ENGLISH EDUCATION

The English Education Section of the Department of Social Science/Letters has as its primary undergraduate mission, the preparation of teachers of English for junior and senior high schools. (Teachers of middle school English ordinarily enroll in Elementary Education and acquire additional background in the English Education section.) The primary graduate missions of this section are to advance the skills of people already teaching English in the public schools and to train them for responsibilities in language arts leadership as department chairs, curriculum coordinators, and consultants in the public schools or as teachers and researchers of English methods in colleges.

The section offers the B.A. degree in both English Education and English-Mass Communication Education and the M.A. degree in English Education and the M.Ed. degree in Curriculum and Instruction with an emphasis in Communication Education, and the Ed.S. and Ph.D. degrees in Curriculum and Instruction with an emphasis in Communication Education. (The latter two degrees are interdisciplinary degrees offered in conjunction with other communication education specialties: Speech Communication, Drama Education, Foreign Language Education, Humanities Education, and Reading Education.

Requirements for the B.A. Degree (ENE):

- The minimum requirement for acceptance into this program is a 2.5 grade point average. Graduation requirements: "C" grade or better in Methods Course. SPC 2023, the prerequisite for ORI 3000, must be taken as part of the lower-level general studies preparation.

Requirements for the B.A. Degree (FLE):

- Foreign Language Education offers programs leading to the B.A. degree and certification in the secondary area in the following languages: French, German, Italian, Latin, Portuguese, Russian, Spanish. The undergraduate program, when successfully completed, makes the graduate of these programs automatically eligible for teaching certification in the State of Florida.

FOREIGN LANGUAGE EDUCATION

Foreign Language Education offers programs leading to the B.A. degree and certification in the secondary area in the following languages: French, German, Italian, Latin, Portuguese, Russian, Spanish. The undergraduate program, when successfully completed, makes the graduate of these programs automatically eligible for teaching certification in the State of Florida.

Programs are offered leading to the M.A. degree in the secondary area in the following languages: French, German, Spanish. The master's programs are designed primarily to improve the skills of the person already certified in Foreign Language Education. Plan I is for teachers who are certified to teach. Plan II is for people with a bachelor's degree in a language who wish to gain certification with their master's degree.

Combination programs leading to the B.A. degree and certification are offered in the following areas: Latin-English Education; Latin-Foreign Language Education; Foreign Language-English Education; Dual Foreign Language Education (any combination of two different foreign languages).

Requirements for the various degrees follow.

Requirements for the B.A. Degree in Mass Communications-English Education (MCE):

- The minimum requirement for acceptance into this program is a 2.5 grade point average. SPC 2023 must be included in the lower division sequence.

Specialization Requirements (43 cr. hrs.)

- Mass Communications (19 cr. hrs.):
  - JOU 3100 MMC 3100 RTV 3225
  - JOU 4800 MMC 3602
- Two of the following:
  - FIL 3004 JOU 3205 MMC 4200 VIC 3000
  - FIL 4300 JOU 4200 RTV 3000 VIC 3100

Two special methods courses LAE 4335 and LAE 4642 are included in the professional education sequence. LAE 4530 fulfills the state requirements for the competency in reading.

Requirements for the B.A. Degree (FLE):

FOREIGN LANGUAGE-ENGLISH EDUCATION:

Specialization Requirements (45 credit hours.)

**English** (24 credit hours.)

- ENS 3310 LIN 4370 SPC 2023

or

- CRW 3100

At least one of the following:

- ENL 3012 ENL 3220 ENL 3273

- ENL 3022 ENL 3230 ENL 3241

- ENL 3201

One of the following:

- AML 3023 AML 3041 AML 3051

- ENG 3105 ENG 3114 LIN 3073

If an elective is needed, ORI 3000 is recommended.

Foreign Language requires a minimum of 24 credit hours beyond intermediate courses.

Course Requirements are:

- Composition I and II
- Conversation I and II
- FRW 4230 GEW 4101 SPW 4100
- FRW 4500 ITW 4100 SPW 4101
- GFW 4100 ITW 4101

Student and adviser will select the additional foreign language courses to total a minimum of 24 credit hours. FOL 5752, FOW 5405, LIN 3010, LIN 3801, and LIN 4377 may be among the selected courses.
TWO FOREIGN LANGUAGE EDUCATION

Specialization Requirements (42 credit hours.)

Beginning and intermediate foreign language requirements (or equivalents) must be completed. In the major language (French, German, Italian, Russian, or Spanish), the student must earn a minimum of 24 credit hours, and in the minor language 18 credit hours. The required upper level foreign language courses for the major language are:

Composition I and II
FRW 4230 ITW 4100 SPN 5790*
FRW 4300 ITW 4101 or SPW 4130
GEW 4100 SPW 4101

Plus additional selected hours in the major language to total 24 credit hours.

The minor language requirements in upper level foreign language courses are:

Composition I and II
FRW 4230 GEW 4101 Conversation I and II
FRW 4300 ITW 4100 SPW 4101
GEW 4100 ITW 4101

Plus additional selected hours in the minor language to total 18 credit hours.

*Spanish majors only.

SINGLE FOREIGN LANGUAGE EDUCATION

After consultation with a foreign language education adviser, the Dean may give permission for a student to elect a single foreign language major. A minimum of 30 credit hours beyond intermediate course requirements must be earned in the single foreign language. Among the 30 hours must be the following:

French (30 credit hours.)

FRE 3240 FRE 4241 FRW 4230
FRE 3420 FRE 4421 FRW 4300

Plus additional selected hours of upper level courses to total 30 hours.

German (30 credit hours.)

GER 3240 GER 4241 GEW 4100
GER 3420 GER 4421 GEW 4101

Plus additional selected hours of upper level courses to total 30 hours.

Italian (30 credit hours.)

ITA 3240 ITA 4241 ITW 4100
ITA 3420 ITA 4421 ITW 4101

Plus additional selected hours of upper level courses to total 30 hours.

Russian (30 credit hours.)

RUS 3400 RUT 3110
RUS 4401 RUT 3111

Plus additional selected hours of upper level courses to total 30 hours.

Spanish (30 credit hours.)

SPN 2240* SPN 4301 SPW 4101
SPN 3300 SPW 4100 or
SPN 3241** SPW 4130

Plus additional selected hours of upper level courses to total 30 hours.

*LIN 3010, LIN 3011, LIN 4377 may be used to satisfy selected course requirements of the foreign language.

**These course will not count in major for students who are fluent in Spanish.

Requirements for the M.A. Degree (FLE):

(FRENCH, GERMAN, SPANISH)

Plan I is for certified teachers and students must take the same areas of study as students in Plans II and III, except they are only required to take EDF 6431 in the process core.

Plan III is a program of graduate studies for holders of a non-education baccalaureate degree who do not wish to meet teacher certification requirements in the State of Florida. The primary difference in this plan from Plan II is that students will not be required to take EDG 5206, Curriculum and Instruction, and EDG 6947, Internship.

A. Process Core (11 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6431</td>
<td>EDG 6606</td>
</tr>
<tr>
<td>EDF 6481</td>
<td>EDF 6215</td>
</tr>
<tr>
<td>EDF 6211</td>
<td>EDF 6517</td>
</tr>
</tbody>
</table>

B. Current Trends Course in Teaching Specialization (3 hours)

C. Specialization (18 hours)

This is an individually planned graduate major in the teaching field or in an appropriate College of Education program for K-12 specialists.

In addition, Plan II requires an internship in the Foreign Language. A minimum of 18 hours are required in the Foreign Language course on the 5000 and 6000 levels. However, depending upon the candidate’s background and strengths, Foreign Language course requirements can go as high as 24 hours. Unless otherwise approved by an adviser, at least 14 hours in French should be on the 6000 level; at least 12 hours in Spanish should be on the 6000 level.

HUMANITIES EDUCATION

The Humanities Education Program seeks to prepare secondary school humanities teachers who have extensive academic work in the humanities. B.A. and M.A. degree programs are available.

At the B.A. degree level, students develop teaching strategies, materials, and curricula to use in teaching the humanities to students in grades 7-12. Although emphasis is placed upon meeting the requirements of the State of Florida, students are encouraged to use sufficient experience to allow them to move on to other states as qualified humanities teachers. Whenever possible, students are encouraged to gain a second certification area to allow even greater professional mobility.

At the M.A. level, experienced humanities teachers are offered continued work in their professional area to expand their understanding of man’s accomplishments and enlightenment. The degree also is available to individuals who wish to gain certification in the humanities but whose undergraduate degree was in another academic area. Students are expected to demonstrate research and writing abilities in relation to synthesizing information on man’s accomplishments in the humanities. Having demonstrated this ability, they are expected to be able to show how the material may be taught to students in secondary schools and/or community colleges.

Although all graduates in Humanities Education are expected to demonstrate teaching abilities in the area, neither degree limits its product to teaching. The work in this area is considered to be a good general background for any profession which deals with human evaluation, perpetuation of man’s accomplishments, and the production of creative or artistic products.

Requirements for the B.A. Degree (HUE):

The minimum requirement for acceptance into this program is a 2.5 grade point average. Graduation requirements: 2.5 GPA in major and "C" grade or better in Methods Course.

Specialization Requirements HUM 4813 and 28 credit hours from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 4433, 4434</td>
<td>HUM 4905, 4906</td>
</tr>
<tr>
<td>HUM 4435, 4436</td>
<td>HUM 5452, 5454, 5456</td>
</tr>
<tr>
<td>HUM 4437, 4438</td>
<td>HUM 5485, 5486</td>
</tr>
<tr>
<td>HUM 4440, 4441</td>
<td>HUM 5412</td>
</tr>
<tr>
<td>HUM 4444, 4445</td>
<td>HUM 5414</td>
</tr>
<tr>
<td>HUM 4471, 4473</td>
<td>HUM 5415</td>
</tr>
<tr>
<td>HUM 4442, 4443</td>
<td>HUM 5465</td>
</tr>
</tbody>
</table>

Also required a minimum of six credit hours in the creative or performing arts from the following areas: Theatre, Art, Music, Dance, and English. All foreign language work in these areas taken prior to entering the College of Education will be considered toward the satisfaction of this requirement.

Course work to meet Florida reading requirements is required. Majors are encouraged to gain certification in a second area.
Requirements for the M.A. Degree (HUE):

Plan I—Requirements for admission: A bachelor's degree in Humanities Education or a related area which included teacher certification; 1000 on the GRE and an academic average of B in the last two years of undergraduate work; approval of Humanities Education adviser.

Course Sequence: HUM 4813 (if not taken previously) EDF 6431 and EDF 6481; two courses from EDF 6211 or EDF 6215, EDF 6606, EDF 6517, EDF 6544 or other Education areas approved by the Humanities Education adviser; HUM 4870; HUM 6915; and six graduate courses from the Humanities Department, two of which may be at the 5000 level. Candidates must complete a comprehensive examination successfully, after completing written papers for the Humanities Department.

Plan II—Requirements for admission: A bachelor's degree in Humanities or a related subject area; 1000 on the GRE and an academic average of at least B in the last two years of undergraduate work; approved by the Humanities Education adviser. Any entrance requirement waivers must be approved by both the Humanities Department and the Humanities Education adviser.

Course Sequence: HUM 4813 (if not taken previously) Process Core; HUM 4870; RED 4337; HUM 6915; EDG 6947; and six graduate courses from the Humanities Department, two of which may be at the 5000 level. Candidates must complete a comprehensive examination successfully, after completing written papers for the Humanities Department. The examination should be scheduled during a time when the candidate is not interning.

SOCIAL SCIENCE EDUCATION

The goals and objectives of the secondary Social Science program at the undergraduate level are designed to prepare students to meet Florida state certification requirements. In working toward state certification requirements, candidates for the undergraduate degree enroll in courses for the purpose of acquiring subject knowledge in the social sciences as well as knowledge and skills related to social science methodology and curriculum. The Social Science program at the elementary level is for the purpose of providing candidates in elementary education with the knowledge of skills needed in developing a competent Social Science program at the elementary school level.

At the graduate level, students may elect to pursue an M.A. degree in secondary Social Science Education or an M.Ed. degree in Curriculum and Instruction with specialization in Social Science Education. The master's programs are intended mainly to improve the skills and knowledge of the classroom teacher.

Requirements for the B.A. Degree (SSE):

The College of Education provides a program of study which enables students to attain a degree in secondary social science education (7-12). To teach at the secondary level the minimum requirements of social science education major must be met. All programs in the social science education major specify 40 credits or more in the social sciences. A teaching emphasis requires a minimum of 16 credits in one discipline within an approved specialization which will lead to certification in the broad area of social sciences. However, a student may concentrate his study in one of the separate subject areas (political science, history, geography, American history). Each program contains both required and elective courses which each student in consultation with his adviser will select. Graduation requirements: 2.5 GPA in major and "C" grade or better in Methods Course.

Requirements for the M.A. Degree (SSE):

This degree is designed to provide advanced training for the purpose of becoming a better teacher in grades 7-12.

Plan I—is for teachers who are certified to teach general secondary social studies or one of the separate subject areas.

Education courses include: EDF 6431, SSE 6636 and 6-9 hours of electives.

Each student in consultation with his adviser will select at least five courses at the 5000 or 6000 level, for a total of at least 18 semester hours, from courses offered in the College of Social and Behavioral Sciences. Three or more of these courses must be at the 6000 level.

Plan II—Students will complete all the Plan I requirements, take SSE 4333, EDG 5208 and EDG 6947, plus two more foundation courses and any other social science courses which the Social Science Education department deems necessary for fulfilling minimum state certification requirements.

Plan III—is for people with a social science baccalaureate degree who do not want state certification.

SPEECH COMMUNICATION EDUCATION

The program in Speech Communication Education offers B.A. and M.A. degree programs leading to secondary school certification in speech. It cooperates with other areas in the University that have graduate courses in human communication, to offer the Ph.D. degree in Curriculum and Instruction with an emphasis in Communications Education to qualified and experienced communication educators.

At the undergraduate level emphasis is placed upon preparing students with a liberal arts background to teach speech communication courses in grades 7-12. Although particular attention is devoted to the needs and requirements of Florida, a genuine effort is made to assist majors at all levels to gain a diversified background in communication skills that will allow easy national and international mobility among English speaking schools. Whenever possible, majors are encouraged to obtain necessary courses and skills to permit them to be certified in more than one academic area.

The M.A. degree program in Speech Communication Education gives advanced in-service education to experienced teachers and also provides a route for liberal arts graduates with considerable course work in speech communication to attain an advanced degree and state certification in speech simultaneously. The M.A. program also offers opportunities to teachers of other secondary school subjects to gain certification in another academic area. Thus, prospective language arts supervisors and English or Language Arts Department chairpersons are encouraged to increase their competencies in areas not permitted in their undergraduate programs, in order to understand more of the areas they will be expected to supervise.

The Ph.D. degree in Curriculum and Instruction with an emphasis in Communications Education encourages highly qualified, experienced teachers to pursue a program of research in several different areas of human communication. It requires a study of interrelationships among those various areas in theoretical and applied situations.

Although the primary emphasis of this program, at all degree levels, is the preparation and continued education of teachers, the program recognizes its graduates are suited to many other professions that require oral language facility. A degree in this program offers training in reasoning, human relations, group processes, aesthetics, research methodologies, and public presentations.

Requirements for the B.A. Degree in Speech Communication/Education (SED):

The minimum requirement for acceptance into this program is a 2.5 Grade Point Average. Graduation Requirements are a 2.5 GPA in the major and a "C" grade or better in SSE 4335. SPC 2023 must be taken as part of the lower level sequence.

Specialization Requirements (44-46 credit hours)

Communication (24 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 3003</td>
<td>ORI 3000</td>
</tr>
<tr>
<td>SPC 2023</td>
<td>SPC 3080C</td>
</tr>
<tr>
<td>ORI 4310</td>
<td>SPC 3513</td>
</tr>
<tr>
<td>SPC 3653</td>
<td>SPC 3680</td>
</tr>
<tr>
<td>THE 3080C</td>
<td>SPC 3080C</td>
</tr>
</tbody>
</table>

English (18 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENL 3012</td>
<td>ENL 3220</td>
</tr>
<tr>
<td>ENL 3022</td>
<td>ENL 3230</td>
</tr>
<tr>
<td>ENL 3201</td>
<td>ENL 3241</td>
</tr>
<tr>
<td>ENL 3250</td>
<td>ENL 3273</td>
</tr>
</tbody>
</table>

Course Sequence:

One of the following:

- SPC 3441
- SPC 3513

Two of the following:

- SPC 3210
- SPC 3441
- SPC 3513
- SPC 3601

At least two electives:

- ORI 4120
- ORI 5145
- SPC 3633
- ORI 4230

Vacancies in SPC 3633 may be filled by SPC 3513

One of the following:

- SPC 3653
- SPC 4680
- THE 3080C
- ENL 3250
- ENL 3273
- ENL 3333
Requirements for the M.A. Degree in Speech Communication/Education (SPEH):

Plan I—Requirements for admission: A bachelor's degree in Speech or Communications Education, Theatre or Drama Education, or English Education from a recognized institution; or current certification in Speech/Communication, Theatre, or English and a minimum of 20 hours of college course credits in oral communication.

Course Sequence: EDF 6431 and three electives in Education approved by the adviser; SED 6070 and SED 6670; and at least five courses in the Department of Communication including COM 6001, courses in rhetoric and/or communication, courses in oral interpretation. Candidates must complete a comprehensive examination successfully.

Plan II—Requirements for admission: A bachelor's degree from a recognized institution and a minimum of 20 hours of college course credits in oral communication.

Course Sequence: Process Core: SED 4371, SED 6070, and SED 6670, SED 4374, at least five courses in the Department of Communication including COM 6001, courses in rhetoric and/or communication, courses in oral interpretation; and EDG 6947. Candidates must complete a comprehensive examination successfully.

Requirements for the Ed.S. Degree in Communications Education:
The Ed.S. program in Curriculum and Instruction with an emphasis in Communications Education is intended for practicing educators who seek a broader understanding of human communication. Candidates must hold a master's degree in an area of Communications Education or be certified as a teacher and have a master's degree in one of the content areas of human communication (including Communication/Speech, English, Linguistics, Mass Communications, and Theatre). Candidates should expect to study areas different from their previous academic specialization, if they have prior degrees in only one area of human communication.

Each candidate's program will be reviewed by the graduate faculty in Communications Education. Programs will be individualized for each candidate based on existing proficiencies and anticipated future needs. A typical program would include:

Requirements for the Ph.D. Degree:
The Ph.D. degree in Curriculum and Instruction with emphasis in Communications Education is intended for individuals who have had considerable academic work in one or more of the areas of human communication. Candidates will be expected to study areas different from their previous fields of specialization in order to gain a wider understanding of the field of human communication. Each candidate's program will be based upon the individual's current academic proficiencies and presumed needs by the graduate faculty in Communications Education. This program does not permit narrow specialization in only one area of Communications Education.

This program encourages Communications Educators to develop new forms of communication; refine, preserve, and understand older forms of communication; and prepare future educators who will be capable of teaching the content and practice, form and process, of communication as an art and science.

The structure for this graduate program normally will be as follows, provided the student has the necessary prerequisites for all courses taken in this program:

I. Curriculum, Supervision, and Related Areas
   A. Content Area Courses other than prior specialization
   B. Communications Education courses with primary emphasis in areas other than prior specialization

II. Evaluation/Research
   A. Content Area Courses other than prior specialization
   B. Communications Education courses with primary emphasis in areas other than prior specialization

III. Specialty in Communication and Education
   A. Content Area Courses other than prior specialization
   B. Communications Education courses with primary emphasis in areas other than prior specialization

C. Ed.S. Project 9 hours

Minimum Hours Required: 36

Interested candidates should contact: Coordinator of Ph.D./Ed.S. Programs, Communications Education, Department of Social Science and Letters Education, College of Education, University of South Florida, Tampa, Florida 33620.
COLLEGE OF ENGINEERING

Have you ever felt you would like to be the "somebody" who will do "something" about the many problems we face? Our modern society requires new, practical solutions to its many complex technological problems. Spearheading this action will be the engineer and the engineering profession. The engineer, as always, will continue to be responsible for and obliged to use his/her knowledge for the benefit of mankind.

The increasingly rapid changes in our life style place an ever stronger responsibility to society and to our future on both those who are providing the engineering education as well as those who are being educated. The College of Engineering recognizes this in its approach to the education of tomorrow's engineers as well as in the content of the other programs under its direction which are vital to the technological progress of our society. Its curricula provides for an individual's development in both technical competency and human values.

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

Bachelor of Science in Chemical Engineering degree (ECH)
Bachelor of Science in Civil Engineering degree (ECE)
Bachelor of Science in Computer Engineering degree (ECP)
Bachelor of Science in Electrical Engineering degree (EEL)
Bachelor of Science in Engineering degree - various Options (EGU)
Bachelor of Science in Computer Science degree - various Options (ECS)
Bachelor of Science in Industrial Engineering degree (EIE)
Bachelor of Science in Mechanical Engineering degree (EME)
Bachelor of Science in Engineering Science degree - various Options (EGU)
Bachelor of Science in Chemical Engineering degree (ECH)
Bachelor of Science in Criminal Engineering degree (ECE)
Bachelor of Science in Computer Engineering degree (ECP)
Bachelor of Science in Electrical Engineering degree (EEL)
Bachelor of Science in Engineering degree - various Options (EGU)
Bachelor of Science in Computer Science degree - various Options (ECS)
Bachelor of Science in Information Systems degree (EIS)
Bachelor of Science in Engineering degree - various Options (EGU)
Bachelor of Science in Computer Science degree - various Options (ECS)
Bachelor of Science in Information Systems degree (EIS)
Bachelor of Science in Engineering degree - various Options (EGU)
Bachelor of Science in Computer Science degree - various Options (ECS)
Bachelor of Science in Information Systems degree (EIS)
Bachelor of Science in Engineering degree - various Options (EGU)
Bachelor of Science in Computer Science degree - various Options (ECS)
Bachelor of Science in Information Systems degree (EIS)

Master of Science in Chemical Engineering degree (EEL)
Master of Science in Civil Engineering degree (EGP)
Master of Science in Engineering degree (EAP)
Master of Science in Engineering Management degree (EMC)
Master of Science in Industrial Engineering degree (EIE)
Master of Science in Mechanical Engineering degree (EME)
Master of Engineering degree (EGM)

Master of Science in Engineering Science degree (EGC)
Computer Science (ECS) and other options (EGC)

Doctor of Philosophy in Chemical Engineering degree (ECH)
Doctor of Philosophy in Civil Engineering degree (ECE)
Doctor of Philosophy in Electrical Engineering degree (EEL)
Doctor of Philosophy in Industrial Engineering degree (EIE)
Doctor of Philosophy in Mechanical Engineering degree (EME)
Doctor of Philosophy in Engineering Science degree (EGC)

Computer Service Courses

The above spectrum of program offerings provides the prospective student with a choice of avenues depending upon individual interests, career objective, 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 work. 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 marked for the attention of the following:

Area of Interest
Engineering Professional Specific department or
Programs, Engineering Office of the Dean
Science, Computer Director of Engineering
Information Systems Technology Department of Industrial
Engineering Technology and Management Systems

PROFESSIONAL ENGINEERING

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 Five-Year Program leading to a Master of Science in Engineering degree. Other students interested more in operational responsibilities may wish to terminate their initial engineering education at the baccalaureate level. 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.

The College of Engineering recognizes that modern engineering solutions draw on knowledge of several branches of engineering. It also recognizes that future technological and societal developments will lead to shifting of the relative emphasis on various branches of engineering, triggered by new needs or a reassessment of national goals. For this reason the college's program includes 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.

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 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 profession is involved in some form of post baccalaureate study. Engineers are earning advanced degrees to obtain the information and training necessary to meet effectively tomorrow's technological challenges. All are faced with the continuing problem of refurbishing and updating their information skills and most are obtaining advanced information by means of formal graduate study, seminars, special institutes and other such systems designed for this purpose.

The Bachelor of Science designated engineering field degree programs, which require 136 semester hours, and the five year program leading to a concurrent Master of Science degree in the same designated engineering field, which is an integrated program of 166 semester hours, are the programs specifically designed to prepare an individual for a pro-
100 COLLEGE OF ENGINEERING

Professional career as an engineer. These programs have as their foundation a 104 semester hour 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. Fields (Options) which are available and the administrative unit responsible for these are as follows:

<table>
<thead>
<tr>
<th>Field</th>
<th>Option</th>
<th>Departments</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Engineering</td>
<td>All Departments</td>
<td>Chemical and Mechanical Engineering</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td></td>
<td>Computer Science and Engineering</td>
</tr>
<tr>
<td>Computer Engineering</td>
<td></td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td></td>
<td>Industrial Management Systems Engineering</td>
</tr>
<tr>
<td>Industrial Engineering</td>
<td></td>
<td>Chemical and Mechanical Engineering</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td></td>
<td>Civil Engineering and Mechanics</td>
</tr>
<tr>
<td>Structures, Materials, and Fluids</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The Accreditation Board for Engineering and Technology, Inc. (ABET), formerly the Engineers' Council for Professional Development has accredited and approved the curricula of the College of Engineering defined by the Chemical Engineering, Electrical Engineering, Industrial Engineering, Mechanical Engineering, and Structures, Materials & Fluids options.

Preparation for Engineering

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

The high school student anticipating a career in engineering should select the strongest academic program that is available while in high school. Four years each of English, mathematics and science (preferably including Chemistry and Physics), as well as full programs in the social sciences and humanities, are most important to success in any engineering college. A foreign language, while not a necessity, provides a desirable background for students.

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 selects a summer program at the University of South Florida as a Pre-Engineering student in the Academic Services Division to update knowledge in mathematics and the physical sciences. Another alternative might be for the prospective Engineering student to take some remedial work and a less accelerated program as a Pre-Engineering student in the Academic Services Division of the University of South Florida. Students may wish to avail themselves of the state's system of Junior/community colleges which offer a wide range of remedial course work, and many of which also offer full programs in pre-engineering (first two years' course work). The University of South Florida offers all required pre-engineering courses every semester. Therefore, every student can start the program at that point where his/her education terminated, and can proceed from that point at a rate consistent with the student's capability and time availability.

Junior/community college students planning to transfer to the University of South Florida's engineering program at the junior level from a State of Florida operated college or university should follow a pre-engineering program leading to an A.A. degree. All transfer students should complete as much of the mathematics, science and engineering core course work as is available to them. Transfer students should be aware that the college expects them to meet its admission requirements listed on pages 100-101 and the college regulations listed on page 102 just as it expects its own students to meet these requirements. The University's College of Engineering is available to assist junior/community college students in the development of course material and in the training of staff for their offering of applicable core pre-engineering course work. 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.

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 of a sound total program. Interested students should contact the college's Advising Office furnishing sufficient details to permit meaningful response.

Admission to the College

Freshman and transfer students can apply to the College of Engineering's programs upon initial entry into the University by declaring the desired Bachelor degree program as their intended major. If not declared on initial entry, a USF student can at any time declare his/her intent to pursue a Bachelor's degree program in the college by applying to the Admission's Section of the Advising Office of the College.

To qualify for admission to a Bachelor's degree program in the College of Engineering a student must have been accepted by the University as a degree-seeking student, must be in good academic standing, and must be otherwise acceptable according to the policies of the college. Increasing enrollment demand (prompted by growing demand for engineers and scientists), combined with limited resources, have forced the college to limit enrollment to maintain the quality of its programs.

Limited enrollment is implemented by admitting students to programs from the College's Applicant Pool. Minimum academic performance criteria to enter the Applicant Pool are shown below. All comparable applicants to College of Engineering programs are subject to the same entrance requirements whether transferring from within USF or from another institution. Satisfactory applicants are assigned to the College's Applicant Pool from which successful candidates are chosen. Usually well qualified applicants may be immediately notified of their acceptance to the program of their choice.

Selection of students to fill programs is made by the College Admissions Committee using criteria such as educational objective, completion of appropriate prerequisite courses, performance in appropriate prerequisite courses, overall academic record, test data, personal record, recommendations, and other appropriate criteria. All selections are made in compliance with State University System admissions policies, the Statewide Articulation Agreement, and in order of qualification of the applicants.

To enter the Applicant Pool the following minimum academic performance criteria must be met:

I. All Bachelor of Science degree programs:

A. Freshmen:

1. Test Scores:
   - SAT - composite of 900 minimum and quantitative of 500 minimum.
   - ACT - composite of 20 minimum and mathematics of 20 minimum.

2. High School Mathematics: Grades of B or better. Must include sufficient algebra and trigonometry to enter Engineering Calculus.

B. Transfer Students (students entering from other schools as well as students transferring within USF):

1. Mathematics Preparation:
   a. Completed College Algebra and College Trigonometry with a grade of B or better.
   or b. Completed first term of applicable calculus with grade of B or better
   or c. Completed two terms of calculus with grade of C or better.

2. Grade Point Average:
   a. Freshmen and Sophomores: 2.4 minimum
   b. Juniors and Seniors: 2.2 minimum

II. Bachelor of Engineering Technology Program:

1. Mathematics Preparation:
   a. Completed College Algebra and first applicable calculus course with grade point average of 2.5, no grade below C.
   b. Completed applicable calculus sequence with grade point average of 2.0, no grade below C.

2. Grade Point Average:
   a. Freshman and Sophomores: 2.4 minimum
   b. Juniors and Seniors: 2.2 minimum

All students, undergraduate and graduate, whose native language is other than English, entering the College of Engineering must have taken, within the last year, the Test of English as a Foreign Language (TOEFL), and have the University's Admissions Office and to the College. A score of 550 or better is required.

Prospective students must comply with the following procedure
when applying to the College to enter the Applicant Pool:

1. Apply for admission to the University or be a degree-seeking student in the University.
2. Apply for admission to the College of Engineering by completing the College Application and sending it directly to the College of Engineering, Admissions Section. In addition:
   a. The desired semester of entrance and major must be specified.
   b. Freshmen and sophomores must request a copy of their high school transcript along with SAT and ACT test scores be sent to the College of Engineering, Admissions Section, in addition to records that must be sent to the University’s Admissions Office.
   c. Transfer students must request an official transcript from each previous college attended be sent to the College of Engineering, Admissions Section, in addition to transcripts that must be sent to the University’s Admissions Office.
   d. Students whose native language is other than English must request a copy of TOEFL scores be sent to the College of Engineering, in addition to scores that must be sent to the University’s Admissions Office.
3. Applications and necessary records must reach the College no later than dates indicated below:
   a. For Fall Semester 1982: June 4, 1982
   b. For Spring Semester 1983: October 15, 1982

Applicants who are not selected and who wish to remain in the Applicant Pool for a future semester must request in writing that the College update their application for the future term and must supply updated records.

Potential students should note that the critical course structure of the college’s programs makes it desirable to enter the college as soon as the interest in, and the potential ability for, engineering or related studies is recognized. The characteristics of an engineering or related program do not require an identification of the area of specialization at the time of entering the college. A student who is undecided on his/her area of specialization can declare the General Option of the Bachelor of Science in Engineering degree program at the time of entry and later transfer to his/her specific program. However, students need to make this decision no later than their junior year.

Engineering coursework identified as 3000 level or higher is considered professional level work and students enrolling for these courses must have been admitted to the college. Exceptions must receive prior permission from the Office of the Dean or the department chairman responsible for the coursework and must demonstrate that they meet the college’s entrance requirements as well as all prerequisites for the course involved.

Engineering Advising

Effective pursuit of engineering and engineering related studies requires careful attention to both the sequence and the type of courses taken. The engineering curriculum differs in key respects from the study plans of other majors—even in the freshman year. It is therefore important, and the college requires, that each student plan a curriculum with, and has it approved by, a faculty adviser in the College of Engineering.

Students accepted to the college from within the University must contact the College’s Coordinator of Engineering Advising in the Dean’s Office for a faculty adviser assignment. New students must attend the University’s Orientation program. They are assigned an engineering adviser during this program and receive advisement for their first semester at that time.

Students who have made a decision regarding the specific engineering field they plan to follow may be assigned a faculty adviser in the department corresponding to their interest. Students who have decided to follow a program of engineering studies but who are undecided on a specific program are advised in the Dean’s Office and are assigned to the General Option of the BSE program.

The student and adviser jointly work out a plan of study which meets both the student’s career objectives and the College of Engineering’s degree requirements. A student may change advisers with the concurrence of the new adviser and the Dean’s Office. The advisers maintain the College of Engineering’s 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.

Departments & Programs

The supervision of the academic programs for the college is the function of the five 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. See also page 109 for College Facilities.

Chemical and Mechanical Engineering

This department offers study pertinent to the analysis and design of machines and systems needed by our modern society, through courses dealing with the classical Mechanical and Chemical Engineering subjects of lubrication, vibration and fatigue analysis, machine design, thermodynamics, heat transfer, environmental control, transport phenomena and reactor dynamics. In addition, it provides instruction in other fields of increased importance to the engineers of the future. Some of these fields are computer simulation, instrumentation, automatic control, power utilization, acoustics, and nuclear processes and the design and evaluation of innovative systems for energy utilization and pollution control. This department administers the Chemical Engineering Option (program) and the Mechanical Engineering Option (program) of the Bachelor of Science in Engineering (B.S.E.) degree program, the Bachelor of Science in Chemical Engineering (B.S.Ch.E.), and the Bachelor of Science in Mechanical Engineering (B.S.M.E.) degree programs, and the Master of Science in Chemical Engineering (M.S.Ch.E) and the Master of Science in Mechanical Engineering (M.S.M.E.) programs. Evening graduate programs are available. As applicable, the department administers the M.S.E., M.E., M.S.E.S. and the Ph.D. in Chemical Engineering and in Mechanical Engineering programs.

Civil Engineering and Mechanics:

This department offers courses work and study pertinent to Civil Engineering, Engineering Mechanics, and Materials Science. Topics include structural analysis, design and optimization; metals, polymers, ceramics; solid and fluid mechanics, stress analysis, vibration, continuum mechanics, aerodynamics, gas dynamics wave propagation, numerical methods; water resources, waste treatment, environmental engineering, and coastal engineering. The department administers the Structures, Materials and Fluids option (program) of the Bachelor of Science in Engineering (B.S.E.) degree program, and offers several concentrations within this option. It also administers the Bachelor of Science in Civil Engineering (B.S.E.) and the Environmental Engineering Science option of the Bachelor of Science in Engineering Science (B.S.E.S.) degree programs and the Master of Science in Civil Engineering (M.S.C.E.) program, including a three year evening program. As applicable the department administers the M.S.E., M.E., M.S.E.S. and the Ph.D. in Civil Engineering programs.

Computer Science and Engineering

This department offers course work and study in all areas fundamental to Computer Engineering, Computer Science and Information Systems. Topics dealt with are software engineering, programming languages, computer algorithms, computer hardware engineering, computer networks and distributed computing, artificial intelligence, databases and theory of computation.

The department operates microprocessor laboratories equipped with modern micro-computers some of which form networks. The department also operates a graphics laboratory equipped with modern storage devices and a substantial number of graphics-oriented personal computers. A PRIME 750 medium-scale computer is used to support several software-related courses. The PRIME computer also functions as a node of a college-wide network of three computers. The department administers the Bachelor of Science in Computer Engineering, degree program as well as the Computer Science and Information Systems Option of the Bachelor of Science in Engineering Science degree program. In addition it administers the Master of Science in Computer Engineering degree program. Evening graduate programs are available. As applicable, the department administers the M.S.E., M.E., M.S.E.S., and the Ph.D. program.

Electrical Engineering

This department offers study in all areas fundamental to Electrical Engineering and the electrical sciences: circuit analysis and design, electronics, communications, electromagnetics, control, solid state, systems
analysis, digital circuit design, etc. Basic concepts are augmented with well-equipped laboratories in networks, electronic, automatic control, digital systems, electromechanics microwave techniques and communications. In addition, a small general-purpose computer facility, a microprocessor laboratory and a microelectronics fabrication laboratory are available to undergraduate and graduate students. The department administers the Electrical Engineering Option (program) of the Bachelor of Science in Engineering (B.S.E.E.) degree program, 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.) program which is also available to evening and off-campus students. As applicable, the department administers the M.S.E.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 control, inventory control, data processing systems design, statistics and operations research models. The modern Industrial Automation and Control Laboratory supports research and coursework in computer control, industrial control, computer-aided manufacturing, and application of robotics. The department administers the Industrial Engineering Option (program) of the Bachelor of Science in Engineering (B.S.E.E.) degree program, 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.) and the Master of Science in Engineering Management (M.S.E.M.) programs. Evening graduate programs are available. As applicable, the department administers the M.S.E., M.E., M.S.E.S. and the Ph.D. in Industrial Engineering programs. The department also instructs students in Computer Service courses offered by the University of South Florida.

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 course work which is required of all students. This course work is designed to give each student a thorough foundation of knowledge on which specialization studies and a professional career can be based. Emphasis is placed on four key elements: a solid foundation in science and mathematics, a basic understanding of all major engineering disciplines, familiarity with Social Science and Humanities—to develop the whole individual, and good communication skills.

This common foundation of 104 minimum semester hours breaks down as follows for most programs:

- Social Science and Humanities Core 31 credit hrs. min.
  (including communication skills)
- Mathematics and Science Core 35 credit hrs. min.
  Engineering core 38 credit hrs. min.
- 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. Social Science and Humanities Core Requirements (31 credit hours)

Prospective Engineering majors must take 6 hours of Freshman English (ENC 1102, 1135) in their first two semesters.

An additional 25 credit hours of course work is required in this core area, of which at least 17 hours must be selected from the current "Approved Social Science and Humanities Courses" list for Engineering and Engineering Science students. A minimum of 8 credit hours of this course work must be of 2000 level or higher. At least 6 credit hours must be taken in each of the Humanities/Fine Arts area and the Behavioral and Social Sciences area (to meet the University's General Distribution Requirements). It is recommended that the student pursue specific subject areas to some depth, since this develops areas of knowledge and interests which aid fuller development of the individual and later assist in relating a professional career to non-technical environments and situations.

It is desirable that at least 24 hours of this course work be taken in the first two years. Students are responsible for checking with their advisors to be sure that the specific courses they are taking meet the requirements of the Bachelor of Science in Engineering degree program.

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 course work satisfies the major portion—but not all—of the Social Sciences and Humanities Core requirements.

Credit by Examination can be obtained for some of this course work. CLEP General Examination credit, acceptable to the University's is accepted for the areas of English Composition, Humanities and Social Science. Credit for CLEP Subject Examinations and CEEB Advanced Placement Tests can be accepted when the subject covered is recognized to be equivalent to some of the "Approved Social Science and Humanities Courses" list. Questions in this area should be directed to the Coordinator of Engineering Advising in the College's Advising Office.

2. Mathematics and Science Core Requirements (35 credit hours)

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

In mathematics this course work consists of a Calculus for Engineers sequence (or a calculus sequence of equivalent level), differential equations, and 5 hours of other designated courses supportive of the student's selective field of specialization.

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

3. Engineering Core Requirements (38 credit hours minimum)

The prospective engineering major must take 38 credit hours of engineering core (foundation) course work drawn from the major disciplines. This course work is designed to equip the student with a sound technical foundation for his course work in his specialized courses and the eventual formation of professional judgment. This course work includes introductory studies in such areas as engineering analysis and computation, statistics, electrical engineering principles, thermodynamics, statics, dynamics, fluids, and properties of materials.

All but 6 credit hours of the engineering core are common to all areas of specialization (option) of the Bachelor of Science in Engineering and the Bachelor of Science in a Designated Engineering Field degree programs. The remaining 6 credit hours of course work 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.

FOUR-YEAR PROGRAM—
BACHELOR OF SCIENCE IN
ENGINEERING DEGREE (EGU)
AND BACHELOR OF SCIENCE
IN DESIGNATED ENGINEERING
FIELD DEGREE

These engineering degrees are awarded upon successful completion of a program consisting of the required three areas of core course work—minimum of 104 credit hours - which are described above, and an additional 32 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. General (32 credit hours)

All professional departments may offer the general option of the Bachelor of Science in Engineering degree which consists of 32 credit hours of course work individually arranged by the student with the approval of the student's adviser. This option is used where a student wishes to deviate from a prescribed disciplinary program utilizing course work from several different disciplines both within and without the College of Engineering.

Pre-medical students follow this option. It accommodates up to 32 hrs. of special pre-med course work (Biology, Organic Chemistry, etc.)
selected by student and adviser to meet normal admissions requirements of medical schools.

Pre-law students find this option permits a strong technical and legal undergraduate academic preparation.

2. Chemical Engineering (32 credit hours)

Students pursuing the Chemical Engineering Option of the Bachelor of Science in Engineering program or the Bachelor of Science in Chemical Engineering program take designated, specialized course work in advanced chemistry, thermodynamics, energy conversion, separation processes, transport phenomena, heat and mass transfer, reacting systems, process control systems, as well as approximately 10 credit hours of chemistry and technical electives. Students must also complete a design and/or case study as part of their program. Special characteristics of the Chemical Engineering program make it imperative that students retain constant close contact with their adviser.

Students completing this program normally pursue careers in chemical process industries, in public service (regulatory, planning and/or environmental), or in consulting or research. Products covered include paper and pulp, petroleum and petro-chemicals, polymers and fibers, synthetic, pharmaceuticals, foods, fertilizers, etc. Such modern societal problems as controlling pollution, handling wastes, advancing medical technology, providing food and energy more efficiencly, etc., depend on the chemical engineer, among others, for the solutions.

3. Computer Science and Engineering

The Bachelor of Science in Computer Science degree program emphasizes design and utilization of computers. The Computer Science Option of the Bachelor of Science in Engineering Science which deals with basic and formal aspects of computation and the Information Systems Option of the Bachelor of Science in Engineering Science with emphasizes application and data processing aspects of this field. (See the Bachelor of Science in Engineering Science degree program on page 107.) Courses range from studies in software engineering, programming languages, data structures, data base systems, operating systems, and systems analysis to the analysis of computer architecture and organization, logic design, automation theory, distributed computing, microprocessors and reliability considerations. Finally a number of specialized electives allows concentration on applications of computers to a variety of activities such as scientific computation, computer-aided design, business systems, biomedical research, and pattern recognition.

Graduates from these programs follow fruitful careers in either scientific or business application of computers. They are often involved in the systems level definition of information processing complexes for both manufacturing, of computers and for users. A wide and expanding variety of design and applications opportunities characterize this field. This is the reason for requiring a broad foundation in applied mathematics and the physical sciences, and also to develop communications abilities and clear perceptions in the social sciences and the humanities. Research and development opportunities as a computer scientist, often following graduate training, are present in the areas of artificial intelligence, software engineering, digital data communications, database management, fault-tolerant computing and testing, microprogramming and simulation.

4. Electrical Engineering (32 credit hours)

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

Students completing this option normally pursue industrial careers in the power, electrical, electronic, or information industries or in related governmental laboratories and public service agencies. The electrical graduate may apply this/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, electrical power systems, transportation, etc. The graduate may do this by performing needed engineering functions related to the research and development (often requires also an advanced degree), design, production, operation, sales, or management of these products/services.

5. Industrial Engineering (32 credit hours)

Students pursuing the Industrial Engineering Option of the Bachelor of Science in Engineering program or the Bachelor of Science in Industrial Engineering program take designated, specialized course work in industrial processes and production control; engineering valuation; network modeling, computer simulation and systems analysis; operations research; design of experiments and engineering statistics. This course work is supplemented by courses in production and facilities design; computer languages, systems, and projects, and quality control.

Students completing this option enter careers in a broad range of industries, businesses and governmental and public service areas. Their preparation covers activities common to all types of organizations; planning, analysis, implementation, and evaluation. In addition to traditional career opportunities in production and process areas of high-volume industries, the industrial graduate nowadays finds challenging careers in hospitals, transportation and service industries, and in municipal, county, state and federal administration.

6. Mechanical Engineering (32 credit hours)

Students pursuing the Mechanical Engineering Option of the Bachelor of Science in Engineering program or the Bachelor of Science in Mechanical Engineering program take designated, specialized course work in thermodynamics and designated, specialized course work in thermodynamics and heat transfer; physical measurements and energy conversion; machine analysis and design; mechanical design and controls; and fluid machinery. This is supplemented by elective coursework in such areas as power plant analysis, nuclear and reactor engineering; refrigeration and air conditioning; acoustics; lubrication; and vibration and balancing.

Students completing this option normally enter careers as design, consulting, research and development, or sales engineers in a wide range of industries which either turn out mechanical products or rely on mechanical machines, devices, and systems for their production. Thus, mechanical graduates may follow careers in such fields as transportation, power generation and instrumentation, automatic control, machine design and construction, refrigeration, heating, and air conditioning. These opportunities occur in many industries because mechanical processes are required for most industrial production.

7. Structures, Materials and Fluids (32 credit hours) (Department of Civil Engineering and Mechanics)

Students pursuing the Structures, Materials and Fluids Option of the Bachelor of Science in Engineering program or the Bachelor of Science in Civil Engineering program take designated traditional civil engineering and engineering mechanics course work in solid mechanics, stress analysis, structures, materials, hydraulics, water resources, and engineering analysis. This course work is supplemented, by courses in one of the following areas of concentration, plus electives.

- b. Structural Engineering concentration—courses in structural analysis design, composite structures, connecting matrix and computer techniques.
- c. Water Resources concentration—courses in water resources, hydrology, and urban water systems.

Students completing this option enter careers as engineers in the civil, structural, sanitary, environmental, hydraulics, materials, engineering mechanics, aeronautical, etc., 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 his academic studies specifically towards his/her career choice. Structures, Materials and Fluids (Civil Engineering) students commence their engineering careers in either industry, with 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 and solid wastes, of water resources; research and development of new materials, material processes and testing procedures; design of bridges, single and multistory structures; supervision of construction projects.
8. Other Options (32 credit hours)

Students should recognize that the title of an academic program to prepare for a specific engineering career may differ from the career title. The USF Bachelor of Science in Engineering degree option titles or the Bachelor of Science in a Designated Engineering Field degree titles are descriptive of the academic discipline the specialization studies draw on. The field of product or engineering application frequently is used in describing engineering career titles. The following table may help prospective students to identify desired USF programs.

<table>
<thead>
<tr>
<th>Engineering Career</th>
<th>USF Field/Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerospace</td>
<td>Electrical Engineering, Mechanical Engineering or Structures, Materials and Fluids</td>
</tr>
<tr>
<td>Biomedical</td>
<td>Usually Electrical Engineering (should plan on graduate studies.)</td>
</tr>
<tr>
<td>Civil</td>
<td>Structures, Materials, and Fluids</td>
</tr>
<tr>
<td>Energy</td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>Engineering Mechanics</td>
<td>Structures, Materials, and Fluids</td>
</tr>
<tr>
<td>Environmental</td>
<td>Structures, Materials, and Fluids</td>
</tr>
<tr>
<td>Petroleum</td>
<td>Chemical Engineering</td>
</tr>
<tr>
<td>Solar Energy</td>
<td>Mechanical Engineering</td>
</tr>
</tbody>
</table>

FIVE-YEAR-PROGRAM—MASTER OF SCIENCE IN ENGINEERING DEGREE (EGG)

This program consists of a minimum of 104 credit hours of core course material plus 62 hours of specialization including a maximum of 12 hours of research or design project. Students are admitted to this program early in the beginning of their fourth year of study based on an evaluation by the faculty of their department. Unlike the traditional master's degree which is attempted as a fifth year after completion of the baccalaureate degree in this program both the fourth and fifth years are open to graduate level course work so that additional calendar time is available for design or research projects.

The program leads concurrently to both the Master of Science in Engineering degree and the Bachelor of Science in Engineering degree (or alternately the Master of Science and the Bachelor of Science in a Designated Engineering Field degrees) with the specialization phase of the program being individually arranged and involving course work, design, research and/or operational experience. Should the student be unable to complete the full five years, the baccalaureate can be awarded provided the requirements for that degree have been met. Either an engineering report or a research thesis is required. See later section relative to master's program for additional information.

College Regulations

1. Humanities and Social Science Requirements

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

Florida community college transfer students who have completed their General Education Requirements will not have to meet USF's General Distribution requirements. However, as is the case with USF students who have to take more than the minimum Distribution Requirements coursework in this area, the community college transfer student must expect to take some additional carefully selected upper level coursework in this area to meet the education standards for professional engineering programs in the Social Science and Humanities area.

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 Requirements 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 course work 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 Office of the Dean.

4. Continuation Requirements

All undergraduate students registered in the College of Engineering are expected to maintain the minimum of 2.0 average ("C" average) for all work attempted while registered in the college, as well as a minimum 2.0 average for all Engineering course work attempted of 3000 level or above, or the more stringent requirements of specific limited access programs, where applicable. Students who do not maintain this requirement will be declared ineligible for further registration for course work and degree programs in the college unless individually designed continuation programs are recommended and have been prepared by the student’s adviser and approved by the academic committee of the college.

Key courses, including but not limited to, Freshman English, Calculus, Physics, and Engineering and Science courses in the student's area of specialization, must be passed with a grade of "C" or better before taking the next course in the sequence.

Transfer credit will be accepted by USF's College of Engineering if the transferred course has been passed with a satisfactory ("C") grade or better and when the first USF course following in sequence is also passed with a "C" grade or better.

Students pursuing College of Engineering degree programs are expected to take their courses on a graded (ABCD) scale. (Exceptions are required courses not available on a graded basis.) Students receiving "I" grades must remove this deficiency at the first opportunity in accordance with a written agreement between student and instructor.

Continuation in the program after 3 withdrawals and/or failures in a specific engineering course of 3000 level of higher, requires specific approval from the college.

5. Requirements for Graduation

In addition to the completion of the course work and/or project requirements of the respective program of the college, students must be recommended for their degrees by the faculty of the college. It is expected that students completing their master's program would have completed their advanced work with a minimum average of 3.0 or "B". Students attempting but not completing their master's requirements through the five-year Masters degree program may elect to request the awarding of the bachelor's degree, provided they have met that degree's requirements.

The college requires that a student complete the Mathematics and Science Core, Engineering Core, and specialization requirements for the baccalaureate degree in four years. Deviations require specific prior permission from the Dean of the college.

In addition to the college requirements listed above, degree candidates are expected to meet applicable special departmental requirements.

Engineering Master's Degree Programs

The College of Engineering offers four professionally oriented programs leading to a degree at the master's level. These are the post-baccalaureate Master of Science in Engineering degree program, the Master of Science
in a Designated Engineering Field degree program, Master of Engineering degree program, and the Five-Year Master of Science in Engineering degree program. Each professional department may elect to award one of these degrees depending upon prior arrangements with the student. Admission to the Master's program is dependent upon a favorable evaluation by the department concerned. Applicants are expected to meet the minimum requirements of the University and those outlined below and in addition any special requirements specified by the departments.

**POST-BACCALAUREATE MASTER OF SCIENCE IN ENGINEERING DEGREE (EGP) (Undesignated)**

The graduate program of the college is designed for those students wishing advanced study which is research or design oriented and not restricted to a single engineering discipline.

