men. (May also be taken for credit in Government and International Affairs.)

**PUP 4323 WOMEN AND POLITICS -6A**
An analysis of the impact of gender on power and influence in American society, and women's changing role in the political process. Open to majors and non-majors. (May also be taken for credit in Government and International Affairs.)

**REL 3145 WOMEN AND RELIGION -6A**
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 Religious Studies.)

**SOP 3742 PSYCHOLOGY OF WOMEN -SS**
Theories of female personality. Current research on socialization, sexuality, reproduction. Emerging lifestyles and developmental tasks of the life cycle. (May also be taken for credit in Psychology.)

**SPT 5254 WOMEN WRITERS OF LATIN AMERICA**
Literature of Latin-American women (in translation). Topics related to race and ethnicity, values and ethics, social, economic, and political issues. Readings will include oral histories, interviews, diaries and memoirs, poetry, short stories, and novels. (May also be taken in Modern Languages and Linguistics.)

**SYD 4800 SOCIOLOGY OF SEX ROLES**
PR: SYG 2000, WST 3010 or 3011; or Cl. Historical and contemporary exploration of current issues relevant to sex roles in America. Emphasis on sex role differences, interpersonal relationships and institutional participation. (May also be taken for credit in Sociology.)

**WST 2309 THE FEMALE EXPERIENCE IN AMERICA**
The female experience in America, in historical context, with an emphasis on women in families of various classes, races, and ethnic groups from 1600 to 1870.

**WST 2380 HUMAN SEXUAL BEHAVIOR -SS**
The dynamics of human sexuality: biological, constitutional, cultural, and psychological aspects. The range of sexual behavior across groups. Sources of beliefs and attitudes about sex, including sex roles and especially female sexuality.

**WST 3610 INTRODUCTION TO WOMEN'S STUDIES -5W**
Survey of major issues relevant to the female experience. The