**Entrance Requirements**

1. A baccalaureate degree in Engineering from an approved institution is required. Degrees in Mathematics, Physics, Chemistry and other fields may be accepted on an individual basis to meet this requirement. In such cases it is probable that supplemental remedial work in engineering will be necessary.
2. A minimum total score of 1000 on the verbal and quantitative portions of the Graduate Record Examination and/or a minimum grade point average of 3.0 out of a possible 4.0 for all work attempted during the last two years of undergraduate work is required.
3. Those who do not meet the regular entrance requirements may attempt a trial program as a Special (non-degree seeking) Student. Up to 12 hours of work attempted on this basis may be accepted into a graduate program upon satisfactory completion. Before attempting such a trial program the student should determine from the departmental adviser a list of courses and performance criteria for admission.

**Program Requirements**

1. A minimum of 30 credits of approved course work is required.
2. An overall grade point average of 3.0 is required for all work attempted in the program. No grade below "C" may be accepted in a graduate program. In the event that a student's average drops below 3.0 the student will be placed on a probationary status and must obtain a directed program from his/her adviser approved by the Dean, prior to continuing course work toward the degree.
3. All students are required to pass a final comprehensive examination which may be written or oral prior to awarding the degree. These examinations are arranged and administered by the student's graduate committee.
4. Students in this program must complete a design or research project on which up to 6 credits may be used to fulfill degree requirements. The course titled "Masters Thesis" in the student's department is to be used.
5. If a thesis is submitted it must be in accordance with the Handbook for Graduate Thesis and Dissertations, University Graduate Council. For design projects a comprehensive report must be filed with the Office of the Dean of Engineering following, where practical, the guidelines of the handbook.

Students working on design and research projects must register for a minimum of 2 credits of the course titled "Masters Thesis" in the student's department each semester the staff, facilities, and laboratories of the University are used whether or not the student has accumulated the maximum credit allowed for research or design toward the degree. All students must register for 2 credits of the course titled "Masters Thesis" in the student's department during the semester in which they submit their thesis or project report.

**POST-BACCALAUREATE MASTER OF SCIENCE IN A DESIGNATED ENGINEERING FIELD DEGREE**

This graduate program of the College is designed for students wishing advanced study in a specific field of engineering. The following designated programs are offered by the departments listed:

<table>
<thead>
<tr>
<th>Program</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Science in Chemical Engineering</td>
<td>Chemical &amp; Mechanical</td>
</tr>
<tr>
<td>Master of Science in Civil Engineering</td>
<td>Engineering</td>
</tr>
<tr>
<td>Master of Science in Computer Science</td>
<td>Civil Engineering &amp;</td>
</tr>
<tr>
<td>Master of Science in Electrical Engineering</td>
<td>Mechanics</td>
</tr>
<tr>
<td>Master of Science in Engineering Management</td>
<td>Computer Science &amp;</td>
</tr>
<tr>
<td>Master of Science in Industrial Engineering</td>
<td>Engineering</td>
</tr>
<tr>
<td>Master of Science in Mechanical Engineering</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td></td>
<td>Industrial &amp; Management</td>
</tr>
<tr>
<td></td>
<td>Systems Engineering</td>
</tr>
<tr>
<td></td>
<td>Chemical &amp; Mechanical</td>
</tr>
</tbody>
</table>

**Entrance Requirements**

A bachelors degree in an ABET accredited engineering program in the field of projected graduate study is expected, where applicable. All other entrance requirements for this program are the same as those for the Post-Baccalaureate Master of Science in Engineering undesignated degree program.

**Program Requirements**

1. A minimum of 30 credits of approved course work is required.
2. An overall grade point average of 3.0 is required for all work attempted in the program. No grade below "C" may be accepted in a graduate program. In the event that a student's average drops below 3.0 the student will be placed on a probationary status and must obtain a directed program from his/her adviser approved by the Dean, prior to continuing course work toward the degree.
3. All students are required to pass a final comprehensive examination which may be written or oral prior to awarding the degree. These examinations are arranged and administered by the student's graduate committee.
4. Students in this program may have to complete a design or research project when invoked by the department on which up to 6 credits may be used to fulfill degree requirements. The course titled "Masters Thesis" in the student's department is to be used.
5. If a thesis is submitted it must be in accordance with the Handbook for Graduate Thesis and Dissertations, University Graduate Council. For design projects a comprehensive report must be filed with the Office of the Dean of Engineering following, where practical, the guidelines of the handbook.

Students working on design and research projects must register for a minimum of 2 credits of the course titled "Masters Thesis" in the student's department each semester the staff, facilities, and laboratories of the University are used whether or not the student has accumulated the maximum credit allowed for research or design toward the degree. All students must register for 2 credits of the course titled "Masters Thesis" in the student's department during the semester in which they submit their thesis or project report.

**MASTER OF ENGINEERING DEGREE PROGRAM (EGM)**

This non-thesis degree program is designed primarily to meet the needs of engineers actively engaged in the profession who wish to pursue graduate study at the master's level not covered by the designated Master of Science in Engineering degree programs.

**Entrance Requirements**

Entrance requirements for this program are the same as those for the post-baccalaureate Master of Science in Engineering degree program (undesignated).

**Program Requirements**

1. A minimum of 30 credits of approved course work is required.
2. Students must maintain overall grade point average of 3.0 out of possible 4.0. No grade below "C" will be accepted in a graduate program. In the event that a student's average falls below 3.0 the
student will be placed on probationary status and must obtain a directed program from his/her adviser and approved by the Dean prior to continuing further course work toward the degree.
3. All students are required to pass a final comprehensive examination which may be written or oral prior to awarding the degree. These examinations are arranged and administered by the student's department.
4. Students in this program must register for and take a comprehensive examination during the semester in which they apply for the degree. This credit may not be used as part of the course work requirement. Contact department for details.

THE ENGINEERING FIVE-YEAR MASTER'S DEGREE PROGRAM (EGG)

This program consists of a minimum of 166 credits of course work and results in concurrent awards of the Bachelor of Science and Master of Science in Engineering degrees, or Bachelor of Science and Master of Science in a Designated Engineering Field degrees. Unlike traditional master's programs following the baccalaureate degree, in this program both the fourth and fifth years are open to graduate level study so that additional calendar time is available for research or design projects.

Entrance Requirements
1. Students who have senior standing (90 credits) with at least 16 upper level engineering credits completed at the University of South Florida in their engineering curriculum may apply for admission to the Five-Year Program.
2. A minimum total score of 1000 on the verbal and quantitative portions of the Graduate Record Examination is expected.
3. Above-average performance in the engineering program is expected.

Program Requirements
1. A minimum of 166 credits of approved course work must be compiled. Of this total, 104 credits must comprise the engineering central core with an additional 62 credits of specialization. A maximum of 12 credits may be allowed for design and research.
2. Students admitted to the five-year program are expected to maintain a superior level of academic performance. A 3.0 out of a possible 4.0 grade point average is expected. The the student's graduate program. A student in the Five-Year Program who fails to maintain the required academic standards will be placed on probation. Failure to comply with the terms of the probation will result in the student being dropped from the program.
3. Students in this program must complete a design or research project of which up to 6 credits of 4000 level project course work of appropriate departmental prefix and up to 6 credits of the course titled "Masters Thesis" in the student's department may be used to fulfill degree requirements.
4. If a thesis is submitted it must be in accordance with the Handbook for Graduate Theses and Dissertations, University Graduate Council. For design projects a comprehensive report must be filed with the Office of the Dean of Engineering, following where practical the guidelines of the handbook.
5. All students are required to pass a final comprehensive examination which may be written or oral prior to awarding the degree. These examinations are arranged and administered by the student's graduate committee.

DOCTOR OF PHILOSOPHY DEGREE IN DESIGNATED ENGINEERING FIELD

The Doctor of Philosophy degree is awarded in recognition of demonstrated proficiency and high achievement. It is altogether a different type of educational endeavor than that of the Baccalaureate or even Master's programs. The Ph.D. degree cannot be gained merely by diligent application to a prescribed course of study over a period of years, nor can it be awarded for miscellaneous study. After adequate fundamental preparation the student must complete a searching and authoritative investigation of a special area of the field of his/her choice, culminating a written dissertation covering that investigation. The dissertation must demonstrate that the student possesses considerable power of original thought, talent for research and ability to organize and present his findings.

Entrance Requirements
1. An undergraduate degree in engineering or the sciences with a minimum GPA of 3.0 in junior-senior work in the major area of concentration.
2. A minimum GRE score of 1000 (verbal and quantitative).
3. Applicants who do not hold a bachelor's degree from an ABET (formerly ECPD) accredited program may be required to show proficiency in areas of the undergraduate Engineering Sciences designated by the department or departments associated with the applicant's research area. An area of concentration is defined as a coherent group of engineering studies but not necessarily located within a single department.

Program Requirements
1. An adviser or an Advisory Committee will be appointed by the chairman of the appropriate department or program for each student during the first semester of registration at the University of South Florida. This adviser or committee will assist in determining the student's area of research interest and to initially delineate preliminary course work assignments. At the earliest possible date a Supervisory Committee is appointed which will serve as the Dissertations Committee. It prepares the student's program and has full responsibility for preparing (or having prepared under its supervision) the individual's qualifying examination. The Supervisory Committee consists of a minimum of five members, one external to the College of Engineering. A majority of the committee will be from the College of Engineering with at least two departments represented from the college.
2. A total of 90 semester hours minimum beyond the baccalaureate degree (including dissertation research) is required with a minimum of 27 hours in an engineering area of concentration. The 27 hours may not necessarily be course work of the same department but must focus directly upon the area of concentration and at least 18 hours must be at the 6000 level. A minimum of 8 hours of mathematics or statistics is required. Engineering mathematics may be approved by the committee if appropriate. In addition, a minimum of 8 hours of course work as defined by the committee outside the major area of concentration is also required. This may include natural sciences, earth sciences, social sciences, additional statistics, or approved support in other areas of engineering. Further requirements may be imposed by the candidate's committee. At least 8 hours of course work must be taken outside the major department, if there is a major department.
3. A reading knowledge of two foreign languages. Competence in a computer language or other special work done outside the student's field of concentration may be substituted for one of these when recommended by the student's Dissertation Committee and approved by the Dean of the college.
4. All prospective candidates must pass both parts of a Ph.D. qualifying examination, a general area of mathematics and a prescribed area of Engineering Science concentration. This examination must be taken after the student has completed appropriate studies usually equivalent to one year's course work. Students entering with a Master's degree must take this examination before the end of the first year after admission to the program.
5. A written and oral Comprehensive Qualifying Examination prepared and administered by the Dissertation Committee will be taken by each Ph.D. student as soon as a substantial majority of the coursework is completed. Completion of this requirement admits the student to candidacy.
6. The defense of the dissertation will be in accordance with the University's general rules and regulations.
7. A minimum residency requirement may be satisfied by completing at the University of South Florida beyond the master's degree or equivalent the following: (1) the University's minimum require-
Degree programs in Engineering Science are offered by the College of Engineering Science which are designed for students who wish to obtain a strong technical background coupled with other interests. Engineering Science is an applied science discipline which relates to new and more relevant approaches and endeavors at the frontiers of technological development and research. It represents a marriage between basic science and its utilization in such varied fields as computer science, biology, social and environmental sciences, applied mathematics, bio-medical engineering, ocean engineering, and energetics. The common denominators to this wide range of subjects is a strong foundation in rigorous scientific and engineering principles and practices. This training provides a most desirable background for graduate study in the areas of concentration mentioned and in other professional areas such as law, medicine, and business.

Preparation for Engineering Science

Students anticipating pursuit of studies in Engineering Science should follow the guidelines given for Engineering in this catalog when planning their high school and/or community college studies.

Admission to Engineering Science

Admissions requirements and procedures are the same as for Engineering. See Admission To College, pages 100-101.

Engineering Science Advising

Students pursuing a course of study in Engineering Science are assigned to an adviser who is familiar with the requirements of this program and whose special interests match the student's specialization objectives. Comments and requirements spelled out in the section of Engineering Advising in this catalog are applicable to this program.

FOUR-YEAR PROGRAM—BACHELOR OF SCIENCE IN ENGINEERING SCIENCE DEGREE (EGC)

The College of Engineering offers a curriculum leading to the Bachelor of Science in Engineering Science degree which stresses the scientific aspects of engineering. The curriculum is a four-year program with a minimum requirement of 120 semester hours, and it provides the student with an unusual depth of study in mathematics, science, and engineering without limiting the opportunities to broaden one's education in humanities and social sciences. The exact composition of the curriculum followed by a given student is determined by the student with the advice and consent of the academic adviser, and based on the option chosen.

The Computer Science and Engineering department offers the information systems option which emphasizes application and data processing aspects of this field. Unlike other BSES options, the degree requirement for this option is 136 semester hours.

APPLIED SCIENCE (ENGINEERING)

For more information see Computer Science and Engineering, page 101.

An option in Applied Mathematics covers applied analytical techniques to establish a more fundamental understanding of basic physical phenomena leading to engineering applications. Areas of mathematics considered from an applied viewpoint include modern algebra, theory of algorithms, classical advanced calculus, complex variables, probability and statistics, numerical procedures, approximation theory, operations research, and applied mathematical programming. The use of computers is emphasized. This program provides the student with an opportunity that is not available in either a pure mathematics curriculum or in a design-oriented engineering program.

The Civil Engineering and Mechanics department offers an option in Environmental Engineering Science designed for students who desire to develop the broad interdisciplinary background necessary for careers in environmental protection with industry and government. Training is provided in the sociological sciences of politics, government, and social science; the communication arts (speaking and writing); and the scientific and technological aspects of air, water, and noise pollution.

Other options are designed for such areas as Ocean and Energetics.

Baccalaureate Requirements (minimum 120 credit hours)

The Bachelor of Science in Engineering Science degree program requires a strong foundation in mathematics and science, foundation course work in the humanities, social sciences, and other non-technical areas, a basic knowledge of engineering fundamentals, and culminates in approximately one year of specialized—often interdisciplinary—studies. These basic requirements are further listed below.

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

(There are some variations from these numbers in defined options, for example the options offered by the Computer Science and Engineering department.)

Other Requirements for Engineering Science

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

FIVE-YEAR PROGRAM—MASTER OF SCIENCE IN ENGINEERING SCIENCE DEGREE (EGF)

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
Science and Master of Science in 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 for the combined degrees do not differ from those for the two degrees pursued separately.

Students apply for admission to this program through their adviser, who should be consulted when additional information is needed. General requirements include:
1. Senior standing (90 credits) with at least 16 upper level engineering credits completed at the University of South Florida in the engineering science curriculum.
2. A minimum score of 1000 on the verbal and quantitative portions of the Graduate Record Examination is expected.
3. Above-average performance in the engineering science program is expected.

Students following the Computer Science option can obtain through this program a deeper specialization required of those engaged in advanced research and development.

**POST-BACCALAUREATE—MASTER OF SCIENCE IN ENGINEERING SCIENCE DEGREE (EGC)**

The admission and program requirements (minimum 30 credit hours)

**ENGINEERING TECHNOLOGY**

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

**BACHELOR OF ENGINEERING TECHNOLOGY (ETK)**

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

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

<table>
<thead>
<tr>
<th>Course Work</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Technology</td>
<td>53</td>
</tr>
<tr>
<td>Management &amp; related studies</td>
<td>20</td>
</tr>
<tr>
<td>Liberal Arts, Social Science and Electives</td>
<td>32</td>
</tr>
<tr>
<td>Mathematics and Science</td>
<td>15</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>120</strong></td>
</tr>
</tbody>
</table>

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

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

- Computer Systems Technology
- Management Engineering Technology

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

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

**Admission**

In general, students are expected to have successfully completed an Associate of Science degree in Engineering Technology at a community college or to have accomplished equivalent work. The student must have completed a minimum of mathematics through applied integral calculus, a non-calculus physics sequence, and at least 6 semester hours of Freshman English. Limited resources in the presence of increasing enrollment demand have forced limiting enrollment into this program. The College's admissions requirements and procedures are listed on page 100. Students who meet all admission requirements are required to complete a minimum of 60 additional semester hours to receive the Bachelor of Engineering Technology degree.

Students who are currently following a program other than that of an Associate of Science degree in Engineering Technology at a community college and who are interested in pursuing studies in this field should contact the College of Engineering for further guidance.

Further information is available from:
- Director of Engineering Technology
- USF St. Petersburg Campus
- 830 First Street, South
- St. Petersburg, Florida 33701
- or
- Director of Engineering Technology
- College of Engineering
- University of South Florida
- Tampa, Florida 33620
Other Requirements

The following supplemental requirements listed on page 102 are applicable to this program.

**English Requirement**

Mathematics Requirement

Continuation Requirement

Note: key courses, including but not limited to, Freshman English, Calculus, Physics, Engineering, and Science courses in the student’s area of specialization, must be passed with a grade of "C" or better before taking the next course in the sequence.

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

**Location**

The course work for this program is offered on both the Tampa campus and the St. Petersburg campus. On occasion, it may be necessary for a student at the St. Petersburg campus to go to the Tampa campus for a specific course, or vice versa. It should be noted that the St. Petersburg campus does not have dormitory facilities and students must arrange to live off campus. The Center Administrator of the St. Petersburg campus will assist where possible in locating housing.

**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 course work, undergraduate and graduate, to serve students of all colleges in order that they may be prepared to meet the computer challenge. These courses do not require a mathematics preparation beyond high school level.

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/1, COBOL, PASCAL and BASIC.

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

**College Facilities**

Students have access to the University's IBM 3033 system and the College’s extensive Prime 750 ring network computer system in support of their course work. In addition, the College has a wide range of specialized equipment, such as a thin-film and hybrid circuits facility, a high-current test facility, a gas chromatograph/mass spectrometer, specialized computers and computer laboratories such as a DEC PDP 11/44 database and a color computer graphics laboratory, a differential thermal analyzer, a vacuum dry box, and X-ray diffraction unit, estuary current meters, water-quality-analysis test equipment, flow visualization equipment, a 250 kip materials testing system, a computer-aided manufacturing system, and industrial robot, and a well-equipped and staffed machine shop.

**Cooperative Education Program**

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

**Florida Engineering and Industrial Experiment Station (USF)**

The Florida Engineering and Industrial Experiment Station developed from early research activities of the engineering faculty at the University of Florida and was officially established in 1941 by the Legislature. Its mandate is to "organize and promote the prosecution of research to such of these problems as are important to the industries of Florida." In 1977 the University of Florida extended the provisions of the Engineering and Industrial Experiment Station to the Engineering College of the University of South Florida and the other two state engineering colleges. The legislature supported this extension with an appropriation: The four colleges of engineering now work together in a joint effort through EIES to assist industry with special problems that can be appropriately solved by engineering colleges. During the year 1980-81 a sponsored research volume of approximately 1.5 million dollars passed through EIES (USF). All departments, faculty as well as students, contribute to this research at the University of South Florida. 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.

**Florida—NASA State Technology Applications Center (STAC)**

The State University System, the National Aeronautics & Space Administration and certain cooperating colleges of engineering of Florida, including the University of South Florida, have jointly developed the State Technology Applications Center.

STAC offers rapid access to more than 10 million modern published articles related to almost every field of human endeavor and thus provides information to help solve vexing problems at significant savings in man hours and money. This service is a bright new resource for Florida business and industry. Just a short decade ago this concept would not have been feasible. Through perseverance the computer minded community developed a remarkable system of "key wording" information which is stored in the memories of computers. Using these "key words", the computer locates pertinent and required publications, at times far removed from the subject matter in question—titles that may be passed over in the usual library investigation. STAC charges a minimal fee for its search since its operation is partially supported through NASA and State funds. The STAC Office at the College of Engineering, Room 304, Engineering Building, University of South Florida, Tampa, FL 33620, tel. 813/974-2499, serves the south central area of Florida.
The College of Fine Arts serves the three-fold purpose of providing programs of study, theatres of practice, and programs of events for the University family, the surrounding community, and the citizens of the State of Florida. 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.

Its prime objectives are: (1) to provide a broad but thorough education dedicated to the development of professional excellence in those who are highly talented in the fine arts, (2) to foster this feeling and commitment to aesthetic excellence in those preparing for teaching, and (3) to provide curricular studies and extracurricular activities designed to enrich the life of the general University student and contribute to the overall human environment of the University and Tampa Bay communities.

The College offers degree programs in the departments of Art, Dance, Music, and Theatre, and conducts a program of cultural events.

Programs in art education and music education are offered jointly by the College of Fine Arts and College of Education. Studio and history courses in art; literature, music theory and studio courses in music for these programs are offered by the College of Fine Arts (see programs under the College of Education).

Fine Arts Events Program

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

Through the Artist Series, The Chamber Music Series, the Performing Arts Residency program, and the Film Art Series, the college continually strives to enrich its academic program and the cultural environment by bringing to the campus and into the community artists of the highest stature in dance, music, and theatre from around the world. The list of prestigious artists which have been presented over the years by the College of Fine Arts is impressive and a sampling includes John Cage, the Guarneri String Quartet, Lazar Berman, the New York Pro-Musica, Alvin Alley, Martha Graham, Marcel Marceau, and the Polish Mime Ballet Theatre. (More extensive lists of visiting artists and performing organizations appear in this catalog under the sections of the specific academic units in the college in which research, demonstration, teaching, and other educational activities have directly benefited students.)

Fine Arts Events is the designation given to the arts management unit of the college. With a faculty whose professional and academic credentials are of the highest quality, Fine Arts events provides the expertise needed to develop and administer these programs. The unit also functions as the technical service wing of the college's departmental performing arts programs and serves as a teaching resource for the academic programs in the college. Through the Theatre Department curriculum, the courses in arts management and various courses in the design/technology track are taught by members of the Fine Arts Events faculty.

The impact of the Fine Events program on the cultural life of the University and the community is immeasurable, affording the fine arts student numerous opportunities to become aware of the unlimited options he or she might wish to pursue, and providing for the whole community cultural enrichment opportunities that otherwise would not be available.

Baccalaureate Level Degree Programs

Programs Leading to the Baccalaureate Degree

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

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 initial entry into the University. At that time, the new freshman should file a Declaration of Major or Change of Curriculum Code form indicating the choice of degree program within the College of Fine Arts. However, any continuing student in the University in good standing, upon acceptance by the department, can apply to change from another major to a major in the College of Fine Arts. The student desiring to make this change must initiate a Change of Major form in the college of the present major and transfer his/her current academic records to the College of Fine Arts' advising office.

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

Advising in the College

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

Degree-seeking graduate students accepted into the M.F.A. program in art or into the M.M. program in music will be counseled on program requirements and in their selection of courses by the appropriate Graduate Adviser.

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 two undergraduate degrees, the Bachelor of Arts (B.A.), attainable in the Departments of Art, Dance, Music and Theatre, and the Bachelor of Fine Arts (B.F.A.) in Theatre. The University requirements are presented on page 34 of this Catalog, but are briefly summarized here along with the college and departmental requirements:

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

2. General Distribution Requirements may be satisfied by (1) completing the University's General Distribution Requirements as explained on page 34 of this catalog. (2) completing the A.A. degree from 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 programs), or a requirement for graduation from the University.

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

4. A maximum of 9 credit hours of ROTC credit (MIS prefix) taken at USF may be counted as general elective credit toward the B.A. or B.F.A. degree with a major in the College of Fine Arts.

5. With departmental approval, a maximum of 4 credit hours of elective Physical Education credits taken at USF may be counted as general elective credit toward the B.A. or B.F.A. degree in the College of Fine Arts.

6. Department Requirements: Art Requirements: Completion of a minimum of 46 hours in the major, 19 credit hours of Free Electives (of which 16 credit hours in art may apply), and 9 credit hours of non-major credits which may be distributed at the discretion of the Art Department. Dance Requirements: Completion of a minimum of 42 credit hours in the major, 23 credit hours of Free Electives (of which 19 hours in dance may apply), and 9 hours of non-major credits which may be distributed at the discretion of the Dance Department. Music Requirements: Completion of a minimum of 64 hours in the major and 10 hours of non-major electives of which 5 hours may be distributed at the discretion of the Music Department. Theatre Requirements: For the B.A., the completion of a minimum of 51-52 credit hours in the major with 23 credit hours of Free Electives of which a maximum of 10 credit hours may be in theatre. For the B.F.A., the completion of a minimum of 75 credit hours in the major with 30 credit hours of Free Electives of which a maximum of 10 credit hours may be in theatre.

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

Waiver of credit of up to 12 credit hours in the major or Fine Arts College requirements is possible by demonstration of competence. Review is by faculty committee. Specific questions concerning program requirements for the B.A. 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 Requirements: Courses in the College of Fine Arts in the departments of Art, Dance, Music and Theatre fall within Area II of the University's General Distribution Requirements. (See page 34 of the University Catalog for a complete description of 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 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.

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 the respective department chairperson, or art or music education coordinator.
3. The department may recommend probationary status (rather than disenrollment) for one semester when academic progress is not maintained.

Contracts and Permission Procedures

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

S/U Grade Contracts: The College of Fine Arts requires that any S/U grading agreement entered into between student and instructor be formalized by a contract in quadruplicate signed by the student and the instructor and distributed according to instructions. "I" Grade Contracts: Instructors must be contracted for by mutual agreement between student and instructor, with the contract descriibing specifically the amount and nature of the work to be completed for the removal of the incomplete grade. This contract additionally clearly specifies the date that the work will be due (within legal limits) for grading. Both the student and the instructor must sign this contract and the distribution of the four copies according to instructions. A student must not register for a course again to remove an "I" grade. Please see page 31 for more details concerning the University's "I" grade policy.

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

S/U Grading in the College

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

2. Credits earned by a non-major student with an "S" grade will not count toward the student's minimum major course graduation requirement should that student ultimately decide to become a major student in one of the four departments in the College. In this case, 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 major students may take course work in their major as Free Electives, they are not entitled to the S/U grading option for these courses taken in their major subject area, even when specifically used or intended to be used as Free Electives.

4. In the College of Fine Arts, the only S/U graded courses available to a major student in his major subject area are those curriculum allowable courses designated S/U (that is, S/U only).

5. With the exception of such courses as may be specifically required under the College's Free Electives 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 see page 31 for more information concerning the University's S/U Grading policy.

Dean's List Honors

See Academic Policies and Procedures, Programs and Services, page 33.

Interdisciplinary Study

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

Minors Program

The College of Fine Arts offers minor programs in Art, Dance, Music, Theatre. Majors in the College of Fine Arts may pursue a minor in any certified minors program at USF except within the same department as the major. The requirements for these programs are located under the departmental academic program descriptions. For University Minor Policy, consult page 36 of this 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 from the course offerings listed.

The major concentrations, or areas of emphasis, available to undergraduate (B.A. seeking) art students are: Drawing, Painting, Sculpture, Ceramics, Graphics (Lithography and/or Intaglio), Photography, Cinematography, 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 page 110 for 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.
   - ARH 4100
   - ARH 4300
   - ARH 4450
   - ARH 4937
   - ARH 4170
   - ARH 4350
   - ARH 4530
   - ARH 4200
   - ARH 4430
   - ARH 4796
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 6 semester hours each) and/or Critical Studies in Art History (4 semester hours each).
5. Art Senior Seminar, 2 credit hours.
6. Proficiency in French or German. In lieu of some considerable direct living experience with another language, it is suggested that a minimum of two years or equivalent of college-level study of a language be undertaken.
7. A maximum of 16 semester hours of art electives.

Master's Level Degree Programs

The College of Fine Arts offers two master's level degree programs, the Master of Fine Arts (M.F.A.) in the art department and the Master of Music (M.M.) in the music department. The requirements for these programs are located under the departmental academic program descriptions. The general University admission requirements for graduate degree-seeking status and the regulations of the University governing graduate study are described beginning on page 48 of this Catalog. The general University application procedures are explained on page 14. When all of the information required for general acceptability into the University is received in the Graduate Admissions Office, the information gathered by the office will be forwarded to the appropriate department in the College of Fine Arts for final processing. However, it is important that the applicant simultaneously seeks to satisfy the departmental admission requirements along with the requirements of the Office of Graduate Admissions in order to meet all deadlines.

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)

I. Studio Concentration:
   - ART 2202C (4)
   - ART 2203C (4)
   - ARH 3000 (4)
   - Plus: Two 4 semester hour classes from 3000 studio level (8)

II. Art History Concentration:
   - ART 2202C (4)
   - ART 2203C (4)
   - ARH 3000 (4)
   - Plus: Two 4 semester hour classes from any of the following:
     - ARH 4100 (4)
     - ARH 4350 (4)
     - ARH 4170 (4)
     - ARH 4430 (4)
     - ARH 4200 (4)
     - ARH 4450 (Required) (4)
     - ARH 4301 (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 Scott Barlett, Larry Bell, Freid Dzubas, Allen Jones, Nicholas Krushenick, Daniel Lam, Paul Rauschenberg, Phillip Pearlstein, Edward Fry, Alice Aycock, Alfred Leslie, Linda Benglis, Ron Gorchoff, Patterson Sims.

Master of Fine Arts Degree (Art)

The major concentrations, or areas of emphasis available to graduate (M.F.A.) art students are: Drawing, Painting, Sculpture, Ceramics, Graphics (lithography and/or intaglio), Photography, Cinematography.

Procedure for Applying

The application for admission to graduate study should be sent to University Admissions prior to deadlines published in the academic calendar on pages 4-5. However, the application and all support materials (portfolio, etc.) should be submitted early enough so that they will reach the art department by the following dates: for Semester 1 admissions by March 1; for Semester II admissions by October 1.

At least one week should be allowed for internal processing of the application providing all transcripts have been received and the applicant's grade point average (GPA) for the final 60 semester of 90 quarter credit hours of undergraduate work is 3.0 or above. If the GPA is below 3.0 the GRE score must be available which may take up to six weeks from the date the exam is taken.

The applicant should submit a portfolio of art work directly to the Graduate Art Adviser in the College of Fine Arts for faculty review. The portfolio should consist of 35 mm slides, for convenience in shipping, handling and presentation. Applicants in drawing and printmaking, however, should send original works and applicants in photography should send original prints. Cinematography applicants should send duplicate prints.
The portfolio should provide evidence of maximum strength in the area of the applicant’s primary interest, although work submitted may represent more than one discipline. Return postage in stamps in the amount so specified for the return of materials is required in addition to the portfolio. (Please do not send cash, checks or money orders.) Applicants to the Master of Fine Arts Degree program are also required to submit (in addition to the portfolio), three letters of recommendation and a letter of intent.

For information concerning University graduate studies, admissions and graduation policies see page 48. It is the applicant’s responsibility to see that all required materials such as transcripts, GRE scores, portfolio and letters of recommendation are received in time to be processed by art department deadlines.

Requirements for the M.F.A. Degree:

A student may be accepted into the M.F.A. program either provisionally or fully. Provisional enrollment is normally provided for one or two consecutive terms. When accepted fully as degree-seeking, the student will then be enrolled in graduate school, to teach in a college or private school, or pursue a career as a performer and/or an art form. Their objectives may be to continue their education in art history.

Students are also required to participate in a thesis oral session in conjunction with the thesis exhibition. This is a forum for questions from faculty representatives and is open to other graduate students.

Graduate students are normally assigned studio space, when available, in the department and are expected to remain in residency during their enrollment. Exceptions must be expected to remain in residency during their enrollment. Exceptions must have the approval of the student’s major advisor and the graduate art adviser. Approval from both of these sources is also necessary for the acceptance of any Special Status students courses (up to 8 hours) taken prior to admission and for any transfer credit from another institution (limited to 9 hours). The graduate committee must additionally approve the written thesis, the thesis exhibition and the conduct of the in satisfaction of degree requirements.

The requirements for the M.A. degree in Art Education are listed under the College of Education.

DANCE (DAN)

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

Major concerts are given each semester as well as workshop performances. Major dance companies are brought to the campus giving students the opportunity of taking classes with the visiting artist.

Requirements for the B.A. Degree (42 semester hours minimum)

Suggested curriculum pattern:

First Year - all students (2 credit hours plus electives)
DAA 2100 2 credit hours Elective
DAA 2200 2 credit hours Elective
DAN 3590 2 credit hours
TPA 2223 2 credit hours (Fine Arts requirement)

First Year - all students (13 credit hours plus electives)
DAA 2160 3 credit hours (Ballet requirement, Modern elective)
DAA 2201 3 credit hours (Modern requirement, Ballet elective)
DAA 3700 2 credit hours
DAA 3701 2 credit hours
DAN 4120 3 credit hours
DAN 4151 3 credit hours

Third Year Modern Concentration (14 credit hours)
DAA 3161 6 credit hours
DAA 3202 3 credit hours
DAA 4702 2 credit hours
DAN 3590 2 credit hours
DAN 3710 1 credit hour

Fourth Year Modern Concentration (14 credit hours)
DAA 4162 8 credit hours
DAA 4703 2 credit hours
DAN 3710 1 credit hour
DAN 4170 2 credit hours

Fourth Year Ballet Concentration (13 credit hours)
DAA 4203 8 credit hours
DAA 3220 2 credit hours
DAN 3710 1 credit hour
DAN 4170 2 credit hours

A maximum of 19 credit hours of Dance electives may apply toward the dance degree. For course descriptions, see page 223.

TPA 2223 Basic Theatre Crafts II (2) 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 at least a minimum of 2 credits (1 per semester) in DAN 3590 Practicum in Dance Production. By doing technical preparation and working backstage in a minimum of two major concerts, the student will have a better grasp of production problems and their solutions. The major student is expected to earn 2 credits in DAN 3710 Repertory by performing in at least two concerts or workshops. Junior dance majors are required to take a dance program and junior dance majors are required to choreograph and perform solo in a dance program.

Entrance to all technique courses is by jury examination. A student must audition each semester to stay at his/her present level or to advance to a higher level. Until the student is accepted into Modern Dance III or Ballet III he/she will be considered as a probationary dance major. DAA 2160 or DAA 2201 may be repeated only once for credit towards degree requirements.

Prospective students must contact the dance department to arrange for an audition prior to registration.

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 page 110 of Fine Arts College requirements and page 38 for the University’s General Distribution and graduation requirements.

Requirements for a minor in Dance

(20 semester hour minimum)

I. Minimum of 10 semester hours upper level courses (3000 and 4000 level courses).

II. Admission to all studio classes is by audition only (as with major students) and the student must be ranked by level before being admitted. Studio courses may be repeated for credit as stipulated in the Catalog.

III. Prospective students must contact the Dance department to arrange for an audition prior to registration. DAA 2160 and DAA
2200 may be repeated only once for credit toward the minor.

IV. The student must audit each semester to stay at his/her present level or to advance to a higher level for all technique courses.

Visiting Artists and Artists-in-Residence

By supplementing its excellent on-going 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.

An impressive list of visiting artists includes:

Murray Louis Dance Co.
First Chamber Dance Co.
Claude Kipnis Mime Theatre
Louis Falco Dance Co.
Nikolaus Dance Theater
Dance Theatre of Harlem
Merce Cunningham Dance Co.
Alvin Ailey American Dance Theatre
Don Redlich Dance Co.
Polish Mime Theatre
Viola Farber Dance Co.
Paul Taylor Dance Co.
The Phakavali Dancers of Thailand
Jacques D’Amboise
Lucas Hoving Dance Co.
New Caledonia Singers and Dancers
The Trocaderos
Kazuko Hirabayashi
Laura Glen/Gary Lund
Norman Walker Dance Co.
Ballet Marjo
Luis Rivera Co.
Utah Repertory Dance Theatre
Cliff Keuter Dance Co.
Kelly Hogan
Jose Limon Co.
James Cunningham Co.
Lar Lubovitch Dance Co.
Dena Madole
Meredith Monk
Luigi
Carolyn Brown
Susanna Hayman Chaffey
Sandra Neels
Betty Jones
Barton Mumaw
Twayla Tharp Dance Company
George Faison Dance Company
Pilobolus Dance Theatre
Jennifer Muller and the Works
Daniel Nagrin
Milwaukee Ballet Co.

MUSIC (MUS)

The Departmental B.A. Degree:

The music curriculum is designed for those students gifted in the performance and/or composition of music. Candidates for a major in music are required to pass an entrance examination (audition) in their respective performance area. Composition candidates are required to submit appropriate scores and/or tapes of their compositions for faculty appraisal. All new registrants are also required to take a placement or proficiency examination in music theory. Students may obtain dates and times for these examinations from the music department office. Completion of those examinations is required before registration in music courses can be permitted.

Academic programs offered include:

Bachelor of Arts degree with concentration in Performance (voice, piano and orchestral instruments), Composition, and Piano Pedagogy.

Requirements for the B.A. Degree (64 semester hours minimum)

All students seeking a degree in music are required to (1) complete successfully the secondary piano and music theory-literature requirements as defined by the music faculty, (2) present a partial public recital during the junior year, (3) present a complete public recital during the senior year, (4) present a record of satisfactory recital attendance during each of the semesters of study at the University (the specific requirements for satisfactory attendance are set by the music faculty). Those requirements are in addition to the actual course requirements listed below: A total of 64 hours is required as follows:

**Music Theory (20)**
- MUT 1111 (3)
- MUT 1112 (3)
- MUT 1241 (1)
- MUT 1242 (1)
- MUT 2116 (3)
- MUT 2117 (3)
- MUT 2246 (1)
- MUT 2247 (1)

**MUSIC EDUCATION**

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

All students seeking a degree in music education are required to take a placement examination in music theory-history and to pass an audition in their respective performance area. Students must obtain the dates for these examinations from the Music Office, completion of the examinations is required before registration in music courses can be permitted.

Special requirements for all music education majors: Successful completion of the piano proficiency requirement 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 senior year.

Students are encouraged to attend on-campus musical events (major concerts, student and faculty recitals, and Artist Series concerts).

A. Instrumental Specialization (83 cr. hrs.)

**Music Education courses (22 cr. hrs.)**
- MUE 2420 (1)
- MUE 3411 (1)
- MUE 3413 (1)
- MUE 4314 (3)
- MUE 4405 (3)
- MUE 4432 (3)
- MUE 4480 (1)

†Must be taken up to two hours

*One credit hour of pre-interning enrollment required with each course.

†Elective for band emphasis
Music courses (min. 61 cr. hrs.)
MUT 1111 (3)      MUT 2116 (3)      MUL 2112 (2)
MUT 1112 (3)      MUT 2117 (3)      MUH 3211 (3)
MUT 1241 (1)      MUT 2247 (1)      MUH 3101 (2)
MUT 1242 (1)      MUT 2111 (2)      MUG 3101 (2)

Applied Music (21 cr. hrs., min. 3 hrs. senior level)
Applied Music Secondary (Techniques - 5 cr. hrs.)
(one each: woodwind, brass, string, percussion, voice)

Performing Ensembles
(Minimum of one per semester of applied music - 7 cr. hrs.)
Piano proficiency requirement
Graduating recital

Art, Dance, Theatre (min. 4 cr. hrs.)
(one course to be selected from one or more of the other
departments of the College of Fine Arts)

B. Vocal Specialization (82 cr. hrs.)
Music Education courses (21 cr. hrs.)
MUE 2420 (1)      MUE 3414 (1)
*MUE 4314 (3)
*MUE 3411 (1)      *MUE 4050 (3)
*MUE 4331 (3)
MUE 3413 (1)      *MUE 4130 (3)

*MUST be taken up to two hours.

*One credit hour of pre-interning enrollment required with each course.

Music courses (min. 61 crs. hrs.)
MUT 1111 (3)      MUT 2116 (3)      MUL 2112 (2)
MUT 1112 (3)      MUT 2117 (3)      MUH 3211 (3)
MUT 1241 (1)      MUT 2246 (1)      MUH 3101 (2)
MUT 1242 (1)      MUT 2247 (1)      MUG 3102 (2)

Applied Music (21 cr. hrs., minimum 3 crs. hrs. senior level)
Applied Music Secondary (Techniques - 5 cr. hrs.)
(one each: woodwind, brass, string, percussion, voice)

Performing Ensembles
(Minimum of one per semester of applied music - 7 cr. hrs.)
Piano proficiency requirement
Graduating recital

Art, Dance, Theatre (minimum 4 cr. hrs.)
(one course to be selected from one or more of the other departments of the College of Fine Arts)

Requirements for a minor in Music (19-22 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 11-12 hours.

I. Core Curriculum:

   Music Theory (8)
   Introduction to Music Literature (4)
   or
   Music History (3)

II. Optional Concentrations:

   A. History-Theory-Literature
      Music History and/or Theory and/or Literature (7-8)
      Music Ensemble (2)
   B. Applied Medium
      Performance Studio courses which may include
      up to 2 semester hours of class-studio (6-8)
      Music Ensembles (2)
      Faculty jury recommendations for sophomore level studio study (minimum)
   C. Composition
      Introduction to Electronic Music (2)
      Composition Studio courses which may include
      one course of orchestration (6)
      Music Ensemble (4)
   III. Admission to all studio courses is by audition only (as with majors or students), and the student must be ranked by level, class-studio courses may serve as preparation for auditions. Registration in all music courses is by permission of the instructor. Studio courses may be repeated for credit as stipulated in the Catalog.

Master of Music Degree

The major concentrations available to graduate (M.M.) music students are:

   performance composition theory
   choral conducting

Procedure for Applying

The applicant seeking acceptance into the Master of Music degree program must meet the University's general admissions requirements and make formal application for general university acceptability with the Graduate Admissions Office. Concurrently, the applicant must arrange to fulfill the specific acceptance requirements in the Music department (of the College of Fine Arts). Full acceptance cannot be granted until the applicant satisfies: (1) performance audition, (2) placement examination in music theory. Dates and times for auditions and examinations may be obtained by telephoning or writing the Music Department, College of Fine Arts. Persons to contact directly are the Chairperson of the Music department and the Coordinator of Graduate Music, or the Coordinator of Graduate Studies (College of Fine Arts) for referral.

Requirements for the M.M. Degree (30 semester hour minimum)

General requirements for graduate work are given on page 48. In addition, the applicant for the Master of Music degree program will need to satisfy the following requirements in music before initial registration: (1) performance audition, and (2) placement examinations in music theory. All candidates for the degree must take the following course work: Techniques of Research in Music (3), Critical Analysis of Music Repertory (3), and 20th Century Music Literature (3).

Degree Requirements will vary according to the program chosen as well as the student’s needs and interests. Recommended programs may be obtained from the department chairperson. Each program must be approved by the coordinator of graduate conformance with the guidelines established by Graduate Music Committee. A minimum of 30 semester hours is required.

No secondary applied music course may be used to satisfy the general applied requirement. Students must enroll for the major applied offering (4 semester hours).

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

Requirements for the M.A. Degree (M.U.E.):

Plans in both instructional and vocal music are offered. A placement examination is required of all new registrants in music theory. Each candidate must meet the undergraduate level of piano proficiency before the semester in which he/she expects to graduate. Participation in ensembles is required for at least two semesters. Two plans are available to the candidate: 32 hours plus thesis or recital or 35 hours without thesis or recital. Students majoring in music education to include EDF 6215 and EDF 6431; nine credits in music education including MUE 6080 and MUE 6189; including six credits in music theory-history-literature and four credits in applied and MUS 6793.

SYCOM

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

Basic recording facilities in Studio A include a custom designed 12 channel quad., mixing console, constructed around an OPAMPS frame (with patchbay, remotes and monitor controls), one JBL eight-track recorder (140 format; 7½, 15, 30 ips) with DBX 208, an Ampex ATR 102 two-track recorder with Dolby A, a TEAC 40-4 four-track recorder with DBX, a MIX M4X stereo reverber and four White 1/3 octave equalizers. Four JBL 4315 studio monitors are powered by two Crest amplifiers. Eu Systems provides a modular synthesizer with a real time 16 voice microprocessor controlled, keyboard/sequencer (6000 notes of storage, cassette "load and store" of software). Computer facilities include an standard 280 cpu (system upgradeable to a 2800) with 64 K of RAM, and IBM compatible, digital tape drive (7 or 9 track; 800 or 1600 BPI), a 29 megabyte Shugart disk, two 500 K double density floppy diskettes, four...
channels of 12 bit d to a for synthesizer control (8 for pitch; 8 for amplitude; 16 separate triggers), one channel of analog-to-digital conversion and two Hazeltine 1500 terminals. A Megasystems PSS-2 8080 microprocessor/sequencer with 2000 notes of storage and an array of specialized software entered on a standard ASCII terminal is also available. Peripherals include a Technics SL 1600 MK2 turntable system, an Akai GX-M50 cassette deck, a frequency counter and a digital clock.

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

The Faculty:
USF's superior music faculty has been carefully chosen for its training, performing ability, and ability to teach. It is in every sense a team. This achievement has been demonstrated by such fine musical ensembles as the Faculty String Quartet, the Faculty Brass Quintet, the Ars Nova (faculty) Woodwind Quintet and the Faculty Chamber Players.

Unique Learning Opportunities:
The music department at the University of South Florida offers the student the opportunity to study with a distinguished faculty, work with the newest in creative equipment, and to be in the company of other superior music students for an extensive, exciting and exacting period of study.

SYCOM—The Systems Complex for the Studio and Performing Arts offers the student the opportunity to work with an unusually well developed electronic facility for creative research and compositional opportunity.

Visiting Artists and Artists-In-Residence:
The Department of Music utilizes guest composers, conductors, and performing musicians to enhance its offerings in terms of teaching faculty, formal appearances, and the conducting or musical programs, symposia, and clinics. Some prominent musicians who have appeared in the past are Howard Hanson, Norman Dello Joio, Randall Thompson, Virgil Thomson, David Ward-Steinman, Walter Trampler, Fred Hemke, Eleazar de Carvalho, Thomas Nee, Lukas Foss, Maurice Andre, John Haynie, Jean Pierre Rampal, Julius Baker, David Baker, Thomas J. Anderson, Hale Smith, George Russell and Olly Wilson.

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

Financial Aid:
The University has made available to highly qualified undergraduate students a number of music service awards. Usually these awards cover-in-state tuition fees, and are distributed following open auditions held in February and March. The award is made for the following year for two semesters. Available to graduate students who show special potential for creative contributions to the profession are the University Scholar Awards and graduate assistantships and fellowships. Additionally, loans, and grants and work programs are available to qualified University of South Florida students. Financial aid is granted on need, academic promise and character.

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

After a thorough orientation to all facets of the art gained in the basic courses, the Theatre major pursuing the Bachelor of Arts degree concentrates in the areas either of performance or design and technology.

To earn a B.A. in Theatre, the student following the design and Technology Concentration must take a minimum of 51 credit hours. The Design/Technology students are required to take an additional 4 credits (ART 3301C) in the Art Department. (These may be applied to the college requirement of 6 credit hours outside the Department but within the college. May also be applied to general distribution requirement Area II.) The student following a Performance Concentration must take a minimum of 50 credit hours. In addition to these, a number of electives in the department may be taken to broaden the general program or to pursue a particular interest in more depth.

To allow for an even greater preparation in professional theatre, a Bachelor of Fine Arts degree is offered. This program allows one of two concentrations: either Performance or Design/Technology. Students will be expected to earn 30 credit hours beyond the B.A. (overall 150 credits from the University.) Normally the B.F.A. should be accomplished in 10 semesters.

For other non-major requirements see page 110 for the College of Fine Arts requirements and pages 34-37 for the University's General Distribution and graduation requirements.

Through the production program, which includes various performances for general audiences, children, and department faculty and students, the student has the opportunity to participate in many different ways, thereby gaining practical experience that is essential to his/her development as an artist. The Design/Technology area of Fine Arts Events (see description elsewhere in this section) offers opportunities to the advanced student to work with the professional companies (Dance, Theatre and Music) that come to the campus as a part of the University Artist Series and Dance Residency Program. For all students a broad involvement in all facets of their fields of concentration is encouraged.

Visiting Artists and Artists-In-Residence:

Requirements for the B.A. Degree with a Major in Theatre
In the total of 120 credit hours for graduation, a minimum of 50 credit hours must be taken within the Department of Theatre. In addition, a maximum of 12 credit hours of theatre may apply to the Theatre Electives Area.

Performance Concentration (50 credit hours minimum)
Suggested Sequence Of Requirements
First Year (11 credit hours)
The 2020 2 credit hours
TPA 2200 3 credit hours
TPA 2223 3 credit hours OR TPA 2230 3 credit hours
TPP 2110 3 credit hours
Second Year (14 credit hours)
TPP 3111 3 credit hours
TPA 3086 3 credit hours
THE 3110 4 credit hours
TPP 3500 2 credit hours
TPP 3790 L 2 credit hours
Third and Fourth Years (21 credit hours)
Theatre Literature - 3 credit hours
TPP 4140 4 credit hours
TPP 4150 4 credit hours
TPP 4920 3 credit hours
Suggested Sequence Of Requirements

First Year (14 credit hours)
- THE 4180 4 credit hours
- THE 4562 3 credit hours
- Plus 4 credits TAR electives.

Design/Technology Concentration (51 credit hours minimum)

Second Year (17 credit hours)
- THE 2020 2 credit hours
- TPA 2200 3 credit hours
- TPA 2223 3 credit hours
- TPA 2232 3 credit hours
- TPP 2110 3 credit hours

Third/Fourth Years (24 credits)

Theatre Literature 3 credit hours
- THE 4180 4 credit hours
- THE 4562 3 credit hours
- Choose two (2) of the following combinations (14 credit hours):
  - TPA 4020 (4 credit hours) and TPA 3221 (3 credit hours)
  - TPA 4040 (4 credit hours) and THE 4264 (3 credit hours)
  - TPA 4060 (4 credit hours) and THE 4266 (3 credit hours)

The Theatre Literature requirement for Performance and Tech/Design majors is to be selected from the following:
- TPA 4020 3 credit hours
- TPA 4330 3 credit hours
- TPA 4370 3 credit hours
- TPA 4401 3 credit hours
- TPA 4442 3 credit hours
- TPA 4480 3 credit hours

Freshman Lab and Advanced Course Production Involvement:
- TPA 2200, TPA 2223, and TPA 2230 have, in addition to the weekly lectures (3 hours), a weekly 4-hour laboratory. (LAB)

Requirements for the B.F.A. Degree in Theatre:

In certain upper division courses in the Theatre Department, students are expected to involve themselves in scheduled USF productions as a part of regularly assigned class work. The involvements are assigned and may be either construction or running crews or performance work. This ACPI assignment is an integral part of the following courses:
- THE 4264 — History of Costume
- TPA 4020 — Architecture and Decor
- TPA 3221 — Lighting: Theory and Practice
- TPA 4020 — Light Design
- TPA 4040 — Costume Design
- TPA 4060 — Scenic Design
- TPA 4211 — Stagecraft and Drafting
- TPA 4230 — Costume Construction
- TPP 3500 — Body Disciplines
- TPP 3790L — Voice Preparation for the Actor
- TPP 4140 — Scene Study II
- TPP 4150 — Scene Study I
- TPP 4152 — Scene Study III

All Theatre majors (B.A. and B.F.A.) must satisfy four ACPI's before they are approved for graduation.

Once the minimum requirement of four ACPI's has been met, no students who register for courses with ACPI requirements will be required to participate.

Performance Concentration

12 credit hours of production preparation through performance classes from the following:
- THE 4905 1-4 credit hours
- THE 4930 1-8 credit hours
- TPA 2250 1 credit hour
- TPA 3810 3 credit hours
- TPA 3840 4 credit hours
- TPP 3121 3 credit hours
- TPP 3122 3 credit hours
- TPP 3235 3 credit hours
- TPP 3510 2 credit hours
- TPP 4220 2 credit hours
- TPP 4310 3 credit hours
- TPP 4311 3 credit hours
- TPP 4610 3 credit hours

12 credit hours of additional electives of which 6 must be outside the Department of Theatre

PLUS 6 credit hours:
- TPP 4180 3 credit hours
- THE 4562 (repeat) 3 credit hours, or additional Theatre Literature.
The major objectives of the College of Medicine are, first, to create and maintain an academic environment in which medical education, the production of new knowledge, and community service may be continued in a quality manner. The second objective is to integrate the College of Medicine into the mainstream of the community and to participate in and lead in the up-grading and improvement of the health care standards of the community in which the College is located. The third objective is to function within the framework of the total University as an integral and valued part of the University community.

The philosophy of the educational program at this institution is to provide a strong academic basis for lifetime scholarship in medicine and growth in professional stature for our students, to lay the foundation for the development of ever increasing technical and professional competency and proficiency in the arts and sciences of medicine for each of the students; to instill in our students compassion and a sense of devotion to duty to their profession and to their patients; to provide relevance and continuity in instruction among the various disciplines related to medicine; to maintain and increase our students’ motivation for community and human service in the practice of their profession; to stimulate the students to accept major responsibilities in learning; to orient teaching activities around the student and his desire and ability to learn.

With these concepts in mind, a curriculum has been developed which we believe will achieve an effective correlation between the pre-clinical and clinical instructional areas. The curriculum is designed to emphasize conceptually oriented teaching, thus affording the students a challenging and intellectual experience as opposed to a routine and the superficial presentation of a large volume of facts. Relevance to medicine will be emphasized in all areas of instruction in a way recognizable and understandable by the student of medicine. Increased correlation on an interdisciplinary basis will be instituted providing reinforcement between the various fields of study. The curriculum will also provide a close and ongoing experience for the student in the day-to-day and continuing College of Medicine’s health care delivery system within the community hospitals and the College of Medicine’s ambulatory care facilities. It is anticipated the program will produce graduating physicians who understand and desire the practice of medicine as a fruitful and meaningful choice for a lifetime career of service to their patients and the community.

It is recognized that the program does place heavy demands upon the students. They will be expected to utilize all resources provided by the College, to maintain a consistent level of academic achievement, and to demonstrate evidence of initiative and dedication to their chosen profession.

MEDICINE

Students admitted to the College of Medicine, seeking an M.D. degree, are selected on the basis of what appears by present standards to be the best suited for the successful study and practice of medicine. The selection is made by the Admissions Committee composed of members of PreClinical, Clinical faculty, and one senior medical student. Each applicant is considered individually and is judged strictly on his or her own merits. Characteristics evaluated include motivation, integrity, character, and general fitness. These are judged by recommendations of the applicant’s PreMedical Advisory Committee as well as other letters of recommen-
Requirements for Admission

A minimum of three years of college or university work is required with some preference given to those applicants who present a bachelor's degree from a liberal arts college approved by one of the national accrediting agencies. The minimum requirement is three years of college work (90 semester hours or 135 quarter hours, exclusive of Physical Education and ROTC).

Regardless of the number of years involved in Pre-Medical training, the college credits submitted by the applicant must include the following:

<table>
<thead>
<tr>
<th>Semester(s)</th>
<th>Quarter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Biological Science</td>
<td></td>
</tr>
<tr>
<td>(including laboratory)</td>
<td></td>
</tr>
<tr>
<td>Mendelian Genetics</td>
<td></td>
</tr>
<tr>
<td>(laboratory optional)</td>
<td></td>
</tr>
<tr>
<td>General Chemistry</td>
<td></td>
</tr>
<tr>
<td>(including laboratory)</td>
<td></td>
</tr>
<tr>
<td>Organic Chemistry</td>
<td></td>
</tr>
<tr>
<td>(including laboratory)</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td>Statistics (mathematics or Social science)</td>
<td></td>
</tr>
<tr>
<td>Physics</td>
<td></td>
</tr>
<tr>
<td>(including laboratory)</td>
<td></td>
</tr>
</tbody>
</table>

All applicants must arrange to take the New Medical College Admission Test.

Requirements for Graduation

The awarding of the degree Doctor of Medicine will follow successful completion of the entire required course of study. Appropriate arrangements for post graduate training must be made. Grading of performance in academic subjects will be on an honors, pass, fail grading system, and the student must have achieved a grade of at least pass in all subjects in the curriculum.

Doctor of Philosophy Degree in Medical Sciences

A graduate program leading to the Doctor of Philosophy degree in Medical Sciences is offered by the Basic Science Departments of the College of Medicine. Information concerning this program may be obtained by contacting the Assistant Dean for Research and Graduate Affairs, College of Medicine, Box 40, 12901 North 30th Street, University of South Florida, Tampa, Florida 33612.

Requirements for Admission

1. Students who seek admission as first-time graduate students to the Ph.D. Program in Medical Sciences of the College of Medicine shall be required to meet the minimal System-wide (State University System of Florida) and University-wide (University of South Florida) entrance requirements.

2. In addition, and/or over and beyond the minimal System-wide and/or University-wide entrance requirements, the applicant while working for the baccalaureate degree, shall have earned a minimum overall grade point average of 3.0 out of a possible 4.0 with a minimum grade point average of 3.0 in the sciences.

3. The applicant shall have a total quantitative-verbal Graduate Record Examination score of 1100 or higher. However, if the applicant takes an advanced test on the GRE in his or her major and achieves a score of 600 or higher, and achieves a score of 1000 or higher on the quantitative-verbal test, the minimum score of 1100 may be waived under special circumstances.

4. The applicant must have completed the following courses:

   - one year of general biology
   - one year of general chemistry, one year of general physics, one year of mathematics including integral and differential calculus, one year of organic chemistry and a course in quantitative analysis.

5. In addition to course requirements summarized above (Section 4), the department of the chosen discipline of major may require additional course work to be completed before admission into the Graduate Program. Conversely, at the discretion of the faculty of the department of major, specific deficiencies may be corrected through courses taken within a specified period of time. Each such course, as well as the grade obtained in the course, is to be agreed upon by the student's department of major at the time the student is accepted into the Graduate Program. This information will be communicated to the student and to the Assistant Dean for Research and Graduate Affairs (College of Medicine) prior to the time of regular registration for the quarter.

6. Except for the System-wide and/or University-wide minimum admission criteria, all other requirements herein summarized (Sections 2-5), under exceptional circumstances, in consideration of the applicant's expected success in the program and in the best collective judgment of the faculty of the department of major, the Graduate Faculty Committee (College of Medicine), and with the concurrence of the Assistant Dean for Research and Graduate Affairs and the Dean of the College of Medicine, may be waived.

**COLLEGE OF MEDICINE**

**Academic Calendar, 1982-83**

**Class of 1986**

<table>
<thead>
<tr>
<th>Date</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
<th>Sunday</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 30, 1982</td>
<td>Registration-Classes Begin</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>September 6</td>
<td>Monday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>November 11</td>
<td>Monday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>November 25-26</td>
<td>Thursday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>December 17</td>
<td>Friday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January 3, 1983</td>
<td>Monday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>April 6</td>
<td>Wednesday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>April 11</td>
<td>Monday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>May 30</td>
<td>Monday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>June 3</td>
<td>Friday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>June 8, 9, 10</td>
<td>Wednesday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>August 29</td>
<td>Monday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>September 5</td>
<td>Labor Day Holiday*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Class of 1985**

<table>
<thead>
<tr>
<th>Date</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
<th>Sunday</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 30, 1982</td>
<td>Monday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>September 6</td>
<td>Monday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>November 11</td>
<td>Thursday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>November 25-26</td>
<td>Thursday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>December 17</td>
<td>Friday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January 3, 1983</td>
<td>Monday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>April 1</td>
<td>Friday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>April 11</td>
<td>Monday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>May 27</td>
<td>Monday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>July 5</td>
<td>Tuesday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Class of 1984**

<table>
<thead>
<tr>
<th>Date</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
<th>Sunday</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 6, 1982</td>
<td>Tuesday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>September 6</td>
<td>Monday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>November 11</td>
<td>Thursday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>November 25-26</td>
<td>Thursday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>December 17</td>
<td>Friday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January 3, 1983</td>
<td>Monday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>March 25</td>
<td>Friday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>April 4</td>
<td>Monday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>May 30</td>
<td>Monday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>June 24</td>
<td>Friday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>July 5</td>
<td>Tuesday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*These are holidays for all classes, but holidays may be waived for students serving in Clinical Clerkships at the discretion of the individual Chiefs of Service.
Satisfaction of the school or medical technology internship program requires specialized counseling. Because of this, immediate application for admission into the Natural Sciences, College are as follows:

- Career must plan their courses carefully because of the sequential nature of the requirements for graduation in any undergraduate degree in the college.
- To be admitted to the College of Natural Sciences, a student must make written application and satisfy the admission criteria of the college.
- In addition to the careers in the science fields or for those planning professional careers having a considerable component of science. These students will typically major in one of the sciences or in a combination of sciences as preparation for employment, transfer to professional schools or admission to graduate school.
- In addition, the college administers advising for the premedical sciences non-degree program and the medical technology degree program. These programs combine specialized counseling and curriculum planning to assist the student in gaining admission to a professional school or internship program.

### BACCALAUREATE LEVEL DEGREE PROGRAMS

#### Admission to the College

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

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

#### General Requirements for Degrees

In addition to the University graduation requirements found on page 34, the requirements for graduation in any undergraduate degree in the college are as follows:

1. Completion of a major program with a grade of "C" or higher in each course. A major program is defined to be courses in a department of concentration plus supporting courses in related departments. All courses in the major program must be taken with letter grade (A, B, C, D, F, I) except those courses which are graded S/U only. For a more detailed description of the major program requirements, consult the appropriate departmental section.
2. Certain courses offered in the college are designated for the non-science major or the non-departmental major. These courses are designated "For non-major," "No credit for (department major)," "No credit for science majors," or some similar phase. For these courses the following rules apply.
   - "For non-majors" - For majors in the college, the course will count as credit towards graduation only as a free elective.
   - "No credit for (department major)" - The course will not count toward graduation for a science major in the specified department, but will count towards graduation as a free elective for all non-specified departments.
   - "No credit for science majors" - The course will not count toward graduation for any major in the college.
3. Satisfactory completion of the University Distribution Requirement, except:
   - In area III, the minimum requirement of six hours in mathematics may be waived by credit in at least six hours of mathematics courses required by the major.
   - In area IV, the minimum of six hours in Natural Sciences may be waived by credit in at least six hours of natural sciences courses required by the major.
4. Completion of 15 hours of courses from the Colleges of Fine Arts, Social and Behavioral Sciences, or Arts and Letters. The student may elect any course from any of these colleges provided:
   - (a) No more than 9 hours are taken in courses in any one department.
   - (b) The courses are taken with letter grade (A, B, C, D, F, I).
5. Courses taken to satisfy the University Distribution Requirement may be taken at any level, but will count towards graduation as a free elective for all non-departmental majors. These courses are designated "No credit for (department) major." For non-majors, the course will count toward graduation for a science major in the specified department, but will count towards graduation as a free elective for all non-specified departments.

#### Grading Systems

Typically, courses in the University receive letter grades (A, B, C, D, F, I). However, the college recognizes that educational competence may be achieved and demonstrated by experiences other than classroom attendance leading to letter grades. The attention of the student is directed to the following:

1. CLEP and other advance placement examinations.
2. Waiver by either documentation or examination.
3. Off-Campus Team programs.
4. Cooperative Education Program.
5. Independent Study.
   - A. With the exception of courses graded S/U only, all courses required to satisfy the departmental major and all supporting courses required by the departmental major are considered in the students' major program and may not be taken S/U. However, once the requirements of the major program have been satisfied, subsequent courses taken in the major or supporting areas are considered free electives and may be taken S/U. All hours required to complete the 15-hour rule must be taken by letter grade.
   - B. With the exception of ENC 1102 and ENC 1135, all courses in Distribution Requirements and all courses in free electives may be taken S/U. There is no restriction regarding the number of hours to be taken S/U except the graduation requirement that the student must earn at least 30 credit hours with letter grades in the College of Natural Sciences.
   - C. Students will be permitted to enroll in a course by an S/U on
the basis of a written contract signed by the student, and the instructor of the course. This contract must be completed no later than the third week of the semester in which the course is offered.

D. Each instructor for courses in the College of Natural Sciences will provide students with requirements necessary to attain an "S" grade. Essentially, "S" should be equal to a "C" or better.

E. Students transferring from any other college division of the University will be subject to the above requirements.

Programs Leading to the Baccalaureate Degree

The College offers the Bachelor of Arts degree with majors in Biology (BIO), Botany (BOT), Microbiology (MIC), and Zoology (ZOO); Chemistry (CHM); Geology (GYL); Mathematics (MTH); and Interdisciplinary Natural Sciences (INS) with a concentration in one of the above. The College offers the Bachelor of Science degree with majors in Chemistry (CHS), Clinical Chemistry (CHC), Geology (GLS), Medical Technology (MET), and Physics (PHS). For specific requirements, consult appropriate departmental sections of this Catalog.

Academic Minor Programs

Academic Minors are offered in the departments of Geology and Mathematics. To complete a minor, a student must satisfy the course requirements found in the departmental sections of this catalog and must satisfy the University requirements found on page 36. In addition, the student must earn a grade of "C" or higher in each course used to meet a minor requirement of departments of the College of Natural Sciences.

PREPROFESSIONAL SCIENCES

The University of South Florida is an excellent location to prepare for a health profession. The Tampa Veterans Administration Hospital, Florida Mental Health Institute, and University Community Hospital are within walking distance of the campus and offer students excellent opportunities for observation, research, and experience.

The College of Natural Sciences offers programs designed to prepare students for admission to professional schools of medicine, osteopathic medicine, dentistry, optometry, podiatric medicine, and veterinary medicine. Usually these programs require four years of preprofessional preparation followed by four years of training in a professional school. A few well-prepared students with exceptional qualifications may be admitted to some professional schools as early as the completion of the junior year of preprofessional work. The preprofessional programs do not constitute a degree program; however, preprofessional students should plan to also complete requirements for a degree while at USF because professional schools prefer students with a bachelor's degree, although they do not specify the choice of major. Most preprofessional students major in the sciences because of their interests in the health sciences and because of the considerable overlap between an optimal preprofessional curriculum and the degree requirements for majors in the biology and chemistry departments. The College also offers two-year programs leading to the A.A. degree that prepares students for admission to professional schools or programs. These programs are competitive, and a student should begin establishing a record of excellence with his first semester at USF. Furthermore, it is essential that students pursue courses developing a sense of understanding of cultural and humane values and basic social problems.

The College of Natural Sciences provides the Preprofessional Sciences Advising Office where academic advisers are available. The office maintains a library of current catalogs and books on admission requirements for professional schools and is an important source of information to preprofessional students. A student considering one of the health professions should contact the College of Natural Sciences during his first semester at USF to declare his interest in one of the preprofessional sciences programs described in the following sections. Each student in these programs is assigned to a preprofessional sciences adviser who will assist him in planning an appropriate curriculum. Each semester the adviser provides the student with a record of his progress. The preprofessional sciences advisers constitute the Preprofessional Sciences Committee. At the time a student makes application to professional school, the Committee prepares an evaluation of the student based upon consideration of the student's academic record and test scores, individual evaluations submitted by five faculty members, and an interview. This comprehensive evaluation is sent to each school to which a student applies; it is an important factor in the admission selection process. In order to avoid difficulty in application and admission to professional school, a student planning on a health profession should declare that interest as soon as possible and begin working with a preprofessional sciences adviser early in his/her academic career.

Preprofessional Sciences Program

The Preprofessional Sciences Program is designed to prepare students for admission to a professional school and therefore should be completed by the junior year, the usual time of application. The following preprofessional core should be completed for application to almost all professional schools of medicine, osteopathic medicine, dentistry, and podiatric medicine:

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

- **Chemistry:**
  - CHM 2045 (3)
  - CHM 2045L (1)
  - CHM 2046 (3)
  - CHM 2046L (1)
  - CHM 3210 (3)
  - CHM 3210L (2)
  - CHM 3211 (3)
  - CHM 3211L (2)

- **Physics:**
  - PHY 2050 (3)
  - PHY 2050L (1)
  - PHY 2051 (3)
  - PHY 2051L (1)
  - PHY 3040 (3)
  - PHY 3040L (1)
  - PHY 3041 (3)
  - PHY 3041L (1)

- **Mathematics:**
  - MAC 2243 (4)
  - MAC 2244 (4)
  - MAC 1104 (4)
  - MAC 3411 (4)
  - MAC 3412 (4)

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

Premedical students must include the following courses to meet additional admission requirements of medical schools in Florida:

- **PCB 3063** (3) STA 3023 (4) BCH 3033 (3)
  - PCB 3063 (3) PCB 4743C (4) ZOO 3713C (4)
  - PCB 4023C (4)

Some professional schools require or recommend additional courses. The following science courses are frequently specified:

- **Biology:**
  - MCB 3010C (4) PCB 4253C (4) PCB 4184 C (4)
  - PCB 3063 (3) PCB 4743C (4) ZOO 3713C (4)
  - PCB 4023C (4)

- **Chemistry:**
  - BCH 3033 (3) CHM 3401 (3) CHM 3120 C (4)
  - CHM 3400 (3)
Pre-Veterinary Medicine Program

The Pre-Veterinary Medicine Program meets admission requirements of the University of Florida College of Veterinary Medicine, the only veterinary school in the state. Admission into veterinary school is highly selective, and to be competitive students should obtain experience working with animals, preferably through volunteer work or employment with a veterinarian. Pre-veterinary students should complete a degree in the major of their choice while including the following entrance requirements:

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

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

Mathematics:
- MAC 2243 (4)
- MAC 2244 (4)

Physics:
- PHY 2050 (3)
- PHY 2050L (1)
- PHY 2051 (3)
- PHY 2051L (1)

In addition, students must have a minimum of 90 hours including 6 hours of English with one course in composition, 6 hours of social science, 8 hours of humanities, and 8 hours of animal science courses which should be completed at the University of Florida no later than the summer prior to application. Recommended courses are ZOO 3713C (4), PCB 4253C (4), PCB 4743C (4), and BCH 3033 (3).

Prepharmacy Program

The College offers a two-year program emphasizing the sciences to prepare students for transfer to regional colleges of pharmacy. Prepharmacy students must complete general education requirements and include the following courses:

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

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

Mathematics:
- MAC 2243 (4)
- MAC 2244 (4)

Physics:
- PHY 2050 (3)
- PHY 2050L (1)
- PHY 2051 (3)
- PHY 2051L (1)

In addition, some schools require MAC 2244, PCB 3700, ZOO 3713, CHM 3211, CHM 3211L, BCH 3033, PSY 4743C, PHY 2012, PSY 3013, PSY 3213, and a social sciences elective.

B.A. Degree for Medical and Dental Students

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

1. Transfer of a minimum of 30 semester hours in science courses from an approved medical or dental school.
2. Fulfillment of the following minimum requirements in attendance at the University of South Florida:
   A. 90 hours with at least a "C" average (2.000).
   B. completion of a minimum of 24 hours in the department of major concentration and a minimum of 16 hours in supporting courses in the College of Natural Sciences outside the department of major concentration. The 24 hours in the department of major concentration must be in courses applicable to a major in that department. The 16 hours in supporting courses must also be taken in courses applicable to a major in that department and must include a minimum of two courses at the 3000 level or above. At least a "C" must be earned in each course in both major concentration and supporting courses.
3. Credit in the following courses:
   - Biology:
     - BSC 2010C (4)
   - Chemistry:
     - CHM 2045 (3)
   - Mathematics:
     - MAC 2243 (4)
     - MAC 2244 (4)
   - Physics:
     - PHY 2050 (3)
     - PHY 2050L (1)
     - PHY 2051 (3)
     - PHY 2051L (1)
   - In addition, some schools require MAC 2244, PCB 3700, ZOO 3713, CHM 3211, CHM 3211L, BCH 3033, PSY 4743C, PHY 2012, PSY 3013, PSY 3213, and a social sciences elective.

Prephysical Therapy Program

The College offers a two-year program to prepare students for entrance into physical therapy programs at Florida institutions. Prephysical therapy students must complete general education requirements and include the following courses:

Biology:
- BSC 2010C (4)

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

Mathematics:
- MAC 2243 (4)
- MAC 2244 (4)

Physics:
- PHY 2050 (3)
- PHY 2050L (1)
- PHY 2051 (3)
- PHY 2051L (1)

The following additional courses are required or recommended at specific institutions: ZOO 3713C, STA 3023, HUS 4020, HES 2000, PSY 2012, DEP 3103; and a psychology elective.

Preoptometry Program

The Preoptometry Program meets the basic entrance requirements of all accredited schools of optometry in the United States. At least two years are required by optometry schools, and students should include General Distribution requirements in addition to the following required courses:

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

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

Mathematics:
- MAC 2243 (4)
- STA 3023 (4)

Physics:
- PHY 2050 (3)
- PHY 2050L (1)

In addition, some schools require MAC 2244, PCB 3700, ZOO 3713, CHM 3211, CHM 3211L, BCH 3033, PSY 4743C, PHY 2012, PSY 3013, PSY 3213, and a social sciences elective.
CHM 3210 (3)   CHM 3211 (3)
CHM 3210L(2)   CHM 3211L (2)

Physics:
PHY 2050 (3)    PHY 3040 (3)
PHY 2050L(1)    PHY 3040L (1)
PHY 2051 (3)    PHY 3041 (3)
PHY 2051L (1)   PHY 3041L (1)

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

   Biology:
   PCB 3063 (3)    PCB 4253C (4)    MCB 3010C (4)
   PCB 4023C (4)   ZOO 3713C (4)    PCB 4184C (4)

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

   Mathematics:
   STA 3023 (4)    MAC 1104 (4)
   MAC 2243 (4)    MAC 3411 (4)
   MAC 2244 (4)    MAC 3412 (4)

5. Completion of the General Distribution requirements of the college of Natural Sciences as approved by the student's adviser.

6. At least 30 credit hours with letter grades earned in the College of Natural Sciences.

7. The last 30 credit hours prior to transfer to a medical or dental school in residence at the University of South Florida.

Application for the baccalaureate degree must be received no later than two years from the date of entrance into the professional school.

Postbaccalaureate Premedical Sciences Program

A special two-year non-degree program is administered by the Preprofessional Sciences Committee of the College of Natural Sciences for students who hold a baccalaureate degree and are seeking to improve their academic record for application to professional schools. The program is particularly for previously rejected applicants who need to improve their grade point average and demonstrate their ability to perform well in the sciences. Students in the program will have the advantage of priority registration in the College of Natural Sciences, and upon completion of the program will be evaluated by the Preprofessional Sciences Committee in a letter sent to the professional schools where students are applying.

In order to be admitted to the program, students must have a baccalaureate degree and be interviewed by the Preprofessional Sciences Committee. Students must demonstrate to the Committee potential for success through this program by their recent improvement in academic record, performance in science courses, previous test scores, and motivation for the profession. Students who do not have a baccalaureate degree from the University of South Florida must provide two letters of recommendation.

Once admitted to the program students must complete a minimum of 15 hours per semester (excluding summers) of courses approved by the Preprofessional Sciences Committee with a minimum grade point average of 3.3 each semester. An approved schedule would typically include at least three rigorous science courses. Courses will generally be at the undergraduate level, selected from those listed in the preprofessional sciences program or other advanced sciences. Students should expect to complete at least one year in the program prior to re-application to professional schools, but a second year may be necessary for some students. Students lacking familiarity with the profession will be expected to obtain adequate exposure while enrolled in the program.

GRADUATE LEVEL DEGREE PROGRAMS

Postbaccalaureate Premedical Sciences Program

A special two-year non-degree program is administered by the Preprofessional Sciences Committee of the College of Natural Sciences for students who hold a baccalaureate degree and are seeking to improve their academic record for application to professional schools. The program is particularly for previously rejected applicants who need to improve their grade point average and demonstrate their ability to perform well in the sciences. Students in the program will have the advantage of priority registration in the College of Natural Sciences, and upon completion of the program will be evaluated by the Preprofessional Sciences Committee in a letter sent to the professional schools where students are applying.

In order to be admitted to the program, students must have a baccalaureate degree and be interviewed by the Preprofessional Sciences Committee. Students must demonstrate to the Committee potential for success through this program by their recent improvement in academic record, performance in science courses, previous test scores, and motivation for the profession. Students who do not have a baccalaureate degree from the University of South Florida must provide two letters of recommendation.

Once admitted to the program students must complete a minimum of 15 hours per semester (excluding summers) of courses approved by the Preprofessional Sciences Committee with a minimum grade point average of 3.3 each semester. An approved schedule would typically include at least three rigorous science courses. Courses will generally be at the undergraduate level, selected from those listed in the preprofessional sciences program or other advanced sciences. Students should expect to complete at least one year in the program prior to re-application to professional schools, but a second year may be necessary for some students. Students lacking familiarity with the profession will be expected to obtain adequate exposure while enrolled in the program.

College Regulations Governing Graduate Study

The following regulations are in addition to the University regulations governing study found on pages 48-53.

Admission. The College of Natural Sciences requires a minimum of a "B" average in the last two years of undergraduate work and a minimum of 1000 (1100 for marine science applicants) on the Graduate Record Examination for admission to any of its graduate programs.

Applicants with a "B" average in the last two years of undergraduate work or a minimum of 1000 on the Graduate Record examination may be considered for provisional admission subject to departmental recommendation.

Applicants who do not meet either of the above conditions must meet the 10% exception criteria described on page 48 and must have the recommendation of the department offering the degree to be considered for provisional admission.

Enrollment Levels. A student who enrolls in eight or more credit hours leading to a graduate degree is classified as a fulltime student.

Once a major professor has been assigned and/or a student occupies or utilizes significant space or facilities for research or analogous scholarly activity directly pertinent to the generation of his/her thesis, he/she shall enroll for not less than three hours of research and/or dissertation each semester other than the summer semester, except that no student shall be required for the purposes of this rule to enroll for more than eight hours total per semester. Additional requirements may be imposed in any department in the college.

A student must be registered for an appropriate load (in no case fewer than three hours) in the college for the semester in which all degree requirements are satisfactorily completed.

Grade Levels. To remain in good standing, a graduate student must maintain a cumulative grade point average of at least 3.0. A graduate student whose cumulative grade point average falls below 3.0 will be placed on probation and must meet the college probation requirements to be reinstated to good standing. A graduate student who receives three grades below "B" in structured courses required by his advisory committee to meet the structured course requirements of the degree shall be dismissed from the program.

Master's Degree Programs

The College of Natural Sciences offers graduate programs leading to the Master of Arts degree in the fields of Botany (BOT), Mathematics (MTH), Microbiology (MIC), Physics (PHY), and Zoology (ZOO); and a Master of Science degree in Chemistry (CHM), Geology (GLY), and Marine Science (MSC).

Doctor's Degree Programs

The College of Natural Sciences offers three programs leading to the degree of Doctor of Philosophy:

Biology (BIO)—This program leads to the Ph.D. in Biology, including the fields of Marine Biology, Systematics, Behavior, Ecology, and Physiology.

Chemistry (CHM)—This program leads to the Ph.D. in Chemistry, including the fields of Analytical, Biochemistry, Inorganic, Organic and Physical Chemistry.

Mathematics (MTH)—This program leads to the Ph.D. in Pure and Applied Mathematics.

Marine Science (MSC)—This program leads to the Ph.D. in Marine Science.

Oceanography (OCE)—This cooperative program with Florida State University leads to the Ph.D. in Oceanography.
Registration in Research, Thesis and/or Dissertation Courses. Registration in courses entitled Directed Research: Master’s, or Dissertation: Doctoral must be with the approval of the major professor and the concurrence of the departmental graduate studies coordinator and must be commensurate with each student’s research plan. A student who enrolls in courses entitled Thesis: Master’s but does not submit a thesis or who enrolls in Dissertation: Doctoral but does not submit a dissertation will not be certified for graduation.

Master’s Program.

A graduate student working on a master’s degree in a program in the College of Natural Sciences which requires a thesis must register in course 6971 when engaged in research, data collection, or writing activities relevant to the master’s thesis. Advisers should assign the number of credits in this course appropriate to the demands made on faculty, staff, and university facilities, but in no event will the total number of earned dissertation credits be less than six.

Ph.D. Program

Following admission to candidacy, a graduate student in a Ph.D. program in the College of Natural Sciences must enroll in course 7980 when engaged in research, data collection, or writing activities relevant to doctoral dissertation. Advisers should assign the number of credits in this course appropriate to the demands made on faculty, staff, and university facilities, but in no event will the total number of earned thesis credits be less than six.

Additional Regulations. Additional regulations concerning graduate study may be found in the departmental sections of this Catalog or are on file in the Office of the Dean. The student is responsible for meeting all requirements of his/her degree program.

TEACHER EDUCATION PROGRAMS

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

B.A. Degree Program for Secondary School Teachers:

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

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

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

2. The student may complete requirements of the Interdisciplinary Natural Sciences major with concentration in Biology, Chemistry, Physics, and Mathematics. A complete description of this major is found on page 129. This major is particularly appropriate for Science Education majors (SCE). Prospective students should consult the College of Education portion of this catalog under the heading “Science Education (SCE)” for the required education courses and sample programs.

M.A. Degree Program for Secondary School Teachers:

The College of Natural Sciences in cooperation with the College of Education offers the M.A. degree in mathematics (MAE) and in Science (SCE). In science, concentrations are available in biology, chemistry, and physics. Because requirements exist in both colleges the student will have an adviser in each college. At the outset the planned courses in mathematics and science must be approved by the student’s adviser in the College of Natural Sciences.

The University requirements for the M.A. degree are found on page 48. Mathematics majors must complete a minimum of 34 semester hours; science majors must complete at least 18 semester hours in the discipline of concentration. For requirements in education the student should consult the College of Education portion of this catalog.

M.A. Degree Program for Junior College Teachers:

The M.A. degree program for junior college teachers is available in the College of Natural Sciences with specializations in biology, chemistry, geology, mathematics, or physics.

The student may complete the M.A. degree in a program offered jointly by the College of Natural Sciences and the College of Education. This program requires 24 hours in mathematics or science specialization courses which must be approved by the student’s adviser in the College of Natural Sciences. Credit hours are also required in professional education courses. Advanced internship work is required in internship depending on the amount of teaching experience of the student. For requirements in education, the student should consult the College of Education portion of the catalog.

CURRICULA

- BIOLOGY (BIO/BOT/MIC/ZOO)

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

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

Requirements for the B.A. Degree

1. Department of Biology Courses

   A. Biology Core Courses (Required for all B.A. degrees, 15 cr. hrs.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 2010C</td>
<td>(4)</td>
<td></td>
</tr>
</tbody>
</table>

   One of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOT 2010C</td>
<td>(4)</td>
<td></td>
</tr>
<tr>
<td>ZOE 2010C</td>
<td>(4)</td>
<td></td>
</tr>
<tr>
<td>MCB 3010C</td>
<td>(4)</td>
<td></td>
</tr>
</tbody>
</table>

   plus

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCB 3063</td>
<td>(3)</td>
<td></td>
</tr>
<tr>
<td>and</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCB 4023C</td>
<td>(4)</td>
<td></td>
</tr>
</tbody>
</table>

   or

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCB 3063</td>
<td>(3)</td>
<td></td>
</tr>
<tr>
<td>PCB 4023C</td>
<td>(4)</td>
<td></td>
</tr>
</tbody>
</table>
B. Individual Degree Requirements

**BIOLOGY MAJOR** (BIO) (25 cr. hrs.)

One of the following:
- PCB 4743C (4)
- BOT 4503 (4)
- MCB 4404 (4)

*plus one of the following:*
- PCB 3183C (4)
- PCB 4253C (4)

In addition, a student must choose two courses from the following list:
- PCB 5235C (3)
- PCB 5525 (3)
- ZOO 5235 (4)

ZOO 3713C (4) or BOT 4223C (3)
- PCB 6816 (3)
- PCB 5725C (4)
- PCB 5835C (3)

The remaining credits may be taken from courses numbered 4000 or above in the Biology Department. A maximum of 4 credits in Biochemistry may be applied toward the Biology major.

**BOTANY MAJOR** (BOT) (25 cr. hrs.)

BOT 2010C (0)
- BSC 2010C (4) or MCB 3010C (4)
- BOT 4503 (4)
- PCB 4043C (3) or BOT 5605C (3)
- BOT 4933 (1)

Of the remaining credits, not less than 8 must be selected from structured Botany (BOT) courses at the 4000 level or above.

**MICROBIOLOGY MAJOR** (MIC) (23-26 cr. hrs.)

BSC 2010C (4) or ZOO 2010C (4)
- MCB 3010C (0)
- MCB 4115 (5)
- APB 4053C (4)
- PCB 4404 (4)
- MCB 4505 (3)
- MCB 4934 (1)

One of the following:
- APB 5575C (4)
- BOT 4434C (3)
- BOT 5404 (3)
- ZOO 5235C (4)

**ZOOLOGY MAJOR** (ZOO) (23-26 cr. hrs.)

ZOO 2010C (4)
- BOT 2010C (4) or MCB 3010C (4)
- PCB 4043C (3)
- PCB 4743 (4)
- PCB 4674 (3)

Three (3) additional structured courses from the Zoology (ZOO, PCB, ENY) or Biology (BSC, PCB courses listed in this catalog).

II. Supporting Courses in the Natural Sciences (Required for all B.A. degrees, 30-38 cr.)

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

**Plus**
- CHM 3200 (4)
- CHM 3210L (2)

**Mathematics**
- MAC 2243 (4)
- MAC 2244 (4)
- STA 2023 (4)

**Physics**
- 8 credits in introductory physics.

III. General Distribution Requirements (Required for all B.A. Degrees, 18 cr., assuming waivers of Areas III & IV). Each student is required to satisfy the General Distribution requirements of the College of Natural Sciences (see page 120). The selection of courses within the requirement is to be done in conference with Biology Department advisors.

IV. Liberal Education Electives

The student must satisfy 15 hours of liberal education electives as described in item 3 of the graduation requirements of the College of Natural Sciences (see page 120).

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

Teacher Education Programs:

For information concerning the degree programs for secondary school teachers and junior college teachers, see page 86 and 90 of this catalog.

Marine Biology:

The field of marine biology is especially important in Florida, and there is a good demand for trained personnel. Several faculty members in the department teach courses and conduct research in this area. Under the guidance of the department they may do so by taking marine-oriented courses offered within the department. Appropriate courses include:

- BOT 5185 (Marine Botany)
- BOT 5405 (Phycology)
- ZOO 5203C (Introductory Invertebrate Zoology)
- ZOO 5455C (Ichthyology)
- ZOO 5555C (Marine Animal Ecology)
- ZOO 5815C (Biogeography)

The Biology Department offers M.A. degrees and the Ph.D. degree which allow specialization in marine biology.

Requirements for the M.A. Degree:

General requirements for graduate work are given on page 51. Major programs are offered in Botany, Microbiology, and Zoology. The M.A. degree requires completion of structured coursework, a research thesis or a review paper, and passing a comprehensive examination.

It is expected that students will have had undergraduate training comparable to that of a USF undergraduate in biology. Any deficiencies completed after admission to the graduate program cannot be used to complete graduate requirements.

The departmental graduate coordinator functions as the student's adviser until the student makes arrangements for a faculty member to serve as major adviser. The selection of a major adviser includes acceptance of the student by the faculty member. The major adviser and two additional faculty constitute the student's supervisory committee which must be established within two semesters after matriculation. Failure to do so will be cause for dismissal. The supervisory committee must be approved by the departmental chairperson and the college dean.

For students enrolled in the thesis program, a 30 credit hour minimum is required at the 5000-6000 level; 16 must be at the 6000 level or above; 20 of the 30 credit hours must be in formally structured courses of which 15 must be biology; 8 of the 15 credit hours must be at the 6000 level or above. All students in the thesis program must complete the graduate seminar (BSC 6935). A maximum of 10 hours of combined thesis, research, and seminar may apply toward degree.

For students enrolled in the non-thesis program, a 30 credit hour minimum is required at the 5000-6000 level; 26 credits must be informally structured courses. 16 credits must be at the 6000 level or above; 15 must be in biology.

A final comprehensive examination is required for all students. This examination is open to all departmental faculty and is normally taken after the completion of formal course work and at least one semester before thesis presentation.

In some cases, the ability to translate pertinent scientific literature from a foreign language must be demonstrated before taking the comprehensive examination.

Requirements for the Ph.D. Degree:

General requirements are given on page 53. A doctoral program in biology is offered. Areas of specialization for the Ph.D. are marine biology, ecology (tropical ecology, population ecology, and physiological ecology), molecular biology, physiology (cellular physiology, microbial physiology, neurophysiology), systematics and behavior.
It is expected that students will have had undergraduate training comparable to that of a USF undergraduate in biology. Any deficiencies completed after admission to the graduate program cannot be used to complete graduate requirements.

The departmental graduate coordinator functions as the student’s adviser until the student makes arrangements for a faculty member to serve as major adviser. The selection of a major adviser includes acceptance of the student by the faculty member and must be done within 2 semesters after matriculation. Applicants are strongly urged to contact faculty conducting research in the student’s area of interest. The major adviser and four additional faculty constitute the student’s supervisory committee. The supervisory committee must be approved by the departmental chairman and the college dean.

Twenty credit hours are required in structured graduate-level courses, as well as any additional courses necessary to the needs of the student’s program as determined by the supervisory committee. A maximum of six hours may be waived with the approval of the supervisory committee if the student has earned this amount of graduate credit at another recognized university. Individuals who receive the M.A. degree from the Department of Biology at USF may waive 10 credits with the approval of the supervisory committee. A total of 90 credits above the baccalaureate must be earned; this includes any graduate credit earned prior to admission to the doctoral program.

Doctoral students must pass a qualifying examination. The written and the oral portions must be taken within 4 semesters after matriculation. Any language or other technical skills required by the supervisory committee must be completed within 4 semesters after matriculation. If the doctorate degree is not awarded within five years after passing the qualifying examination, the examination must be retaken and passed.

The student is eligible for admission to candidacy after completion of structured course requirements and passing the qualifying examinations, upon recommendation of the supervisory committee and approval of the Dean of the College and the Director of Graduate Studies. Students must complete all requirements for admission to candidacy by the end of the second year after matriculation.

A public seminar presenting the dissertation is required. A final oral examination administered and evaluated by the supervisory committee emphasizes the dissertation and the student’s general field of research.

Graduate Application Deadlines:
Applicants must be completed by February 15 for fall applicants who wish to be considered for assistantships. All other applications must be completed by the twelfth week of the semester preceding the one for which application is made.

Applicants must have a score of at least 640 on the advanced test, and a combined score of at least 1100 on the aptitude portion of the Graduate Record examination.

**CHEMISTRY (CHS/CHM/CHC)**

The Department of Chemistry offers three degrees at the baccalaureate level, Bachelor of Arts degree in Chemistry, Bachelor of Science degree in Chemistry, Bachelor of Science degree in Chemical Engineering, and two degrees, Master of Science and Doctor of Philosophy, each with specialization in the areas of analytical chemistry, biochemistry, inorganic chemistry, organic chemistry, and physical chemistry, at the graduate level. The chemistry faculty is comprised of 27 full-time senior faculty members, all of whom hold the Ph.D. degree. A comparable number of teaching assistants, generally graduate students enrolled in the Ph.D. program, serve as instructors in the laboratories. The combination of a large and strong faculty with a wide variety of courses and electives provides students with programs of study which can be tailored to fit individual needs while maintaining a sound background in all general aspects of chemistry.

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

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

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

In graduate work, the excellent physical facilities and very low student-teacher ratio combine to afford unique opportunities for advanced study in chemistry. In addition to the five traditional fields, analytical chemistry, biochemistry, inorganic, organic, and physical chemistry, research opportunities are also available in such interdisciplinary and specialized areas as bio-organic and bio-inorganic chemistry, clinical chemistry, environmental chemistry, Fourier Transform nuclear magnetic resonance, lasers and photo-chemistry, marine chemistry, photoelectron spectroscopy (ESCA), and pharmaceutical chemistry.

**Requirements for the Baccalaureate Degrees**

**I. Chemistry Courses**

<table>
<thead>
<tr>
<th>B.A. CHEMISTRY (CHM) (39 cr. hrs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 2045 (3)</td>
</tr>
<tr>
<td>CHM 2045L (1)</td>
</tr>
<tr>
<td>CHM 2046 (3)</td>
</tr>
<tr>
<td>CHM 2046L (1)</td>
</tr>
<tr>
<td>CHM 3120C (4)</td>
</tr>
<tr>
<td>CHM 3210 (3)</td>
</tr>
<tr>
<td>CHM 3210L (2)</td>
</tr>
<tr>
<td>CHM 3211 (3)</td>
</tr>
<tr>
<td>CHM 3211L (2)</td>
</tr>
<tr>
<td>Chemistry electives (3000 level or above; may include not more than one hour of CHM 4970)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B.S. CHEMISTRY (CHS) (46 cr. hrs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCH 3033 (3)</td>
</tr>
<tr>
<td>BCH 2045 (3)</td>
</tr>
<tr>
<td>CHM 2045L (1)</td>
</tr>
<tr>
<td>CHM 2046 (3)</td>
</tr>
<tr>
<td>CHM 2046L (1)</td>
</tr>
<tr>
<td>CHM 3120C (4)</td>
</tr>
<tr>
<td>CHM 3210 (3)</td>
</tr>
<tr>
<td>CHM 3210L (2)</td>
</tr>
<tr>
<td>CHM 3211 (3)</td>
</tr>
<tr>
<td>CHM 3211L (2)</td>
</tr>
<tr>
<td>CHM 4060 (1)</td>
</tr>
<tr>
<td>CHM 4130C (4)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B.S. CLINICAL CHEMISTRY (CHC) (49 cr. hrs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCH 3033 (3)</td>
</tr>
<tr>
<td>BCH 3033L (2)</td>
</tr>
<tr>
<td>BCH 2045</td>
</tr>
<tr>
<td>BCH 2045L (1)</td>
</tr>
<tr>
<td>CHM 2046L (3)</td>
</tr>
<tr>
<td>CHM 3120C (4)</td>
</tr>
<tr>
<td>CHM 3210 (3)</td>
</tr>
<tr>
<td>CHM 3210L (2)</td>
</tr>
<tr>
<td>CHM 3211 (3)</td>
</tr>
<tr>
<td>CHM 3211L (2)</td>
</tr>
<tr>
<td>CHM 4200 (1)</td>
</tr>
<tr>
<td>CHM 4300 (5)</td>
</tr>
</tbody>
</table>

*CHM 2055-CHM 2056C (10) may be substituted for CHM 2045, CHM 2046, CHM 2045L, CHM 2046L, and CHM 3120C (12). This reduces by two the credit hours of required chemistry courses in each degree program.*

**II. Supporting Courses in the Natural Sciences**

**B.A. CHEMISTRY (CHM) (26 cr. hrs.)**

<table>
<thead>
<tr>
<th>MAC 2243 (4)</th>
<th>PHY 2050 (4)</th>
<th>PHY 2051 (4)</th>
</tr>
</thead>
</table>
MAC 2244 (4)  PHY 2050L (1)  PHY 2051L (1)  Electives (must be acceptable for credit towards a Natural Science College discipline major) (8)

B.S. CLINICAL CHEMISTRY (CHC) (38-42 cr. hrs.)

BSC 2101C (4)  MCB 3010C (4)
ZOO 2010C (4)  PHY 4744C (3)
COC 3300 (3)
MAC 3281 (3)  or  MAC 3411 (4)
MAC 3282 (3)  or  MAC 3412 (4)
MAC 3283 (3)

PCB 3700 (5)  PCB 4743C (4)

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

MAC 3281 (3)  MAC 3411 (4)
MAC 3282 (3)  MAC 3412 (4)
MAC 3283 (3)  MAC 3413 (4)
PHY 3040 (3)  PHY 3041 (3)
PHY 3040L (1)  PHY 3041L (1)

Physics elective (3000-4000 level except PHY 3020) (3)

The required sequence of Chemistry courses should be started immediately in the freshman year and the mathematics and physics requirements should be completed before the junior year so that CHM 3400 (B.A. degree) or CHM 4410 (B.S. degree) can be commenced at that time. CHM 4410 is a prerequisite also to other advanced courses required for the B.S. degree in chemistry.

III. General Distribution Courses (40 cr. hrs. excluding waivers)

The student is required to complete the General Distribution requirements of the College of Natural Sciences. (see page 120.)

IV. Liberal Education Electives

The student must satisfy 15 hours of liberal education electives as described in item 3 of the graduate requirements of the College of Natural Sciences. (See page 120.)

V. Free Electives* (including General Distribution waivers)

B.A. CHEMISTRY (CHM); 24 cr. hrs.
B.S. CHEMISTRY (CHS); 20-23 cr. hrs.
B.S. CLINICAL CHEMISTRY (CHC); 0-3 hrs.

In choosing elective courses students are urged to consider additional advanced courses in physics and mathematics as well as courses in the closely allied sciences such as biology and geology. Additional courses in computer programming, economics, management, engineering statistics, writing, and other applied disciplines are strongly recommended to strengthen the degree for subsequent professional employment.

Transfer Credit

It is strongly recommended that students transferring from community/junior colleges to the University of South Florida complete whole sequences of chemistry courses, such as general and organic chemistry, before the transfer. Even though courses may carry the same common course number, topics may vary sufficiently from school to school to leave the transfer student ill-prepared to proceed within a sequence.

Teacher Education Programs:

For information concerning the degree programs for secondary school teachers and junior college teachers, see page 86 and 90 of this Catalog.

Requirements for the M.S. Degree:

General requirements for graduate work are given on page 48.

All entering graduate students who have no advanced work beyond a B.A. or B.S. will be required to take the core courses in each of five areas: Analytical, Biochemistry, Inorganic, Organic, and Physical Chemistry. This requirement can be waived by recommendation of the supervisory committee on the basis of past work, performance on a diagnostic test, or substitution of more comprehensive and advanced courses. The required core courses are:

BCH 5065  CHM 5425  CHM 6150
CHM 5225  CHM 5621

Qualifying Requirements

All entering graduate students will be required to pass Qualifying Examinations in three of the five divisional areas—Analytical, Biochemistry, Inorganic, Organic, and Physical Chemistry, which are set during the week prior to the first term of enrollment. These examinations are graded high-pass, pass, and fail and passes can be applied to the M.S. and Ph.D. comprehensive examination requirement. A failure indicates the student is deficient and the means for alleviation will be determined by the Department Graduate Council.

A second set of examinations will be administered at the end of the student’s first academic year (two semesters). To qualify for the M.S. the student must pass three (3) of the examinations and one of the passes must be in his/her area of specialization. These three passes constitute his/her comprehensive examination requirement.

The declared M.S. student must satisfy the comprehensive examination requirement within one academic year of his/her initial enrollment.

Course Requirements

Each student is required to pass graduate level core courses (3 semester hours each) in all five divisional areas as described above. These contribute to the minimum course requirement of 30 semester hours of which 16 semester hours must be at the 6000 level with 10 of these in formal regularly scheduled courses.

Final Thesis Defense

Completion of the thesis research and preliminary approval of the thesis by the supervisory committee, the M.S. candidate will be orally examined by the committee on the results of his/her research.

Requirements for the Ph.D. Degree

Qualifying Requirements

Each student will be required to pass Qualifying Examinations in three of the five divisional areas—Analytical, Biochemistry, Inorganic, Organic, and Physical Chemistry as described under the M.S. degree requirements. Qualifying requirements must be completed within one academic year (2 semesters) of initial enrollment.

Course Requirements

Each student is required to pass graduate core courses of 3 semester hours each in all five divisional areas as described under the M.S. degree requirements. These will contribute to the minimum course requirement of 90 semester hours of which 12 must be in structured 6000-level chemistry courses.

Language Requirements

A reading knowledge of the chemical literature in any two of the languages—German, Russian, and French (or any other language approved as appropriate by the supervisory committee) must be demonstrated. As an alternative to one or both of the language requirements the student may demonstrate proficiency in skills or specializations outside the discipline of chemistry but pertinent to scholarly work in chemistry.

Major Comprehensive Examination

A comprehensive examination must be passed in the student’s area of specialization. This examination must be passed within two (2) years from the end of the student’s first academic year and one year before graduation.

Admission to Candidacy

Completion of the foregoing requirements admits the student to candidacy for the Ph.D.

The supervisory committee of doctoral students must evaluate the student for admission into candidacy by the end of the three years (six semesters after matriculation.) If the committee does not recommend admission to candidacy by that time, it may dismiss the student or grant an extension for the immediately subsequent semester. At the end of the additional semester (the 7th semester enrollment, excluding summers), the committee must recommend that the student be admitted to candidacy or dismissed from the program.

Final Dissertation Defense

When the Supervisory Committee has inspected the final draft (final unbound form; typewritten and ready for duplication with the exception of possible minor corrections) of the dissertation and finds it suitable for presentation, the Major Professor will complete a form requesting the scheduling and announcing of the final oral examination. The request form will be submitted via the department chairperson to the College Dean and the Director of Graduate Studies for approval. The final oral examination must be held at least three weeks before the end of the semester in which the student is to be awarded the degree. The required copies of the completed dissertation signed by the Committee must be received by the Dean of the Graduate School at least two weeks before the end of the semester.
The Examination Committee shall consist of a chairperson and the members of the student's Supervisory Committee including the Major Professor(s). The Chairperson of the Examination Committee shall be appointed by the Dean of the College and shall not be a member of the student's Supervisory Committee or the department or program in which the degree is sought.

The candidate may expect questions concerning the details and significance of the research after the oral presentation which is open to the public. Final approval of the candidate's degree will require approval by a majority of the Examination Committee, which shall include the Chairperson.

**GEOLOGY (GLY)**

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

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

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

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

I. **Geology Courses** (30 sem. hrs.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLY 2016</td>
<td>4</td>
</tr>
<tr>
<td>GLY 3610</td>
<td>4</td>
</tr>
<tr>
<td>GLY 4550</td>
<td>3</td>
</tr>
<tr>
<td>GLY 2100</td>
<td>4</td>
</tr>
<tr>
<td>GLY 4200</td>
<td>4</td>
</tr>
<tr>
<td>GLY 3400</td>
<td>4</td>
</tr>
<tr>
<td>GLY 4220</td>
<td>5</td>
</tr>
</tbody>
</table>

A minimum of 2 sem. hrs. from:

GLY 4920

II. **Supporting Courses** (22-28 sem. hrs.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 2045</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2045L</td>
<td>1</td>
</tr>
<tr>
<td>CHM 2046</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2046L</td>
<td>1</td>
</tr>
</tbody>
</table>

b. Two courses in mathematics at 2000 level or above (6-8 sem. hrs.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 2010</td>
<td>4</td>
</tr>
<tr>
<td>BOT 2010C</td>
<td>4</td>
</tr>
<tr>
<td>ZOO 2010C</td>
<td>4</td>
</tr>
<tr>
<td>PHY 2050-2050L</td>
<td>5</td>
</tr>
<tr>
<td>PHY 3040-3040L</td>
<td>4</td>
</tr>
</tbody>
</table>

III. **General Distribution Courses** (40 sem. hrs. excluding waivers.)

The student is required to satisfy the General Distribution requirements of the College of Natural Sciences (See page 120).

IV. **Liberal Education Electives**

The student must satisfy 15 hours of liberal education electives as described in item 3 of the graduation requirements of the College of Natural Sciences (see page 120).

V. **Free Electives** (Including Distribution waivers) (29-35 sem. hrs.)

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

I. **Geology** (40-42 sem. hrs.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLY 2016</td>
<td>4</td>
</tr>
<tr>
<td>GLY 3610</td>
<td>4</td>
</tr>
<tr>
<td>GLY 4200</td>
<td>4</td>
</tr>
<tr>
<td>GLY 3400</td>
<td>4</td>
</tr>
<tr>
<td>GLY prefixed structured electives</td>
<td>6</td>
</tr>
</tbody>
</table>

A minimum of 2 sem. hrs. from:

GLY 4920

Field Geology requirement (4-6 sem. hrs.) can be fulfilled by taking GLY 4750 (3) and GLY 5932 (2) or by taking geology summer field course at another institution.

II. **Supporting Courses** (22-26 sem. hrs.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 2045</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2045L</td>
<td>1</td>
</tr>
<tr>
<td>CHM 2046</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2046L</td>
<td>1</td>
</tr>
</tbody>
</table>

MAC 3281 (3)

MAC 3282 (3)

MAC 3411 (4)

MAC 3412 (4)

PHY 3040 (3)

PHY 3040L (1)

PHY 3041L (1)

III. **General Distribution Courses** (40 sem. hrs. excluding waivers.)

The student is required to satisfy the General Distribution requirements of the College of Natural Sciences, (See page 120).

V. **Free Electives** (Including Distribution waiver) 19-25 sem. hrs.

The student will choose, in consultation with his/her Geology advisor, such courses in the College of Natural Sciences that support his/her major interest in the field of Geology. Courses in computer programming and additional Mathematics are of particular value.

Those students who anticipate continuing for a doctorate in graduate school are encouraged to take a foreign language, preferably French, German, or Russian.

All geology majors are strongly urged to take a course in technical writing.

All entering student anticipating a major in Geology is advised to enroll in:

GLY 2016

CHM 2045

CHM 2046

CHM 2100

CHM 2045L

CHM 2046L

in the freshman year and to seek curriculum counseling with a Geology adviser.

**Minor in Geology**

A minor in geology consists of 16 credit hours and must include GLY 2016 and 2100. Additional courses approved by the geology advisor, are designed to complement the student's major program. Only those courses which are acceptable toward the major in geology may be used toward the minor.

**Teacher Education Programs:**

Prospective elementary and secondary school teachers desiring to teach science should include basic courses in Geology and related sciences as part of their curriculum.

**Requirements for the M.S. degree:**

Requirements for admission to the Graduate School and general graduate curriculum guidelines are given on page 48).

Students are admitted for graduate work in Geology if they present the requisite background in Geology and supporting sciences. The bachelor's degree with a major in Geology or a major in other sciences with strong supporting program in geosciences is required. Students who wish to enter the graduate program in Geology without the proper background will be required to take some undergraduate courses without receiving credit toward their master's program. In addition, a formal summer field course or equivalent professional experience is required.

The curriculum for a Geology graduate student will vary depending on the area of interest of the individual. Course work for the degree will be determined by the thesis committee after consultation with the student.

A minimum of 30 semester hours plus thesis (GLY 6971) is required for the master's degree of which at least 16 must be in courses numbered 6000 and above. 24 semester hours must be in structured courses, 10 of which must be 6000 of above. All graduate students must take Graduate Seminar (GLY 6931) at least two times and GLY 6933 at least once.

All students must have completed one course in each of the following areas at either the undergraduate or graduate level; geochemistry, geophysics, geostatistics and igneous and metamorphic petrology or their equivalents. All full-time students must register for at least one structured course per semester during their first two years. A written thesis in the student's field of specialization is required. A comprehensive oral qualifying exam is to be taken by the end of the first semester in the program. An oral thesis defense and a public presentation of the thesis are also required.
INTERDISCIPLINARY NATURAL SCIENCES (INS)

The Bachelor of Arts in the Interdisciplinary Natural Sciences major is designed for majors in an interdisciplinary program in the College and for majors in Science Education and Mathematics Education. For information on teacher certification in science or mathematics, prospective teachers should consult the section entitled Teacher Education Programs on page 124, and also consult the College of Education section of the catalog.

The requirements for graduation for this degree are the same as those contained on page 120 except that item 1 of the requirements is altered as follows:

1a. For Science Education and Mathematics Education Majors only completion of a major consisting of a minimum of 45 hours in College of Natural Sciences courses applicable to a major in the College. In these hours there must be a minimum of 24 credit hours in a discipline of major concentration and a minimum of 16 credit hours in supporting courses outside the discipline of major concentration. At least two of the electives courses must be at the 3000 level or above. The student must earn a grade of “C” or better in each course in the major concentration and in each supporting course.

1b. For College of Natural Sciences Majors only completion of a minimum of 45 hours in College of Natural Sciences courses applicable to a major in the College. In these hours there must be a minimum of 24 credit hours in a discipline of major concentration and a minimum core of supporting courses comprising a calculus sequence and the introductory science sequence from each department in the College outside the discipline of major concentration. Courses in the supporting core must be taken from the following:

- BSC 2010 C and one of the following:
  - BOT 2020
  - ZOO 2010C
  - MCB 3010C
  - CHM 2045
  - CHM 2045L or CHM 2046
  - GYL 2056
  - GYL 2100
  - MAC 2243 or MAC 2244
  - MAC 3411 or MAC 3412 or MAC 3413 or MAC 3281 or MAC 3282 or MAC 3283
  - PHY 2050 or PHY 2050L or PHY 2051 or PHY 2051L
  - PHY 2050 or PHY 2050L or PHY 2050 or PHY 2050L
  - PHY 2051 or PHY 2051L

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

MARINE SCIENCE (MSC)

Marine Science is a unique interdisciplinary department in the College of Natural Sciences of the University of South Florida. It is devoted to research, graduate instruction, and public sevice in biological, chemical, geological, and physical oceanography. More than sixty M.S. degrees have been awarded since the formation of the Department in 1967. In July 1981, the Florida State University System Board of Regents approved an independent Ph.D. program for the Department of Marine Science to complement the previously existing cooperative program with the Department of Oceanography of Florida State University (FSU). Research emphasis will continue to be on interdisciplinary efforts in marine biology, chemistry, geology, and physics. Some students, particularly in physical oceanography, may fine it advantageous to work through the cooperative program with FSU.

Marine Science occupies a large building (82,000 square feet) located on a peninsula at Bayboro Harbor, adjacent to downtown St. Petersburg. The harbor is able to accommodate any ship in the U.S. fleet of oceanographic vessels, making the Department ideally situated for an oceanographic research operations. Construction of a new machine shop and warehouse building will begin in the Fall of 1981.

The Department operates a number of boats ranging in size up to 36 feet. A larger ship, the 65 foot R/V Bellowes, is generally available through the Florida Institute for Oceanography (FIO), located in the same building as the Department. FIO serves faculty members at all the institutions in the State University System by providing shiptime, equipment, and, at times, coordination for multi-institutional proposals. The Department’s specialized laboratories include those for trace metal analysis, water quality, organic and isotope geochemistry, optical oceanography, sedimentology, micropaleontology, benthic ecology, phylogeny, bacteriology, ichthyology, planktonology, and a flume facility for interdisciplinary boundary layer studies.

Student Admission

Prospective students with baccalaureate degrees in biology, chemistry, geology, physics, or mathematics generally possess an adequate course work background for undertaking graduate studies in marine science. Those with such degrees who have an upper-level undergraduate grade point average of 3.0 or better and a Graduate Record Examination score of 1100 or more (verbal + quantitative) are encouraged to apply for the Master of Science program. In addition to meeting the GPA and GRE standards noted above, other factors such as the research interests of the prospective student, and the availability of suitable research grants, will be considered. Admission to the Ph.D. program will be more selective than for the M.S. program.

The Department has graduate fellowship and assistantship funds at its disposal, as well as out-of-state tuition waivers; and most of the individual faculty members are able to hire students to work part time on research grants. Those in need of financial support are urged to have their applications completed by March 1. Awards for the 1981-1982 academic year will normally reach the Department by March 1; for those wishing to enter the Fall Semester, materials must be in by October 15. Items required for a complete application are: (1) official transcripts of grades, (2) GRE scores (verbal + quantitative), (3) three letters of recommendation which you solicit, and (4) an essay describing your research interests in marine science. Since items (1) and (2) should be sent directly to the Graduate Admissions office in Tampa, sufficient time should be allowed for their processing so that they are received by the Department before the review dates. Only items (3) and (4) are sent directly to the Marine Science Department. Applications which are not complete by the review dates will not receive review but will be automatically updated to the next semester (Fall or Spring only).

Requirements for the M.S. Degree

General requirements are given on pages 48-53. A minimum of 32 credits must include OCC 5050, OCG 5050, OCP 5051, and OCB 5050. A grade of "B" or better must be obtained in each of these core courses. The student may emphasize biological, chemical, geological, or physical oceanography through his thesis research and course work. A thesis is required, but a foreign language is not.

Requirements for the Ph.D. Degree

The Ph.D. in Marine Science is offered through the Marine Science program at the University of South Florida and through a cooperative program with the Department of Oceanography at Florida State University. Those students opting the cooperative Ph.D. in Oceanography must also apply to FSU with full and original credentialing (application, transcripts, GRE scores, and three letters of recommendation).

Students with exceptional qualifications may be accepted to work directly toward the Ph.D. without first earning the M.S. degree. However, in most cases, the master's degree will be a prerequisite. The latter may have been earned in marine science or one of the related areas, i.e., biology, chemistry, geology, mathematics, or physics.

In addition to the requirements given on page 53, USF Marine Science doctoral program requirements are as follows:

1. OCC 5050, OCG 5050, OCP 5051 and OCB 5050; a grade of "B" or better must be obtained in each of these core courses.
2. The "tools of research" requirement consists of two foreign languages or one foreign language and facility in computer techniques. The Department will administer these proficiency examinations.
3. The qualifying examination will consist of a written and an oral exam. At least four of five examiners must vote to pass the candidate.

In the cooperative USF-FSU oceanography program, a student's committee will be comprised of faculty from both institutions. Residency may be met on either campus. Any member of the graduate faculty at
either University (USF or FSU) may serve on a doctoral committee but the majority must have FSU doctoral directive status. Each committee will consist of at least five faculty members. One member of the doctoral committee shall be from a science department outside Marine Science or Oceanography. The committee appointments shall be by agreement between the two department chairpersons (USF and FSU).

**Mathematics (MTH)**

The Department of Mathematics offers a diversity of courses designed not only to enable the student to pursue a profession in mathematics itself, but also to enhance his competence in the fields of engineering, the physical sciences, the life sciences, and the social sciences. The department offers programs leading to the B.A., M.A., and Ph.D. degrees. The undergraduate program emphasizes the broad nature of modern mathematics and its close associations with the real world. The program is designed to prepare students for entry into graduate school or careers in industry or secondary education.

The department has a flexible Ph.D. program which is designed to encourage students to take an active role in the shaping of their own curricula. This flexibility is coupled with a desire to promote interdisciplinary research. In cooperation with the Departments of Marine Science and Physical Sciences, and the College of Engineering and Medicine, the department offers special Ph.D. programs in the applications of mathematics. While programs in the more traditional areas of pure mathematics are offered, the department is committed to emphasizing applied mathematics at both the graduate and undergraduate levels. For both undergraduate and graduate work, students and faculty have access to the University's computer, an IBM 3033.

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

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

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

### I. Mathematics Requirement (Min. 38 cr. hrs.)

Majors must complete the following courses and either Program I or Program II.

**Program I**

Three (3) courses (including one sequence) from the following:

- **MAS 4302** (3) MAA 3102 (3)
- **MAC 3411** (4) MAS 3103 (3)
- **MAC 4312** (4) MAA 4211 (4)
- **MAC 4313** (4) MAA 4212 (4)

**Program II**

Four (4) courses (including one sequence) from the following:

- **MAP 4302** (3) MAA 5306-5307 (6)
- **MAS 5146** (3) MAA 5402-5403 (6)
- **STA 4442** (3) MAS 5311-5312 (6)
- **MTG 5316-5317** (6)

Although the following description of Programs I and II is neither exhaustive nor restrictive, it is intended as a general guide. **Program I** is a liberal arts program designed to prepare a student in pure mathematics which could lead to either graduate study in pure or applied mathematics, a teaching career, or a career where mathematical approaches to problems are needed, such as law or business. **Program II** emphasizes various areas of applied mathematics which are frequently used in physical and engineering sciences. It could lead to graduate study in applied mathematics, an engineering career, or to a career in industry as an applied mathematician. Majors in mathematics for teaching should consult the section Mathematics (MAE) on page 90 for mathematics requirements.

### II. Mathematics Related Courses (15-20 cr. hrs.)

Majors, except for majors in mathematics for teaching, must take two of the following sequences, one of which must be in the College of Natural Sciences.

1. **BSC 2010C** and either **BOT 2010C** or **ZOO 2010C**
2. **CHM 2045, CHM 2045L, CHM 2046, CHM 2046L, or CHM 2055C, CHM 2056C**
3. **GLY 2016, GLY 2100**
4. **ECC 2023, ECO 2013 and one of ECO 3101 or ECO 3203**
5. **EGN 3373, EGN 3374, EGN 3375**
6. **ENG 3343 and one of EMEC 3103 or EMEC 3117**
7. **EGN 3313, EGN 3321, EGN 3331**
8. **PHY 3040, PHY 3040L, PHY 3041, PHY 3041L**
9. **PSY 3102, PSY 3013, PSY 3213**

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

- **AST 3033** GEB 3121
- **ECO 4402** PHY 3020
- **GEB 2111** STA 3122

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

### III. General Distribution Courses (40 cr. hrs. excluding waivers)

Majors must satisfy the General Distribution requirements of the College of Natural Sciences, which must include (or show competence in) one of the following sequences:

- **FRE 1100, FRE 1101**
- **GER 1100, GER 1101**
- **RUS 1100, RUS 1101**

### IV. Liberal Education Electives

The student must satisfy 15 hours of liberal education electives as described in item 3 of the graduation requirements of the College of Natural Sciences (see page 120). The following is a suggested course program for the first two academic years:

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Freshman Year</th>
<th>Semester II</th>
<th>Sophomore Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 1104</td>
<td>MAC 3411</td>
<td>MAC 3412</td>
<td>MAC 3413</td>
</tr>
<tr>
<td>MAC 3102</td>
<td>MHS 3020</td>
<td>MHS 3103</td>
<td>MHS 3103</td>
</tr>
<tr>
<td>Students with a strong background in high school mathematics may omit MAC 1104. Students with a strong background in algebra, but who are deficient in trigonometry, should take MAC 1114 instead of MAC 1104.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Teacher Education Programs:**

For information concerning the degree programs for secondary school teachers and junior college teachers, see page 86 and 90 of this Catalog.

**Mathematics Minor**

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

- **Total credit hours required:** 29 (minimum)
- **MAC 3411-3413 (12) Calculus I-III** or equivalent
- **MHS 3020** (3) Set Theory
- **MHS 3103** (3) Linear Algebra
- **MAC 4211** (4) Advanced Calculus I
- **MAC 4212** (4) Advanced Calculus II

In addition, one sequence from the following:

1. **BSC 2010C and either BOT 2010C or ZOO 2010C**
2. **CHM 2045, CHM 2045L, CHM 2046L, or CHM 2055C, CHM 2056C**
3. **GLY 2016, GLY 2100**
4. **ECC 2023, ECO 2013 and one of ECO 3101 or ECO 3203**
5. **EGN 3373, EGN 3374, EGN 3375**
6. **ENG 3343 and one of EMEC 3103 or EMEC 3117**
7. **EGN 3313, EGN 3321, EGN 3331**
8. **PHY 3040, PHY 3040L, PHY 3041, PHY 3041L**
9. **PSY 3102, PSY 3013, PSY 3213**

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

- **AST 3033** GEB 3121
- **ECO 4402** PHY 3020
- **GEB 2111** STA 3122

Majors wishing to take a course in statistics should take STA 4321.
Requirements for the M.A. Degree:

General requirements for graduate work are given on page 48. A thesis is optional. The thesis program requires a minimum of 30 credits of course work, of which the thesis may carry two to six credits. The non-thesis program requires 30 credits of course work. In either case 16 hours of the course work must be taken in courses numbered 6000 or above and the program must total at least 30 credits.

The course of study is flexible and interdisciplinary work is encouraged. Some of the areas of specialization are: algebra, analysis, applied mathematics, computer science, statistics and topology.

Each candidate for the M.A. degree is required to pass a written examination in any three of the following nine subjects listed below in five categories:

1. Algebra (MAS 5146, MAS 5311, MAS 5312)
2. Topology (MTG 5316, MTG 5317)
3. Real Analysis (MAA 5306, MAA 5307)
4. Complex Analysis (MAA 5402, MAA 5403; or MAA 5405, MAA 5403)
5. Probability (STA 5446, STA 5447)
6. Mathematical Statistics (STA 5326)
7. Applied Statistics (STA 5166, STA 5167)
8. Differential Equations (MAP 5407, MAP 5317; or MAP 5316, MAP 5317)
9. Applied Mathematics (MAP 5345, MAP 5407)

Each examination will cover the prescribed contents of the courses listed above.

A reading knowledge of either French, German or Russian is required. Computer Science may be substituted for the language requirements.

For specific program requirements, the student should consult the departmental chairperson.

Requirements for the Ph.D. Degree

In addition to the general University requirements for the Ph.D. degree, on page 53, the Mathematics department requires the following:

1. Qualifying Examinations
   Each doctoral student must pass four of the nine qualifying examinations that appear under the Requirements for the M.A. degree. The examinations are classified into five categories. The four examinations which the student selects must represent at least three of the five categories shown above under the M.A. requirements, and can not include both mathematical statistics and applied statistics or both applied mathematics and differential equations.

2. Foreign Language Requirement
   Each student must pass an examination in two of the three languages: French, German or Russian. Computer Science may be substituted for one of the languages.

3. Course Requirements
   The student's program of study must meet the course requirements for the M.A. degree. In addition the student must pass one semester of course work in each of five categories listed above. The course can be one of the courses listed or any other course in the same general area if the substitution is approved by a majority of the Department Graduate Committee. Other course requirements will be determined by the student's Supervisory Committee.

4. Specialization Examination
   This examination shall be administered by the student's Supervisory Committee after he/she has passed the qualifying examinations, the language requirements, and has completed all course requirements. The composition and scheduling of this examination shall be determined by the Supervisory Committee and may be written and/or oral.

5. For specific program requirements, the student should consult the chairperson of the Department of Mathematics.

6. The student must submit a dissertation to be approved by the Supervisory Committee.

Special accommodations may be made for students with interest in interdisciplinary areas.

[**MEDICAL TECHNOLOGY (MET)**]

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

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

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

1. **Biological Sciences**
   A minimum of 16 hours is required with at least one course in microbiology and one course in immunology. Physiology (PCB 3700 or PCB 4742C) is strongly recommended.

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

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

4. **Mathematics**
   One course in mathematics (above the level of MGF 2202) is required. A year of math or its equivalent is strongly recommended.

5. **General Distribution Requirements**
   Courses satisfying the general distribution requirements of the College of Natural Sciences.

6. Courses in non-science fields to insure a broad background.

Upon successful completion of this curriculum, recommendations by the College, and acceptance by one of the affiliated hospitals or clinical laboratories the student will complete 12 continuous months of training at that hospital or laboratory.

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

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

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

[**PHYSICS (PHY/PHS)**]

The Department of Physics offers programs leading to a Bachelor of Arts or a Bachelor of Science degree, and to a Master of Arts degree. Both thesis and non-thesis programs are available for the M.A. degree. Qualified graduate students with appropriate backgrounds may obtain a Ph.D. in applied mathematics or engineering science. An interdisciplinary arrangement with the Department of Mathematics and with the College of Engineering provides for such an opportunity. Students should consult with the Physics Graduate Adviser for details.

Special courses may be offered upon sufficient demand. Modern ex-
cellently equipped classrooms and laboratories provide an outstanding 
environment for students. Opportunities for undergraduate students to 
participate in research projects with professors and graduate students 
been published in scientific journals. There is a tradition of close working 
relationships between professors and students.

At the graduate level, thesis research areas include theoretical and 
experimental plasma physics, theoretical and experimental solid state 
physics, experimental gaseous electronics, elementary particle theory, environ-
mental science and medical physics. Supporting facilities include an IBM 
3033N computer, a Tektronix 4501 graphics systems terminal located in 
the Physics Building, an excellently equipped machine shop and 
electronic shop, a glass blowing shop, an electron microscope, and an 
x-ray photoelectron spectrometer. Teaching assistantships and financial 
aid through the College .

Work-Study Program

The sequence may be substituted for the sequence indicated .

The student is required to complete the General Distribution re-
quirements of the College of Natural Sciences (see page 120). Selection of a foreign language, preferably French, German or 
Russian is also strongly recommended.

IV. Liberal Education Electives

The student must satisfy 16 hours of liberal education electives as described in item 3 of the graduation requirements of the College 
of Natural Sciences (see page 120.)

V. Free Electives

(Including General Distribution waivers) to complete a 120 hour 
program.)

Teacher Education Programs:

For information concerning the degree programs for secondary 
school teachers and junior college teachers, see page 86 and 90 of this 
Catalog.

Requirements for the M.A. Degree:

General requirements are given on page 48. When a student is admitted 
to the graduate program in physics, the student will consult with the 
physics Graduate Adviser, who will be the student’s course adviser and 
will also keep a close check on the programs of the student’s work. After 
a decision has been made concerning the student’s academic goals, the 
duties of the Graduate Adviser will be assumed by a Supervisory Commit­ 
tee appointed by the department chairperson. The Supervisory Com­ 
ittee will have the right and the responsibility to add special requirements to 
meet any deficiency in the student’s background.

The student desiring the M.A. degree with a thesis is required to take 
a minimum of 30 credits, no more than six of which may be for PHY 
6911, PHY 6935 and PHY 6971. Of these 30 credits, 16 must be in courses 
numbered 6000 or above. Required courses are:

- PHS 5113
- PHY 5722C
- PHY 6346
- PHY 6846L
- PHY 5624
- PHY 6246
- PHY 6347

The Supervisory Committee will administer a comprehensive ex-
amination before recommending that a degree be granted.

The student desiring the M.A. degree without a thesis is required to 
take a minimum of 30 credits (excluding PHY 6940), no more than two of 
which may be for PHY 6911 and PHY 6935. Of these 30 credits, 16 must 
be in courses numbered 6000 or above.

Required courses are:

- PHY 5113
- PHY 5624
- PHY 6347
- PHY 6846L
- PHY 5114
- PHY 6246
- PHY 6536

and a choice of any two of the following:

- PHS 5405
- PHS 5505
- PHY 6204
- PHY 5722C

The Supervisory Committee will administer a written and an oral 
comprehensive examination before recommending that a degree be 
granted.

All graduate students are required to register for PHY 6935 in the 
first semester of each academic year and, in connection therewith, to at-
tend all Physics Colloquia scheduled during the year.
New College, formerly a private liberal arts college, became a part of the University of South Florida in 1975, retaining its distinctive academic program and the status of an honors college within the greater University. It has, in fact, been designated a Program of Emphasis at the University of South Florida.

A small, residential, innovative, liberal arts college, New College provides an educational environment which allows students to achieve maximum academic and personal development. The curriculum is designed to promote self-direction and to supply the knowledge and skills appropriate to the Liberal Arts. New College is both traditional and contemporary in its orientation: dedicated to humane learning, but also purposely seeking the discovery, the development, and the creation of ways to equip people for survival in a fluid society.

Students are encouraged to develop their own educational plans—using the educational contract—that will help them reach individual goals. Flexibility, individualism, and broad freedom of choice characterize the program, giving to each student the opportunity to plan a major role in the construction of his or her program.

The Academic Calendar and Residence Requirements

New College operates on a slightly different academic year than the rest of the University. The College’s academic year is divided into two fifteen-week terms beginning in late August and ending in May, with a special four-week period in January designed specifically to permit students to accomplish independent studies.

New College students are considered at entrance to have the ability to begin work at the advanced level. This, in conjunction with the longer academic year, allows students to complete the degree in three and one-half years. If students wish, they may take a term off from formal study at some time during their New College career and thus spend a full four years at the college. By special petition and with summer work a student may complete the degree in three years.

Educational Contracts

The basic instrument of the New College educational program is the educational contract, a written document constructed at the beginning of a term by each student and expressing that student’s plans for the ensuing term.

Each contract states the individual student’s educational and personal goals for the term and possibly longer range objectives; a listing of the specific educational activities that will help accomplish these ends; and an explanation of how those specific educational activities will be evaluated at the end of the term.

Each contract is developed by the individual student as an expression of personal education and career goals, but faculty are expected to contribute substantially to help students determine the best ways to shape contracts to reach goals.

Admissions Requirements

New College welcomes applications from all qualified students without regard to nationality, creed, race, or sex. New College seeks those students who are unusually well-qualified to thrive in its intellectual and social atmosphere. The College uses a variety of indicators to help each student measure whether he or she is right for participating in this special program.

The most reliable index of student ability is past scholastic performance. About two-thirds of all New College entering students rank in the top 10 percent of their graduating classes.

Entering student Scholastic Aptitude Test (SAT) scores are generally 1200 and above. Experience of students demonstrates clearly that those whose verbal or math scores fall anywhere within the 550-800 range are capable of succeeding at New College provided they also have the personal characteristics that will allow them to cope effectively with the educational program. These individual traits, in addition to motivation, are initiative, tenacity, maturity, curiosity, concern for others and an excitement about life and learning. Applicants may submit results of the Scholastic Aptitude Test from the College Entrance Examination Board or scores received from the American College Testing Program (ACT) to help the Admissions Office of New College determine whether a student should be selected.

Because the program at New College has been deliberately designed to fulfill the needs of individual students, it follows that the College will also accept students with varied academic preparation. The College does not require that certain courses be completed to gain admittance, but does urge prospective students to complete the customary courses within a college preparatory program before enrolling at New College. Particular attention is given to students who have participated in honors courses, advanced placement, or enriched and accelerated courses and independent studies.

Advanced placement provided at some institutions is not necessary for admission to New College of USF simply because all students are con-
sidered to be entering at advanced levels. Since there are no required courses, a student and a faculty adviser work together to design a program to take advantage of the student's abilities and previous academic preparation. Students are encouraged to begin studies at advanced levels if they have adequate backgrounds.

New College welcomes transfer students from other institutions. As many as one-third of each entering class are students with previous college experience. Transfer students must demonstrate through their transcripts that they can successfully handle college level work.

Application forms and literature may be obtained from the Director of Admissions, New College of USF, 5700 N. Tamiami Trail, Sarasota, Florida 33580. Prospective students should note that a supplemental application is needed for admission to New College.

Application Deadlines:

Fall Term/Term I: Application should be completed before March 1 and no later than August 1. Application for financial assistance should be received before February 1.

Spring Term/Term II: Application should be completed by December 15.

Degree Requirements

All students who are graduated from New College of USF receive a Bachelor of Arts degree. However, students may elect to concentrate in any of a number of areas within the various divisions or to elect an interdisciplinary course of study in fields of their own choosing. Requirements for completion of a course of study in fields of study at New College include satisfactory evaluations on seven educational contracts, on three independent study projects, on the senior project, and on the baccalaureate examination.

Areas of Study

New College is divided into three academic divisions—Humanities, Social Sciences, and Natural Sciences—and students may elect to study primarily in one area, to distribute their studies throughout the entire three divisions, or to create special interdisciplinary curricula which span offerings of any of the disciplines.

To aid prospective students of New College, each division has indicated broad areas of study which are available in each division. Within each area there are, of course, many subdivisions and information about these may be obtained from the New College Records Office.

<table>
<thead>
<tr>
<th>Humanities</th>
<th>Natural Sciences</th>
<th>Social Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History</td>
<td>Mathematics</td>
<td>Anthropology</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Biology</td>
<td>Economics</td>
</tr>
<tr>
<td>Music</td>
<td>Chemistry</td>
<td>History</td>
</tr>
<tr>
<td>Literature</td>
<td>Physics</td>
<td>Political Science</td>
</tr>
<tr>
<td>Languages</td>
<td>Experimental</td>
<td>Psychology</td>
</tr>
<tr>
<td>Classics</td>
<td>Psychology</td>
<td>Sociology</td>
</tr>
<tr>
<td>Philosophy</td>
<td>Computer Science</td>
<td></td>
</tr>
<tr>
<td>Religion</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Special Programs

New College has two special programs which are available to students of New College but which fall outside of the regular divisional or interdisciplinary areas.

The Environmental Studies Program is an interdisciplinary and interdivisional program that is also expected to integrate academic and "real world" experiences in problem-solving situations. Students who elect the Environmental Studies Program may develop disciplinary knowledge and skills through courses and seminars in the College's three academic divisions and then may apply their knowledge and skills in research projects dealing with practical problems in environmentally related areas.

Each year, for three weeks in June, the New College Music Festival is held on campus. The Festival brings to the campus a number of nationally and internationally known musicians to teach and to perform public concerts with emphasis on chamber music. Festival concert performances are open to everyone in the college community. Students for the Festival are drawn from all parts of the country and abroad coming to the college to study each year and also to perform in student concerts which are held frequently on campus. New College students have the opportunity to audit Festival master classes and rehearsals, to compete for selection as Festival students, and also to attend student and public concerts.

Costs

Costs for attending New College of USF are the same as those for attending any part of the State University System. Costs are on a per credit-hour basis (see page 20) for University credit-hour costs. Each term's educational contract is the equivalent to sixteen credit hours while each independent study project is equivalent to four credit hours. During the first two terms students are considered for fee purposes to be on a second-year college level. For the final five terms, students are considered to be taking upper-class courses with consequent cost differentials.

Since New College offers students the opportunity to have a more individualized type of study than is available in other University programs, it is easily seen that such a program would be more expensive. To help meet this difference in cost, the New College Foundation has agreed to provide an annual subsidy to the University System to make up the difference between state funding and the actual cost of the educational program. These funds are raised by the New College Foundation and its Board of Trustees from individuals, corporations, and foundations.

Student Life

New College is essentially a residential institution with the majority of the students living either on campus or in the surrounding community. Students are challenged to accept major responsibilities for the direction of their own affairs, including their social and extracurricular activities. The Student Affairs Office is an essential part of New College and is concerned with almost all phases of student life from orientation of arriving students to commencement plans for those ready to depart. Student Affairs, through its professional staff, is responsible for counseling, housing, recreation and health services. Staff also are concerned with helping students assume responsibilities in relation to others on campus and in the outside communities.

All first-year students live on campus during their initial academic year. Upper-class students may choose College or non-College residency. Students have the option of using the food service or of making independent arrangements.

New College offers counseling for students in several different areas. New College provides for students a small health center on campus, staffed while the college is in session. Excellent specialized medical services are readily available in the community with a community hospital only minutes away from campus. Qualified clinical psychologists provide for students a broad range of psychological counseling and therapy as well as dealing with students concerned about life goals, academic and career decisions, and study skills. Professional medical and psychiatric counsel is available in the community at the student's expense.

NEW COLLEGE OF THE UNIVERSITY OF SOUTH FLORIDA 1982-83 ACADEMIC CALENDAR

Fall Semester

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 25-27</td>
<td>Orientation/Registration/Advising</td>
</tr>
<tr>
<td>August 30, Monday</td>
<td>Term I Begins</td>
</tr>
<tr>
<td>September 6, Monday</td>
<td>Labor Day Holiday</td>
</tr>
<tr>
<td>October 18-22, Mon.-Fri.</td>
<td>Fall Break</td>
</tr>
<tr>
<td>November 11, Thursday</td>
<td>Veterans Day Holiday</td>
</tr>
<tr>
<td>November 25-26, Thurs.-Fri.</td>
<td>Thanksgiving Holiday</td>
</tr>
<tr>
<td>December 17, Friday</td>
<td>Term Ends</td>
</tr>
</tbody>
</table>

Interterm

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 5, Tuesday</td>
<td>Interm term Begins</td>
</tr>
<tr>
<td>February 1, Tuesday</td>
<td>Interm term Ends</td>
</tr>
</tbody>
</table>

Spring Semester

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>February 2-4, Wed.-Fri.</td>
<td>Orientation/Registration/Advising</td>
</tr>
<tr>
<td>February 7, Monday</td>
<td>Term II Begins</td>
</tr>
<tr>
<td>March 28, Monday</td>
<td>Spring Break Begins</td>
</tr>
<tr>
<td>April 1, Friday</td>
<td>Spring Break Ends</td>
</tr>
<tr>
<td>May 27, Friday</td>
<td>Term II Ends</td>
</tr>
<tr>
<td>May 28, Saturday</td>
<td>Commencement</td>
</tr>
</tbody>
</table>
The College of Nursing is committed to the improvement of nursing and health care services through its educational programs, community service, and related research activities. In order to carry out its commitment in nursing education, the college offers an upper division competency-based program that leads to a Bachelor of Science degree with a major in nursing and a graduate program that leads to a Master of Science degree with a major in nursing.

The undergraduate program provides for (a) generic students (qualified students with no previous preparation in nursing) and (b) registered nurses who are graduates of diploma or associate degree nursing programs. The program is designed so that generic students with appropriate preparation equivalent to two years of college can enroll in nursing major and complete requirements for the degree in four semesters and a summer session of full-time study on the Tampa campus. The curriculum is also designed so that registered nurses are provided with: (a) choices in learning experiences for those with special areas of interest and preparing for a shift in career goals to focus on leadership in nursing and the health care system, (b) a variety of opportunities to validate previous education and experience and to demonstrate achievement of program competencies and (c) opportunities for full-time and part-time enrollment on the Tampa campus or part-time enrollment on the regional campuses at Fort Myers, Sarasota, and St. Petersburg. Registered nurses who attend college as a full-time student may complete requirements for the degree in three semesters.

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

The major objective of the graduate program is the preparation of professional nurses who will assume leadership roles a) as clinical specialists in acute health care settings, b) as adult primary care nurses in ambulatory or extended care settings, or c) as teachers of nursing. At present the curriculum focuses on adult health nursing and is designed to meet the needs of full and part-time students. NLN accreditation of this program will be sought when eligibility requirements are met.

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

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

### Professional Nursing

The health care delivery system is rapidly changing and these changes are creating new demands on health care professionals, including nurses. Since nursing is a vital component of the health care delivery system, nursing practice has become increasingly complex in terms of knowledge and skills required for nurses to assume added responsibilities and functions.

Professional nursing practice is based on a dynamic, helping relationship which fosters client growth whether that client be an individual, a family, a group, or a community. This relationship is based on theoretical knowledge and a body of cognitive, affective, and psychomotor skills exemplified in the nursing process. Nursing practice involves problem solving and decision making based on knowledge from the humanities, natural and social and behavioral sciences. Thus, nursing builds upon a foundation of general education and basic sciences.

The undergraduate program is based on the philosophy that nurses must be self-directing professionals who assume responsibility for their own learning and their own practice. Therefore, the faculty provide opportunities for students to identify their individual learning needs, to participate in the planning of learning activities to meet those needs, and to develop cognitive, affective, and psychomotor skills essential to professional nursing practice in a variety of primary, secondary and tertiary care settings where professional nursing services are provided: i.e., acute care hospitals, community health agencies, extended care facilities, industry, physicians' offices, military health services, and so on. Opportunities are also provided for the development of interpersonal and leadership skills needed by nurses in order to meet their responsibilities as citizens and as accountable professionals in the health field. Additionally, students can establish investigative and independent study habits that will persist throughout a lifetime of professional growth and development.

The upper division nursing major is built upon general education and science courses completed prior to admission. The nursing major is composed of supporting science courses, required nursing courses, and upper division general education and nursing electives.

The undergraduate program is developed around a conceptual framework which includes three major foci: Man, Health, and Nursing. The content and learning experiences are organized around the biophysical, social, developmental, and health care needs of individuals and families throughout the life span and include health needs of the community. The health needs and related professional nursing responsibilities and functions in meetings these needs are developed on a wellness-illness continuum and include primary, secondary and tertiary levels of care.

Competencies which graduates of this program must meet include:

1. Use the nursing process as the basis for nursing practice in assessing, analyzing, planning, implementing and evaluating nursing intervention directed towards assisting individual clients, families, groups or populations of clients, in primary, secondary or tertiary care settings to cope with actual or perceived threats to health.
2. Participate in assessing the health needs of a given community; plan, implement and evaluate interventive nursing measures through cooperative efforts with community leaders, members of the health care team and other professionals.
3. Practice within the legal/ethical parameters of professional nursing.
4. Incorporate appropriate knowledge from the fields of natural science, medicine, nutrition, behavioral and social sciences, economics and political science, mathematics, education, the humanities, and systems in the provision of nursing services.
5. Participate in developing, implementing, guiding or managing services to clients, families or groups of clients within a nursing service setting.
6. Contribute to the development of professional nursing practice by using the nursing process as a means of gathering data for refining and expanding the knowledge base for nursing and by applying the findings of nursing and related research in working with clients.

Nursing courses include substantial theory and nursing practice in care of the physically and mentally ill, the young and the old, the acutely and chronically ill. They also provide opportunities for learning in health maintenance, preventive, and rehabilitative services and for functioning as members of nursing and health care teams in highly responsible and complex primary, secondary, and tertiary patient care settings. Learning experiences are provided in a variety of institutions and agencies involved in the delivery of nursing services.

Nationally, as well as in Florida, there is a critical need for nurses prepared at advanced levels to provide leadership in clinical nursing practice, administration of nursing services, teaching of nursing and research. The graduate program in nursing is built upon undergraduate education in nursing and provides opportunities for nurses with baccalaureate degrees in nursing to prepare for leadership in a variety of functional roles in a variety of settings where nursing services are provided for adults.

The program provides: 1) the theoretical foundations underlying advanced practice, including opportunities to develop and test hypotheses related to practice; 2) opportunities to explore role theory in relation to the development and expansion of the professional nurse's leadership role; 3) introduction to research processes, exploration of researchable problems and application of research to nursing practice; 4) theory and practice in teaching of nursing in academic or inservice education programs; and 5) practicums based on individual goals.
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. Students may complete all requirements for admission to the College of Nursing through enrollment at the University of South Florida or they may complete the University's general education distribution requirements and College of Nursing admission prerequisites elsewhere and transfer to USF for the nursing major. College graduates and transfer students from other baccalaureate nursing programs are also eligible for admission to the major.

Lower division students who enroll at USF are admitted to the Division of Undergraduate Studies. They must meet the same requirements as other applicants for admission to the University and should follow the admission procedures outlined elsewhere in this Catalog.

Transfer students seeking admission to the College of Nursing must also apply for admission to the University. Applications for admission to the University may be obtained by contacting the Office of Admissions, University of South Florida, Tampa, Florida 33620. 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 will be confirmed and enrollment permitted.

At the present time, one class of generic students is admitted in the fall semester of each year. The deadline for University application is January 4 of the year in which the student enrolls. 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 no later than February 1. College applications are available from: Assistant Dean for Student Personnel, College of Nursing, University of South Florida, Tampa, Florida 33612.

Registered nurse students may be admitted to the College on a more flexible basis contingent upon completion of admission prerequisites and requirements and the availability of the appropriate sequence of nursing courses on the campus to which they are seeking admission. The deadline for receipt of an application from registered nurse students is at least one (1) semester in advance of the semester in which they intend to enroll. For more specific information contact the Assistant Dean for Student Personnel.

GENERAL REQUIREMENTS

Admission Requirements and Course Prerequisites

The minimum academic requirements used as a basis for evaluating eligibility of applicants for admission to the upper division major are outlined below.

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

B. Specific Course Prerequisites

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

1. Mathematics/Quantitative Methods: completion of at least one course in mathematics and one course in statistics. CLEP subject exams are acceptable.
   a) Mathematics—one course in college level algebra must be completed with a grade of "C" or better.
   b) Statistics—one course in statistics must be completed with a grade of "C" or better. STA 3122
2. Natural Sciences: minimum of 14 semester credits (excluding anatomy, microbiology, and physiology). Each course taken toward meeting this requirement must have been completed with a grade of "C" or better. At least one course must include a laboratory or have a corequisite laboratory course. At least 6 semester credits must have been completed by the admissions application deadline.
   a) Biology—a minimum of 6 semester credits. Courses should include content in 1) cell theory, 2) biological transport, 3) genetics, 4) evolution, 5) phylogenetic survey of plant and animal kingdoms, 6) ecology, etc. CLEP is acceptable.
      BSC 2010C, BOT 2010C, ZOO 2010C
   b) Chemistry—A minimum of 6 semester credits. Courses should include content in 1) principles of chemistry, 2) structure of matter, 3) atomic and molecular structure, 4) states of matter, 5) chemical formulas and nomenclature, 6) solutions, 7) chemical kinetics and chemical reaction mechanisms, 8) theory and practice of quantitative analysis, 9) organic chemistry.
      Each course must also include content in at least one of the areas marked **.
      *Chemistry sequence for non-science majors.
   c) Other—the remaining credits can be earned by completing additional courses in biology and chemistry, or in genetics, physics, physical science, etc. (A course in non-quantitative physics is recommended but not required.)
3. Social Sciences: completion of each of the following with a grade of "C" or better in each course.
   a) American government—one course in modern American government or state and local government. CLEP is acceptable.
      POS 2041, POS 3122, PAD 3003, POT 4204, POS 4424
   b) Individual and Social/Community Behavior: completion of at least three courses with at least one course in psychology and one course in sociology and one additional course in psychology, sociology, anthropology, gerontology or human sexual behavior. CLEP is acceptable.
4. Supporting Sciences: Anatomy, microbiology and at least two of the other courses must be completed prior to enrollment in the nursing major with a grade of "C" or better in each course. The remaining course must be completed during the first semester of the nursing major.
   a) Microbiology—one course. CLEP is not acceptable.
      APB 3110 or MCB 3010C
   b) Anatomy and Physiology—one course. A combined course in anatomy and physiology which is equivalent to PCB 3700 is acceptable or individual courses.
   c) Nutrition—one course. College of Nursing Challenge Examination or University of Florida correspondence course are acceptable.
      HUN 3210
   d) Human Growth and Development (Life Span)—Must include birth through aging process to death. CLEP is not acceptable.
      HUS 4020 or DEP 3103 and GEY 3000 or DEP 4005 and GEY 3000.
      N.B. Each of the above supporting science courses is not offered every semester, therefore, the student should plan their enrollment schedule with care.

C. CLEP Examinations

College Level Examination Program (CLEP) general and subject examinations may be taken in several areas. The CLEP general examinations apply toward the distribution requirements at USF and successful performance results in credit for any one or all five of the required areas. In addition, credit may be earned for a number of College of Nursing prerequisite courses, including: American Government POS 2041; English Composition ENC 1101, 1102; Biology BSC 2010C, BOT 2010C;
D. ACT/PEP and College of Nursing Examinations

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

1) College of Nursing—Nutrition Challenge Examination: 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 Dean's Office, College of Nursing, University of South Florida.

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

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

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

E. Other Requirements

In order to be considered for admission to the college, the applicant must:

1) have submitted application to USF by the appropriate deadline.
2) have submitted application and all supporting materials, including transcripts, to the College of Nursing by the appropriate deadline.
3) have a minimum grade point ratio of 2.5 with a grade of “C” or better in each prerequisite course.
4) be able to complete prior to enrollment in the major all those general education and specific prerequisites required for admission to the major.
5) have completed all prerequisites with not more than two (2) repeated courses and not more than one (1) repeat of any given prerequisite course.
6) have current licensure in Florida if enrolling in the program as a registered nurse.

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

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

DEGREE REQUIREMENTS

Students will be certified for the Bachelor of Science degree with a major in nursing upon completion of a minimum of 126 semester hours composed of general education requirements, science prerequisites (physical, biological, social and political), upper division 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 division level work (courses numbered 3000 or above).

Nursing Courses - Generic Students

Junior Year (3 semesters)
NUU 3500 - Nursing Core I (3)
NUR 3612 - Nursing Process I (3)
NUR 3612L - Nursing Intervention I (2)
NUR 3722C - Client Assessment I (2)
NUR 3501 - Nursing Core II (2)
NUR 3130 - Nursing Process II (2)
NUR 3130L - Nursing Intervention II (3)
NUR 3321 - Nursing Process III (2)
NUR 3321L - Nursing Intervention III (2)
NUR 3723C - Client Assessment II (2)
NUR 3502 - Nursing Core III (2)
NUR 4636 - Nursing Process IV (3)
NUR 4636L - Nursing Intervention IV (4)

Senior Year (2 semesters)
NUU 4505 - Nursing Core IV (2)
NUR 4651 - Nursing Process V (2)
NUR 4651L - Nursing Intervention V (2)
NUR 4652 - Nursing Process VI (2)
NUR 4652L - Nursing Intervention VI (2)
NUR 4653 - Nursing Process VII (2)
NUR 4653L - Nursing Intervention VII (2)
NUR 4506 - Nursing Core V (3)
NUR 4943L - Preceptorship (6)

In addition to the requirements listed above, a minimum of 10 credits in upper division electives will be required for graduation: at least six (6) credits in upper division courses in general education (courses in arts, humanities, natural or behavioral sciences, economics, business or management, education, etc., are acceptable) and at least four (4) credits in nursing electives (NUR 4930, Selected Topics in Nursing, and/or NUR 4940C, Independent Study in Nursing, are currently used for this purpose).

Nursing Courses - Registered Nurse Students

(3 semesters)
NUU 3500 - Nursing Core I (3)
NUR 3722C - Client Assessment I (2)
NUR 3641 - Nursing Process in Primary Care (3)
NUR 3641L - Nursing Process in Primary Care (3)
NUU 4504 - Intermediate Core (4)
NUR 4654 - Nursing Process in Complex Situations (4)
NUR 4654L - Nursing Practicum II (4)
NUR 4506 - Nursing Core V (3)
NUR 4943L - Preceptorship (6)

In addition to the requirements listed above, a minimum of 10 credits in upper division electives are required for graduation: at least six (6) credits in upper division courses in general education (courses in arts, humanities, natural or behavioral sciences, economics, business or management, education, etc., are acceptable) and at least four (4) credits in nursing electives (NUR 4930, Selected Topics in Nursing and/or NUR 4940C, Independent Study in Nursing are currently used for this purpose).

Graduate Education in Nursing

The College of Nursing offers a program leading to the Master of Science degree with a major in nursing, focusing on adult health nursing. The major objective is the preparation of professional practitioners who can assume leadership roles in nursing as 1) clinical specialists in secondary or tertiary health care settings, 2) primary care practitioners in ambulatory or extended care settings or 3) as teachers of nursing.

The program comprises 1) theoretical foundations of advanced nursing practice (nursing theory, physiology, social and behavioral sciences, etc.), 2) role theory and development, 3) research (including thesis or scholarly project), 4) clinical experience in the management of patient care and therapy testing and 5) practice related to the functional minor (teaching, clinical specialist, or primary care practitioner), and 6) electives in nursing or related disciplines. The program provides core requirements for all students with flexibility for student options based on individual background and needs.

Students may opt to focus on an area of clinical specialization (e.g., cardiovascular, oncology, geriatrics) depending upon availability of
qualified faculty and appropriate clinical resources for theory testing and related practice. Students electing the functional minor in teaching will be required to take courses in measurement and evaluation, curriculum and instruction, and higher education. In addition to the core courses and the clinical practicum, a teaching practicum is designed to meet the student's need, e.g., a practicum in inservice education or in clinical and classroom teaching in associate degree or baccalaureate programs.

Additional requirements for clinical specialists and primary care practitioners include a course in management of patient care and/or management electives selected from course offerings in the Department of Management in the College of Business Administration.

Admission Requirements

The maximum number of graduate credits which may be transferred into the program is six semester hours. Requests to transfer additional hours must be recommended by the Admissions Committee and approved by the Graduate Council. Graduate credits which are transferred into the major cannot be used in determining the student's grade point average for admission purposes.

Admission to the program is dependent upon favorable evaluation of the graduate faculty in relation to admission criteria. Applicants must meet the minimum requirements of the University and those outlined below. Registered nurses with a baccalaureate degree in nursing may enroll in selected courses as special (non-degree seeking) students if space is available after regularly enrolled students' needs are met. Up to 12 semester hours of work attempted on this basis may be accepted at the discretion of the faculty if the student meets admission requirements and is accepted into the program.

A new class is admitted to the program each fall semester of each year. Admission to the program is on a competitive basis and is based on the admission criteria and on availability of adequate facilities and faculty. All applicants seeking admission for the fall class must have all admission materials on file with the Office of Admissions no later than March 1, of that year.

Criteria for Admission

1. A baccalaureate degree in nursing from an NLN accredited program with an overall grade point average of 3.0.

2. A minimum score of 1000 on the verbal and quantitative portion of the Graduate Record Examination (SUS guidelines apply. All students must present GRE scores.)

3. A score of 46 or above on the Miller Analogies Test.


5. A minimum of one year's experience in clinical nursing practice.

6. Three letters of reference indicating potential for graduate study from professional nurses who can attest to the applicant's ability and professional competence.

7. A course in elementary statistics including introduction to probability and testing hypotheses. (Comparable to USF course STA 3122 in Social and Behavioral Science)

8. Ability to demonstrate competency in physical assessment skills comparable to those required in NUR 3722C (A challenge exam is available).

9. Florida resident at time of enrollment.

10. Record of physical examination prior to enrollment.

11. Current professional liability coverage.

12. Admission to program will depend on availability of adequate facilities and faculty in addition to the above stated criteria.

Application Process

1. Complete and submit application forms to the Office of Admissions at USF.

2. Provide necessary transcripts of all previous college work.

3. Provide results of scores on the Graduate Record Examination and The Miller Analogies Test.

4. Attend a group advisement session at the College of Nursing.

5. Complete a personal interview with designated College of Nursing faculty.

6. Submit letters of reference as indicated under criteria for admission.

Course Requirements

*Core Courses

PUP 5607 Public Policy in Health (4)
NUU 6222 Advanced Role Development (3)
NUR 6721 Advanced Pathophysiology (2)
NUU 6370 Nursing Research (3)
NUR 6507C Adult Nursing (5)

Graduation Requirements

1. A minimum of 48 semester hours.

2. Requires for Graduation - 48 Semester Hours

3. Selected courses in Gerontology:

4. Open Electives

5. Required of all students.

6. Open Electives

Adult Primary Care Nurse

NUR 6945L Practicum in Clinical Nursing I (4)
NUR 6946L Practicum in Clinical Nursing II (4)
NUR 6027 Pharmacology for Advanced Nurse Practitioners (2)

Recommended:

NUR 6027 Pharmacology for Advanced Nurse Practitioners (2)

Clinical Specialist

NUR 6945L Practicum in Clinical Nursing I (4)
NUR 6946L Practicum in Clinical Nursing II (4)
NUU 6216C Management in Clinical Nursing Practice (2)

Nursing Education

NUR 6171C Nursing Ed. in Institutions of Hi.Ed. (2)
EDF 6531 Foundations of Measurement (3)

*Required of all students.

1) Requirements for Graduation - 48 Semester Hours

2) Selected courses in Gerontology:

Graduation Requirements

1. A minimum of 48 semester hours.

2. A thesis or major scholarly work is required of all candidates.

3. A minimum cumulative grade point average of B (3.0).

4. A minimum grade of C (2.0) in each course accepted toward the graduate degree.

5. A minimum grade of B (3.0) in all undergraduate courses (1000-4000 level) taken after matriculation as electives or to make up deficits. Grades for these courses are not computed in the overall academic average.

Special Requirements

Tuition and fees for students enrolled in nursing are the same as for other students at the University of South Florida. However, there are
substantial expenses not covered by the basic tuition and fees.

Textbooks, laboratory manuals and standardized tests are essential tools for students enrolled in the nursing major. Texts in nursing are somewhat more expensive than those in general education, and it is estimated these costs run from $100-150 per semester. Since texts are used over two year major, these costs are somewhat higher at the junior level.

Uniforms, including watch with sweep second hand, scissors, shoes, stethoscope, etc., are required after the first semester of the junior year. Uniform specifications and policies have been developed by students enrolled in the first class and costs vary depending upon personal choice. In addition, lab costs or aprons are necessary during the first semester. Graduate students must have access to physical assessment equipment including ophthalmoscope and stethoscope, etc.

Medical care insurance is required.
Professional liability insurance is highly desirable for all and required for registered nurse and graduate students.

An annual physical examination is required. The first one must be done prior to enrollment in the nursing major.

Transportation to and from community health agencies for clinical nursing experience is also the responsibility of the student. Since public transportation in the Tampa area is not usually convenient to the hours of clinical schedules, students must have access to some other means of transportation or from car pools. Also, from time to time, field trips to an institution or agency at some distance from the campus will be required for an entire class or section of a class. In these instances, students making the trip share the costs.

Financial Aid

Policies and procedures pertaining to financial aid are the same for students in nursing as for other students. Specific information can be obtained from the Office of Financial Aid, Student Affairs, University of South Florida, Tampa, Florida 33620.
The social and behavioral sciences are concerned with human beings and their development, problems, behavior, and institutions. The study of man helps the student to understand the world of which he/she is a part, to become a more informed citizen, and to prepare for a role in contemporary society. The social and behavioral sciences provide the student with knowledge, experience, and background for future application in business and industry, government, human service professions, and graduate education.

The setting of the University in the rapidly expanding Tampa Bay metropolitan area provides exceptional opportunities for the development of urban related academic programs, research and community service. By the authorization of the Board of Regents, a Program for Emphasis in Human Services was established at USF for the enhancement of selected programs in the College of Social and Behavioral Sciences and the College of Nursing.

BACCALAUREATE LEVEL DEGREE PROGRAMS

Admission to the College

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

Undergraduate students must submit a formal application for admission to the college. This application is available in the College Office of Advising and Student Records. Students will then be counseled by an academic adviser in his/her major field. Information about majors, departments, programs, advising, and other services of the college may be obtained from the Assistant Dean College of Social and Behavioral Sciences, University of South Florida, Tampa, Florida, 33620.

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

Honors Programs

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

General Requirements for Degrees

The College of Social and Behavioral Sciences currently offers two undergraduate degrees: Bachelor of Arts and Bachelor of Social Work. Requirements for graduation (referred to on page 34) are summarized as follows:

1. 120 credits with at least a “C” average (2.0) in courses taken at the University of South Florida. At least 40 of these 120 credits must be in courses numbered 3000 or above. (A maximum of two credits of physical education courses may be counted toward graduation requirements; no credits in physical education are required.)

2. 40 credits of general distribution courses are required by the University in the areas of English Composition, Fine Arts and Humanities, Mathematics and Quantitative Methods, Natural Sciences, and Social and Behavioral Sciences. (See General Distribution Requirements, page 34. Transfer students with standard AA degrees will be considered to have met the University’s General Education Requirements; however, such students who have not gained exposure to each of the five areas are strongly encouraged to make up deficiencies early in their USF careers.

Three programs in the college—Urban Community Psychology, Gerontology, and Urban Anthropology—were approved several years ago by the Board of Regents as Programs of Distinction. Although the programs are housed respectively in the Departments of Psychology, Gerontology, and Anthropology, they utilize faculty expertise from many disciplines. Students majoring in these areas receive distinctive educational experiences in both university and community settings.

The Human Resources Institute of the College of Social and Behavioral Sciences was established to address critical issues in the broad human resources sector through a comprehensive program of research and service. The following Centers are related to the Human Resources Institute: Center for Applied Anthropology, Center for Applied Gerontology, Center for Community Development and Analysis, Center for Community Psychology, and Center for Evaluation Research.
GRADUATE LEVEL DEGREE PROGRAMS

Master's Degree Programs

Graduate level courses are offered in most social and behavioral science areas. The Master of Arts Degree is offered in the following:

- Anthropology (ANT)
- Criminal Justice (CCJ)
- Geography (GYP)
- Gerontology (GEY)
- History (HTY)
- Political Science (POL)
- Psychology (PSY)
- Rehabilitation Counseling (REH)
- Post-Baccalaureate
- Rehabilitation Counseling (REF)

A Master of Public Administration Degree (M.P.A.) is also offered.

A Master of Social Work (M.S.W.) is also offered.

In addition to the Master of Arts degree offered from the College of Social and Behavioral Sciences, joint degrees are offered with the College of Communication.

Certificate.

Certificate of the Interpreter Training Program will recommend the student for the SPA 2001

The student may be obtained from the Interpreter Training Program Coordinator in

The equivalent of a Level II score on the Quality Assurance Examination for

Sign

When the student must be obtained prior to enrollment in this certificate training program.

Students

Interpretation for the Deaf for students who want to facilitate the com­

HUS 3001 HUS 4020 HUS 4700 HUS 5505

HUS 3505 HUS 4100 HUS 5325 SOW 4332

Certificate in Interpretation

For The Deaf

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

The certificate program consists of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPA 2001</td>
<td>(2)</td>
<td>SPA 4335</td>
</tr>
<tr>
<td>SPA 4335</td>
<td>(2)</td>
<td>SPA 4930-003</td>
</tr>
<tr>
<td>SPA 4334</td>
<td>(2)</td>
<td>SPA 4930-002</td>
</tr>
<tr>
<td>SPA 4332</td>
<td>(1)</td>
<td>SPA 4930-001</td>
</tr>
<tr>
<td>SPA 4333</td>
<td>(2)</td>
<td>SPA 4930-002</td>
</tr>
<tr>
<td>SPA 4334</td>
<td>(1)</td>
<td>SPA 4930-001</td>
</tr>
<tr>
<td>SPA 4335</td>
<td>(1)</td>
<td>SPA 4930-002</td>
</tr>
</tbody>
</table>

Approval by the Coordinator of the Interpreter Training Program must be obtained prior to enrollment in this certificate training program.

Doctor of Philosophy

The Department of Psychology offers a program leading to the degree of Doctor of Philosophy.

SPECIAL NON-DEGREE PROGRAMS

Certificate in Latin American Studies

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

A minimum of 24 semester hours is required of all students seeking such a certificate. Of these, at least 16 must be planned around the following core courses:

- GEA 3400 Geography of Latin America
- LAH 3022 Modern Latin America
- CPO 4930 Comparative Government and Politics (Latin America)
- SPT 3131 Spanish American Literature in Translation; or equivalent in original Language.

The remaining 8 hours must be selected from other specified courses with Latin American content, a list of which is available from the Latin American Studies Coordinator.

In addition, students seeking a Certificate in Latin American Studies must have ability in Spanish, Portuguese, or another major Indo-American language or must have completed no less than two semesters of study in that language, or its equivalent. It is hoped that the student will develop an even higher level of competency in one language and at least minimum proficiency in a second language.
When the student has completed the above requirements, the Latin American Studies Coordinator will recommend the student for the Certificate, which will be awarded upon the successful completion of all degree requirements for the major.

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

**Academic Minor Programs**

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

**PROGRAMS AND CURRICULA**

### AFRICAN AND AFRO-AMERICAN STUDIES (AFA)

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

In the interest of general education the program provides a basic and broad knowledge about Africa and peoples of African descent from prehistoric times to the turbulent present. Part of its mission is to assist its black student clientele to achieve a more dignifying identity and fuller participation in the mainstream of American life. It attempts to help them to develop a greater awareness of themselves and their talents and to provide them with educational and research opportunities necessary for the acquisition of understanding of political and economic realities and tools that must enable black people and other minorities to become effective determinants of their own political and economic life.

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

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

The major in African and Afro-American Studies consists of a minimum of 36 hours in the field specified as follows:

**Required Core Courses (15 cr. hrs.)**

- AFA 2001 (3) AFH 3200 (3) AMH 3572 (3)
- AFA 3100 (3) AMH 3571 (3)

**Required Supporting Core Courses (6 cr. hrs.)**

- AFA 4150 (3) AFS 4910 (3)
- AFS 3311 (3) ECP 4143 (3)

**Suggested Elective Courses (15 cr. hrs.)**

- AFA 4331 (3) INR 4254 (3) PUP 3313 (3)
- AFS 4321 (3) AFA 4900 (2-3) AFA 4931 (1-3)
- HUM 3420 (3) CPO 4244 (3) CPO 4254 (3)
- CPO 4204 (3)

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

**Requirements for the Minor:**

African and Afro-American Studies Program offers minors in African and Afro-American Studies to meet the interest of students. Each minor comprises eighteen (18) hours, exactly one-half of the upper division credits required for a major. Requirements for the minors are as follows:

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

**Required Core Courses (9 hours)**

- AFA 2001 (3)

**Electives (9 hours) selected from:**

- AFA 4150 (3) CPO 4204 (3) INR 4254 (3)
- AFA 4931 (1-3) CPO 4254 (3) PUP 3313 (3)
- AFS 3311 (3) HUM 3420 (3)

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

**Required Core Courses (9 hours)**

- AFA 2001 (3) AMH 3571 (3) AMH 3572 (3)

**Electives (9 hours) selected from:**

- AFA 4150 (3) AFS 3311 (3) PHM 4120 (3)
- AFA 4331 (3) ECP 4143 (3) PUP 3313 (3)
- AFA 4931 (1-3) HUM 3420 (3)

**African Studies (Minimum of 18 hours):**

**Required Core Courses (9 hours)**

- AFA 3100 (3) CPO 4204 (3) INR 4254 (3)
- AFS 3200 (3)

**Electives (9 hours selected from:***

- AFA 4150 (3) AFS 4321 (3) HUM 3420 (3)
- AFA 4931 (1-3) CPO 4224 (3) INR 4254 (3)
- AFS 3311 (3) CPO 4254 (3)

### ANTHROPOLOGY (ANT)

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

Students majoring in other fields may find anthropology coursework an exciting and valuable supplement to their primary academic interest. A minor in anthropology has been developed with this purpose in mind. The minor program is structured to allow the student maximum flexibility in course selection within a broadly defined progression of anthropological concerns. Thus, the student is able to tailor a minor in anthropology to best suit special wants and needs in the context of an overall curriculum.

The primary objective of the graduate program is to provide both basic education and specialized training in several specific fields of applied anthropology (medical and urban anthropology, public archaeology), which will enable the graduate to render valuable and substantive service at local, state, national and international levels in a context of non-academic, non-teaching employment. Graduates will be capable of assuming vital positions in the various agencies and institutions charged with understanding and acting on the complex problems which beset our society.
The Center for Applied Anthropology is one of five centers in the Human Resources Institute, College of Social and Behavioral Sciences. The Center is concerned with applying anthropological knowledge, theory, method, and perspectives to problems of contemporary society. Illustrative areas of activity include human services needs assessment, program planning and evaluation, social and environmental impact assessment, and public policy analysis.

Requirements for the B.A. Degree in Anthropology (ANT)

The major in Anthropology consists of a minimum of 36 credit hours including 33 credit hours in the field and the course Social Science Statistics (STA 3122) or its equivalent. ANT 2000 is prerequisite to all subsequent courses. ANT 3100, ANT 3410, ANT 3511 and ANT 3610 are required as intermediate level training in the main subdivisions of the field, and ANT 4034 and ANT 4933 complete the specific requirements. Majors are required to complete a minimum of 12 hours of elective coursework, 9 hours of which must come from three of the following four subdivision clusters:

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

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

Cluster III (Anthropological Linguistics)
ANT 4750 (3)

Cluster IV (Cultural Anthropology)
ANT 4226 (3) ANT 4316 (3) ANT 4462 (3)
ANT 4231 (3) ANT 4326 (3) ANT 4495 (3)
ANT 4241 (3) ANT 4340 (3) MUH 4521 (3)
ANT 4302 (3) ANT 4367 (3) ANT 4705 (3)
ANT 4305 (3) ANT 4432 (3) ANT 4723 (3)
ANT 4312 (3) ANT 4315 (3) ANT 4742 (3)

The remaining 3 minimum elective hours may come from any of the department’s elective offerings, including ANT 4901 (1-4), ANT 4907 (2-4), ANT 4930 (3), and those in the clusters described above. Anthropology majors are urged to become competent in the use of a foreign language. Exceptions to course prerequisites require the consent of the instructor.

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

Requirements for the Minor in Anthropology

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

A. 2000-level required core course (3 cr. hrs.)
ANT 2000 (3)

B. 3000-level subfield courses (3-6 cr. hrs.)
ANT 3100 (3) ANT 3511 (3)
ANT 3410 (3) ANT 3610 (3)

C. 4000-level elective courses (9-12 cr. hrs.) (as described in Clusters I, II, III, and IV above)

Requirements for the Undergraduate Focus in Applied Anthropology

This sequence is designed for Anthropology majors who wish to include career training as part of their Anthropology curriculum. The student is required to complete the major in Anthropology, making certain to take the following Focus courses:

ANT 4495 (3) ANT 4442 (3)
ANT 4705 (3) or
ANT 4462 (3)

In addition, the student must take ANT 4907 (3), the setting in which the off-campus practicum is pursued. A departmental Letter of Achievement is awarded upon graduation and successful completion of Focus requirements with a "B" average (3.0). Information regarding admission into the Focus program may be obtained from the department undergraduate adviser.

Requirements for the M.A. Degree

General requirements for graduate work are given on page 48, and should be studied carefully.

The student must complete 35 semester hours of graduate coursework. All students must complete the four core seminar courses, then proceed to take minimally, one methods course, one selected topics course, and one regional problems course in one of the three tracks (medical anthropology, urban anthropology, public archaeology). In addition, each student must: complete a graduate level statistics course, for a minimum of three semester hours, and two graduate-level courses, normally taken outside the department, for a minimum of five semester hours, chosen in mutual agreement by the student and his/her adviser; successfully pass the comprehensive examination; undertake directed research (internship); and write a thesis. The student must maintain a "B" average in all course work. In addition, the program requires a "B" average for the four core seminars before the student can proceed to take the comprehensive examination.

I. Courses Required of All Students

A. Core courses
ANT 6186 (3) ANT 6588 (3)
ANT 6490 (3) ANT 6676 (3)

B. Additional Requirements
Two graduate-level courses normally taken outside the department; one graduate-level statistics course.

C. ANT 6915 (4) ANT 6971 (2)

II. Courses in One of Three Tracks

A. Medical Anthropology Track
ANT 6463 (3) ANT 6737 (3)
ANT 6469 (3)

B. Urban Anthropology Track
ANT 6446 (3) ANT 6448 (3)

ANT 6447 (3)

C. Public Archaeology Track
ANT 6196 (3) ANT 6198 (3)

ANT 6197 (3)

COMMUNICALEOgy (AUD/AUF/ARH/ARF/SPP/SF)

A Master of Science degree is offered through the Department of Communicology that is structured to meet the preparation requirements of the American Speech and Hearing Association for the Certificate of Clinical Competence. In addition to the core subject material each student may elect to pursue a program of specialization in the areas of Speech-Language Pathology, Audiology or Aural (Re)Habilitation.

The Speech-Language Pathology and Audiology programs are accredited by the Education and Training Board of the American Board of Examiners in Speech Pathology and Audiology. The Aural (Re)Habilitation program is currently completing the accreditation process administered by the Council on Education of the Deaf. Undergraduate students enroll in a five-year program terminating in the Master of Science degree in Speech-Language Pathology, Audiology or Aural (Re)Habilitation. Students may apply for acceptance in the M.S. degree program upon attaining junior class standing, completion of the basic departmental core curriculum with a 3.0 grade point average, submitting cumulative Graduate Record Examination scores of 850 or greater (Verbal/Quantitative), and demonstrating competency in communication skills as determined by the chairperson or his/her delegate. Students may not apply for the baccalaureate degree. Programs are planned through the master’s degree at the time of acceptance.

Applicants holding a baccalaureate degree from an accredited college or university with appropriate prerequisite coursework will be eligible for admission if the following minimal requirements are met:

1. Submission of a cumulative score of 1000 or greater for the GRE aptitude tests (Verbal/Quantitative plus a grade point average of 3.0 (A=4.0) for the last half of their undergraduate coursework.

- COLLEGE OF SOCIAL AND BEHAVIORAL SCIENCES

143
2. Submission of three satisfactory letters of recommendation for graduate study, and
3. Demonstration of competency in communication skills as determined by the Chairperson or his/her delegate.

The Department is currently planning a baccalaureate program in manual communications and interpreting for the deaf. This program will include specialization in the areas of legal and medical interpreting and should be available for enrollment during the 1982-83 academic year.

Requirements for the M.S. Degree in Speech-Language Pathology—
Post-Baccalaureate (SPP)

General requirements for graduate work are already delineated by the University's Graduate School. A minimum of 30 credits is required as well as completion of sufficient coursework and practicum to meet the American Speech-Language and Hearing Association’s requirement for clinical certification in speech-language pathology. The attainment of clinical competency as determined by a minimum GPA of 3.0 in Graduate Practicum and the approval of a majority of the academic staff of the Department of Communicology is also required for graduation. The student with an existing bachelor's degree and appropriate prerequisites may plan a program from among the following courses with approval of the department chairperson or his/her delegate:

- SPA 4250 (3) SPA 5550 (4) SPA 6410 (3)
- SPA 4255 (3) SPA 5552 (4) SPA 6423 (4)
- SPA 4333 (2) SPA 5557 (1-8) SPA 6505 (1-8)
- SPA 4336 (2) SPA 5002 (3) SPA 6825 (3)
- SPA 4363 (4) SPA 5557 (1-8) SPA 6906 (var.)
- SPA 5002 (4) SPA 6305 (3) SPA 6930 (3)
- SPA 5132 (4) SPA 6322 (4) SPA 6910 (var.)
- SPA 5303 (4) SPA 6322 (4) or
- SPA 5312 (4) SPA 6345 (3) SPA 6971 (var.)

Requirements for the Combined Undergraduate/Graduate M.S. Degree in Audiology (AUD)

A minimum of 150 credits is required for the combined program. In addition to the General Distribution requirements the following courses will be required for all programs:

- LIN 3010 (3) SPA 4363 (4) SPA 6345 (3)
- LIN 4710 (3) SPA 5132 (4) SPA 6354 (3)
- SPA 3020 (4) SPA 5303 (4) SPA 6505 (1-8)
- SPA 3080 (4) SPA 5312 (4) SPA 6825 (3)
- SPA 3101 (4) SPA 5337 (4) SPA 6906 (var.)
- SPA 3117 (4) SPA 5339 (1) SPA 6910 (var.)
- SPA 4550 (1-8) SPA 5402 (1-8) or
- SPA 4333 (2) SPA 6305 (3) SPA 6971 (var.)
- SPA 4336 (2) SPA 6322 (4)

In addition, sufficient and appropriate coursework (approved by the department chairperson or his/her delegate) must be included to meet the preparation requirements of the American Speech-Language and Hearing Association for the Certificate of Clinical Competence in Audiology. The attainment of clinical competency as determined by a minimum GPA of 3.0 in Graduate Practicum and the approval of a majority of the academic staff of the Department of Communicology is also required for graduation.

Requirements for the Combined Undergraduate/Graduate M.S. Degree in Aural (Re)Habilitation (ARH)

General requirements for graduate work are already delineated by the University's Graduate School. A minimum of 30 credits is required as well as sufficient coursework, practicum and internship to meet the Florida State Department of Education certification requirements for specialization with the hearing impaired. The attainment of clinical competency as determined by a minimum GPA of 3.0 in Graduate Practicum and the approval of a majority of the academic staff of the Department of Communicology is also required for graduation. Students may plan programs with emphasis in the areas of preschool, school age, multiply handicapped, and adult hearing impaired. All teachers of the deaf programs will be planned from among courses offered by the appropriate teacher preparation areas within the College of Education as well as from the following:

- SPA 4333 (2) SPA 5339 (1) SPA 6542 (4)
- SPA 4336 (2) SPA 5402 (3) SPA 6605 (1-8)
- SPA 4363 (4) SPA 5557 (1-8) SPA 6825 (3)
- SPA 4930 (3) SPA 6305 (3) SPA 6906 (var.)
- SPA 5002 (4) SPA 6322 (4) SPA 6930 (3)
- SPA 5201 (3) SPA 6332 (4) SPA 6910 (var.)
- SPA 5303 (4) SPA 6345 (3) or
- SPA 5337 (4) SPA 6354 (3) SPA 6971 (var.)
- SPA 5338 (4)

Requirements for the Combined Undergraduate/Graduate M.S. Degree in Aural (Re)Habilitation (ARF)

A minimum of 150 credits is required for the combined programs as
well as sufficient coursework, practicum and internship to meet the Florida State Department of Education certification requirements for specialization with the hearing impaired. The attainment of clinical competence as determined by a minimum of GPA of 3.0 in Graduate Practicum and the approval of a majority of the academic staff of the Department of Communicology is also required for graduation. Students may plan programs with emphasis in the areas of preschool, school age, multiply handicapped, and adult hearing impaired. In addition to the General Distribution requirements all teachers of the deaf programs will be planned to include coursework from the appropriate teacher preparation areas within the College of Education as well as from the following:

- **LIN 3010** (3) SPA 4363 (4) SPA 6345 (3)
- **LIN 4710** (3) SPA 4930 (3) SPA 6423 (4)
- **SPA 2001** (2) SPA 5303 (4) SPA 6505 (1-8)
- **SPA 3020** (4) SPA 5337 (4) SPA 6825 (3)
- **SPA 3080** (4) SPA 5338 (4) SPA 6906 (var.)
- **SPA 3101** (4) SPA 5339 (1) SPA 6930 (3)
- **SPA 3117** (4) SPA 5557 (1-8) SPA 6910 (var.)
- **SPA 4050** (1-8) SPA 6305 (3) or SPA 4333 (2)
- **SPA 4336** (2) SPA 6332 (4) SPA 6971 (var.)

**Requirements for the Minor in Manual Communications**

A Minor in Manual Communications is available to undergraduate students interested in attaining an understanding of the communication problems associated with deafness and developing competency in receptive and expressive manual language skills.

The minor consists of the following courses which must be taken in the sequence indicated:

- **SPA 2001** (2) SPA 4336 (2) SPA 4050 (3)
- **SPA 4336** (4) SPA 4339 (1) SPA 4930 (3)
- **SPA 4333** (1)

Departmental approval for the minor must be obtained prior to enrolling in any of the required 4000-level courses.

### CRIMINAL JUSTICE (CCJ)

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

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

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

A minimum of 39 semester hours is required of all undergraduate majors in Criminal Justice including the following courses of their equivalents:

- **CCJ 3020** (3) **CCJ 3701** (3) **CCJ 4360** (3)
- **CCJ 3280** (3) **CCJ 4110** (3) **CCJ 4534** (3)
- **CCJ 3620** (3) **CCJ 5451** (3) **CCJ 4940** (9)

In addition to the above, a minimum of 6 hours in Criminal Justice must be selected by the student to complete the requirements.

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

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

Any student who receives a grade of "D" or lower in more than one USF CCJ course will be automatically barred from continuing as a Criminal Justice major. This applies only to students whose first USF CCJ course was taken during Fall Quarter (I) 1975 or thereafter.

*In-service students are required to take only 3 hours of CCJ 4940, thus reducing their major course credits to 33 semester hours.

### ECONOMICS (ECN)

#### Requirements for the B.A. Degree

Economics is one of the vital disciplines investigating the complex problems and relationships in modern society. Indeed the very breadth of economics has led to major areas within the discipline, including labor economics, international economics, urban and regional economics, monetary economics, public finance, industrial organization, comparative economic systems and the like. Students are given a sound grounding in economic theory and economic statistics to facilitate the investigation of the problems of human behavior, decision-making and organizational effectiveness in these areas.

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

- **ECO 2013** (3) **ECO 4303** (3)
- **ECO 2023** (3) **ECO 4303** (3)
- **ECO 3101** (3) **ECO 3121** (3)
- **ECO 3202** (3)

Economics majors working at the regional campuses cannot expect to fulfill all economics course requirements at those regional campuses. In addition to this, students are encouraged to select 3000-level courses in several of the applied areas during their junior year. The remaining economics electives must be selected from those upper level courses that provide the type of program that best suits the students' interests and objectives. Additional flexibility in pursuing these interests is provided by the ECO 4905 and ECO 4914 courses. However, not more than 6 hours of credit may be earned in ECO 4905 and ECO 4914.

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

#### Requirements for a Minor in Economics

A student may minor in economics by completing 18 or more credit hours in economics as follows:
(a) A minor must include these four courses in basic economics:

- ECO 2023 Economic Principles I: Microeconomics (3)
- ECO 2013 Economic Principles II: Macroeconomics (3)
- ECO 3101 Intermediate Price Theory (3)
- ECO 3202 Intermediate Income & Monetary Analysis (3)

(b) In addition, a minor must include two or more upper level courses taught in the Economics Department (excluding the variable credit courses ECO 4005, 4914), bringing the total credit hours in economics to a minimum of 18. GEB 3121, Business and Economic Statistics II, or its equivalent, is acceptable for credit in a minor.

(c) Before being recognized as a minor in economics, a student must obtain approval by the adviser in the Economics Department for courses involved in the student's minor program.

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

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

Students interested in majoring or minoring in economics are encouraged to contact the departmental adviser for more information about these programs.

### GEOGRAPHY (GPY)

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

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

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

Students are encouraged to take elective credits in a wide variety of disciplines because of the cross-disciplinary approach to geography.

Geographers typically work as urban and regional planners, ecological and environmentalists, map and aerial photographic analysts, and resource managers.

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

**Required core courses (12 credit hours):**
- ECO 2023 Economic Principles I: Microeconomics (3)
- ECO 2013 Economic Principles II: Macroeconomics (3)
- ECO 3101 Intermediate Price Theory (3)
- ECO 3202 Intermediate Income & Monetary Analysis (3)

**One of the following (4 credit hours):**
- GEO 4200C Economic Geology (4)
- GEO 4210C Economic Theory (4)

**Two of the following (8 credit hours):**
- GEO 3402 Economic Development (4)
- GEO 4440 Economic Growth (4)
- GEO 4500 Economic Policy (4)

**One course with a GEO prefix (4 credit hours):**

**Any additional 8 credit hours in geography, excluding:**

- GEO 3901
- GEO 3911C

#### Requirements for the Minor:

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

- GEO 3000
- GEO 3013
- GEO 3370

One upper level elective (GEO, GEO, MET, or URP 3000-5000 level) (4)

#### Requirements for the M.A. Degree:

General requirements for graduate work are given on page 48.

All students must complete 30 credit hours in graduate geography courses, following one of the two plans outlined below. A written and oral comprehensive examination covering the general field of geography is required before graduation, and the student must demonstrate his ability to translate into English the pertinent scientific literature from one modern foreign language. Foreign students, whose mother tongue is not English, may use English as their foreign language. A computer language (such as Fortran) may be used to meet the language requirements.

**Thesis Program:** The 30 credit hours in geography must include:

- GEO 6195
- GEO 6119
- GEO 6428
- GEO 5065
- GEO 6209C
- GEO 6971

Up to six credits outside the department may be elected with the approval of the student's committee and major professor. An oral defense of thesis is required.

**Non-Thesis Program:** The 30 credit hours in geography must include:

- GEO 6195
- GEO 6209C
- GEO 6945
- GEO 5065
- GEO 6428
- GEO 6947
- GEO 6119

The remaining credit hours must be approved by the student's committee and major professor, and may include up to six credits outside the department.

### GERONTOLOGY (GEY)

#### Undergraduate Program

The Department of Gerontology provides a core of four courses at the undergraduate level. These courses range from Introduction to Gerontology to Seminar in Selected Topics in Social Gerontology, and are designed as electives for students from a variety of areas, particularly the human service areas. More generally, the objective of the sequence of undergraduate courses is to provide students with a broad educational experience in gerontology.

#### B.A. Degree in Gerontology (Approval Pending)

Providing it is approved by the Board of Regents, a Bachelor of Arts in Gerontology degree will be offered beginning in the Fall Semester of 1983. The goal of the degree program will be to provide not only a broad educational experience in the many aspects of human aging but also classroom and field training in one of the three specialized career tracks which may be selected by the student: nursing home administration, senior center administration, or retirement housing management.

#### Minor in Human Services

An undergraduate minor in Human Services is available for students interested in pursuing careers in fields such as social welfare, health care and mental health care, rehabilitation, and corrections. This minor may be taken in conjunction with any undergraduate major but it should be particularly beneficial to persons who are majoring in such disciplines as anthropology, criminal justice, nursing, political science, psychology, social work, and sociology. The Human Services courses are closely related to the Urban Community Psychology and Gerontology Program of Distinction and will be taught by qualified faculty from the various disciplines within the College of Social and Behavioral Sciences. The Human Services minor is coordinated by the Department of Gerontology. Requirements for the minor are a total of 15 hours of the following upper-level courses:

- HUS 3001
- HUS 4020
- HUS 3505
- HUS 4700
- HUS 5325

#### Center for Applied Gerontology

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

#### Graduate Program

The Department of Gerontology offers the degree of Master of Arts in Gerontology with either a thesis or non-thesis option. The primary objective of the non-thesis Master's Program is to prepare graduates for leadership positions in the planning, development, management, delivery, and evaluation of community services for older persons. The thesis option is primarily for those students who, in addition to acquiring the kinds of knowledge and skills noted above, wish to pursue a doctoral degree at this or another University or who are interested in a research career in aging.
Thus, students who wish to work directly or indirectly with older persons upon graduation and who do not anticipate seeking doctoral level training or a research career in aging should consider the non-thesis option while those who are planning additional graduate work or have a strong interest in research should consider the thesis option.

Requirements for the M.A. Degree in Gerontology

The M.A. degree requires four semesters of full-time study—or the part-time equivalent thereof—including one semester of supervised field placement for those choosing the non-thesis option or the completion of a thesis for those electing the thesis option. The courses in the degree program were developed specifically to meet the objectives of the program and are offered under the Department of Gerontology. The M.A. degree in Gerontology requires a minimum of 38 semester hours in approved courses. Prior to beginning the program, each student will confer with a departmental adviser who will thoroughly review the student's academic background, experience, and career interests and develop an approved, individual curriculum from the available gerontology courses. Required courses for the M.A. degree include:

GEY 5620 (6) GEY 6325 (3) GEY 6450 (3)
GEY 5630 (3) GEY 6350 (3) GEY 6455 (3)

(Required for thesis option, only.)

GEY 6500 (3) GEY 6930 (1) GEY 6932 (1)
GEY 6600 (3) GEY 6931 (1) GEY 6940 (6)

Non-thesis majors are also required to take a minimum of 8 hours and thesis majors a minimum of 5 hours from the following:

GEY 5642 (3) GEY 6455 (3) GEY 6933 (1)
GEY 5645 (3) GEY 6910 (1-4) GEY 6934 (2)

There are no language requirements. However, following completion of the necessary course work, there will be a comprehensive examination designed to test the student's knowledge of and ability to integrate key concepts and information in the field of gerontology. This examination must be taken and passed before the student begins the required field placement or the required thesis. In addition to the comprehensive examination, which must be passed by all students in the M.A. program, students electing the thesis option must successfully pass an oral examination of the thesis.

Admission Requirements: To be eligible for admission to the M.A. Program, the applicant must:

1. hold a baccalaureate degree or its equivalent from an accredited college or university.
2. have a minimum score of 1000 on the Graduate Record Examination (total of quantitative and verbal aptitude scores) plus a minimum grade point average of 2.5 (A = 4.0) on the last half of courses taken for the bachelor's degree or have a minimum score of 900 on the Graduate Record Examination plus a minimum grade point average of 3.0. Students electing the thesis option may be required to have higher scores on the Graduate Record Examination and/or a higher grade point average on the last half of the courses taken for the bachelor's degree.
3. An M.A. in a related field from an accredited university may be accepted in lieu of undergraduate grade point requirements and Graduate Record Examination score requirements.
4. Applicants with significant experience and demonstrated commitment to the field of aging may be approved for admission in lieu of one or more of the above listed requirements.

Special consideration may be given to mature students (25 years of age or older) who demonstrate commitment to or experience in the field of aging.

In addition to the University Graduate Studies application, a program application is required and should be obtained from the Department of Gerontology.

■ HISTORY (HTY)

Requirements for the B.A. Degree:

A minimum of 32 semester hours is required for a major in history. Twelve hours of 2000 level courses, or their equivalent, constitute the lower level requirements. At least 12 hours of course work must be drawn from the 3000-4000 level. HIS 312 and 4936 constitute the upper level requirements for the degree. With the prior written consent of the student's adviser, majors may take up to six (6) hours of course work offered by other departments and apply these hours toward meeting the course requirements in history. The course work undertaken outside the Department of History must complement the student's program in history.

It is recommended that history majors take ENC 3130, "Advanced Expository Writing," SPC 2023, "Fundamentals of Speech Communication," LIS 2001, "Use of the Library," and additional hours drawn from the following disciplines: Afro-American Studies, Anthropology, Economics, Geography, Political Science, Interdisciplinary Social Sciences, Psychology, Philosophy, Sociology, Literature, the Humanities, and the Fine Arts. Majors intending to pursue graduate work should take a minimum of two years of classical or modern foreign language.

Requirements for the Minor:

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

■ INTERDISCIPLINARY SOCIAL SCIENCES (SSI/INT)

The Department of Interdisciplinary Social Sciences offers two academic majors; the College major (Interdisciplinary Social Sciences), which is administered by the Assistant Dean in the college, and the major in International Studies. The College major is designed for students who seek a non-degree program and a minor in Women's Studies, a minor in International Studies, and a series of interdisciplinary social science core courses; it also administers the Off-Campus Term Program. Requirements for the Interdisciplinary Social Science major, the Interna-
tional Studies' major and minor, and the minor in women's Studies are described below.

The College Major (SSI) Requirements for the B.A. Degree

The college major offers students whose educational and vocational interest and objectives cross-disciplinary lines an opportunity to undertake a program of study individually designed to serve those interests and objectives. That program of study must include 42 credits in courses offered in the college including STA 3122, Social Science Statistics and a minimum of six credits in Interdisciplinary Social Science courses. At least 28 of the 42 hours required must be upper level.

Within these parameters each student's program of study is to be evolved in consultation with and must be formally approved by the major adviser, who is the Assistant Dean. The program of study must include an area of concentration of at least 15 credits in one discipline; it will normally be expected to include a second area of concentration with either a disciplinary or multidisciplinary focus. The choice of areas of concentration and of courses within them is to be directly related to the educational goals of the student such as to provide an educational experience of excellent quality.

Students choosing the SSI major may opt for a contract emphasizing one of the following interdisciplinary fields: Human Services, Urban Studies, Women's Studies or Women's Studies and Human Services. The SSI major with emphasis in Human Services is designed around 2 core areas, one either in Anthropology, Psychology, or Sociology, and a second in Gerontology or Human Services courses. The Urban Studies emphasis is designed around the core areas of Geography and Political Science, and a cluster of urban-related courses in other social sciences. Students opting for either emphasis focusing around Women's Studies should consult with the Director of the Women's Studies Program in selecting courses to fulfill the contract, subject to final approval of the Assistant Dean. Each of these interdisciplinary options could lead to graduate study in such fields as Gerontology, Rehabilitation Counseling, Applied Anthropology, and Urban and Regional Planning.

International Studies (INT) Requirements for the B.A. Degree:

The major in International Studies is designed to enable students to undertake programs of study which will emphasize (a) preparation for careers in international activities, or (b) the study of particular international themes or topics, or (c) the study of particular regions or culture.

The program of study is developed by each student in consultation with the major adviser so as best to serve the individual's educational goals. The program is to include not less than 34 semester hours.

At least 18 of these hours (six courses) must be in the International Studies Program offerings of the Department of Interdisciplinary Social Sciences.

The six courses required are:

SSI 3221 (3) SSI 4250 (3)
SSI 3260 (3) SSI 4936 (3)

and 2 courses of 3 hours each chosen from upper level offerings of the department.

The additional 16 hours may be selected from course offerings of other departments, which are approved by the major adviser as having adequate international, regional or cultural content.

With the approval of the major adviser, credits earned in:
SSI 4900 (1-3) SSI 3955 (1-6)
SSI 4910 (1-3)
may be used to augment or substitute for the foregoing requirements.

Required Supporting Courses

One year (or equivalent proficiency) of appropriate foreign language.

Students will be provided with advice as to choices of other courses offered throughout the University which will best reinforce and complement their major program. Each student's program must be planned with the international studies adviser who is empowered to make appropriate substitutions when educationally justified.

Minor in International Studies

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

SSI 3221 (3) SSI 3260 (3)
SSI 4250 (3)

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

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

Interdisciplinary Core Courses

These courses, taught from an interdisciplinary social science perspective, focus on contemporary social problems and issues. Included is Social Science Statistics which is required for majors in Interdisciplinary Social Sciences, Anthropology, Nursing, Sociology and Social Work.

Off-Campus Term

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

Women's Studies Program

The Women's Studies Program offers a variety of courses from an interdisciplinary perspective, focusing on current research about both the evolution of attitudes towards women and on the status and condition of women today. The content of the program is designed to apply to study in many disciplines. Several of its courses are crosslisted with those of other departments, and may be taken for major credit in either Women's Studies or in the joint-listed department.

B.A. in SSI With An Emphasis in Women's Studies or Women's Studies and Human Services

Within the college major, (SSI), students may emphasize Women's Studies or Women's Studies and Human Services. Women's Studies courses focus on the most current research on women for a multi-disciplinary perspective and thus, with historical attitudes and practices concerning women as well as the status and condition of women today.

The contract for an SSI major with emphasis in Women's Studies is designed to provide a well-rounded liberal arts education based on the new knowledge about women in many fields. Such training could also serve as a pre-professional degree, e.g., as background for application to law school, for graduate study in Social Work or Rehabilitation Counseling, or for study in specific disciplines in which students wish to focus their research on women.

The SSI major with emphasis on Women's Studies and Human Services is appropriate for those who wish to work in the helping professions and whose training would benefit from a close scrutiny of some of the major issues and problems faced by women today. This B.A. could serve as a pre-professional degree for students who wish to pursue graduate study in a variety of fields, e.g., Urban or Medical Anthropology, Criminal Justice, Gerontology, Public Administration, Counselor Education.

The program of study is to be developed by each student in consultation with the Director of Women's Studies in order to best serve the individual's educational aims. A B.A. in SSI with an emphasis in Women's
Studies or Women's Studies and Human Services consists of 42 credit hours, including STA 3122 and core courses in Women's Studies.

**Minor in Women's Studies**

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

- WST 2010 or WST 2011 (Introduction to Women's Studies I or II)
- Two Women's Studies courses at the 3000 level.
- Two Women's Studies courses at the 4000 level, no more than three credit hours of which may be satisfied by WST 4900 (Directed Readings) or 4910 (Directed Research).

Students interested in minorin Women's Studies must be certified by the Program advisor.

**POLITICAL SCIENCE (POL)**

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

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

A minimum of 38 credit hours is required to satisfy the requirements of the major. Students must take the seven credit hours which make up the core curriculum, and in addition, a total of 31 credit hours in political science, of which at least 16 credit hours must be in courses at or above the 4000 level. For instructional purposes, the political science curriculum is divided into seven fields. However, there are no field requirements. Students are free to select courses from any and all fields within the curriculum.

Students transferring credit hours towards a major in political science must complete a minimum of 20 credit hours within the Department, regardless of the number of credits transferred, in order to satisfy the requirements of the major.

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

**Required Core Courses** (7 cr. hrs.)

- POS 2041 (3)
- POS 3713 (4)

**Electives from the seven fields** (31 cr. hrs.)

**Field I**

- Political Theory
  - POS 4204 (4)
  - POT 4054 (4)
  - POS 5734 (4)
  - POS 4064 (4)
  - POS 5764 (4)
  - POS 4204 (4)
  - POS 3003 (4)
  - POS 5626 (4)
  - POS 3013 (4)

**Field II**

- Comparative Government and Politics
  - CPO 3002 (4)
  - CPO 4930 (4)
  - CPO 4034 (4)
  - CPO 5934 (4)

**Field III**

- International Relations
  - INR 3002 (4)
  - INR 4403 (4)
  - INR 3105 (4)
  - INR 4592 (4)
  - INR 4334 (4)
  - INR 5806 (4)

**Field IV**

- American National and State Governments
  - POS 2041 (3)
  - POS 3453 (4)
  - POS 2112 (3)
  - POS 4413 (4)
  - POS 3173 (4)
  - POS 4424 (4)
  - POS 3182 (4)
  - POS 5094 (4)
  - POS 3273 (4)

**Field V**

- Urban Government and Politics
  - PAD 5807 (4)
  - POS 5155 (4)
  - POS 3142 (4)
  - PUP 4534 (4)
  - POS 3145 (4)
  - URP 4050 (4)
  - POS 4165 (4)

**Field VI**

- Public Administration
  - PAD 3003 (4)
  - PAD 5417 (4)
  - PAD 4204 (4)
  - PAD 5612 (4)
  - PAD 5035 (4)
  - PAD 5836 (4)
  - PAD 5333 (4)

**Field VII**

- Law and Politics
  - INR 4403 (4)
  - POS 4614 (4)
  - PAD 5605 (4)
  - POS 4624 (4)
  - POS 3285 (4)
  - POS 4693 (4)
  - POS 3493 (4)
  - POS 5699 (4)
  - POS 3691 (4)
  - POS 5767 (4)

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

- POS 4905 (1-4)
- POS 4941 (4)
- POS 4910 (1-6)
- POS 4970 (4)
- POS 4936 (4)

**Requirements for a Minor in Political Science**

A minor in political science consists of a minimum of 18 credit hours, made up of POS 2041 (3 credit hours) and an additional 16 credit hours of courses from the seven subfields in political science: Political Theory, Comparative Government and Politics, International Relations, American national and State Governments, Urban Government and Politics, Public Administration, and Law and Politics. At least 8 credit hours must be in courses at the 4000/5000 level. No more than 4 credit hours can be taken from POS 4910, POS 4941, POS 4970, and POS 4905.

A Good grade in required or elective courses is required, Subject to these limitations, students may take an undergraduate course offered in political science. There are no field or sequence requirements.

**Field Work**

The Department of Political Science has a field work program which provides students with part-time internships with state and local government and with political parties at the state and local level. Academic credit is available for such internships. For further information, contact the Department of Political Science.

**Honors in Political Science**

Honors in political science is designed for the outstanding undergraduate who seeks an intensive program plus academic recognition during the senior year. Admission to the honors sequence, which is available to all undergraduate majors, will be controlled by grade point average, personal interviews and close scrutiny of the student's program and record. Students admitted will write an honors thesis, POS 4970 (4).

**Pre-professional Plan in Political Science**

This plan is designed for students seeking an intensive undergraduate concentration in political science. Typically, students electing this plan will be oriented towards graduate work in political science or other social sciences. A minimum of 39 credit hours is required.

Students must take seven credit hours or required courses:

- POS 2041 (3)
- POS 3713 (4)

Eight additional courses in political science (32 cr. hrs.) must be taken, of which at least five must be above the 3000 level. Concentration within fields will be encouraged.

**Requirements for the Pre-Law Plan in Political Science**

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

Prior to admission to law school, a student must take the Law School Admission Test (LSAT). This test is given by the Educational Testing Service of Princeton, New Jersey.

The Law School Admission Test is given simultaneously several times each year at the University of South Florida and numerous other testing centers throughout the state. Students should plan to take the test at least one year prior to planned enrollment in law school. Additional information is available from the Department of Political Science, University of South Florida.

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

International Affairs Focus in Political Science

The Department of Political Science offers a number of courses (Fields II and III) that prepare the well motivated student for graduate study in International Relations and career opportunities in private or public transnational organizations.

Basic courses in the area include:
- Introduction to International Relations
- Introduction to Comparative Politics
- American Foreign Policy

In addition, the Department offers the following upper-level courses:
- Politics of Developing Areas
- Comparative Politics of Selected Areas
- Defense Policy
- International Law
- International Organizations
- Issues in Comparative Politics
- Issues in International Relations

Students desiring careers in international affairs or international administration are encouraged to supplement these courses with public administration offerings in the Department of Political Science and, depending on their interests, from the courses offered in the Departments of International Studies, Management, Economics, Business Administration, and Foreign Languages.

Requirements for the M.A. Degree

The graduate program leading to the M.A. in political science is designed to offer advanced general instruction in political science. It prepares its graduates for positions of responsibility in the public and private sectors as well as in research, teaching, and study at the doctoral level.

General requirements for graduate study are given on page 48. The student must complete a minimum of 34 credit hours of graduate level courses, of which at least 16 hours must be at the 6000 level. A minimum of 20 credit hours must be taken in formal, regularly-scheduled classes. Courses at the 5000 level are accepted for credit towards the degree when taken as part of a planned program, with the approval of the student's advisor and the Department of Political Science.

A minimum of 20 credit hours must be taken in political science; eight credit hours of approved electives may be taken outside the department. All graduate students must write a thesis (six credit hours) or petition for substitution with 8 hours of regular courses. Students who do not have an undergraduate major in political science or its equivalent, may be admitted to the program upon the consent of the department. Such students may be asked to take additional courses beyond the minimum requirements. Students must be registered as full-time graduate students for at least one quarter of study.

Graduate students in the M.A. program are required to take the graduate core curriculum:
POS 5734  (4) and POS 6706  (4)

For instructional purposes, the graduate curriculum in political science has been divided into seven fields:

Field I  Political Theory
POS 5734  (4) POS 6706  (4)
POS 5764  (4) POT 5626  (4)
POS 6237  (4) POT 6007  (4)

Field II  Comparative Government and Politics
CPO 5934  (4) CPO 6036  (4)
CPO 6007  (4)

Field III  International Relations
INR 5086  (4)
INR 6007  (4)

Field IV  American National and State Governments
POS 5094  (4) POS 6415  (4)
POS 6045  (4) POS 6427  (4)
POS 6095  (4) POS 6455  (4)
POS 6127  (4)

Field VI  Urban Government and Politics
PAD 5035  (4) PAD 6105  (4)
PAD 5333  (4) PAD 6207  (4)
PAD 5417  (4) PAD 6228  (4)
PAD 5612  (4) PAD 6327  (4)
PAD 5836  (4) PUP 6007  (4)
PAD 6037  (4) PUP 5440  (4)
PAD 6060  (4)

Field VII  Law and Politics
PAD 5605  (4) POS 6698  (4)
POS 6007  (4)

The following non-field courses may be used as elective hours:
POS 6909  (1-4) POS 6942  (1-6)
POS 6919  (var.) POS 6971  (6)
POS 6934  (4)

More detailed instructions on specific programmatic requirements may be obtained from the Department of Political Science.

Requirements for the M.P.A. Degree

The Master of Public Administration (M.P.A.) is primarily designed to meet the education and training needs of those students who are interested in professional careers in the public sector at all levels of government. General requirements for admission to the graduate program are given on page 48. In addition, the Department of Political Science may require letters of recommendation, provisional admission and/or additional undergraduate courses to provide the student with the background necessary for graduate study in the M.P.A. program.

Students must complete a minimum of 46 credit hours of graduate level courses, of which at least 24 credit hours must be at the 6000 level. A minimum of 8 credit hours must be taken in formal, regularly-scheduled classes. Courses at the 5000 level may be accepted for credit towards the degree when taken with the consent of a student's advisor.

The plan of study for an M.P.A. student consists of the following course distribution:

1. Eight credit hours of core courses:
   PAD 6060  (4) and
   POS 5734  (4)

2. Twenty credit hours in one of the three substantive areas:
   Area I—National and State Administrative Systems:
   PAD 5035  (4) PAD 6037  (4)
   PAD 5333  (4) PAD 6105  (4)
   PAD 5417  (4) PAD 6207  (4)
   PAD 5605  (4) POS 6095  (4)
   PAD 5612  (4) POS 6909  (1-4)
   PAD 5807  (4) POS 6919  (var.)
THE undergraduate program in Psychology offers the student a well-rounded Liberal Arts education, together with the opportunity to gain a special acquaintance with issues such as those concerning people’s role in modern society, tactics of social change, personal adjustment, and the individual in the workplace. In addition, the program provides excellent background training for qualified students who wish to pursue graduate work in disciplines such as clinical, experimental, or industrial psychology, education, gerontology, counseling, women’s studies, black studies, or community relations.

The graduate faculty of the Psychology Department is divided into three broad program areas: Clinical-Community, Experimental, and Industrial-Organizational. Each of these program areas offers Ph.D. level training as well as introductory instruction at the undergraduate level. Members of the graduate Clinical-Community faculty offer coursework and training in the areas of abnormal psychology, developmental psychology, cognitive psychology, behavioral modification, psychotherapy, personality, psychological assessment, and community psychology. Members of the graduate Experimental faculty provide direct extensive research experience in the areas of comparative psychology, electrophysiology, learning and conditioning, human memory, perception, and information processing. Members of the graduate Industrial-Organizational faculty offer training, and evaluation of employees, job motivation and satisfaction, small group analysis, organizational theory, human factors, organizational change, and evaluation.

Requirements for the B.A. Degree:

1. Area I—Urban Administration:
   - PSY 5836 (4)
   - POS 6934 (4)

2. Area II—Urban Administration:
   - PSY 5333 (4)
   - PSY 6095 (4)
   - PSY 5417 (4)
   - PSY 6157 (4)
   - PSY 5807 (4)
   - PSY 5809 (4)
   - PSY 6105 (4)
   - PSY 6919 (4)
   - PSY 6097 (4)
   - PSY 6207 (4)
   - PSY 6934 (4)
   - PSY 6228 (4)
   - PUP 6538 (4)
   - PSY 6206 (4)
   - URP 5430 (4)
   - PSY 6227 (4)
   - URP 5431 (4)
   - POS 5155 (4)
   - URP 6056 (4)

3. A minimum of twelve credit hours of electives in political science, business administration, or other courses designated by the Department.

4. Six credit hours of Field Work: POS 6942

Students must pass a comprehensive examination in the chosen substantive area. This examination may be oral or written, upon the recommendation of the student’s adviser and the consent of the department. Students may also petition the department for permission to substitute a thesis in place of the fieldwork requirement, according to procedures established by the Department.

PSYCHOLOGY (PSY)

At least two courses from each of the two groups below:

- Group I
  - EXP 4204C
  - EXP 4404
  - PSB 4013C
  - EXP 4304
  - EXP 4523C

- Group II
  - CLP 4143
  - INP 4004
  - SOP 4004
  - DEP 4005
  - PPE 4004

and 3 additional courses numbered at the 4000 level.

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

- PSY 4913 Directed research

- PSY 4205 (3) is strongly recommended for all majors and required of students planning graduate training. Functional mathematics and biological science are recommended. Otherwise, students majoring in psychology are encouraged to complete a varied undergraduate program.

Requirements for the Minor in Psychology

A minor in Psychology consists of a minimum of 15 credit hours, comprising PSY 2012, PSY 3013, and any three 4000 level psychology courses except PSY 4913. A GPA of 2.0 or better in the minor is required for certification. The purpose of the minor is to help students majoring in other disciplines to obtain an appropriate psychology background that will complement their work in their major. See the Psychology Department Undergraduate Advisor for suggested minor programs for students majoring in various fields.

Requirements for the M.A. Degree:

General requirements for graduate work are given on page 48. The student must complete 30 credit hours of graduate psychology courses. At least one course in each of the following groups:

- Group I
  - INP 6056
  - SOP 6059
  - Biological
  - EXP 6307
  - PSB 6056
  - EXP 6406
  - Individual
  - CLP 6166
  - PRO 6058
  - DEP 6058
  - Cognitive
  - EXP 6208
  - EXP 6526

The selection of these courses will be made by mutual agreement of the student and his/her Master’s Committee. Students with prior work in these areas may waive any of these courses by successfully passing a special examination given by the Psychology Department, or by seeking transfer of credit for equivalent graduate courses completed at another institution. Successful waiver may be used to reduce the overall credit hour requirement, if approved by the Psychology Department. A research thesis, PSY 6971, is required and the student must successfully pass an oral examination of the thesis and research courses.

In addition to the M.A. degree in Psychology, the Psychology Department and the Department of Educational Psychology in the College of Education jointly grant the M.A. degree in School Psychology (SE). (See College of Education, page 93.)

Requirements for the Ph.D. Degree

The Ph.D. in Psychology is offered in the fields of Clinical/Community, General Experimental and Industrial-Organizational Psychology. Advanced doctoral level specific requirements are determined by the student and his/her Ph.D. committee. Assuming that the student has completed an M.A. degree in Psychology or its equivalent, the Psychology Department requires the following in addition to the general University requirements for the Ph.D. degree, on page 53:

1. Department of Psychology graduate minor requirement. A reading knowledge of two foreign languages, or a substitution of special work done outside the student’s field of concentration approved by the student’s Doctoral Committee and the Department, is required by the University for the Ph.D. degree. The Department of Psychology requires the student to take a Graduate Minor. The Minor meets the language requirement of the Graduate School. A minor program of study, composed of work
done outside the student's field of concentration and constituted by a minimum of three appropriate level courses or their equivalent, is required by the Department for admission to Ph.D.

2. Supervised undergraduate psychology teaching experience.
3. A one-year internship in an approved clinical facility for Ph.D. students in the Clinical Psychology program.
4. Six months of internship in approved industries or community agencies as available for Ph.D. students in the Industrial-Organizational Psychology program.

Rehabilitation Counseling (REH/REF)

The mission of rehabilitation counseling is to help the disabled live normal and productive lives. Rehabilitation counselors work in a wide variety of human service settings, most frequently those serving the physically, mentally, or emotionally disabled. The Department of Rehabilitation Counseling emphasizes training in vocational, psychological, sociological, and medical aspects of disability. Graduates are prepared to work as both counselors and rehabilitation specialists.

The Department of Rehabilitation Counseling at the University of South Florida offers the M.A. degree. Most students are admitted after completing an undergraduate program in one of the behavioral, social, health related, or educational disciplines. There is some flexibility in that students may opt to enter the program while still University seniors.

The graduate program in rehabilitation counseling is fully accredited by the Council on Rehabilitation Education (CORE), the national accrediting body for rehabilitation counselor training programs. Upon completion of the program, graduates are eligible to sit for the national certification examination of the Commission on Rehabilitation Counselor Certification. After passing this examination, the graduate is registered as a Certified Rehabilitation Counselor (CRC).

In January, 1982, the State of Florida began licensing mental health counselors. Rehabilitation counseling is a graduate discipline which qualifies for licensure under this act. Licensed mental health counselors must complete an organized graduate program of 60 semester hours and meet post-master's work experience requirements.

Requirements for the M.A. Degree:

General requirements for graduate work are given on page

The Department of Rehabilitation Counseling offers the student the flexibility of entering the M.A. program while a University senior (REF) or after earning a baccalaureate degree (REH).

Minimum admission requirements for students electing the five-year approach include completion of 90 semester hours, a total Quantitative-Verbal score of at least 1000 on the GRE or a B average on all work beyond 60 semester hours, three letters of recommendation, and a personal interview. All General Distribution requirements must be completed before admission to the program. Students enrolled in a Five-Year Master's program may also earn a baccalaureate degree in another major under the conditions specified in the Academic Policies section of this catalog.

Minimum admission requirements for students entering the program as regular graduate students after they have earned a baccalaureate degree include a total Quantitative-Verbal score of at least 1000 on the GRE or a B average during the last two years of college undergraduate work or a graduate degree from an accredited institution, three letters of recommendation, and a personal interview.

The GRE must be taken by all students before applying to the program and scores received by the department before the admission deadline. New students are accepted for Fall and Spring Semesters only. The deadline for applying for admission for Fall Semester is March 30 and the deadline for Spring Semester is October 15.

In addition, all students entering the graduate program (REH/REF) must show successful completion of an acceptable undergraduate social science introductory statistics course or equivalent, or they must complete such a course during the first semester after acceptance.

The Department of Rehabilitation Counseling offers both a thesis and a non-thesis program. There is no language requirement; however, a comprehensive examination involving both written and practical work is required of all students.

The following 44-hour core courses are consistent with national certification standards of rehabilitation counselors and must be taken by all students (post-baccalaureate, five-year, thesis, and non-thesis).

Additional requirements for graduation include:

Non-thesis program: Students in the non-thesis program must complete a minimum of 60 semester hours in the post-baccalaureate program and a total of no less than 150 semester hours in the five-year program (including the 44-hour core courses). Additional hours to complete either the minimum of 60 credit hours or the minimum of 150 credit hours may be elected from other rehabilitation counseling offerings or from related programs with the consent of the student's adviser.

Thesis program: Students in the thesis program must complete a minimum of 47 semester hours in the post-baccalaureate program (44-hour core courses plus 3 credit hours of EGC 6971), and a total of no less than 150 semester hours in the five-year program (44-hour core courses plus 3 credit hours of EGC 6971). Additional hours to complete the minimum of 150 credit hours for students in the five-year program may be elected from other rehabilitation counseling offerings or from related programs with the consent of the student's adviser. An oral defense of the thesis is required.

Social Work (SOK)

Undergraduate Study

The University of South Florida offers a program leading to a Bachelor of Social Work (B.S.W.) degree in the Department of Social Work, College of Social and Behavioral Sciences. This program has been developed in accordance with the guidelines set forth by the Council on Social Work Education, the national accrediting body for social work education programs, and in accordance with the recommendations of the National Association of Social Workers. The B.S.W. program is fully accredited by the Council on Social Work Education.

The primary objective of the B.S.W. program is the preparation of the graduate for beginning level professional practice as a social work generalist.

The secondary objectives of the B.S.W. program are:
1. to provide for the social work human resources needs of the University service district (the central Florida west coast area), the State of Florida, and the Southeast Region;
2. to prepare graduates for additional professional training at the graduate level in social work or in related human service professions;
3. to provide an exposure to social work as a profession and to contemporary issues in the social welfare field to non-social work majors and others in the community.

In preparing the B.S.W. graduate for beginning professional practice, the curriculum provides the student with an opportunity to develop a knowledge base and skill base as a "generalist" practitioner. The student
will develop an understanding of various interventive methods, and skill in their application to a variety of client systems. For example, interventive methods may take the form of individual and group counseling, resource development, consultation, teaching, advocacy, etc. Client systems may be individuals, families, groups, community groups, organizations, social welfare organizations, etc. The student will develop an understanding of the dynamics of human behavior in individual, group and organizational contexts and the influences of the sociocultural environment upon those behaviors. The student will learn about the development of social welfare systems and institutions and the social, economic, and political processes affecting policy development and program implementation. The student will develop an understanding of the utilization of basic social research skills particularly related to the processes of problem-solving, planning, and evaluation.

The student will also become aware of the value base of the profession and engage in a self-examination process as it relates to the development and reflection of ethical and effective professional practice. The B.S.W. program, as any professional program, places great emphasis on the development of a professionally responsible graduate in terms of one's obligations to the client system served, the profession itself, the organization in which one works, and to the general public which ultimately provides any profession with legitimacy.

Enrollment in the B.S.W. program is limited. Unlike many academic programs where the student may declare a major, the B.S.W. program is a limited access program. Students may apply for admission to the program after having satisfied the admission criteria described below. However, the completion of the prerequisites does not guarantee the student's admission to the program. Limited state funding places constraints on the size of the social work faculty and in order to maintain a high quality of instruction it is necessary to achieve an appropriate faculty-student ratio. This means that it may be necessary to deny admission to the B.S.W. program solely on the basis of no availability space. Any student filing intent to seek admission or actually applying for admission to the program should be aware of this possibility.

Additionally, any student who does not maintain a GPA of at least 2.75 in social work courses while enrolled in the B.S.W. program or who clearly does not exhibit responsible professional behavior, may be subject to dismissal from the program. A social work major receiving a grade of less than "C" in a core course will be required to repeat the course.

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

Admission requirements for the social work major are as follows:

1. A student must have completed a minimum of one semester as a pre-social work major;
2. A student must have completed required pre-core courses (see listing);
3. A student must have a minimal grade point average of 2.75 for all U.S.F. work completed;
4. A student must complete an application for admission and file it with the Department of Social Work at the beginning of the Semester in which admission is sought;
5. A student must complete an admission interview with a favorable action from the Admissions Committee.

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

Pre-Core Courses

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

   Sex, Reproduction and Population
   - Fundamentals of Biology
   - Economics
   - Contemporary Economic Problems
   - Microeconomics
   - Macroeconomics
   - Political Science
   - American National Government
   - State and Local Government
   - Florida Politics and Government
   - Psychology
   - Introduction to Contemporary Psychology
   - Contemporary Problems in Psychology
   - General Psychology
   - Sociology
   - Introduction to Sociology
   - Contemporary Social Problems
   - Social Psychology

2. A student must complete one of the following cross-cultural courses.
   - African and Afro-American Studies
   - Introduction to Afro-American Studies
   - Social Institutions and the Ghetto
   - Black Americans in the American Economic Process
   - Blacks in American Political Process
   - Anthropology
   - Introduction to Anthropology
   - Anthropological Perspective
   - Cultural Anthropology
   - History
   - Immigration History
   - Sociology
   - Racial and Ethnic Relations
   - Women's Studies
   - Introduction to Women's Studies
   - Contemporary Women in the United States
   - Psychology of Women
   - Women in Cross-Cultural Perspective

3. A student must complete one of the following behavior courses.
   - Human Services
   - The Life Cycle
   - Psychology
   - Developmental Psychology

4. A student must complete SOW 3203, Introduction to Social Welfare and Social Work, with a minimum grade of "B".

Requirements for the B.S.W. Degree (Core Courses)

1. Human Behavior and Social Environment Courses
   - SOW 3101 (3)
   - SOW 3102 (3)

2. Social Welfare Policy & Service Course
   - SOW 4233 (4)

3. Social Research Course
   - SOW 3403 (4)

4. Social Work Practice Courses
   - SOW 4341 (5)
   - SOW 4343 (5)

5. Directed Field Experience
   - SOW 4510 (10)

6. Additional Requirements
   - SOW 4361 (3)

Summary:

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Field Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>27 hours</td>
<td>10 hours</td>
</tr>
<tr>
<td>37 hours</td>
<td></td>
</tr>
</tbody>
</table>

Graduate Study

The University of South Florida offers a program leading to a Master's of Social Work (M.S.W.) degree in the Department of Social Work, College of Social and Behavioral Sciences. This program has been developed in accordance with the guidelines set forth by the Council on Social Work Education, the national accrediting body for social work education programs, and in accordance with the recommendations of the National Association of Social Workers. The MSW program is in candidacy for full accreditation by the Council on Social Work Education.

The primary objective of the MSW program is the preparation of the
graduate for professional social work practice through the provision of specialized knowledge and skills necessary for clinical practice with individuals, families and groups. The secondary objectives of the MSW program are: 1) to prepare students academically for pursuit of doctoral education in social work or related human service disciplines or professions; 2) to contribute to the needed supply of professionally trained clinical social workers in the Tampa Bay area, the State, the region and nationally.

The MSW program offers a specialized course of study in direct clinical practice. The program offers students a core curriculum plus electives and a supervised field experience designed to produce practitioners with individual, family and group practice skills. The program will emphasize broad health and mental health concerns and will offer students optional concentrations in the target populations of child/youth and adults/elderly.

The MSW program is designed to produce specific competencies for clinical practice. Graduates of the MSW program can reasonably be expected to: 1) demonstrate practice competency in relationship skills; 2) demonstrate knowledge of the interrelationships in the biological, psychological and sociocultural factors in human life including the impact of disease, injury and emotional distress and their implications for social work practice; 3) demonstrate skill in methods of scientific inquiry for the purpose of advancing professional knowledge and skill; 4) demonstrate basic skill in the application of a range of social work treatment methodologies for the purpose of differential diagnosis and intervention; 5) demonstrate practice competency in applying a psychosocial approach to the assessment of human problems; 6) demonstrate practice competency in applying a psychosocial approach to treatment of human problems through the modes of individual, family and group modalities; 7) demonstrate a basic knowledge of managerial processes in social services, including program planning, personnel management, finance and evaluation. In addition to producing the referenced practice competencies the MSW program places a great emphasis on standards of professional behavior and ethics in the practice of social work. The MSW program is designed to produce a competent and professionally responsible graduate.

Students admitted to the MSW program will be expected to maintain a minimum GPA of 3.0 with no grade below C counting toward graduation. Failure to maintain the specified grade point or to exhibit responsible professional behavior may result in suspension or dismissal from the program.

Students will be admitted to the MSW program once a year with new classes starting Semester I of each academic year (August). The course of study consists of 60 credit hours taken over four semesters. The curriculum is heavily sequenced and students must enroll on a full-time basis. Failure to maintain full-time enrollment will result in dismissal from the program. All students will be required to obtain professional liability insurance prior to enrollment in field courses.

Admission requirements for the MSW program are as follows:

1. An applicant must submit a completed application form to the Department of Social Work by March 1 for admission to the following Fall Semester (GRE scores may be submitted later upon arrangement with the Department);
2. An applicant must have a minimum grade average of 3.0 for the last two years of undergraduate work and/or for any graduate work completed;
3. An applicant must submit current GRE scores;
4. An applicant must have previous social service related experience (minimum of one year post undergraduate work or equivalent);
5. An applicant must be a professional served and/or supervised in a field setting in a position to assume the responsibilities of a graduate level social worker.
6. An applicant must complete a brief written statement on social work practice (to be assigned by the Department);
7. An applicant must participate in an admissions interview with the Admissions Committee (with favorable action).

Requirements for the M.S.W. Degree

A. Human Behavior and Social Environment Courses
1. SOW 6105 (4)
2. SOW 6121 (3)
3. SOW 6126 (2) or SOW 6129 (2)

B. Social Work Practice Courses
1. SOW 6360 (5)
2. SOW 6362 (3)
3. SOW 6368 (3)
4. SOW 6356 (2) or SOW 6359 (2)
5. SOW 6375 (2)

C. Policy and Services Course
1. SOW 6235 (4)

D. Social Work Research Courses
1. SOW 6404 (3)
2. SOW 6432 (3)
3. SOW 6433 (3)

E. Supervised Field Experience
1. SOW 6534 (4)
2. SOW 6535 (6)
3. SOW 6536 (4)

F. Additional Requirements
1. Electives (9)

Summary
Core Courses 37 hours
Field Experiences 14 hours
Electives 9 hours
Total 60 hours

### SOCIOLOGY (SOC)

Sociology offers both a major and a minor. As an undergraduate major, sociology provides students with three different kinds of program concentrations. One, attractive to the majority of possible students, may be described as “useful sociology.” Many of the courses taken involve skills valuable in employment. For example, in a research methods course, interviewing skills can be used in sales, personnel work, social action careers, management, as well as in research. Similarly, careers which involve interpersonal relations can benefit enormously from courses in social psychology or small group analysis. Also, pre-professional training, as in law school, business administration, social work, and the like, can rest on courses that have “useful” aspects in them. Another concentration can be styled that of “liberal education.” In this concentration, the central point is the question of the nature of man, the social being. Experience has shown that the truly liberally educated person is prepared for a variety of life experiences because that person understands how to ask important questions and how to go about getting answers. More importantly, the liberally educated person is equipped to take seriously the matter of being a human being. Sociology courses are aimed largely at problems on the nature of one’s social world, the nature of man collectively, and on the individual person—the student as a unique being. Finally, sociology can be a major in the sense that it represents an intellectual discipline. Some students will find that it is interesting in its own right and that they would like to continue educational pursuits beyond the bachelor’s degree.

These different concentrations differ as much in the attitude of the student taking the courses as in the selection of courses making up the individual program of study. They are not logically distinct concentrations; any one course may have elements of all three. For example, a student majoring in sociology as an academic discipline may at the same time in- lead to satisfying employment. Students should understand that sociology majors are not restricted to social work or even social action types of careers.

Careers for which a major in sociology seems appropriate, judging from those who have so majored and succeeded in their fields, cover a wide range of lines utilizing interpersonal relations. Law, for example, is well populated on sociology. So are personnel related careers, as in counseling. Similarly, knowledge of social relations, social structure, and class differences appear valuable to the entire spectrum of sales opportunities. Generally speaking, any career dealing with the public in a direct or indirect way will benefit from training in sociology. The benefits derive either from the knowledge gained or the skills (as in interviewing, a funda- mental aspect of any formal system of people interacting with each

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOW 6534</td>
<td>Supervised Field Experience (4 credit hours)</td>
</tr>
<tr>
<td>SOW 6535</td>
<td>37 hours</td>
</tr>
<tr>
<td>SOW 6536</td>
<td>14 hours</td>
</tr>
<tr>
<td>Electives</td>
<td>9 hours</td>
</tr>
<tr>
<td>Total</td>
<td>60 hours</td>
</tr>
</tbody>
</table>
other), or both. Specific elective courses should reflect individual differences and the student’s departmental major adviser will assist each one in making particular choices.

As an undergraduate minor, Sociology serves as a convenient body of knowledge and experience for a variety of disciplines. For the major in Mass Communications, for example, a Sociology minor would give some substance to stories and insights to backgrounds of stories thus enabling a reporter better to do an assigned job. Those majoring in Sales would similarly have an understanding of the process of whatever organization they work in or for, as well as a knowledge of the public. Similarly, students in advertising, politics, religion, counseling, aging studies, criminal justice, and related areas will find a sociological minor of particular value. Finally, those seeking to teach social studies at the high school level will find a minor in Sociology compatible with their interests.

Requirements for the Major (B.A. Degree)

The major consists of a minimum of 30 credit hours. The following courses may not be coupled in the 30 hour minimum for the major but may be elected as additional courses: SOC 1020, MAF 2001, SOC 3696. No more than 3 credit hours of Individual Research (SOC 4910) may be counted as major elective credit. A model program of recommended sequences may be obtained from the Department of Sociology.

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

SOC 2000 (3) SOC 3612 (3) STA 3122 (3)
SOC 3500 (3) SOC 3800 (3)
and either SOC 3410 (3) or SOC 3422 (3)

For students electing a major after having successfully taken 12 upper division credits without having had a formal Introductory course, SOC 3422, Social Organization, may be substituted for SOC 2000 as a requirement. Students making this choice must take SOC 3410 to meet the additional requirement stated above.

Requirements for a Minor:

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

Requirements for the M.A. Degree:

A minimum of 32 credit hours and a thesis.

Required Courses (17 hrs.)
SOC 6502 (3) SOC 6699 (1)
SOC 6526 (4) SOC 6971 (6)
SOC 6606 (3)

University requirements for graduate study are given on page 48. Admission to the M.A. Program: Satisfactory score on the Graduate Record Examination (Aptitude); two letters of reference from previous instructors; four courses in sociology, including statistics, theory, and methods of research (STA 3122, SOC 3612, SOC 3500, or equivalent). Documents are sent to the Office of Admissions. Instructions for applicants are available from the Department of Sociology.
Courses offered for credit by the University of South Florida are listed on the following pages in alphabetical order by college and subject area. The first line of each description includes the State Common Course prefix and number (see below), title of the course, and number of credits.

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

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

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

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

Credits separated by a hyphen indicates 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:

- GR See Grades in the Graduate Program heading in the Division of Graduate Schools, page 48.
- PR Prerequisite
- CI With the consent of the instructor
- CC With the consent of the chairperson of the department or program
- CR Corequisite
- Lec. Lecture
- Lab. Laboratory
- Dem. Demonstration
- Pro. Problem
- Dis. Discussion

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

### Alphabetical Listing of Departments and Programs

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

<table>
<thead>
<tr>
<th>Department/Program</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>Social and Behavioral Sciences</td>
</tr>
<tr>
<td>Administration/Supervision</td>
<td>Education</td>
</tr>
<tr>
<td>Adult Education</td>
<td>Education</td>
</tr>
<tr>
<td>African and Afro-American Studies</td>
<td>Social and Behavioral Sciences</td>
</tr>
<tr>
<td>American Studies</td>
<td>Education</td>
</tr>
<tr>
<td>Ancient Studies (Religious Studies)</td>
<td>Arts and Letters</td>
</tr>
<tr>
<td>Anthropology</td>
<td>Social and Behavioral Sciences</td>
</tr>
<tr>
<td>Arabic (Language)</td>
<td>Arts and Letters</td>
</tr>
<tr>
<td>Art</td>
<td>Social and Behavioral Sciences</td>
</tr>
<tr>
<td>Art Education</td>
<td>Arts and Letters</td>
</tr>
<tr>
<td>Astronomy</td>
<td>Natural Sciences</td>
</tr>
<tr>
<td>Basic and Interdisciplinary Engineering</td>
<td>Education</td>
</tr>
<tr>
<td>Biology</td>
<td>Natural Sciences</td>
</tr>
<tr>
<td>Botany (Biology)</td>
<td>Education</td>
</tr>
<tr>
<td>Business and Office Education</td>
<td>Natural Sciences</td>
</tr>
<tr>
<td>Education</td>
<td>Engineering</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Engineering</td>
</tr>
<tr>
<td>Chemical and Mechanical Engineering</td>
<td>Engineering</td>
</tr>
<tr>
<td>Civil Engineering and Mechanics</td>
<td>Engineering</td>
</tr>
<tr>
<td>Classics</td>
<td>Arts and Letters</td>
</tr>
<tr>
<td>Common Body of Knowledge</td>
<td>Business Administration</td>
</tr>
<tr>
<td>Communication</td>
<td>Education</td>
</tr>
<tr>
<td>Communication-Speech Communication</td>
<td>Arts and Letters</td>
</tr>
<tr>
<td>Communication</td>
<td>Social and Behavioral Sciences</td>
</tr>
<tr>
<td>Communicology</td>
<td>Education</td>
</tr>
<tr>
<td>Computer Science and Engineering</td>
<td>Social and Behavioral Sciences</td>
</tr>
<tr>
<td>Educator</td>
<td>Education</td>
</tr>
<tr>
<td>Cooperative Education</td>
<td>Education</td>
</tr>
<tr>
<td>Counseling Education</td>
<td>University-wide Courses</td>
</tr>
<tr>
<td>Criminal Justice</td>
<td>Education</td>
</tr>
<tr>
<td>Curriculum</td>
<td>Education</td>
</tr>
<tr>
<td>Dance</td>
<td>Education</td>
</tr>
<tr>
<td>Distributive and Marketing Education</td>
<td>Education</td>
</tr>
<tr>
<td>Economics</td>
<td>Education</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>Business Administration</td>
</tr>
<tr>
<td>Elementary Education</td>
<td>Engineering</td>
</tr>
<tr>
<td>Emotional Disturbance Education</td>
<td>Engineering</td>
</tr>
<tr>
<td>Education</td>
<td>Engineering</td>
</tr>
<tr>
<td>Engineering Technology</td>
<td>Education</td>
</tr>
<tr>
<td>Exceptional Child Education</td>
<td>Education</td>
</tr>
<tr>
<td>Finance</td>
<td>Business Administration</td>
</tr>
<tr>
<td>Foreign Language Education</td>
<td>Education</td>
</tr>
<tr>
<td>Foundation Courses in Business (Graduate)</td>
<td>Arts and Letters</td>
</tr>
<tr>
<td>French (Language)</td>
<td>Education</td>
</tr>
<tr>
<td>General Business Administration</td>
<td>Education</td>
</tr>
<tr>
<td>General Foreign Languages</td>
<td>Education</td>
</tr>
<tr>
<td>Geography</td>
<td>Education</td>
</tr>
<tr>
<td>Geology</td>
<td>Education</td>
</tr>
<tr>
<td>Gerontology</td>
<td>Education</td>
</tr>
<tr>
<td>German (Language)</td>
<td>Education</td>
</tr>
<tr>
<td>Gifted Child Education</td>
<td>Education</td>
</tr>
<tr>
<td>Greek (Classics)</td>
<td>Education</td>
</tr>
<tr>
<td>Health Education</td>
<td>Education</td>
</tr>
<tr>
<td>Hebrew (Language)</td>
<td>Education</td>
</tr>
<tr>
<td>Higher Education</td>
<td>Education</td>
</tr>
<tr>
<td>History</td>
<td>Education</td>
</tr>
<tr>
<td>Honors Program</td>
<td>Education</td>
</tr>
<tr>
<td>University-wide Courses</td>
<td>Education</td>
</tr>
<tr>
<td>University-wide Courses</td>
<td>Education</td>
</tr>
<tr>
<td>University-wide Courses</td>
<td>Education</td>
</tr>
</tbody>
</table>

156
<table>
<thead>
<tr>
<th>Department/Program</th>
<th>College</th>
<th>Department/Program</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities</td>
<td>Arts and Letters</td>
<td>Off-Campus Term</td>
<td>Social &amp; Behavioral Sciences</td>
</tr>
<tr>
<td>Humanities Education</td>
<td>Education</td>
<td>Philosophy</td>
<td>Arts and Letters</td>
</tr>
<tr>
<td>Human Services</td>
<td>Social and Behavioral Sciences</td>
<td>Physical Education</td>
<td>University-wide Courses</td>
</tr>
<tr>
<td>Industrial and Management Systems Education</td>
<td></td>
<td>(Elective)</td>
<td></td>
</tr>
<tr>
<td>Industrial/Technical Education</td>
<td>Education</td>
<td>Physical Education for Teachers</td>
<td></td>
</tr>
<tr>
<td>International Studies Program</td>
<td></td>
<td>Physics</td>
<td></td>
</tr>
<tr>
<td>Italian (Language)</td>
<td></td>
<td>Political Science</td>
<td></td>
</tr>
<tr>
<td>Latin (Classics)</td>
<td>Arts and Letters</td>
<td>Portuguese (Language)</td>
<td></td>
</tr>
<tr>
<td>Liberal Studies</td>
<td>Arts and Letters</td>
<td>Psychology</td>
<td></td>
</tr>
<tr>
<td>Library, Media and Information Studies</td>
<td>Education</td>
<td>Reading Education</td>
<td></td>
</tr>
<tr>
<td>Linguistics</td>
<td></td>
<td>Rehabilitation Counseling</td>
<td></td>
</tr>
<tr>
<td>Management</td>
<td>Arts and Letters</td>
<td>Religious Studies</td>
<td></td>
</tr>
<tr>
<td>Marine Science</td>
<td>Business Administration</td>
<td>Romance (Language)</td>
<td></td>
</tr>
<tr>
<td>Marketing</td>
<td>Natural Sciences</td>
<td>Russian (Language)</td>
<td></td>
</tr>
<tr>
<td>Mass Communications</td>
<td>Business Administration</td>
<td>Science Education</td>
<td></td>
</tr>
<tr>
<td>Mathematics Education</td>
<td>Arts and Letters</td>
<td>Social Science Education</td>
<td></td>
</tr>
<tr>
<td>Mathematics Education</td>
<td>Natural Sciences</td>
<td>Social Sciences, Interdisciplinary</td>
<td></td>
</tr>
<tr>
<td>Mathematics Education</td>
<td>Education</td>
<td>Social Work</td>
<td></td>
</tr>
<tr>
<td>Mathematics Education</td>
<td></td>
<td>Sociology</td>
<td></td>
</tr>
<tr>
<td>Mathematics Education</td>
<td></td>
<td>Spanish (Language)</td>
<td></td>
</tr>
<tr>
<td>Measurement-Research</td>
<td>Education</td>
<td>Specific Learning</td>
<td></td>
</tr>
<tr>
<td>Medical Sciences</td>
<td>Natural Sciences</td>
<td>Disabilities Education</td>
<td></td>
</tr>
<tr>
<td>Medical Technology</td>
<td>University-wide Courses</td>
<td>Speech Communication-English Education</td>
<td></td>
</tr>
<tr>
<td>Mental Retardation</td>
<td>Fine Arts</td>
<td>Theatre</td>
<td></td>
</tr>
<tr>
<td>Education</td>
<td>Education</td>
<td>Women's Studies</td>
<td></td>
</tr>
<tr>
<td>Microbiology (Biology)</td>
<td></td>
<td>Zoology (Biology)</td>
<td></td>
</tr>
<tr>
<td>Military Science</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Music</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Music Education</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nursing</td>
<td></td>
<td></td>
<td></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>
<th>College/Department/Program</th>
<th>Cross-Listing of Departments and Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>University-wide Courses</td>
<td>COE, IDS, MIS, DAA, PEL, PEM, PEN</td>
<td>Liberal Studies</td>
<td>IDS, ESL, LIN, PHI, TSL, PHH, PHI, PHM, PHP, CLA, HEB</td>
</tr>
<tr>
<td>Cooperative Education</td>
<td></td>
<td>Linguistics</td>
<td></td>
</tr>
<tr>
<td>Honors Program</td>
<td></td>
<td>Mass Communications</td>
<td></td>
</tr>
<tr>
<td>Military Science</td>
<td></td>
<td>Philosophy</td>
<td></td>
</tr>
<tr>
<td>Physical Education, Elective</td>
<td></td>
<td>Religious Studies</td>
<td></td>
</tr>
<tr>
<td>College of Arts and Letters</td>
<td></td>
<td>Ancient Studies</td>
<td></td>
</tr>
<tr>
<td>American Studies</td>
<td>AMS, CLT, GRE, GRW, COM, LIN, ORI, SED, SPC, AML, CRW, ENC, ENG, ENL, LAE, LIN, LIT, REA, HUM</td>
<td>College of Business Administration</td>
<td>ACC, GEB, ECO, ECP, ECS, GEB, FIN, RMI, BUL, COC, GEB, MAN, QMB, MAR</td>
</tr>
<tr>
<td>Classics</td>
<td></td>
<td>Accounti ng</td>
<td></td>
</tr>
<tr>
<td>Greek</td>
<td></td>
<td>Common Body of Knowledge (Graduate)</td>
<td></td>
</tr>
<tr>
<td>Latin</td>
<td></td>
<td>Economics</td>
<td></td>
</tr>
<tr>
<td>Communication</td>
<td></td>
<td>Finance</td>
<td></td>
</tr>
<tr>
<td>English</td>
<td></td>
<td>General Business</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td>Administration</td>
<td></td>
</tr>
<tr>
<td>Language</td>
<td></td>
<td>Management</td>
<td></td>
</tr>
<tr>
<td>General Foreign Languages</td>
<td></td>
<td>Marketing</td>
<td></td>
</tr>
<tr>
<td>Arabic</td>
<td>FOL, ARA</td>
<td>College of Education</td>
<td></td>
</tr>
<tr>
<td>French</td>
<td></td>
<td>Administration/Supervision</td>
<td></td>
</tr>
<tr>
<td>German</td>
<td></td>
<td>Adult Education</td>
<td></td>
</tr>
<tr>
<td>Hebrew</td>
<td></td>
<td>Art Education</td>
<td></td>
</tr>
<tr>
<td>Italian</td>
<td></td>
<td>Business and Office Education</td>
<td></td>
</tr>
<tr>
<td>Portuguese</td>
<td></td>
<td>Communication-Speech</td>
<td></td>
</tr>
<tr>
<td>Romance</td>
<td></td>
<td>Communication</td>
<td></td>
</tr>
<tr>
<td>Russian</td>
<td></td>
<td>Counselor Education</td>
<td></td>
</tr>
<tr>
<td>Spanish</td>
<td></td>
<td>Curriculum</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Distributive and</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marketing Education</td>
<td></td>
</tr>
</tbody>
</table>

### Cross-Listing of Departments and Programs

<table>
<thead>
<tr>
<th>College/Department/Program</th>
<th>Common Course Prefixes</th>
<th>College/Department/Program</th>
<th>Cross-Listing of Departments and Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>University-wide Courses</td>
<td>COE, IDS, MIS, DAA, PEL, PEM, PEN</td>
<td>Liberal Studies</td>
<td>IDS, ESL, LIN, PHI, TSL, PHH, PHI, PHM, PHP, CLA, HEB</td>
</tr>
<tr>
<td>Cooperative Education</td>
<td></td>
<td>Linguistics</td>
<td></td>
</tr>
<tr>
<td>Honors Program</td>
<td></td>
<td>Mass Communications</td>
<td></td>
</tr>
<tr>
<td>Military Science</td>
<td></td>
<td>Philosophy</td>
<td></td>
</tr>
<tr>
<td>Physical Education, Elective</td>
<td></td>
<td>Religious Studies</td>
<td></td>
</tr>
<tr>
<td>College of Arts and Letters</td>
<td></td>
<td>Ancient Studies</td>
<td></td>
</tr>
<tr>
<td>American Studies</td>
<td>AMS, CLT, GRE, GRW, COM, LIN, ORI, SED, SPC, AML, CRW, ENC, ENG, ENL, LAE, LIN, LIT, REA, HUM</td>
<td>College of Business Administration</td>
<td>ACC, GEB, ECO, ECP, ECS, GEB, FIN, RMI, BUL, COC, GEB, MAN, QMB, MAR</td>
</tr>
<tr>
<td>Classics</td>
<td></td>
<td>Accounti ng</td>
<td></td>
</tr>
<tr>
<td>Greek</td>
<td></td>
<td>Common Body of Knowledge (Graduate)</td>
<td></td>
</tr>
<tr>
<td>Latin</td>
<td></td>
<td>Economics</td>
<td></td>
</tr>
<tr>
<td>Communication</td>
<td></td>
<td>Finance</td>
<td></td>
</tr>
<tr>
<td>English</td>
<td></td>
<td>General Business</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td>Administration</td>
<td></td>
</tr>
<tr>
<td>Language</td>
<td></td>
<td>Management</td>
<td></td>
</tr>
<tr>
<td>General Foreign Languages</td>
<td></td>
<td>Marketing</td>
<td></td>
</tr>
<tr>
<td>Arabic</td>
<td>FOL, ARA</td>
<td>College of Education</td>
<td></td>
</tr>
<tr>
<td>French</td>
<td></td>
<td>Administration/Supervision</td>
<td></td>
</tr>
<tr>
<td>German</td>
<td></td>
<td>Adult Education</td>
<td></td>
</tr>
<tr>
<td>Hebrew</td>
<td></td>
<td>Art Education</td>
<td></td>
</tr>
<tr>
<td>Italian</td>
<td></td>
<td>Business and Office Education</td>
<td></td>
</tr>
<tr>
<td>Portuguese</td>
<td></td>
<td>Communication-Speech</td>
<td></td>
</tr>
<tr>
<td>Romance</td>
<td></td>
<td>Communication</td>
<td></td>
</tr>
<tr>
<td>Russian</td>
<td></td>
<td>Counselor Education</td>
<td></td>
</tr>
<tr>
<td>Spanish</td>
<td></td>
<td>Curriculum</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Distributive and</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marketing Education</td>
<td></td>
</tr>
</tbody>
</table>
Elementary Education
Emotional Disturbance Education
English Education
Exceptional Child Education
Foreign Language Education
Foundations
Gifted Child Education
Health Education
Higher Education
Humanities Education
Industrial/Technical Education
Library, Media, and Information Studies
Mathematics Education
Measurement-Research Education
Mental Retardation Education
Music Education
Physical Education for Teachers
Reading Education
Science Education
Social Science Education
Specific Learning Disabilities Education
Speech Communication-English Education

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

College of Fine Arts
Art
Dance
Music

College of Medicine
Medicine
Medical Sciences

College of Natural Sciences
Astronomy
Biological Sciences
Botany Courses
Microbiology Courses
Zoology Courses
Chemistry
Geology
Geography
Geography Courses
Oceanography Courses

College of Nursing
Nursing

College of Social and Behavioral Sciences
African and Afro-American Studies
Anthropology
Archaeology Courses
Criminal Justice
Geography
Geography Courses
History
Human Services
International Studies
Off-Campus Term
Political Science
Psychology
Rehabilitation Counseling
Social Sciences
Social Work

Cross-Listing Departments/Programs
Alphabetically by Prefix

Common Course Prefix

Department/Programs

American and Afro-American Studies, History
African and Afro-American Studies
Anthropology, Women's Studies
Arabic (Language)
Art Education, Elementary Education

Cross-Listing Departments/Programs
Alphabetically by Prefix

Common Course Prefix

Department/Programs

American and Afro-American Studies, History
African and Afro-American Studies
Anthropology, Women's Studies
Arabic (Language)
Art Education, Elementary Education
COURSE DESCRIPTIONS

COOPERATIVE EDUCATION

Director: G. F. Lentz; Coordinators: L. J. Berman, TBA.

UNDERGRADUATE COURSES

COE 1940 COOPERATIVE EDUCATION, 
1ST TRAINING PERIOD
PR: COE 2940. (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 1941. (S/U only.)

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

PSB Psychology
PSY Psychology
PUR African and Afro-American Studies, Political Science
PUR Mass Communications
PUN General Business Administration, Management
REA English
RED Elementary Education, Reading Education
REE Finance
REL Religious Studies, Women’s Studies
RMI Finance
RUS Russian (Language)
RUT Russian (Language)
RUW Russian (Language)
SCE Elementary Education, Science Education
SED Communication, Communication-Speech Communication,
Speech Communication-English Education
SOC Sociology
SOP Psychology, Women’s Studies
SUR Human Services, Social Work
SPA Communicology
SPC Communication
SPN Spanish (Language)
SPS Foundations
SPT Spanish (Language)
SPW Spanish (Language)
SSE Elementary Education, Social Science Education
SSI African and Afro-American Studies, International
Studies Program, Social Sciences Interdisciplinary
STA Mathematics, Social Sciences Interdisciplinary
STB Civil Engineering and Mechanics
THE Theatre
TTP Theatre
TSL Linguistics
TTE Civil Engineering and Mechanics
URP Geography, Political Sciences
VIC Mass Communications
WOH History
WST International Studies Program, Women’s Studies
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

UNIVERSITY-WIDE COURSES

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

COE 3945 COOPERATIVE EDUCATION, 
5TH 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, 
7TH TRAINING PERIOD
PR: COE 3946. (S/U only.)

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

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

Director: David Schienck

UNDERGRADUATE COURSES

IDS 3901 HONORS PROGRAM READING SEMINAR (3)
PR: Admission to University Honors Program.

IDS 3902 HONORS PROGRAM READING SEMINAR (3)
PR: Admission to University Honors Program.

IDS 3931 HONORS PROGRAM SELECTED TOPICS (3)
PR: Admission to University Honors Program.

IDS 4938 HONORS PROGRAM SENIOR SEMINAR (3)
PR: Admission to University Honors Program.

MILITARY SCIENCE

UNDERGRADUATE COURSES

MIS 1010C INTRODUCTION TO MILITARY SCIENCE (3)

MIS 3410C FUNDAMENTALS OF LEADERSHIP (3)
PR: MIS 1010C, or CI. The dual role of the military officer as leader and manager; problems of military leadership in the volunteer army; examination of classical leadership traits and principles, and the role of officers in the various branches of the Army.

MIS 4410C SEMINAR IN LEADERSHIP AND MANAGEMENT (3)
PR: MIS 3410C, CI. Obligations and responsibilities of a commissioned officer, with emphasis on application of sound leadership to all situations. Uniform Code of Military Justice and its relation to Civilian law; Fundamentals of both offensive and defensive tactics and role of various branches of the Army in tactical operations. Role of the U.S. in world affairs in the 1980's.

PHYSICAL EDUCATION-ELECTIVE

Chairperson: Richard Heeschen; Professors: Richard Heeschen, Gilman Hertz; Associate Professors: Robert Grindey, H. Andrew Honker, Sam Prather, Spafford Taylor, Joanne Young; Assistant Professor: Isaiah Trice

UNDERGRADUATE COURSES

DAA 1374 FOLK & SQUARE DANCE (2)
An opportunity for the development of fundamental skills and knowledge necessary for enjoyment of Folk and Square Dancing. (S/U only.)

PEL 1121L GOLF I (2)
Introductory experience in the sport of golf. Fundamental skills, information, strategy, and participation. (S/U only.)

PEL 1141L ARCHERY (2)
Development and refinement of the essential skills and information necessary for enjoying the sport of Archery. (S/U only.)

PEL 1341L TENNIS I (2)
Introductory experiences in the sport of tennis. Basic skills, playing strategies, lecture, demonstration, and participation. (S/U only.)

PEL 1346L BADMINTON (2)
Progressive experiences in badminton, fundamental skills, strategy, information, and participation. (S/U only.)

PEL 2122L GOLF II (2)
Continuation of PEL 1121L. Emphasis on course play and refinement of strokes. (S/U only.)

PEL 2231L VOLLEYBALL (2)
Review and refinement of fundamental skills, presentation and practice of the various offensive strategies. (S/U only.)

PEL 2342L TENNIS II (2)
Continuation of PEL 1341L. Refinement of basic skills, supplementary strokes, greater emphasis on tactics and playing strategies. (S/U only.)

PEL 2441L RACKETBALL (2)
Development and refinement of the skills and strategies of Racketball with opportunity for competition and tournament play. (S/U only.)

PEL 2511L SOCCER (2)
A course designed to present essential knowledge of the game of soccer. Instruction and practice of basic skills, rules, teamwork, and conditioning. (S/U only.)

PEL 2621L BASKETBALL (2)
Review and refinement of fundamental skills, presentations and practice of the various offensive and defensive strategies. (S/U only.)

PEM 1201L GYMNASTICS I (2)
Introductory experiences in the various gymnastics events. Opportunities to specialize in areas of personal interests. (S/U only.)

PEM 1461C FOIL FENCING (2)
Progressive experiences in the sport of Foil Fencing, fundamental skills, strategy, information, and participation. (S/U only.)

PEM 2102L SPECIAL CONDITIONING (2)
Varied activities designed to increase the functional ability of the different aspects of physical fitness. (S/U only.)

PEM 2104L INDIVIDUAL PROGRAMMING (2)
Individually prescribed and performed conditioning activities. (S/U only.)

PEM 2107L FIGURE DEVELOPMENT (2)
Varied activities designed to effect changes in body configuration and functional ability. (S/U only.)

PEM 2131L WEIGHT TRAINING (2)
Knowledge and techniques necessary for increasing muscle function. Assessment of status and development of a personal program. (S/U only.)

PEM 2141C AEROBICS (2)
Introduction to the knowledge and techniques necessary for increasing cardiorespiratory efficiency. Assessment of status and development of a personal program. (S/U only.)

PEM 2202L GYMNASTICS II (2)
Continuation of PEM 1201L. Extended opportunities to master the various gymnastics events. Competition and individual routines. (S/U only.)

PEM 2376 BACKPACKING (2)
Introductory experiences designed to develop the physical skills and the mental attitude necessary to travel safely, efficiently, and considerately in the wilderness setting. (S/U only.)

PEM 2441L KARATE (3)
Introductory experiences in the sport of Karate. Fundamental skills, strategy, information, and participation. (S/U only.)

PEM 2930 SELECTED TOPICS (1-2)
Topics offered are selected to reflect student need and faculty interest. May be repeated up to 6 credit hours. (S/U only.)

PEN 1121L SWIMMING I (2)
Development and refinement of the essential skills and information necessary for enjoying swimming. Emphasis on personal safety. (S/U only.)

PEN 2113C LIFE SAVING (2)
PR: PEN 2122L or equivalent. Knowledge and skills necessary for saving one's self or others in the event of aquatic emergency. (S/U only.)

PEN 2122L SWIMMING II (2)
PR: PEN 1121L or equivalent. Continuation of PEN 1121L. Special emphasis on development of endurance and efficient stroking. (S/U only.)

PEN 2136C SKIN & SCUBA DIVING (2)
PR: PEN 2122L or equivalent. Development of the essential skills and knowledge necessary for enjoying the sport of Skin & Scuba Diving. Correct utilization and care of equipment; emphasis on personal safety. (S/U only.)

PEN 2251L CANOEING (2)
PR: PEN 1121L or equivalent. Development and refinement of the skills necessary for enjoying canoeing. Skills, safety techniques and trips. (S/U only.)

PEQ 3115C WATER SAFETY INSTRUCTION (2)
PR: PEN 2113C. Examination of the various swimming strokes leading to identification of appropriate methods and techniques for instructing others. ARC certification offered. (S/U only.)

PET 2330C HUMAN KINESIOLOGY I (2)
An introduction to the structure and function of the skeletal and neuromuscular systems in reference to their support of vigorous human movement. (S/U only.)

PET 2340C HUMAN KINESIOLOGY II (2)
PR: PET 2330C. An introduction to the mechanical principles which govern human movement. (S/U only.)
COLLEGE OF ARTS & LETTERS

AMERICAN STUDIES

Chairperson: J. B. Moore; Distinguished Professor: R. B. Nye; Professors: D. R. Harkness, J. B. Moore, H. M. Robertson; Assistant Professors: R. A. Banes, R. E. Snyder; Other Faculty: R. C. O’Hara, J. A. Parrish, S. A. Zylstra.

Undergraduate Courses

AMS 2363 ISSUES IN AMERICAN CIVILIZATION (2) Through lecture and demonstration an examination of such topics as natural environment and the quality of life, sports and American society, leisure and technology, vigilante tradition, jazz music, role of the family, American success myth, status of the arts in America. Repeatable up to 6 credit hours.


AMS 3201 THE COLONIAL PERIOD (4) The pattern of American culture as revealed through an examination of selected writings and pertinent slides and recordings dealing with the art, architecture and music of the colonial period. Elective for non-majors.

AMS 3210 REGIONS OF AMERICA (4) The pattern of American culture as revealed through an examination of selected writings and other pertinent materials dealing with selected American regions. Elective for non-majors. Repeatable up to eight credit hours.

AMS 3230 AMERICA DURING THE TWENTIES AND THIRTIES (4) Selected interdisciplinary materials are used to examine the relationships among regionalism, nationalism and internationalism during the twenties and thirties. Emphasis is placed on the measure of cultural nationalism attained by the United States during this period. Elective for non-majors.

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 3303 THE AMERICANIZATION OF ENGLISH (3) An overview of American attitudes toward the English language from colonization to the present. Among the topics discussed are: the American mania for correctness, the influence of the school marm, place and proper names and language prudery.

AMS 3930 SELECTED TOPICS IN AMERICAN STUDIES (1-4) Offerings include The American Success Myth, Cultural Darwinism in America, America Through Foreign Eyes, Contemporary Topics in American Studies, Nineteenth and Twentieth Century American Communes, and racism.

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

AMS 4930 SELECTED TOPICS IN AMERICAN STUDIES (1-4) Offerings include American Painting: its social implications, Technology in the Twentieth Century America, American Environmental Problems, Popular Culture in America, Southern Women: Myth and Reality.

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

AMS 4936 SENIOR SEMINAR IN AMERICAN STUDIES (PR: AMS 4935 or CI.) (4)

Topics offered are selected to reflect student need and faculty interest. May be repeated up to 9 credit hours.

PET 2373 INTRODUCTION TO EXERCISE THEORY (2) An introduction to the basic principles underlying exercise techniques for improving cardiovascular endurance, strength, flexibility, and weight control. Examination and critique of popular fitness programs, fads and fallacies.

PET 3931 SELECTED TOPICS (1-3)

GRADUATE COURSES

AMS 6155 THE CORE OF AMERICAN CULTURE (3) PR: Graduate standing. Open to non-majors. Representative works (from the arts, sciences, social sciences) reflecting the development of civilization in the U.S. from colonial times to the present. May be repeated up to six (6) credit hours with departmental permission.

AMS 6254 U.S.A.: A DECADE IN DEPTH (3) PR: Graduate standing. Open to non-majors. An example would be: The Thirties: Inter-related aspects of American Life from the Stock Market Crash to Pearl Harbor. May be repeated, up to six (6) credit hours.

AMS 6805 MAJOR IDEAS INFLUENCING AMERICAN CIVILIZATION (3) PR: Graduate standing. Open to non-majors. Examination of such concepts as individualism, freedom and liberalism as embodied in literature, politics, religion, architecture, economics, science and technology.

AMS 6931 DIRECTED READINGS IN AMERICAN STUDIES (1-3) PR: Graduate standing. Open to non-majors. Guided reading designed to expand a student's knowledge in a particular area of interest. May be repeated up to four credit hours.

AMS 6934 SPECIAL TOPICS IN AMERICAN STUDIES (1-3) PR: Graduate standing. Open to non-majors. Variable titles offered periodically on topics of special interest to American Studies students. May be repeated up to four credit hours.

AMS 6971 THESIS: MASTER'S (var.) Repeatable. (S/U only.)

ANCIENT STUDIES

See Religious Studies

CLASSICS

Professor: A. L. Motto; Assistant Professor: J. D. Noonan.

UNDERGRADUATE COURSES

CLA 4935 SENIOR SEMINAR (PR: Senior in the Interdisciplinary Classics and the Ancient World Program. A seminar integrating disciplines involved in the study of the civilizations of the Ancient Near East, Greece and Rome.) (3)

Courses in Translation

CLT 3040 CLASSICAL WORD ROOTS IN SCIENCE (3) A course in the Greek and Latin word stock used in all sciences (including medicine), technology, and law. Students' needs determine specific content of the course.

CLT 3101 GREEK LITERATURE IN TRANSLATION (4) Reading and discussion of major works in Greek literature. Special emphasis is given to 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 (4) 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.
See Interdisciplinary Classics, page 57.

**GRADUATE COURSE**

CLA 5934 SELECTED TOPICS IN LATIN

Study of a major author, movement, or theme. Available to advanced students, both majors and non-majors. No labs or lecture sections. Cannot be taken on an S/U basis. May be repeated since content varies each semester.

**Greek**

UNDERGRADUATE COURSES

GRE 1100 BEGINNING CLASSICAL GREEK I

An introductory course in classical Greek grammar with appropriate readings.

GRE 1101 BEGINNING CLASSICAL GREEK II

PR: GRE 1100 or equivalent. An introductory course in classical Greek grammar with appropriate readings.

GRE 3110 BEGINNING MODERN GREEK

An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.

GRE 3111 BEGINNING MODERN GREEK II

PR: GRE 3110 or its equivalent. A continuation of GRE 3110. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

GRW 4905 DIRECTED READING

Departmental approval required.

GRW 4930 SELECTED TOPICS

Study of an author, movement, or theme. May be repeated.

**Latin**

UNDERGRADUATE COURSES

LAT 1100 BEGINNING LATIN I

An introductory course in Latin grammar with appropriate readings.

LAT 1101 BEGINNING LATIN II

PR: LAT 1100 or equivalent. An introductory course in Latin grammar with appropriate readings.

LNW 4311 ROMAN ELEGIAIC POETS I: PLAUTUS

PR: Basic knowledge of Latin. Readings of selected plays by Plautus; introduction to comedy—its theory and practice.

LNW 4312 ROMAN ELEGIAIC POETS II: PROPERTIUS AND TIBULLUS

PR: Basic knowledge of Latin. Readings in Propertius and Tibullus; further study of art and tradition in Roman lyric poetry.

LNW 4361 ROMAN SATIRE I

PR: Basic knowledge of Latin. Readings in the Satyricon of Petronius: Introduction to the nature of satire.

LNW 4362 ROMAN SATIRE II

PR: Basic knowledge of Latin. Readings in Seneca’s Apocolocyntosis, the satires of Horace, and Juvenal. Introduction to the tradition and art of formal verse satire.

LNW 4381 LIVY

PR: Basic knowledge of Latin. Readings in the ideas and artistry of this Roman historian.

LNW 4500 CICERO AND ROMAN PHILOSOPHY

PR: Basic knowledge of Latin. Readings in the philosophic writings of Cicero, together with a consideration of eclectic thought.

LNW 4501 SENECA AND ROMAN PHILOSOPHY

PR: Basic knowledge of Latin. Readings in the philosophic writings of Lucius Annaeus Seneca, together with an examination of Stoic, Epicurean, and Eclectic thought.

COM 4110 SPEECH COMMUNICATION FOR BUSINESS AND THE PROFESSIONS

Identification of Speech 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 4120 INTRODUCTION TO COMMUNICATION THEORY IN ORGANIZATIONS

PR: majors, COM 3003 or CI; non-majors, COM 3122 or COM 4110 or CI. A survey of communication concepts which impact upon organizational effectiveness.

COM 4942 COMMUNICATION INTERN SEMINAR

PR: Communication major and CI. The Communication Intern 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.

ORI 3000 FUNDAMENTALS OF ORAL READING

Designed to develop proficiency in the understanding and oral communication of literary and other written materials.

ORI 3920 ISSUES AND INTERPRETATION

The study of literature through analysis of printed textual materials and of the visual-aural textual performance of them. May be repeated.

ORI 3950 ORAL INTERPRETATION PERFORMANCE

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 ORAL INTERPRETATION OF POETRY

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 ORAL INTERPRETATION OF DRAMATIC LITERATURE

PR: ORI 3000 or CI. Critical appreciation and oral interpretation of special textual materials which are inherently dramatic in nature and poetry, narrative prose, drama, biography, and history.
ORI 4320 ORAL INTERPRETATION OF BIBLICAL LITERATURE (3)
PR: ORI 3000 or CI. A critical interpretation and/or presentation of selected Books of the Old Testament.

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

SPC 2023 FUNDAMENTALS OF SPEECH COMMUNICATION (3)
The nature and basic principles of speech; emphasis on improving speaking and listening skills common to all forms of oral communication through a variety of experience in public discourse.

SPC 2050 SPEECH IMPROVEMENT AND PHONETICS (3)
Desired to improve vocal quality and expressiveness, articulation, and pronunciation, and to give instruction and practice in using the International Phonetic Alphabet for speech improvement.

SPC 2052 SPEECH IMPROVEMENT AND PHONETICS II (3)
PR: SPE 2050 or CI. A continuation of SPE 2050. Emphasis will be upon applying listening and transcription skills to the improvement of vocal quality and effective expressions.

SPC 3310 COMMUNICATION THEORY (3)
PR: Junior standing or CI. The study of source, message, and receiver variables in human communications; communication settings; descriptive and predictive models of communication; speech communication as a process.

SPC 3301 INTERPERSONAL COMMUNICATION (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 experimental 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 3594 FORENSICS (1)
Study, library research, practice in public speaking situations on campus and in intercollegiate forensic competition. May be repeated (maximum of four hours).

SPC 3601 PUBLIC SPEAKING (3)
PR: SPC 2023 or CI. Study and application of communication strategies for public speaking. Material from textbook 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 3641 PROPAGANDA (3)
Study of persuasive campaigns and movements.

SPC 3651 CURRENT ISSUES AND RHETORIC (3)
Analysis of significant current speakers and issues. May be repeated.

SPC 3653 POPULAR FORMS OF PUBLIC COMMUNICATION (3)
PR: Junior standing or CI. Analysis of public communication with emphasis on various presentational forms.

SPC 3900 DIRECTED READINGS (1-3)
PR: Junior standing or CI.

SPC 3905 UNDERGRADUATE RESEARCH (1-3)
PR: Junior standing and CI. Individual investigations and faculty supervision.

SPC 3930 SELECTED TOPICS (1-3)
PR: Junior standing and CI.

SPC 4640 THE RHETORIC OF AMERICAN DEMAGOGUES (3)
An analysis of the manipulation of such 20th Century American political leaders as: Bilbo, Agnew, McCarthy, Wallace, Nixon, and Malcolm X.

SPC 4680 HISTORY AND CRITICISM OF PUBLIC ADDRESS (3)
PR: SPC 3601 or CI. The principles of rhetorical criticism applied to selected great speeches of Western Civilization.

SPC 4900 DIRECTED READINGS (1-3)
PR: Senior standing and CI.

SPC 4905 UNDERGRADUATE RESEARCH (1-3)
PR: Senior standing and CI. Individual investigations with faculty supervision.

SPC 4906 INDEPENDENT STUDY (1-3)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated for credit. (S/U only.)

SPC 4930 SELECTED TOPICS (1-3)
PR: Senior standing and CI.

SPC 4932 SENIOR SEMINAR IN SPEECH COMMUNICATION (3)
PR: Senior standing. Speech Communication major. Exploration of selected topics of current significance to the several areas of speech communication through group discussion and research.

GRADUATE COURSES

COM 5123 COMMUNICATION ASSESSMENT IN ORGANIZATIONS (3)
PR for undergraduates. COM 4120 or CI; graduates. CI. A study of the means by which the communication specialist intervenes in organizational behavior. An emphasis is placed on gathering and analyzing organizational communication data.

COM 6001 INTRODUCTION TO GRADUATE STUDY IN COMMUNICATION (3)
Required of all M.A. candidates. An introduction to the aims and methodologies of the graduate discipline of communication: its relationship to the adjacent arts and sciences; bibliographical resources; methods of research; and a brief survey of the historical development of the field with emphasis upon current issues in theory, research, and practice.

COM 6121 COMMUNICATION THEORY IN ORGANIZATIONS (3)
A study of communication theory and behavior within organization settings: role of communication, communication climates, communication networks, leadership.

COM 6312 EXPERIMENTAL RESEARCH IN ORAL COMMUNICATION (3)
Critical examination of research design, procedures, and reporting of experimental studies in small group communication and persuasive discourse.

COM 6400 COMMUNICATION THEORY (3)
PR: COM 6001. An examination of communication theory through selected reading in the works of major theorists past and present.

LIN 5231 COMMUNICATION SCIENCE: THEORY AND PRACTICUM (3)
PR: SPC 2050 or CI. Intensified instruction in neuroanatomy of oral-nasal cavities, ear, pharyngeal, laryngeal, and thoracic areas. Includes topics in phonological theory such as feature composition and markedness. Practice in IPA and identification of segments through Sona-Graph work.

LIN 5245 EXPERIMENTAL PHONETICS (3)
PR: SPE 2050 or CI. Intensified training in auditory discrimination of the sounds of American English. Detailed use of research findings, instruments, and methodologies in the laboratory study of normal speech. Development of phonetic skills of discrimination and reproduction of speech sounds.

LIN 6233 ADVANCED PHONETICS (3)
PR: LIN 5231 or equivalent. Intensified training in close phonetic transcription. Work on dialects, intonation, distinctive feature theory and acoustic phonetics.

ORI 5145 ORAL INTERPRETATION OF DRAMATIC LITERATURE II (3)
PR: ORI 4140. A study of selected pre-modern dramas with special emphasis on problems of interpretation for oral performance.

ORI 5210 ORAL INTERPRETATION OF CHILDREN'S LITERATURE (3)
PR: ORI 3000 or CI. A study of the theories and practice in the oral interpretation of poetry and narrative fiction for children with special emphasis on classical and modern literature.

ORI 6146 ORAL INTERPRETATION OF THE PLAYS OF SHAKESPEARE (3)
PR: ORI 3000 or CI. A study of selected plays of Shakespeare from the point of view of the oral interpreter.

ORI 6350 LITERARY ADAPTATION FOR ORAL INTERPRETATION (3)
Composition and adaptation of literary materials for oral presenta-
### ORI 6410 HISTORY AND THEORIES OR ORAL INTERPRETATION
A study of the history, critical writings, uses, and developments of the art of oral interpretation, with analysis of the principles and practices.

### SEED 6442 THEORIES OF EDUCATE INSTRUCTION METHODS
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 4 credits per student. (S/U only.)

### SPC 5903 DIRECTED READINGS
PR: Senior or graduate standing and Cl.

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

### SPC 5933 SELECTED TOPICS
PR: Senior or graduate standing and Cl.

### SPC 6149 COMMUNICATION: ANALYSIS AND MEASUREMENT
A study of selected modes of communication. Includes analysis of communication symbolism, and presents the theory and application of selected instruments for measuring and producing speech.

### SPC 6231 RHETORICAL THEORY
Historical development of rhetorical theory from Plato to contemporary theorists with emphasis upon the evolution of trends and concepts in rhetorical theory.

### SPC 6391 SEMINAR INTERPERSONALCOMMUNICATION
Study of theory and research related to interpersonal communication.

### SPC 6442 THEORY AND RESEARCH IN SMALL GROUP COMMUNICATION
PR: SPC 3441. Study of contemporary theories and research relating to communication in small group settings.

### SPC 6515 THEORIES OF ARGUMENT
An examination of argumentative theory through the medium of selected reading in the works of major theorists past and present. In addition, selected examples from the argumentative persuasion of each historical period will be examined and analyzed for the purpose of correlating theory with practice.

### SPC 6545 PERSUASION
PR: SPC 3513. Study of contemporary theories and research in persuasion.

### SPC 6610 HISTORY AND CRITICISM OF AMERICAN PUBLIC ADDRESS
Criticism of selected speeches and speakers of American public address, studied against a background of political, social, and intellectual issues.

### SPC 6682 THEORIES OF RHETORICAL CRITICISM
The study of theoretical perspectives in rhetorical criticism. The application of criticism to selected rhetorical situations.

### SPC 6903 DIRECTED READINGS
PR: GR. Master's level. Repeatable. (S/U only.)

### SPC 6913 DIRECTED RESEARCH
VAR.

### SPC 6934 SELECTED TOPICS IN SPEECH
VAR.

### SPC 6971 THESIS: MASTER'S
Repeatable. (S/U only.)

### UNDERGRADUATE COURSES

#### AML 3031 (formerly AML 3103) AMERICAN LITERATURE FROM THE BEGINNINGS TO 1860
A study of representative works from the period of early settlement through American Romanticism, with emphasis on such writers as Cooper, Irving, Bryant, Hawthorne, Emerson, Melville, Thoreau, and Poe, among others.

#### AML 3032 (formerly AML 3107) AMERICAN LITERATURE FROM 1860 TO 1912
A study of representative works of selected American Realists and early Naturalists, among them Whitman, Dickinson, Twain, James, Howells, Crane, Dreiser, Wharton, Robinson.

#### AML 3041 (formerly AML 3010) SURVEY OF AMERICAN LITERATURE TO 1945
An introductory course consisting of selected highlights of American literature from the beginnings to 1945.

#### AML 3051 (formerly AML 3111) AMERICAN LITERATURE FROM 1912 TO 1945
A study of poetry, drama, and fiction by such writers as Pound, Fitzgerald, Hemingway, Faulkner, Cummings, Williams, Anderson, Lewis, Steinbeck, Wright, Wolfe, West, Stevens, Henry Miller, and others.

#### AML 3271 (formerly LIT 3332) BLACK LITERATURE
A study of Black American literature from the nineteenth-century to the present, including the works of such writers as W.E.B. DuBois, Jean Toomer, Langston Hughes, Richard Wright, Ralph Ellison, LeRoi Jones, and Nikki Giovanni.

#### AML 3273 (formerly LIT 3323) AMERICAN INDIAN LITERATURE
A survey of native American Literature from pre-Columbian religious and folk literature to the current voices in the pan-Indian movement.

#### AML 4101(formerly ENG 4345) NINETEENTH CENTURY AMERICAN LITERATURE
A study of the American novel from its beginnings through 1900, including such novelists as Cooper, Hawthorne, Melville, James, Twain, Crane, and Dreiser, among others.

#### AML 4123 (formerly ENG 4223) TWENTIETH CENTURY AMERICAN NOVEL
A study of major trends and influences in American prose fiction from 1913 to the present. Includes works by such writers as Hemingway, Faulkner, Wolfe, Fitzgerald, Steinbeck, Anderson, Welty, Malamud, Roth, Barthelme, and others.

#### AML 4261 (formerly AML 4320) LITERATURE OF THE SOUTH
PR: One course in American literature. A study of the major writers of the "Southern Renaissance," including such writers as Faulkner, Wolfe, Caldwell, Hellman, McCullers, O'Connor, Warren, Styron, Allen Tate, and Donald Davidson.

#### AML 4300 (formerly AML 4214) MAJOR AMERICAN AUTHORS
The study of two or three related major authors in American literature, focusing on several major figures; the course may include such writers as Melville and Hawthorne, Hemingway and Faulkner, James and Twain, Pound and Eliot, Stevens and Lowell, etc. Specific topics will vary. May be repeated twice for credit.

#### CRW 3100 (formerly ENC 3486) NARRATION AND DESCRIPTION
Writing short papers in narration and description, and the personal essay; analyzing selected essays to heighten sensitivity to language.

#### CRW 3110 (formerly CRW 3230) IMAGINATIVE WRITING: FICTION
PR: CRW 3100. Introduction to the writing of fiction. This course will introduce students to the variety of forms and techniques in the writing of imaginative prose.

#### CRW 3111 (formerly CRW 3231) IMAGINATIVE WRITING: POETRY
Introduction to the writing of poetry. This course introduces the student to a variety of forms and techniques in the writing of poetry.

#### CRW 4120 (formerly CRW 4240) WORKSHOP IN FICTION
Study and writing of the short story and sections of the novel. Evaluation of student work in conferences, selected readings. May be taken twice for credit.
WRK 4320 (formerly CRW 4340) WORKSHOP IN POETRY (4)
Self-expression in traditional and contemporary forms. Student-teacher conferences and classroom discussion, selected readings. May be taken twice for credit.

ENC 0000 (formerly ENC 0013) DEVELOPMENTAL ENGLISH (3)
Instruction and practice in the review of the fundamentals of English. Includes developmental work in English as applied in writing, with emphasis on grammar, punctuation, mechanics of expression and sentence structure. Credit received will not count toward Freshman English credit. Students enrolled will be required to take the full Freshman English sequence upon completing this course. Initial placement in course will be determined by student's score on Test of Standard Written English.

ENC 1101, 1104 (formerly ENC 1102, 1135) FRESHMAN ENGLISH (3.3)
Instruction and practice in the skills of writing and reading. Courses must be taken in numerical sequence.

ENC 3011 (formerly ENC 3016) PRACTICAL GRAMMAR AND USAGE (3)
Coverage of the traditional forms and practices of English grammar. A study of sentence patterns, sentence structure, agreement, punctuation, pronoun case, and related matters.

ENC 3210 (formerly ENC 3343) BASIC TECHNICAL WRITING (4)
Effective presentation of technical and semi-technical information. May be repeated once for credit.

ENC 3310 (formerly ENC 3466) EXPOSITORY WRITING (4)
A course teaching the techniques for writing effective prose, excluding fiction, in which student essays are extensively criticized, edited, and discussed in individual sessions with the instructor.

ENG 3105 (formerly ENG 3156) MODERN LITERATURE, FILM, AND THE POPULAR ARTS (4)
Exploration into the nature and function of modern literature, film, and some of the popular arts like fantasy, westerns, science fiction, war stories, and detective stories. The works of such writers as Tolkien, Tolkien, Thurbell, Keller, Barthelme, Berger, and Kesy are examined.

ENG 3114 (formerly ENG 3138) MODERN DRAMA TO 1945 (4)
A study of such modern dramatists as Ibsen, Strindberg, Chekov, Pirandello, Shaw, and O'Neill, among others. Films will demonstrate the possibilities of visualization.

ENG 4013 (formerly ENG 4814) LITERARY CRITICISM (4)
A study of the works of major literary critics from Aristotle to the present, with emphasis on their meaning, their implied world view, and their significance for our own time and literature.

ENG 4900 INDIVIDUAL RESEARCH (1-4)
Directed study in special projects. Special permission of chairperson required.

ENG 4907 (formerly ENG 4900) DIRECTED READING (4)
Readings in special topics.

ENL 3012 (formerly ENL 3030) SURVEY OF BRITISH LITERATURE TO 1750 (4)
An introductory course consisting of selected highlights of English literature from the Middle Ages to 1750.

ENL 3022 (formerly ENL 3041) SURVEY OF BRITISH LITERATURE 1750 to 1945 (4)
An introductory course consisting of selected highlights of English literature from 1750 to 1945.

ENL 3201 (formerly ENL 3010) EARLY ENGLISH LITERATURE (4)
A survey of representative works of poetry, prose, and drama of the Old English, Middle England and early Renaissance to 1557, including Beowulf, Chaucer, Malory, More, Hooker, Skeiton, Wyatt, among others.

ENL 3220 (formerly ENL 3320) LITERATURE OF THE ENGLISH RENAISSANCE (4)
A survey of representative works of poetry, prose, and drama of the English Renaissance, from approximately 1558 to 1649, including Sidney and Spenser to Donne and Marvell, with special attention to the emergence of the New Poetry.

ENL 3230 (formerly ENL 3351) LITERATURE OF THE RESTORATION AND EIGHTEENTH-CENTURY (4)
A survey of Neoclassical English literature beginning with Marvell and the last work of Milton, and ending with the late Neoclassicism of Johnson, Boswell, and Goldsmith. The poetry and poetics of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats; with attention to the lesser figures, the eighteenth century background, and the continuing importance of romantic thinking in contemporary affairs and letters.

ENL 3250 (formerly ENL 3430) VICTORIAN AND EDWARDIAN LITERATURE (4)
A survey of representative figures of the Victorian and Edwardian periods, ending in 1914, including poetry, prose, and drama of such authors as Carlyle, Tennyson, Browning, Swinburne, Rossetti, Dickens and Wilde.

ENL 3273 (formerly ENL 3441) BRITISH LITERATURE FROM 1914 to 1945 (4)
Survey of poetry, drama, and fiction of such writers as Eliot, Yeats, Thomas, Conrad, Shaw, Joyce, Lawrence, Huxley, Woolf, Forster, Waugh, Owen, Auden, O'Casey, among others.

ENL 3333 (formerly ENL 3133) SHAKESPEARE (4)
Reading of eight to ten representative plays, with special attention to developing the students' ability to read and interpret the text.

ENL 3334 (formerly ENL 3313) SHAKESPEARE: TEXTS AND FILMS (4)
An introduction to the art of William Shakespeare through a comparative analysis of four of his most famous dramas and modern film adaptation of them; Hamlet, King Lear, Romeo and Juliet and Henry V.

ENL 4112 (formerly EN 4321) EIGHTEENTH-CENTURY BRITISH NOVEL (4)
A study of the emergence of modern realistic prose fiction in the eighteenth century, with emphasis on Fielding, Richardson, Smollett, and Sterne.

ENL 4122 (formerly EN 4325) NINETEENTH-CENTURY BRITISH NOVEL (4)
A study of such major British novelists as Austen, Scott, Thackeray, Dickens, the Brontes, Eliot, Meredith, and Hardy.

ENL 4131 (formerly EN 4227) TWENTIETH CENTURY BRITISH NOVEL (4)
A critical study of British fiction, from 1900 to the present, with emphasis on such writers as Conrad, Lawrence, Joyce, Woolf, Forster, Huxley, Waugh, Durrell, Burgess, Powell, and others.

ENL 4171 (formerly EN 4424) HISTORY OF BRITISH DRAMA TO 1912 (4)
A study of the history of British Drama from its liturgical origins to the beginning of the twentieth century, exclusive of Shakespeare. Included are the mystery and morality plays, and representative works by Marlowe, Jonson, Middleton, Dryden, Congreve, Sheridan, and Wilde, among others.

ENL 4202 (formerly ENL 4300) ANGLO SAXON LITERATURE (4)
A study of English heroic culture as presented in the literature occurring before 1066, such as Beowulf, the Battle of Maldon, the Seafarers, and Selected Charms and Spells.

ENL 4210 (formerly ENL 4311) MIDDLE ENGLISH LITERATURE (4)
An intensive study of one or more formal types occurring between 1066 and 1500, such as Arthurian Romance, The Dream Vision, the drama, and lyrics and ballads.

ENL 4221 (formerly ENL 4344) RENAISSANCE LITERATURE: SELECTED STUDIES (4)
Study of one or more types, genres, modes, and themes of English literature; 1600-1660, such as Metaphysical Poetry, Cavalier Mode, Devotional Literature, New Philosophy, Analytical Prose, Verse Satire. Specific topics will vary.

ENL 4232 (formerly ENL 4305) RESTORATION AND EIGHTEENTH-CENTURY: SELECTED STUDIES (4)
An intensive study of one or more types, genres, modes, and themes of 18th century British Literature. Specific topics may vary.

ENL 4242 (formerly ENL 4406) ROMANTIC LITERATURE: SELECTED STUDIES (4)
An intensive study of one or more formal types of British literature occurring between 1785 and 1832, such as Romantic Nature Poetry, Romantic Historical Novels and Poems, etc. Specific topics will vary.

ENL 4251 (formerly ENL 4415) VICTORIAN LITERATURE: SELECTED STUDIES (4)
An intensive study of one or more formal types of Victorian literature, such as the essay, the lyric, the longer poem, prose, fiction, etc. Specific topics will vary.

ENL 4303 (formerly ENL 4602) MAJOR AUTHORS (4)
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 3431 (formerly ENL 4121) CHAUCER**

(4)

An intensive study of The Canterbury Tales and major critical concern.

**ENL 4341 (formerly ENL 4121) MILTON**

(4)

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

**LIN 4100 (formerly ENG 4512) HISTORY OF THE ENGLISH LANGUAGE**

(4)

The evolution of language from Anglo-Saxon through Middle English to Modern English. Changes in the pronunciation, syntactic, and semantic systems; discussion of the forces which influenced them; a consideration of how these changes may influence the interpretation of literature.

**LIN 4370 STRUCTURE OF AMERICAN ENGLISH**

(4)

An introductory survey of traditional, structural, and generative-transformational grammars and their techniques for the analysis and description of linguistic structure in general, and contemporary American English in particular.

**LIT 2000 INTRODUCTION TO LITERATURE: GENERAL**

(4)

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

**LIT 2021 (formerly ENG 2231) CURRENT SHORT FICTION**

(4)

Traditional and experimental short stories of this generation: such writers as Updike, McCullers, O’Connor, Roth, Barth, Ionesco, and Barthelme. Will not be counted toward the English major.

**LIT 2091 (formerly ENG 2300) CURRENT NOVELS**

(4)

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 (formerly ENG 2460) DRAMA: TEXTS AND FILMS**

(4)

A study of the great works of drama, with emphasis on recent forms and themes. Films will demonstrate the possibilities of visualization. Will not be counted toward the English major.

**LIT 3022 (formerly ENG 3294) MODERN SHORT NOVEL**

(4)

A study of the novella from the nineteenth century to the present. Writers included are: Flaubert, Conrad, Lawrence, Mann, Kafka, Bellow, Roth, and others.

**LIT 3073 (formerly LIT 3150) CONTEMPORARY BRITISH AND AMERICAN LITERATURE FROM 1945 TO THE PRESENT**

(4)

An introduction to the fiction, poetry, and drama of such writers as Beckett, Ginsberg, Nabokov, Roethke, Plath, Vonnegut, Welty, Malamud, Durrell, Mailer, MaLeish, and others.

**LIT 3101 (formerly LIT 3252) LITERATURE OF THE WESTERN WORLD SINCE THE RENAISSANCE**

(4)

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 (formerly LIT 3254) LITERATURE OF THE WESTERN WORLD SINCE THE RENAISSANCE**

(4)

A study in English of the great works of Western Literature from the Neoclassic to the Modern Period, including such writers as Molliere, Racine, Voltaire, Dostoevsky, Chekhov, Ibsen, Kafka, Gide, Sartre, and Camus, among others.

**LIT 3114 (formerly ENG 3371) MODERN EUROPEAN NOVEL**

(4)

A study of the Modern European novel in translation as it developed from the nineteenth century to the present, including such writers as Dostoevsky, Flaubert, Kafka, Hesse, Camus, and Sartre.

**LIT 3304 (formerly ENG 3152) TWENTIETH-CENTURY BEST SELLERS**

(4)

A study of representative best-selling novels in twentieth century America; including such popular works as Peyton Place, Lady Chatterly’s Lover, Exodus, and Catcher in the Rye, which have sold in excess of 5,000,000 copies and have served to portray our changing society and to reveal our changing literary taste.

**LIT 3310 (formerly LIT 3442) FANTASY AND SCIENCE FICTION**

(4)

A survey of fantasy and science fiction in England and America from Mary Shelley to the present; includes such writers as Poe, Melville, Ray Bradbury, Arthur C. Clarke, among others.

**LIT 3574 (formerly LIT 3311) THE BIBLE AS LITERATURE**

(4)

Major emphasis on literary types, literary personalities of the Old and New Testaments, and Biblical archetypes of British and American literary classics.

**LIT 3383 (formerly LIT 3414) THE IMAGE OF WOMEN IN LITERATURE**

(4)

A survey of feminism, anti-feminism, sexual identity, the feminine mystique, and 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 (formerly LIT 3431) RELIGIOUS AND EXISTENTIAL THEMES**

(4)

Theological and philosophical ideas, allusions, and symbols in the writings of Dostoevsky, Nietzsche, Mann, Joyce, Eliot, Camus, Sartre, and others.

**LIT 3451 (formerly LIT 3446) LITERATURE AND THE OCCULT**

(4)

An introduction to the occult tradition as a major ingredient in English, Continental, and American literature; analysis of the origins, classifications, and areas of the various magic arts from classical times down to the present.

**LIT 3931 (formerly LIT 3930) 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 4011 (formerly ENG 4204) THEORY OF FICTION**

(4)

Intensive study of the genres and varieties of fiction to ascertain the theoretical and practical techniques involved in the work of fiction.

**LIT 4032 (formerly ENG 4742) TWENTIETH-CENTURY BRITISH AND AMERICAN POETRY**

(4)

Study of selected Modern British and American Poets from Hopkins to the present, with attention to poetic theory.

**LIT 4043 (formerly ENG 4464) CONTEMPORARY DRAMA**

(4)

A study of recent forms and themes in drama from Theatre of the Absurd to the present, including representative works by Brecht, Beckett, Ionesco, Genet, Pinter, Albee, Weiss, and Shepard, among others.

**LIT 4030 SELECTED TOPICS IN ENGLISH STUDIES**

(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 for different topics.

**REA 0105 DEVELOPMENTAL READING**

(2)

Designed to help students develop maximum reading efficiency. The course includes extensive instruction and laboratory practice in the improvement of adequate rates of reading, vocabulary, and comprehension skills. An independent study approach is also available for students who prefer to assume responsibility for their own progress.

**REA 2405 SPEED READING DEVELOPMENT**

(2)

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

**REA 3505 VOCABULARY**

(3)

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

### GRADUATE COURSES

**AML 6017 (formerly AML 6132) STUDIES IN AMERICAN LITERATURE TO 1860**

(3)

PR: Graduate standing. Selected focused studies in American literature before 1860: the Puritans, Franklin, Cooper, Irving, Poe, Emerson, Hawthorne, Melville, and others. May be retaken with different subject matter three times.

**AML 6018 (formerly AML 6137) STUDIES IN AMERICAN LITERATURE 1860 TO 1920**

(3)

PR: Graduate standing. Selected focused studies in American literature: Whitman, Twain, Howells, James, Crane, Dreiser, and others. May be retaken with different subject matter three times.

**AML 6027 (formerly AML 6138) STUDIES IN MODERN AMERICAN LITERATURE**

(3)

PR: Graduate standing. Modern American drama, poetry, fiction, and literary criticism; authors include Faulkner, Hemingway, Fitzgerald, O’Neill, Anderson, Wolfe, Cummings, Frost, and Eliot. May be retaken with different subject matter three times.
ENG 6009 (formerly ENG 6062) BIBLIOGRAPHY FOR ENGLISH STUDIES (1)
PR: Graduate standing. Detailed study of bibliographies of cultural milieus, genres, periods, and authors.

ENG 6017 (formerly ENG 6837) STUDIES IN STYLE (3)
(Advanced Composition for Teachers)
PR: Graduate standing. Poetics, rhetoric, dramatic style, prose style, short fiction, the novel, and the essay. May be retaken with different subject matter three times.

ENG 6018 (formerly ENG 6832) SCHOLARSHIP AND CRITICISM (3)
PR: Graduate standing. Selected focused study of research approaches to English. May be retaken with different subject matter once.

ENG 6916 (formerly ENG 6917) DIRECTED RESEARCH (var.)
PR: GR. Master’s level. Repeatable. (S/U only.)

ENG 6939 (formerly ENG 6937) GRADUATE SEMINAR IN ENGLISH (3)
PR: Consent of graduate adviser. May be retaken with different subject matter to a maximum of six hours.

ENG 6971 THESIS: MASTER’S (var.)
Repeatable. (S/U only.)

ENG 7916 (formerly ENG 7917) DIRECTED RESEARCH (var.)
PR: GR. Ph. D. level. Repeatable. (S/U only.)

ENG 7939 (formerly ENG 7938) DOCTORAL SEMINAR (3)
PR: Admission to Ph.D. Program. This research provides intensive smaller-group discussion as well as shared and individual guided research in a student’s area of doctoral specialty. Repeatable up to six credit hours.

ENG 7980 DISSERTATION: DOCTORAL (var.)
PR: Must be admitted to Doctoral Candidacy. Repeatable. (S/U only.)

ENL 6206 (formerly ENL 6304) STUDIES IN OLD ENGLISH (3)
PR: Graduate standing. A study of Old English language, prose style, poetry. May be retaken with different subject matter three times.

ENL 6216 (formerly ENL 6315) STUDIES IN MIDDLE ENGLISH (3)
PR: Graduate standing. Selected focused studies in language and in various authors and writings, 1100-1500: Chaucer, the Pearl poet, Everyman, ballads, drama. May be retaken with different subject matter three times.

ENL 6227 (formerly ENL 6333) STUDIES IN SIXTEENTH-CENTURY BRITISH LITERATURE (3)
PR: Graduate standing. Selected focused studies in sixteenth-century British literature; Shakespeare, Sidney, Spenser, Marlowe, and others. May be retaken with different subject matter three times.

ENL 6228 (formerly ENL 6349) STUDIES IN SEVENTEENTH-CENTURY BRITISH LITERATURE (3)
PR: Graduate standing. Selected focused studies in British literature, 1600-1660: Bacon, Donne, Jonson, Herbert, Milton, and others. May be retaken with different subject matter three times.

ENL 6236 (formerly ENL 6392) STUDIES IN RESTORATION AND EIGHTEENTH-CENTURY BRITISH LITERATURE (3)
PR: Graduate standing. Selected focused studies in Restoration-Eighteenth-Century British literature: Dryden, Defoe, Pope, Swift, Fielding, Sheridan, Johnson, Boswell, and others. May be retaken with different subject matter three times.

ENL 6246 (formerly ENL 6407) STUDIES OF THE ENGLISH ROMANTIC PERIOD (3)
PR: Graduate standing. A study of pre-Romantic and Romantic prose, fiction, nonfiction, and poetry. May be retaken with different subject matter three times.

ENL 6256 (formerly ENL 6418) STUDIES IN VICTORIAN LITERATURE (3)
PR: Graduate standing. A study of Victorian poetry, Victorian fiction, Victorian non-fictional prose, and Victorian drama. May be retaken with different subject matter three times.

ENL 6276 (formerly ENL 6447) STUDIES IN MODERN BRITISH LITERATURE (3)
PR: Graduate standing. A study of Irish and English drama, the modern novel, poetry, criticism, and the short story. May be retaken with different subject matter three times.

LAE 6375 PROBLEMS IN COLLEGE ENGLISH INSTRUCTION: COMPOSITION (3)
PR: Graduate standing. An examination of the objectives of freshman English and an investigation of current techniques for achieving those objectives, emphasizing the problems of developing critical reading and the techniques of expository writing at the college level.

LAE 6389 PROBLEMS IN COLLEGE ENGLISH INSTRUCTION: LITERATURE (3)
PR: Graduate standing. A course that allows the prospective college English teacher to experiment with teaching techniques that will determine the most effective ways to teach literature and that will teach college English teachers the variety and importance of literary techniques and their relevance to subject matter.

LAE 7376 PROBLEMS IN ADVANCED ENGLISH INSTRUCTION OF COMPOSITION (3)
PR: Admission to the Ph.D. program in English. Apprenticed, closely supervised study of and practice in teaching of college and university advanced composition. Student may elect to work with nonfiction, fiction, or poetry.

LAE 7390 PROBLEMS IN ADVANCED ENGLISH INSTRUCTION AND SCHOLARLY RESEARCH (3)
PR: Ph.D. Candidacy. This course provides closely supervised training in upper-level college English instruction and experience with professional research. Experience in the lecture, seminar discussion, examining, evaluation, conferences, directing undergraduate research, course development, use of secondary materials, publication procedure, and collaboration.

LIN 6107 (formerly ENG 6516) STUDIES IN ENGLISH LANGUAGE AND LINGUISTICS (3)
PR: LIN 4100 and LIN 4370, or CI. An advanced study of the origin, historical development, and contemporary structure of British and American English in its social and cultural milieu, with emphasis upon modern techniques for linguistic analysis and description.

LIT 6096 (formerly LIT 6167) STUDIES IN CONTEMPORARY LITERATURE (3)
PR: Graduate standing. Drama, poetry, fiction, and literary criticism; authors to be studied include Ionesco, Thomas, Miller, T. Williams, Beckett, Camus, and Burgess. May be retaken with different subject matter three times.

LIT 6105 (formerly LIT 6208) STUDIES IN CONTINENTAL LITERATURE (3)
PR: Graduate standing. General areas include the Renaissance, the Enlightenment, the Novel in Europe, the Romantic Movement on the Continent, and Classical Comedy. May be retaken with different subject matter three times.

LIT 6934 SELECTED TOPICS IN ENGLISH STUDIES (1-6)
PR: Graduate standing. Current topics offered on a rotating basis include The Nature of Tragedy; The Nature of Comedy and Satire; The Nature of Romanticism and Classicism; and The Nature of Myth, Allegory, and Symbolism. Other topics will be added in accordance with student demand and instructor interest.

HUMANITIES

Chairperson: T. B. Hoffman; Professors: T. B. Hoffman, H. Juergenson, G. S. Kashdin, E. M. Mackay (Emeritus), D. Rutenberg, L. L. Shackson (Emeritus); Associate Professors: C. B. Cooper, S. L. Gaggi, H. B. Gowen, A. J. Sparks, S. A. Zylstra; Assistant Professor: J. R. Spillane.

UNDERGRADUATE COURSES

HUM 2930 SELECTED TOPICS: AMERICAN MOSAIC (4)
HUM 3024 THE ARTS (3)
Analyses of selected works of film, literature, music, and visual arts, including a variety of periods, nationalities and art forms, emphasizing artistic diversity. Especially recommended for students intending to take the 4000 and 5000 level Humanities courses at a future date.

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

HUM 3236 STUDIES IN CULTURE: THE RENAISSANCE IN THE FOURTEENTH AND FIFTEENTH CENTURY (3)
Analyses of selected fiction, drama, painting, architecture, music, and other art forms. Typical course focus is on painting and music.
HUM 3251 STUDIES IN CULTURE: THE TWENTIETH CENTURY (3)
Analyses of selected works of 20th Century art, primarily emphasizing film, with secondary emphasis on painting and fiction.

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

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

HUM 4433 CLASSICAL ARTS AND LETTERS (4)
PR: Sophomore standing or CI. Case studies in the arts and letters of the ancient world.

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

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

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

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

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

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

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

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

HUM 4471, 4473 TWENTIETH-CENTURY ARTS AND LETTERS (4,4)
PR: Sophomore standing or CI. Case studies in the arts and letters of the twentieth century.

HUM 4813 HUMANITIES: THEORY AND PRACTICE (2)
PR: Humanities major or CI. Study of theory and methodology of interdisciplinary Humanities, including workshop in which student begins planning Senior paper. (S/U only.)

HUM 4905 DIRECTED STUDY (1-4)
Specialized individual study determined by the student's needs and interests.

HUM 4906 SENIOR ESSAY (3)
Problems in the interrelationships among the fine arts and the natural, social and behavioral sciences. A senior essay for humanities majors.

HUM 4930 SELECTED TOPICS IN HUMANITIES (1-4)
PR: Sophomore standing or CI. This course will deal with a recurrent theme in the arts as, for example, love or death, or will focus on artistic centers such as Renaissance Florence or Paris in the 1920's. Topics will vary; course may be repeated for credit with change of content.

HUM 5412 HUMANITIES IN THE ORIENT: INDIA (4)
Examples from the arts and letters of India and the relationship of these arts to the Hindu and Buddhist philosophy-religions.

HUM 5414 HUMANITIES IN THE ORIENT: CHINA (4)
Examples from the arts and letters of China; their relationship to Taoism, Confucianism and other Chinese philosophies; Western influences on twentieth century Chinese arts and letters.

HUM 5415 HUMANITIES IN THE ORIENT: JAPAN (4)
Examples from the arts and letters of Japan, their relationship to Zen Buddhism and other Japanese philosophy-religions; Western influences on twentieth century Japanese arts and letters.

HUM 5452, 5456 HUMANITIES IN AMERICA (4,4)
Case studies in the arts and letters of the United States.

HUM 5465 LATIN AMERICAN ARTS AND LETTERS (4)
Analysis of selected Latin American works of art in their cultural context.

HUM 5485 SELECTED NON-WESTERN HUMANITIES (4)
Materials chosen from arts and letters of Asia, Oceania, and the Middle East. May be repeated for credit with change of content.

HUM 6475 STUDIES IN CONTEMPORARY ARTS AND LETTERS (3)
Concentration on major artists and recent trends.

HUM 6493 STUDIES IN CLASSICAL ARTS AND LETTERS (3)
PR: Graduate standing. Examples from the arts and letters of ancient Greece and their relationships to Aegean myths, religions and philosophies. Classical Greek influences on later cultures.

HUM 6494 STUDIES IN MEDIEVAL ARTS AND LETTERS (3)
PR: Graduate standing. Studies in medieval philosophies, visual arts, music, literature and architecture, and their inter-relationships.

HUM 6495 STUDIES IN RENAISSANCE ARTS AND LETTERS (3)

HUM 6496 STUDIES IN ENLIGHTENMENT ARTS AND LETTERS (3)
PR: Graduate standing. Studies in painting, sculpture, music, literature, and architecture in relation to philosophical determinism and political absolutism.

HUM 6497 STUDIES IN NINETEENTH CENTURY ARTS AND LETTERS (3)
PR: Graduate standing. Examples from the arts and letters of the nineteenth century, their relationship to philosophical, social, and historical developments, and to the arts and letters of the twentieth century.

HUM 6909 INDEPENDENT STUDY (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

HUM 6915 DIRECTED RESEARCH (var.)
PR: GR. Master's level. Repeatable. (S/U only.)

HUM 6934 SELECTED TOPICS IN HUMANITIES (1-3)
Each topic is a course of study in a subject not covered by a regular course. May be repeated for credit with change of content.

LANGUAGE


General Foreign Languages

UNDERGRADUATE COURSES

FOL 3100 GENERAL FOREIGN LANGUAGE I (1-3)
A general purpose course that may be used for transfer of credit, credit by examination, and similar matters; may also be used for formal courses in less-commonly taught languages or in professional translation.

FOL 4200 GENERAL FOREIGN LANGUAGE II (1-3)
A general purpose course that may be used for transfer of credit, credit by examination, and similar matters; may also be used for formal courses in less-commonly taught languages or for workshops in professional interpreting.

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

GRADUATE COURSES

FOL 5906 DIRECTED STUDY (1-3)
PR: FOL 4200 or equivalent.

HUM 5465 LATIN AMERICAN ARTS AND LETTERS (4)
Analysis of selected Latin American works of art in their cultural context.

HUM 5485 SELECTED NON-WESTERN HUMANITIES (4)
Materials chosen from arts and letters of Asia, Oceania, and the Middle East. May be repeated for credit with change of content.

HUM 6475 STUDIES IN CONTEMPORARY ARTS AND LETTERS (3)
Concentration on major artists and recent trends.

HUM 6493 STUDIES IN CLASSICAL ARTS AND LETTERS (3)
PR: Graduate standing. Examples from the arts and letters of ancient Greece and their relationships to Aegean myths, religions and philosophies. Classical Greek influences on later cultures.

HUM 6494 STUDIES IN MEDIEVAL ARTS AND LETTERS (3)
PR: Graduate standing. Studies in medieval philosophies, visual arts, music, literature and architecture, and their inter-relationships.

HUM 6495 STUDIES IN RENAISSANCE ARTS AND LETTERS (3)

HUM 6496 STUDIES IN ENLIGHTENMENT ARTS AND LETTERS (3)
PR: Graduate standing. Studies in painting, sculpture, music, literature, and architecture in relation to philosophical determinism and political absolutism.

HUM 6497 STUDIES IN NINETEENTH CENTURY ARTS AND LETTERS (3)
PR: Graduate standing. Examples from the arts and letters of the nineteenth century, their relationship to philosophical, social, and historical developments, and to the arts and letters of the twentieth century.

HUM 6909 INDEPENDENT STUDY (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

HUM 6915 DIRECTED RESEARCH (var.)
PR: GR. Master's level. Repeatable. (S/U only.)

HUM 6934 SELECTED TOPICS IN HUMANITIES (1-3)
Each topic is a course of study in a subject not covered by a regular course. May be repeated for credit with change of content.

HUM 5412 HUMANITIES IN THE ORIENT: INDIA (4)
Examples from the arts and letters of India and the relationship of these arts to the Hindu and Buddhist philosophy-religions.

HUM 5414 HUMANITIES IN THE ORIENT: CHINA (4)
Examples from the arts and letters of China; their relationship to Taoism, Confucianism and other Chinese philosophies; Western influences on twentieth century Chinese arts and letters.

HUM 5415 HUMANITIES IN THE ORIENT: JAPAN (4)
Examples from the arts and letters of Japan, their relationship to Zen Buddhism and other Japanese philosophy-religions; Western influences on twentieth century Japanese arts and letters.

HUM 5452, 5456 HUMANITIES IN AMERICA (4,4)
Case studies in the arts and letters of the United States.
Arabic

UNDERGRADUATE COURSES

ARA 3110 MODERN ARABIC I (4)
An intensive study of basic skills: pronunciation, listening comprehension, speaking and some composition.

ARA 3111 MODERN ARABIC II (4)
A continuation of ARA 3110. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

French

UNDERGRADUATE COURSES

Courses in Translation

FRT 3110 HIGHLIGHTS OF FRENCH LITERATURE IN TRANSLATION (3)
A study in English of French life through writers since the revolution. Elective for students in all departments.

FRE 1060 FRENCH FOR READING (3)
Designed to provide a reading ability in French that will support research in other disciplines. Primarily for graduate students.

FRE 1100 BEGINNING FRENCH I (4)
The first course in the study of elementary French. Emphasis on the development of basic skills in comprehension, speaking, and reading.

FRE 1101 BEGINNING FRENCH II (4)
PR: FRE 1100 or equivalent. A continuation of FRE 1100.

FRE 2200 INTERMEDIATE FRENCH I (3)
PR: FRE 1101 or equivalent. A review of the basic structure of French. May be taken concurrently with FRE 2201.

FRE 2201 INTERMEDIATE FRENCH II (3)
PR: FRE 1101 or equivalent. Readings in French on the intermediate level. May be taken concurrently with FRE 2200.

FRE 3240 CONVERSATION I (4)
PR: FRE 1101. For development of basic conversational skills.

FRE 3420 COMPOSITION I (3)
A fundamental composition course for students who have completed FRE 2200 or FRE 2201.

FRE 3470 OVERSEAS STUDY (1-6)
An intensive study-travel project in France. Prior approval and early registration required. May be repeated up to 12 credit hours.

FRE 3500 FRENCH CIVILIZATION (3)
Readings and discussions on the cultural history of France.

FRE 4241 CONVERSATION II (4)
PR: FRE 3240 or equivalent proficiency. Conversation practice with concentration on current idiomatic usage. May be repeated for a total of 8 hours.

FRE 4421 COMPOSITION II (3)
Continuation of French composition. This course is designed to follow FRE 3420.

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

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

FRT 3110 See above—COURSES IN TRANSLATION (3)
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, Sartrre, Robbe-Grillet, and others. Specific content may vary from year to year.

FRW 4101 INTRODUCTION TO FRENCH DRAMA AND POETRY (3)
A study of the history of drama and poetry. Will include medieval drama, Racine, Corneille, Molieres, Anouilh, Sartrre, Ionesco, and others. Will also include Villon, Ronsard, DuBellay, Lamartine, Hugo, Vigny, Musset, Baudelaire, Mallarme, Rimbaud, Valere, Peguy, Eluard, Apollinaire, Char, and others. Course content may vary from year to year.

GRADUATE COURSES

FLE 6829 GRADUATE INSTRUCTION METHODS (1-4)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of four credits per student. (S/U only.)

FRE 5422 ADVANCED WRITTEN EXPRESSION (3)
PR: FRE 4421, or equivalent. Course is designed to give advanced training in free composition in French.

FRE 5564 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.

FRE 6910 DIRECTED RESEARCH (var.)
PR: GR. Master's level. Repeatable. (S/U only.)

FRE 6971 THESIS: MASTER'S (var.)
Repeatable. (S/U only.)

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)

FRW 5283 THE 20TH CENTURY NOVEL (3)
PR: FRW 4100. Proust, Gide, Mauriac, Malraux, Camus, Robbe-Grillet.

FRW 5430 CLASSICAL DRAMA (3)
PR: FRW 4101. Corneille, Molieres, and Racine.

FRW 5410 LITERATURE OF THE MIDDLE AGES (3)
PR: FRW 4100 or 4101. Major genres, including epics, Arthurian romances, drama, and lyric poetry. Reading in modern French translation.

FRW 5420 LITERATURE OF THE RENAISSANCE (3)

FRW 5440 18TH CENTURY LITERATURE (3)
PR: FRW 4100. The classical tradition and the new currents of thought in the Age of Enlightenment.

FRW 5530 PRE-ROMANTICISM (3)

FRW 5535 ROMANTICISM AND EARLY REALISM (3)
PR: FRW 4101. A study of the romantic and early realistic movements with emphasis on Lamartine, Vigny, Musset, Hugo, and Balzac.

FRW 5558 NATURALISM AND REALISM (3)
PR: FRW 4100 or 4101. A detailed study of realism and naturalism with emphasis on Flaubert, Zola, les Concout, Maupassant, and Daudet.

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

FRW 6319 SEMINAR ON CLASSICAL DRAMA (3)
PR: Graduate standing. A study of the works of Corneille, Racine, or Moliere.

FRW 6405 OLD FRENCH (3)
PR: Graduate standing. An introduction to the Old French language and literature. Readings from representative texts. Required of all M.A. candidates.

FRW 6411 MEDIEVAL LITERATURE (3)
PR: Graduate standing. A study in depth of Old French literature of the Middle Ages.

FRW 6938 GRADUATE SEMINAR (3)
Topics vary. May be repeated.

German

UNDERGRADUATE COURSES

Courses in Translation

GET 3110 HIGHLIGHTS OF GERMAN LITERATURE IN TRANSLATION (3)
An analysis in English based on translations of the most significant
works of the middle ages, of Luther, Grimmelshausen, Lessing, Goethe, Kant, Hegel, Nietzsche, Mann, Heidegger, Kafka, Hesse, and contemporary writers of current interest. Elective for students in all departments.

GER 1060 GERMAN FOR READING (3)
Designed to provide a reading ability in German that will support research in other disciplines.

GER 1100 BEGINNING GERMAN I (4)
Development of basic skills in listening and reading comprehension, speaking and writing of German.

GER 1101 BEGINNING GERMAN II (4)
PR: GER 1100 or equivalent. Continued development of basic skills in listening and reading comprehension, speaking and writing of German.

GER 2200 INTERMEDIATE GERMAN I (3)
PR: GER 1101 or equivalent. A review of the basic structure of spoken and written German. May be taken concurrently with GER 2201.

GER 2201 INTERMEDIATE GERMAN II (3)
PR: GER 1101 or equivalent. Readings in German on the intermediate level. May be taken concurrently with GER 2200.

GER 2340 CONVERSATION I (3)
PR: GER 1101. For development of basic conversational skills.

GER 3420 COMPOSITION I (3)
A fundamental course for students who have completed GER 2200 or GER 2201.

GER 3500 GERMAN CIVILIZATION (3)
PR: GER 2200 or GER 2201. Readings on German on the cultural history of Germany.

GER 4241 CONVERSATION II (3)
Free conversation based on the current German idiom.

GER 4241 COMPOSITION II (3)
A practical course in modern German usage and differences of style.

GET 3111 See above—COURSES IN TRANSLATION

GEW 4100 SURVEY OF GERMAN LITERATURE I (4)
Old High German and Middle High German literature in modern German translation; the literature of Humanism and Baroque, the classical period.

GEW 4101 SURVEY OF GERMAN LITERATURE II (4)
The romantic period, 19th and 20th centuries.

GEW 4900 DIRECTED STUDY (1-3)
Departmental approval required.

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

GRADUATE COURSES

GER 5845 HISTORY OF THE GERMAN LANGUAGE (3)
A diachronic approach to the study of the German language. The course traces the history and development of the language from Indo-European through Germanic, Old, Middle, and New High German.

GER 6000 INDEPENDENT STUDY (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

GEW 5485 20TH CENTURY LITERATURE TO 1945 (3)
A study of major styles in German literature from 1900 to WWII with emphasis on Hauptmann, Schnitzler, Hofmannsthal, George Rilke, Kaiser, Heym, Trakl, Thomas Mann, Hesse, Kafka, Benn, Brecht.

GEW 5489 20TH CENTURY LITERATURE 1945 TO PRESENT (3)
Study of major trends in German literature since WWII with emphasis on Borchert, Frisch, Dürenmatt, Boll, Uwe, Johnson, Grass, Aichinger, Eich Enzensberger, Bachmann.

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

GEW 5541 ROMANTICISM (3)
Jenaer circle and Heidelberg circle; the late romantic period, the writers between Classicism and Romanticism.

GEW 5551 REALISM (3)
Selected works by Grillparzer, Grabbe, Büchner, Heine,immerman, Stifter, Keller, Meyer, Storm, Raabe, Hülschöf, and Morike.

GEW 5600 GOETHE (3)

GEW 5603 FAUST (3)
Sources, form, content, and literary significance of Urfaust and Faust.

GEW 5610 SCHILLER (3)
Selected dramas, philosophical and aesthetic writings.

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

GEW 6915 DIRECTED RESEARCH (var.)
PR: GR Master's level. Repeatable. (S/U only.)

GER 5934 SELECTED TOPICS (1-3)
Study of an author, movement, or theme.

Hebrew

UNDERGRADUATE COURSES

HEB 3110 MODERN HEBREW I (4)
An intensive study of basic skills: pronunciation, listening, comprehension, speaking, and some composition.

HEB 3111 MODERN HEBREW II (4)
PR: HEB 3110 or equivalent. A continuation of HEB 3110. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

Italian

UNDERGRADUATE COURSES

Courses in Translation

ITA 3110 ITALIAN CLASSICS IN TRANSLATION (3)
The works of the fathers of the Renaissance—Dante, Petrarch, Boccaccio, Machiavelli, Castiglione and others—are read and discussed in English.

ITA 1100 BEGINNING ITALIAN I (4)
The first course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking, and reading.

ITA 1101 BEGINNING ITALIAN II (4)
The second course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking, and reading.

ITA 2200 INTERMEDIATE ITALIAN I (3)
PR: ITA 1101 or equivalent. Readings in Italian on the elementary level. A review of the basic structure of spoken and written Italian.

ITA 2201 INTERMEDIATE ITALIAN II (3)
PR: ITA 1101 or equivalent. Readings in Italian on the intermediate level. May be taken concurrently with ITA 2200.

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 3500 ITALIAN CIVILIZATION (3)
Readings and discussion on the cultural history of Italy.

ITA 3560 ITALIAN CINEMA AND LITERATURE (3)
A parallel study of fiction and film from post-war Neo-realism to the present time. This course will be conducted in English with film viewing and lectures.

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.
UNDERGRADUATE COURSES

PORTUGUESE

POG 3210 INTENSIVE PORTUGUESE (4)
PR: 2 years of another Romance language or Latin, or CI. An accelerated study of the fundamentals of listening, speaking, reading, and writing.

POG 3470 OVERSEAS STUDY (1-6)
PR: POG 3210. An intensive study-travel program in a Portuguese-speaking country. Prior departmental approval and early registration are required.

POG 3500 THE LUSO-BRAZILIAN WORLD (3)
An introduction to the culture and civilization of Portugal and Brazil.

POG 4905 DIRECTED STUDY (1-3)
Departmental approval required. May be repeated.

GRADUATE COURSES

POG 6910 DIRECTED RESEARCH (var.)
PR: GR. Master's level. Repeatable. (S/U only.)

SPANISH

UNDERGRADUATE COURSES

SPT 3110 SPANISH MASTERPIECES IN TRANSLATION (3)
Outstanding literary works of Spain, in English. Open to all non-majors.

SPT 3131 SPANISH AMERICAN LITERATURE IN TRANSLATION (3)
Outstanding works of Spanish America, in English. Open to all non-majors.

GRADUATE COURSES

SPN 1100 BEGINNING SPANISH I (4)
Development of basic skills in understanding and reading early Spanish.

SPN 1101 BEGINNING SPANISH II (4)
PR: SPN 1100 or equivalent. Continued development of basic skills in understanding and reading later Spanish.

SPN 2201 INTERMEDIATE SPANISH I (3)
PR: SPN 1101 or equivalent. A review of the major works of Dostoevsky. May be taken concurrently with SPN 2201.

SPN 2202 INTERMEDIATE SPANISH II (3)
PR: SPN 1102 or equivalent. Readings in Spanish on the intermediate level. May be taken concurrently with SPN 2202.

SPN 2240 CONVERSATION I (3)
PR: SPN 1101. For development of basic conversational skills.

SPN 3241 CONVERSATION II (3)
PR: SPN 2240 or equivalent. To improve fluency in spoken Spanish.

SPN 3300 COMPOSITION (4)
PR: SPN 2200-2201. A study of syntax, grammar and writing.

SPN 3470 OVERSEAS STUDY (1-6)
PR: SPN 1101. An intensive study-travel program in a Spanish-speaking country. Prior departmental approval and early registration are required.

SPN 3500 SPANISH CIVILIZATION (3)
PR: SPN 1101. The culture and civilization of Spain.

SPN 3520 SPANISH AMERICAN CIVILIZATION (3)
Readings and discussions on the culture and civilization of Spanish America. For majors and non-majors.

SPN 4301 EXPOSITORY WRITING (4)
PR: SPN 3300. Practical training in contemporary Spanish structure, usage and stylistic devices.

SPN 4410 ADVANCED CONVERSATION (3)
PR: SPN 3241 or equivalent. Intensive practice in the formulation and expression of ideas in standard Spanish.

Supplemental courses

SPT 3110 See above—COURSES IN TRANSLATION
SPT 3131 See above—COURSES IN TRANSLATION
SFW 3200 INTRODUCTION TO HISPANIC LITERATURE (3)
PR: SPN 2201 or equivalent. Fiction, drama, poetry; emphasis on the techniques of reading literature for critical analysis.
SPW 4100 SURVEY OF SPANISH LITERATURE I (3)
PR: SPW 3200 or equivalent. A study of Spanish literature from its origins through the 17th century.

SPW 4101 SURVEY OF SPANISH LITERATURE II (3)
PR: SPW 3200 or equivalent. A study of the later periods of Spanish literature.

SPW 4130 SURVEY OF SPANISH-AMERICAN LITERATURE I (3)
PR: SPW 3200 or equivalent. An introduction to the study of Colonial Spanish-American literature from the Discovery to modernism.

SPW 4131 SURVEY OF SPANISH-AMERICAN LITERATURE II (3)
PR: SPW 3200 or equivalent. An introduction to the study of Spanish-American literature from the Modernism period to the present. Emphasis on modern writers since Dario.

SPW 4900 DIRECTED STUDY (1-3)
Departmental approval required.

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

GRADUATE COURSES

SPN 5567 CONTEMPORARY SPAIN (3)
PR: SPN 3500 or equivalent or graduate standing. Advanced readings and discussions dealing with contemporary Spanish civilization and culture, including a study of recent social, artistic and political trends. Texts and discussions in Spanish.

SPN 5790 PHONOLOGY AND PHONETICS (3)
PR: SPN 3300. A study of the Spanish sound system.

SPN 5845 HISTORY OF THE SPANISH LANGUAGE (3)
Traces the development of Spanish from its Latin origins to the present.

SPN 6940 GRADUATE INSTRUCTION METHODS (1-3)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of three credits per student. (S/U only.)

IDS 4344 SEMINAR: MAN AND NATURE (3)
PR: IDS 3010 or CI. Examination of the modern backgrounds of contemporary awareness; particularly the development of historical awareness of ourselves as scientifically, technologically, and socially "progressive"—in relation to both utopic and non-utopic futures.

IDS 3330 STRUCTURES OF KNOWLEDGE AND KNOWING (4)
Distinguishing the modalities of human knowledge and awareness as reflected in the classic distinctions: sensory/motor/emotive; normative/descriptive/non-rational; logical/mathematical; ethical/physical/moral; qualitative/quantitative; mind/will/body; substance and function.

IDS 3310 PROGRESS AND UTOPIA (4)
Examination of the modern backgrounds of contemporary awareness: particularly the development of historical awareness of ourselves as scientifically, technologically, and socially "progressive"—in relation to both utopic and non-utopic futures.

IDS 3330 FREEDOM AND THE SELF (4)
Analysis of the idea of freedom in relation to the idea of self, involving comparative treatment of the variety of standpoints of conceiving the individual personality in relation to the social context.

UNDERGRADUATE COURSES

ESL 1384 ENGLISH FOR FOREIGN STUDENTS II (3)
PR: ESL 1383 or CI. Intensive study and drill in American English pronunciation and listening comprehension.

LIN 5300 LANGUAGE AND MEANING (4)
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 (3)
PR: LIN 3010 or CI. Introduction to the basic principles of linguistic science; phonological and grammatical analysis and description; language change and genetic relationships.

LIN 4377 LANGUAGE TYPES OF THE WORLD (3)
An introduction to linguistic typology consisting in a systematic comparison of characteristic representatives of the various language types, such as Vietnamese, Malay, Hungarian, Swahili, Sanskrit, Hebrew, and others. No knowledge of any of these languages on the part of the student is presumed.

LIN 5460 LANGUAGE AND SOCIETY (3)
PR: LIN 3010. An analysis of the interrelation of a language and the structure of the society using it. The linguistic behavior patterns characteristic of particular social, political, economic, educational, and racial groups. Problems in communication between strata.

LIN 4010 PSYCHOLINGUISTICS (3)
PR: LIN 3010. The nature of linguistic structure and its correlates in behavior and perception. Examination of the hypotheses of Whorf, Chomsky, and others.
LIN 4710 LANGUAGE AND COMMUNICATION: ACQUISITION AND DEVELOPMENT (3)
PR: LIN 3010. A survey of current research and theory in the processes of normal acquisition and development of language and communication in children. The acquisition and development of phonology, syntax, semantics, pragmatics, and non-verbal communication and the role of language in general cognitive development.

LIN 4903 DIRECTED READING (1-3)
PR: CI. Readings in special topics. Must be arranged prior to registration.

LIN 4930 SELECTED TOPICS (1-3)
PR: CI. Course content depends upon student’s needs and instructor’s interest and may range over the entire field of linguistics.

GRADUATE COURSES

LIN 5231 COMMUNICATION SCIENCE: THEORY AND PRACTICUM (3)
PR: LIN 2200 or CI. Intensified instruction in neuroanatomy of oral-nasal cavities, ear, pharyngeal, laryngeal, and thoracic areas. Includes topics in phonological theory such as feature composition and markedness. Practice in IPA and identification of segments through Sona-Graph work.

LIN 5245 EXPERIMENTAL PHONETICS (3)
PR: LIN 2200 or CI. Intensified training in auditory discrimination of the sounds of American English. Detailed use of research findings, instruments, and methodologies in the laboratory study of normal speech. Development of phonetic skills of discrimination and reproduction of speech sounds.

LIN 6081 INTRODUCTION TO GRADUATE STUDY IN LINGUISTICS (3)
Required of all M.A. candidates. An introduction to the aims and methodologies of linguistics as a graduate discipline: The field of linguistics, its sub-disciplines, and its relationship to adjacent arts and sciences; bibliographical resources; methods of research and research writing; and a brief survey of the historical development of linguistics and current issues in the field.

LIN 6110 DIRECTED RESEARCH (var.)
PR: GR. Master’s level. Repeatable. (S/U only.)

LIN 6117 HISTORY OF LINGUISTIC THOUGHT (3)
Survey of the development of language study in the West from Antiquity to the present: Classical and medieval theories of language; origins of traditional grammar; rationalist linguistic theory and philosophical grammar, and an examination of the origin of contemporary linguistic controversies.

LIN 6128 HISTORICAL LINGUISTICS (3)
An advanced survey of the principles and methodology of historical linguistics.

LIN 6139 TOPICS IN THEORETICAL LINGUISTICS (3)
Offerings will include current issues in any area of linguistic theory.

LIN 6146 COMPARATIVE LINGUISTICS (3)
The principles and methodology of comparative linguistics, focusing upon a major Indo-European subfamily, such as Romance, Germanic, or Balto-Slavic.

LIN 6233 ADVANCED PHONETICS (3)
PR: LIN 5231 or equivalent. Intensified training in close phonetic transcription. Work on dialects, intonation, distinctive feature theory and acoustic phonetics.

LIN 6240 PHONOLOGICAL DESCRIPTION (3)
Analysis of the phonological component of a grammar, its role and formal structures. The generative model is compared to taxonomic descriptions. Theory and data-solution problems.

LIN 6377 THE STRUCTURE OF A SPECIFIC LANGUAGE (3)
Analysis of the linguistic structures of both common and uncommon languages. May be repeated up to six credit hours with change in content/title.

LIN 6405 CONTRASTIVE ANALYSIS (3)
PR: LIN 4377. Comparison and contrast of the structures of American English with corresponding structures in selected foreign languages.

LIN 6407 APPLIED LINGUISTICS (3)
Analysis of the phonological, morphological and syntactic features of English as a basis for linguistic application to problems of English language acquisition by non-native speakers.

LIN 6425 FORMAL STYLISTICS (3)
Studies in the relationship between the development of language study and literary criticism; developments in modern linguistic theory and their application to problems of aesthetics, literary structure, and style.

LIN 6435 FIELD METHODS (3)
PR: LIN 4040 and LIN 5231. An introduction to the techniques of gathering language data in the field and to make an analysis of such data. Native informants are brought on campus to replicate the field experience; students will be come familiar with equipment and tools used by linguists in the field.

LIN 6901 SOCIOLINGUISTICS (3)
Detailed analysis of the phenomenon of language variation with emphasis upon the research methodology of sociolinguistics and the implications of its findings for current linguistic theory.

LIN 6715 LANGUAGE ACQUISITION (3)
PR: LIN 3010, LIN 4377 or CI. A survey of current research and theory in the processes of normal language acquisition and development.

LIN 6810 SEMIOTICS (3)
PR: CI. Introduction to kinesics and paralinguistics; the linguistic structure of gesture, proxemics, and other significant areas of nonverbal communication and signaling behavior.

LIN 6820 STUDIES IN SEMANTICS (3)
Selected problems in the area of meaning and the relationship between linguistic structure and cognition. Mappings of presupposition, kinship fields, emotive concepts, and other problems are surveyed. Theories such as Fodor-Katz-Chomsky, Ross-Lakeoff-McCawley, and others are contrasted.

LIN 6908 INDEPENDENT STUDY (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

LIN 6932 SELECTED TOPICS (1-4)
Content will depend upon instructor’s interests and students’ needs. Such topics as neurolinguistics, bilingualism, and discourse analysis may be taught.

LIN 6940 GRADUATE INSTRUCTION METHODS (1-4)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of four credits per student. (S/U only.)

LIN 6971 THESIS: MASTER’S (var.)
Repeatable. (S/U only.)

PHI 6226 LANGUAGE AND NATURE (3)
A study of the development of language as an instrument for ordering human consciousness in terms of European ideas of Nature, with special emphasis upon the dialectic, relational, and popular modalities of conceptual representation.

PHI 6228 LANGUAGE AND LIMIT (3)
Introduction to the principles of the logic of natural languages including semantic analysis of logical relations between selected syntactic structures (active/passive, raising, case relations, etc.); logical dominance in semantic structure; application of logic to questions of linguistic meta-theory.

TSL 6371 METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE I (3)
Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.

TSL 6372 METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE II (3)
PR: TSL 6371. Analysis of the methods of teaching English reading and listening comprehension and composition to speakers of other languages.

TSL 6945 INTERNSHIP (1-6)
PR: TSL 6371 and TSL 6372. Required of all candidates for the M.A. degree in TESL. Supervised teaching of English as a second language to non-native speakers at appropriate levels and settings. May be repeated up to six credit hours. (S/U only.)

MASS COMMUNICATIONS

UNDERGRADUATE COURSES

ADV 3000 INTRODUCTION TO ADVERTISING (3)
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 3101 ADVERTISING COPY (3)
PR: ADV 3000, ECO 2023 or MAR 3023. Study of laboratory experience in preparation of advertising copy for newspapers, magazines, radio, television, direct mail, outdoor displays, and special items.

ADV 3101 RADIO-TELEVISION ADVERTISING (3)
PR: ADV 3000. An intensive study and analysis of radio and television for advertising purposes, including copywriting, script and storyboard preparation, time buying and selling techniques, audience research methods, and basic production concepts.

ADV 3300 ADVANCED MEDIA STRATEGY (3)
PR: ADV 3000. Problems, techniques, strategy of media research, planning, budgeting and effective utilization in advertising.

ADV 3790 RETAIL ADVERTISING PLANNING AND EXECUTION (3)
PR: ADV 3000 and ADV 3101. A study of retail advertising, including management decisions, processes, procedures, media planning, production techniques, and problems affecting the development of advertising to fulfill retail objectives.

ADV 4801 ADVISING/CAMPAIN PLANNING (3)
PR: ADV 3101, ADV 3300, MAR 3613 or MAR 4403 or MAR 4203 or MAR 4243. Advanced advertising course requiring planning and production of complete general advertising campaign, including research, production methods, budgeting, and media schedules.

ADV 4940 ADVERTISING PRACTICUM (1)
PR: Senior standing and CI. For selected advertising sequence majors. Practical experience outside the classroom in a live advertising situation where the student works for academic credit under the tutelage of a professional practitioner. (S/U only.)

FIL 3004 THE FILM AS MASS COMMUNICATION I: SYNTAX (3)
PR: MMC 3100 and MMC 3602. The language, conventions, elements, and patterns of the film medium as related to current models of effective mass communication and new theories of non-verbal communication. Concurrent laboratory experiences in control of light and line.

FIL 3200 THE FILM AS MASS COMMUNICATION II: RHETORIC AND STYLISTICS (3)
PR: FIL 3004. A continuation of FIL 3004 to include the effective arrangements of scenes and sequences in motion picture and television films. Concurrent laboratory experiences in sound and editing.

FIL 3201 THE FILM AS MASS COMMUNICATION III: WORKSHOP (3)
PR: FIL 3200. Practical exercises, demonstrations, and experiences in applying material covered in FIL 3004 and FIL 3200.

FIL 4205 ADVANCED CAMERA TECHNIQUES (3)
PR: FIL 3004. Advanced camera technology, professional procedures, emulsion selection, color control, studio and location shooting, laboratory methods, matte shooting, and special effects.

FIL 4206 ADVANCED FILM LIGHTING (3)
PR: FIL 4205. Advanced lighting of studio and location sets stressing professional procedures and standards from preproduction to post-production.

FIL 4207 SENSITOMETRY AND PHOTOMETRICS (3)
PR: FIL 3004. The materials and processes of cinema photo; response of materials to development and exposure.

FIL 4208 FILM DIRECTING (3)
PR: FIL 3004. Introduction to the techniques of film direction.

FIL 4209 CINEMA DYNAMICS (3)
PR: FIL 3004. Techniques for the description and analysis of intra-frame movement. Concurrent laboratory in subject and camera movement.

FIL 4300 THE DOCUMENTARY FILM (3)
PR: Sophomore standing. The development of the documentary

movement; earliest newsreels; Flaherty, Grierson and the GPO Unit. U.S. Government-sponsored films, the Canadian Film board, Cinema Verite; study of about 60 fact-films from some 20 countries. Stresses objective criteria, criterion, analysis.

FIL 4403 SOCIAL HISTORY OF THE FILM TO 1945 (3)
PR: MMC 3100 and MMC 3602. A study of the development of the film from 1945 to the present. (FIL 4403 is a prerequisite.)

FIL 4404 SOCIAL HISTORY OF THE FILM, 1945 TO THE PRESENT (3)
PR: MMC 3100 and MMC 3602. A continuation of FIL 4403, covering the development of the film from 1945 to the present. (FIL 4403 is not a prerequisite.)

JOU 3006 MAGAZINES IN SOCIETY (3)
PR: MMC 3100 and MMC 3602. A study of the development of various types of magazines in America, and a critical analysis of current problems and performances of periodicals along with changes indicated for the future.

JOU 3100 BEGINNING REPORTING (3)
PR: MMC 3100 and MMC 3602. Basic instruction in news judgment, sources of news, 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, 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 3205 TYPOGRAPHY I (3)
PR: MMC 3100 and MMC 3602. The history and design of type, major classifications of type faces, typographic nomenclature, printer's measurements, and the science of type design and identification.

JOU 3206 TYPOGRAPHY II (3)
PR: JOU 3205. A study of the history of typesetting, the emergence of computers and coldtype composition; extensive study and use of copyfitting methods for body type, display, and headlines; principles of typography and photo composition including readability and legibility. Laboratory work.

JOU 3300 MAGAZINE ARTICLE AND FEATURE WRITING (3)
PR: CRW 3100, JOU 3100. Planning, researching, writing, and marketing articles for general and special interest magazines and newspaper magazine supplements; experiences in developing article ideas; inductive analysis of contemporary magazine articles.

JOU 3306 CRITICAL WRITING: EDITORIALS, REVIEWS, COLUMNNS (3)
PR: JOU 3101, JOU 4200. Interpretive and opinion writing for the mass media. Analysis and discussion of current events as a basis for critical thinking and editorial writing; evaluation of editorial pages of leading newspapers. Study of journalistic techniques involved in writing art, drama, music, and book reviews and satire, sports, or personal columns.

JOU 3340 REPORTING PRACTICUM (1)
PR: JOU 4104 and CI. For selected News-Editorial Sequence majors. Practical experience outside the classroom in a live newspaper reporting situation where the student works for academic credit under the tutelage of a professional practitioner. (S/U only.)

JOU 4104 PUBLIC AFFAIRS REPORTING (3)
PR: JOU 3101, POS 2041 and POS 3142. Covering city council meetings, courthouse, city hall, courts, society, and other special assignments. Emphasis is on coverage of major governmental units of all levels of government, including examination and interpretation of public documents and records.

JOU 4200 NEWS EDITING I (3)
PR: ECO 2013, JOU 3100, and SOC 1020. 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 4202 NEWS EDITING II (3)
PR: JOU 4200, POS 2041. Continuation of JOU 4200, with more intensive practice on the copydesk in evaluating, processing, editing, and headlining live wire copy and local copy; experimental makeup; managing the copy desk. Current events and analysis of selected daily newspapers.

JOU 4205 MAGAZINE EDITING AND PRODUCTION (3)
PR: JOU 3300, JOU 4200. A study of magazines in America: prepara-
tion of copy, photographs and art for printing; issue planning and design; examination of production methods, including printing, typography and mechanics. Preparation of a detailed proposal and comprehensive study of a hypothetical magazine.

JOU 4500 NEWSPAPER ORGANIZATION AND MANAGEMENT

JOU 4800 MASS MEDIA STUDIES
PR: Junior standing. JOU 3100, MMC 3602. Intensive review of mass communications theory, practice, and content as they relate to teaching mass media in secondary schools, with some emphasis also on supervision of school publications. Not open to Mass Communications majors.

JOU 4941 EDITING PRACTICUM
PR: Senior standing JOU 4202 and CI. For selected News-Editorial Sequence majors. Practical experience outside the classroom at a daily newspaper copydesk, where the student works for academic credit under the tutelage of a professional news editor. (S/U only.)

JOU 4944 MAGAZINE PRACTICUM
PR: Senior standing and CI. For selected Magazine Sequence majors. Practical experience outside the classroom in a live magazine or industrial publication situation where the student works for academic credit under the tutelage of a professional practitioner. (S/U only.)

MMC 3000 SURVEY OF MASS COMMUNICATIONS
The functions of agencies of mass communications and their impact upon society; critical analyses of press performance in relation to current events; evaluation of the press through a study of its history. Not open to Mass Communications majors.

MMC 3100 WRITING FOR THE MASS MEDIA
PR: Sophomore standing; 2.5 GPR; grade of “C” in ENC 1101, ENC 1104, typing proficiency, and passing score on English Diagnostic Test. An introduction to the basic skills of writing for the mass media with practice in library research, persuasive writing, and informational writing.

MMC 3602 MASS COMMUNICATIONS AND SOCIETY
PR: Sophomore standing. A survey of the history, theory processes, and philosophy of mass communications and the mass media in the United States, and their relationship to the other major institutions of American society.

MMC 3700 THE POPULAR ARTS IN AMERICA
A survey of the growth of the popular arts (motion pictures, radio, television, art best sellers, jazz and other forms of music, the comics, etc.) as mirrors, transmitters and transformers of American cultural values.

MMC 3936 SELECTED TOPICS IN MASS COMMUNICATIONS STUDIES
(1-3) Courses designed to meet current or specific topics of interest to the instructor and students.

MMC 4123 MEDIA SCRIPT WRITING
PR: MMC 3100 and MMC 3602. An introduction to the techniques of writing scripts for photographic and multi-media presentation, electronic media, and industrial and documentary film.

MMC 4200 HISTORY AND PRINCIPLES OF COMMUNICATIONS LAW
PR: MMC 3100 and MMC 3602. Historic and Constitutional backgrounds of freedom of control and expression, statutory enactments, major Supreme Court cases, court decisions and administrative rulings which have shaped legal control of communications.

MMC 4201 GOVERNMENT AND THE MEDIA
PR: MMC 4200. The relationships between government and the media, with emphasis on current activities of such regulatory agencies as the Federal Communications Commission, the Federal Trade Commission, and other commissions, the courts, the Congress and the Executive; examination of the media and industry codes and standards.

MMC 4300 INTERNATIONAL COMMUNICATION
Mass communications as internal and international systems; flow of the news; international news communications networks; satellite communications, overseas activities of American media interests; international propaganda; communication and national development, international media organizations and their activities.
MMC 6401 MASS MEDIA STRUCTURES
(3)
The study of mass communications theories, structures, influences, and their relationships to institutions in American society.

MMC 6421 RESEARCH METHODS IN MASS COMMUNICATIONS
(3)
The theory and practice of quantitative, historical, and critical research methods, and their applications to the study of mass communication. Emphasis on experimental and survey research, statistical analysis, and evaluation of data.

MMC 6605 PUBLIC OPINION AND THE MASS MEDIA
(3)
The influence of public opinion on private and public institutions in a democratic society and the role of the mass media in opinion formation. The nature of persuasion in establishing or modifying public opinion, and perspectives on the social responsibilities of communicators.

MMC 6612 SEMINAR: GOVERNMENT AND THE MEDIA
(3)
PR: MMC 4200 or equivalent. Interrelationships of the media and government at the judicial, executive and legislative levels. Focus is on legal limitations and privileges of the media and the First Amendment; research procedures in court and administrative agency documents.

MMC 6900 DIRECTED READINGS IN MASS COMMUNICATIONS
(1-3)
PR: CI and graduate adviser. Readings in specialized areas of Mass Communications as agreed to by the instructor and the student by contract. May be repeated up to 3 credit hours. (S/U only.)

MMC 6910 INDIVIDUAL RESEARCH IN MASS COMMUNICATIONS
(1-3)
PR: CI and graduate adviser. Independent study in which the student must have a contract with the instructor to study an area not covered by other courses in the graduate curriculum. May be repeated up to 3 credit hours. (S/U only.)

MMC 6936 SELECTED TOPICS IN MASS COMMUNICATIONS
Courses designed to meet current, specific topics of interest to students and instructors.

MMC 6945 PROFESSIONAL PRACTICUM
(3)
PR: Minimum of 12 graduate hours in Mass Communications. Practicum will consist of placement with a media related organization selected by the student and approved and supervised by the graduate adviser. (S/U only.)

MMC 6971 THESIS: MASTER'S
(var.)
Repeatable. May be taken for varying credit in successive semesters up to 6 credit hours. (S/U only.)

PUR 6603 PUBLIC RELATIONS COUNSELING
(3)
Relationship of the public relations counselor to the client or employer, counseling in corporate, non-profit and governmental organizations; writing and presenting PR programs to the client; management and operation of counseling firms.

PUR 6604 STANDARDS OF PUBLIC RELATIONS PRACTICE
(3)
Historical perception of ethical practice; the professional's role as advocate for the client and ombudsman between the client and his public; codes of conduct; administrative and statutory law governing the practice; progress towards professional status.

RTV 6640 HISTORY AND CRITICISM OF BROADCASTING
(3)
The origin and development of broadcast programming stressing how radio and television content affect social, cultural, and political values. Study will also include critical examination of broadcast aesthetics and those factors which determine program form and function.

RTV 6702 TELECOMMUNICATIONS AND PUBLIC POLICY
(3)
An exploration of the emerging problems of telecommunications policy, especially the regulation of news systems of communications, and the development of communications policy in a post-industrial age.

VIC 6005 SEMINAR IN VISUAL COMMUNICATIONS
(3)
Development of message preparation in the integration of visual and verbal images, emphasis on the management and planning of still photography, video, film, graphic design, and typography in effective communication.

PHILOSOPHY

Chairperson: W.H. Truitt; Professors: J.A. Gould, W.H. Truitt; Professor Emeritus: C.H. Chen; Associate Professors: J.A. Bell, B.R. Boxill,
UNDERGRADUATE COURSES

PHI 3000 INTRODUCTION TO PHILOSOPHICAL TRADITIONS
An historical introduction to selected philosophical traditions through readings from representative thinkers.

PHI 3100 ANCIENT AND MEDIEVAL PHILOSOPHY
A survey of philosophy from the pre-Socratics through Plotinus.

PHI 3420 MODERN PHILOSOPHY
A survey of Western philosophy from Descartes through Thomas Reid.

PHI 3440 RECENT PHILOSOPHY
A survey of philosophy from Kant through nineteenth century philosophy.

PHI 4600 CONTEMPORARY PHILOSOPHY
PR: Eight hours of philosophy or CI. Selected schools of twentieth century thought such as idealism, positivism, pragmatism, realism, and existentialism.

PHI 4700 AMERICAN PHILOSOPHY
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 PRACTICAL LOGIC
Elementary theory and application of logical fallacies, deductive and inductive logic. Not for majors.

PHI 3011 INTRODUCTION TO PHILOSOPHICAL PROBLEMS
An introduction to major philosophical problems through readings from representative thinkers.

PHI 3100 LOGIC
Language analysis and classical modern formal logic, including the logic of classes and propositions, and discussion of philosophical issues.

PHI 3404 SCIENTIFIC METHOD
Probability, inductive inference, the hypothetico-deductive method, experimentation, and selected topics in the philosophy of science.

PHI 3600 ETHICS
An examination of the writing of the philosophers: Plato, Aristotle, Kant, Sartre, etc., about moral problems and principles.

PHI 3601 CONTEMPORARY MORAL ISSUES
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 3700 PHILOSOPHY OF RELIGION
Analysis of religious experience and activity and examination of principal religious ideas in light of modern philosophy.

PHI 3905 DIRECTED STUDY
PR: CI. Individual study directed by a faculty member. Approval slip from instructor required.

PHI 3930 SELECTED TOPICS
PR: CI. Selected topics according to the needs of the student.

PHI 4320 PHILOSOPHY OF MIND
PR: Eight hours of philosophy or CI. 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 problem of other minds, the physical basis for intelligence, etc.

PHI 4350 THEORY OF KNOWLEDGE
PR: Eight hours of philosophy, PHI 3300, or CI. 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 4800 AESTHETICS
A study of traditional and contemporary aesthetic theories with emphasis on creative process, the nature of the art work, the aesthetic response, expressiveness, form and content as well as art and morality.

PHI 4905 DIRECTED STUDY
PR: CI. Individual study directed by a faculty member. Approval slip from instructor required.

PHI 4930 SELECTED TOPICS
PR: CI. Selected topics according to the needs of the senior students. Approval slip from instructor required.

PHI 4310 SOCIAL PHILOSOPHY
An analysis of rival theories of social order and their philosophical foundations.

PHI 3222 PHILOSOPHIES OF THE CITY
A study of the current issues in the philosophy of the city including the nature of community, alienation and the city, art and the city, political philosophy of the city, the city and business, nature versus the city, the city and beauty, etc.

PHI 3400 INTRODUCTION TO PHILOSOPHY OF LAW
A study of the fundamental concepts of law from a philosophic standpoint including crime, justice, punishment, free speech, insanity, etc.

PHI 4322 ANCIENT AND MEDIEVAL POLITICAL PHILOSOPHY
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.

PHI 4331 MODERN POLITICAL PHILOSOPHY
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.

PHI 4340 CONTEMPORARY POLITICAL PHILOSOPHY
A study of political philosophy in the twentieth century, including an examination of the ethical, metaphysical and epistemological bases on these philosophies.

PHA 3786 EXISTENTIALISM
A study of the religious and atheistic existentialists and the bearing of their views on religion, ethics, metaphysics, and theory of knowledge.

PHP 4000 PLATO
PR: Eight hours of philosophy or CI. The examination of Plato will include the dialogues Protagoras, Georgias, Meno, Republic, etc.

PHP 4010 ARISTOTLE
PR: Eight hours of philosophy or CI. Study of Aristotle's philosophy.

PHP 4410 KANT
PR: Eight hours of philosophy or CI. Lecture and discussion of Kant's philosophy, especially The Critique of Pure Reason.

PHP 4740 RATIONALISM
A careful study of the epistemologies of Descartes, Spinoza, Leibniz, and Malebranche.

PHP 4745 EMPIRICISM
A careful study of the epistemologies of Locke, Berkeley, Hume, and Thomas Reid.

PHP 4784 ANALYTICAL PHILOSOPHY
PR: Eight hours of philosophy, PHI 3100. 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

GRADUATE COURSES

PHI 6938 SEMINAR IN THE HISTORY OF PHILOSOPHY
PR: Graduate standing or CI. A seminar in the history of philosophy. The instructor will determine the subject matter. Variable titles: Ancient, Modern, Recent, Contemporary. Repeatable up to 12 credit hours.

PHI 5135 SYMBOLIC LOGIC
PR: PHI 3100 or CI. Mathematical treatment of formal logic, including methods of proof, quantification, the logic of relations and an introduction to properties of deductive systems.

PHI 5225 PHILOSOPHY OF LANGUAGE
PR: Eight hours of philosophy, major in linguistics, or CI. An examination of semantical, 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: CI. Individual research supervised by a faculty member. Approval slip from instructor required.

PHI 5934 SELECTED TOPICS  
(1-3)  
PR: CI. Selected topics according to the needs of the student. Approval slip from instructor required.

PHI 6105 SEMINAR IN LOGIC  
(3)  
PR: Graduate standing or CI. Foundations and basic problems of logic. This course may be taken more than once for credit with CI and departmental approval. Seminar format.

PHI 6305 SEMINAR IN EPistemology  
(3)  
PR: Major in philosophy or psychology and CI. This course may be taken more than once for credit with CI and departmental approval. Seminar format.

PHI 6405 SEMINAR IN THE PHILOSOPHY OF NATURAL SCIENCE  
(3)  
PR: Graduate standing or CI. A study of the nature and status of physical theories, some basic problems associated with scientific methodology, and the philosophical implications of modern science. This course may be taken more than once for credit with CI and departmental approval. Seminar format.

PHI 6605 SEMINAR IN THE PHILOSOPHY OF SOCIAL SCIENCES  
(3)  
PR: Eight hours of philosophy or CI. Philosophic issues arising in the social sciences; value assumptions, laws and theories, models, etc. Seminar format.

PHI 6605 SEMINAR IN ETHICS  
(3)  
PR: Graduate standing and CI. Advanced study of the problems of modern philosophy. May be repeated up to 9 credit hours.

PHI 6506 SEMINAR IN METHAPHYSICS  
(3)  
PR: Graduate standing or CI. An analysis of fundamental religious concepts in terms of contemporary philosophy. This course may be taken more than once for credit with CI and departmental approval. Seminar format.

PHI 6705 SEMINAR IN PHILOSOPHY  
(3)  
PR: Graduate standing or CI. An analysis of fundamental religious concepts in terms of contemporary philosophy. This course may be taken more than once for credit with CI and departmental approval. Seminar format.

PHI 6808 SEMINAR IN AESTHETICS  
(3)  
PR: Graduate standing or CI. An analysis of fundamental special problems of aesthetics; value, perception, communication, technique, content. This course may be taken more than once for credit with CI and departmental approval. Seminar format.

PHI 6908 DIRECTED RESEARCH  
(var.)  
PR: GR. Master’s level. Repeatable. (S/U only.)

PHI 6934 SELECTED TOPICS  
(1-3)  
PR: Graduate standing and CI. Selected topics according to the needs of the student. Approval slip from instructor required.

PHI 6945 SEMINAR IN INSTRUCTION METHODS  
(1-3)  
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of three credits per student. (S/U only.)

PHI 6971 THESIS: MASTER’S  
(var.)  
Repeatable. (S/U only.)

PHM 6105 SEMINAR IN SOCIAL PHILOSOPHY  
(3)  
PR: Graduate standing or CI. A detailed study of the philosophical theories of society, class societies (Capitalism), advanced technocracy, (all types). This course may be taken more than once for credit with CI and departmental approval. Seminar format.

PHM 6305 SEMINAR IN POLITICAL PHILOSOPHY  
(3)  
Graduate standing or CI. An examination of the main political philosophies. This course may be taken more than once for credit with CI and departmental approval. Seminar format.

PHM 6406 SEMINAR IN THE PHILOSOPHY OF LAW  
(3)  
PR: Graduate standing or CI. A study of the metaphysical, ethical and epistemological bases of law. This course may be taken more than once for credit with CI and departmental approval. Seminar format.

PHM 6506 SEMINAR IN PHILOSOPHY OF HISTORY  
(3)  
PR: Graduate standing or CI. The analysis of language and logic of historical explanation, historical idealism, historic materialism, positivism, and historical sociology. This course may be taken more than once for credit with CI and departmental approval. Seminar format.

PHI 3000 INTRODUCTION TO RELIGION  
(4)  
This course examines the phenomenon of religion to answer the question: Religion—what is it? Religious thought (mythology and theology) and religious behavior (ritual and morality) are closely examined.

REL 3106 RELIGION IN AMERICA  
(4)  
To trace the movement from state church to pluralism in American religious institutions, the religious results of non-Protestant immigration; the Jewish factor; the effect of home missions and social concern programs upon American life; political entanglements and the concept of church/state separation.

REL 3145 WOMEN AND RELIGION  
(4)  
Analysis of the status and roles of women as compared to men in the Judeo-Christian tradition. Contemporary issues of feminist theology, and the controversies surrounding them. (May also be taken for credit in Women’s Studies.)

REL 3201 AND OF THE BIBLE  
(4)  
A survey of the natural features, historical forces, and cultural movements of the Holy Land that shaped its peculiar role in history with respect to the ancient Hebrews. Particular attention will be paid to the period from the Hebrew Conquest to time of Jesus.

REL 3210 INTRODUCTION TO THE BIBLE/OLD TESTAMENT  
(4)  
An introduction to the critical study of the Hebrew Scriptures against the background of the ancient Near East, with attention to the history and religion of the Hebrew people. REL 3210 and REL 4221 may not both be credited toward the major.

REL 3243 INTRODUCTION TO THE NEW TESTAMENT  
(4)  
An introduction to the critical study of the New Testament in context of Christian beginnings in the first century A.D. REL 3243 and REL 4244 may not both be credited toward the major.

REL 3280 BIBLICAL ARCHAEOLOGY  
(4)  
An examination in depth of the archaeological data relating to the background and content of the Bible, including ancient customs, Biblical sites and cities, Biblical history, and material culture of the Biblical period. Special attention will also be given to excavation methods and interpretation of archaeological evidence.

REL 3310 WORLD RELIGIONS  
(5)  
An introduction to and a comparison of the ideas, the literature and institutions of the major religions of the world including Judaism, Christianity, Islam from the Near East and Hinduism, Taoism, Confucianism, and Buddhism from the Far East. General comparison of Western and Eastern beliefs.

REL 3332 BUDDHISM  
(4)  
The study and comparison of Theravada and Mahayana Buddhism in their philosophical and psychological dimensions.

REL 3335 RELIGIONS OF CHINA AND JAPAN  
(4)  
This course will investigate the philosophy of ancient China and its two major interpreters, Lao Tzu and Confucius. It will also look at the native Japanese Shinto religion.

REL 3342 THE RELIGIONS OF INDIA  
(4)  
The sources of Hindu philosophic thought, an understanding of the psychology of the Yogas, and a study of the Hindu holy men and women are the three main concerns of this course.
REL 3420 CONTEMPORARY RELIGIOUS THOUGHT (4)
An examination of the central ideas of recent theological thinkers; such men as Barth, Brunner, Bultmann, Bonhoeffer, Rahner, Tillich, Cox, Alziger, Buber, Niebuhr.

REL 3501 HISTORY OF CHRISTIANITY (5)
The historical development of Christianity, its ideas and institutions, from the first century to the rise of "religious modernism" in the 19th century.

REL 3508 SOURCES OF CHRISTIANITY (3)
An investigation of the pre-Christian influences, in addition to the influences of Judaism, that shaped the theology and practices of Christianity up to the end of the 4th century; influences, many of which continue to be evident in the traditional Roman and Eastern Orthodox churches.

REL 3600 INTRODUCTION TO JUDAISM (3)
An introduction to Judaism: its religious tenets; its codes of ethics; its rites and customs. This course is intended as a description of what it means to be a Jew.

REL 3611 HISTORY OF JUDAISM I (3)
A study of the evolution of the religion of ancient Israel from the Exodus to the end of the second century of our era, seen against the background of its historical, geographical, political, social and spiritual setting.

REL 3612 HISTORY OF JUDAISM II (3)
A study of the history of Judaism and the Jews from the third century of our era through the Middle Ages to the Emancipation in the 19th century. Taking History of Judaism I first is advantageous.

REL 3613 MODERN JUDAISM (2)
A study of Jewish life in the West since 1789, emphasizing Jewish beliefs, practices, and institutions.

REL 3900 DIRECTED READINGS (1-4)
PR: CI. Individual guidance in concentrated reading on a selected topic.

REL 3936 SELECTED TOPICS (1-4)
PR: CI. Course contents depend on students' needs.

REL 4158 RELIGION AND DEPTH PSYCHOLOGY (4)
PR: One psychology course or CI. This course is designed to enhance the student's understanding of human existence by investigating the relationship between human dynamics and religion.

REL 4182 COMPARATIVE MYSTICISM (4)
A course designed to acquaint the student with the nature of mystical experience, and some of the varieties of mystical experience recorded in the writings of the mystics.

REL 4221 BIBLE I: OLD TESTAMENT LAW AND HISTORY (4)
An examination of the Pentateuch (Torah) from the point of view of its literary development, religious traditions, historical background, law, covenant theology, and the history of the religion of Israel.

REL 4224 BIBLE II: PROPHETS, WRITINGS (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 4235 APOCRYPHA AND PSEUDEPIGRAPHA (3)
A critical study of the books written "between the Testaments", a few of which (the Apocrypha) are sometimes regarded as canonical by some groups, but most of which (the Pseudoepigrapha) are not. Special attention will be paid to the role of these books in the development of early Christianity and post-Biblical Judaism.

REL 4244 NEW TESTAMENT I: GOSPELS, ACTS (3)
An exploration of the Gospels and Acts, including their backgrounds in Judaism and pagan religion, literary and form criticism, historical Jesus research, and the social history of earliest Christianity.

REL 4250 JESUS' LIFE AND TEACHINGS (4)
PR: CI. An examination of the various historical studies made in the quest to identify 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 3243 or CI. An investigation of the phenomenon of earliest Christianity in its Pauline and non-Pauline forms, particularly as reflected in Paul's letters and in other writings of the New Testament. Special attention is given to the program of apocalyptic, as in the book of Revelation.

REL 4295 DEAD SEA SCROLLS (4)
PR: CI. A survey and study of the literature of the Dead Sea Scrolls in English translation. Examination of the literary, historical, and archaeological evidence for the identification of the Qumran people with the Essenes. Possible connections with the New Testament and Christian tradition.

REL 4910 UNDERGRADUATE RESEARCH (1-4)
PR: Junior standing and CI. Individual investigations with faculty supervision.

REL 4931 SEMINAR IN RELIGION (3)
A course designed for persons, especially Religious Studies majors, whose prior religious studies have prepared them for a cooperative creative and/or research effort in the area of religion.

REL 4936 SELECTED TOPICS (1-4)
PR: Junior standing and CI. Individual investigations with faculty supervision.

GRADUATE COURSES

REL 5937 SELECTED TOPICS (1-4)
PR: Senior standing and CI. Course contents depend on students' needs.

REL 6015 PROSEMINAR: THE GRADUATE STUDY OF RELIGION (3)
PR: Graduate standing in the Department of Religious Studies. An introduction to and research methods used in Religious Studies proper and those borrowed from other disciplines. In the former are to be found Comparative Religion, religious hermeneutics, and theological analysis. Among the latter are included comparative literature, literary criticism, and historiography.

REL 6107 SEMINAR: RELIGION AND THE HUMAN EXPERIENCE (3)
The study of religion with emphasis on the human experience through modern thinkers such as Tillich, Ricoeur, etc. May be retaken with different subject matter once.

REL 6126 RELIGION IN AMERICA (3)
Studies in the history of native American religions, of the rise of American denominations, churches, and sects, of the relationship between church and state, and of religious thought in America. May be retaken with different subject matter twice. Open to non-majors.

REL 6183 CLASSICS OF THE WESTERN MYSTICAL TRADITION (3)
An analysis of major works in spirituality in the medieval to modern periods in Christianity and Judaism. Special attention is paid to the psychology of the mystical experience and the mystics' relationship to their community and tradition. Open to non-majors. May be retaken with different subject matter once.

REL 6184 COMPARATIVE MYSTICISM (3)
An in-depth survey of different types of mystical consciousness, in the West and the East, medieval and modern.

REL 6246 STUDIES IN THE GOSPELS (3)
An examination in detail of a select problem in Gospel research such as the Synoptic Problem, the social world of earliest Palestinian Christianity as inferred from the documents, life of Jesus research, or structural criticism of gospel narrative. May be retaken with different subject matter twice.

REL 6285 STUDIES IN BIBLICAL ARCHEOLOGY (3)
A study of various problems in Biblical Archaeology including excavation techniques, principles of interpretation, problems in correlation of the text of the Bible and specific finds, chronology, reconstruction of culture from archaeological evidence, and others.

REL 6304 SEMINAR: ISSUES IN COMPARATIVE RELIGION (3)
PR: One course in Western religions and one course in Eastern religions. An analysis of areas of mutuality between religions of the East and West so that comparisons and dialogue can occur. May be retaken with different subject matter twice.

REL 6317 SEMINAR: STUDIES IN EASTERN RELIGIONS (3)
This course provides the student with sources and ideas for research in Oriental religions and with an interdisciplinary approach. May be retaken with different subject matter once.

REL 6327 SEMINAR: ANCIENT RELIGIONS AND LITERATURES (3)
A research seminar in some aspect of ancient religion and literature: Hebrew Bible, New Testament, Mithraism, Mystery Religions,
Pseudopigraphica, and others taught in translation. May be retaken with different subject matter three times.

**REL 6385 NATIVE AMERICAN RELIGIONS** (3)
An in-depth research seminar on the myths and religious beliefs of the American Indian, particularly of Meso-America and North America.

**REL 6426 20TH CENTURY THEOLOGIANS** (3)
An examination of certain modern theologians representing theological movements such as liberal Protestantism, Catholic modernism, fundamentalism, liberation theologies, etc. and Jewish reactions to modernity such as orthodoxy, conservatism, and reconstructionism. May be retaken with different subject matter once.

**REL 6491 SEMINAR: RELIGIOUS THOUGHT** (1-3)
A study of the origins, development and role of reflective thought in religion and of the relations between various statements of religious meaning such as scripture, creeds, dogmas, etc. May be retaken with different subject matter twice.

**REL 6507 RELIGIOUS IDEAS OF THE MIDDLE AGES** (3)
A historical survey of the religious factors of the period from the emergence of Islam in Europe through the rise of the Papacy, through the Crusades, to the development of the Papal University and the Reformation.

**REL 6906 INDEPENDENT STUDY** (1-3)
PR: Graduate Standing, Master's Level. Independent study in which the student must have a contract with the instructor. Open to non-majors.

**REL 6911 DIRECTED RESEARCH** (1-3)
PR: Graduate Standing, Master's Level. Individual guidance in concentrated reading in a carefully delimited area of religious studies research skills. Repeatable. Majors only.

**REL 6938 SPECIAL TOPICS IN RELIGIOUS STUDIES** (2-4)
PR: Graduate standing. Open to non-majors. Variable titles offered periodically on topics of special interest. May be retaken with different subject matter twice.

**REL 6940 GRADUATE INSTRUCTION METHODS** (1-4)
Offered primarily for the supervision of Graduate Teaching Assistants. Variable credits.

**REL 6971 THESIS, MASTER'S**
(Var.)
PR: GR. Master's level. Repeatable. (S/U only.)

---

**Ancient Studies Sequence**

**UNDERGRADUATE COURSES**

**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 3851 MID-EASTERN MYTHOLOGY** (2)
Study of the more important myths and religious concepts of Egypt, the Fertile Crescent, Crete, Anatolia, and Persia, and of their impact on the Hebrew and Graeco-Roman mythologies as well as on later Western art, literature, and religion.

**CLA 4100 GREEK CIVILIZATION** (3)
Detailed study of the Aegean and Greek civilizations from their beginning in Crete and Mycenae to the Roman period. Greek discoveries, explorations, and colonization. (Alternate years.)

**CLA 4120 ROMAN CIVILIZATION** (3)
Prehistoric Italy and Etruscan civilization. History of the civilization of Rome and the Empire with emphasis on the Etruscan, Greek, Carthaginian, and Mid-Eastern influences. (Alternate years.)

**CLA 4160 EGYPTIAN CIVILIZATION** (3)
Study of the Ancient Egyptian civilization, including customs, religion, art and architecture, language and literature, science and the calendar, and an introduction to hieroglyphic writing. (Alternate years.)

**CLA 4171 MESOPOTAMIAN CIVILIZATION** (3)
Study of the Ancient Mesopotamian (Sumero-Babylonian) civilization, including customs, religion, art and architecture, languages and literatures, science and the calendar, and an introduction to cuneiform writing. (Alternate years.)

**CLA 4900 DIRECTED READINGS** (1-4)
PR: Consent of coordinator prior to registration. Readings in special topics chosen by the student in cooperation with the instructor. Reading of literature also possible in English translation.

**CLA 4930 SELECTED TOPICS** (1-4)
Course contents depend on student demand and instructor's interest and may range over the whole field of Ancient languages, literatures, and civilizations. Offerings on a semi-regular basis include Tongues of the Bible (2), and The Bible as History (3).

**HEB 3100, 3101 BASIC HEBREW I, II**
(4,4)
Designed to give students a working knowledge of Classical (Biblical) Hebrew and to introduce them to the Biblical literature in the original language.

**HEB 4250, 4251 ADVANCED HEBREW I, II**
(4,4)
PR: HEB 3100, HEB 3101, or equivalent. Study and analysis of selected passages from pre-Exilic, Exilic, and post-Exilic Biblical and extra-Biblical Hebrew texts to the second century B.C.E. Survey of the Hebrew literature from its beginning to the end of the Second Commonwealth.

---

**GRADUATE COURSES**

The following entries are intended as service courses for students in related graduate programs, in particular Anthropology, History, and Linguistics. In all of these, permission from the coordinator is required prior to enrollment.

**CLA 5900 DIRECTED READINGS** (1-4)
Readings in special topics chosen by the student in cooperation with the instructor. Reading of literature also possible in English translation.

**CLA 5910 INDIVIDUAL RESEARCH** (1-4)
Specialized individual work in particular areas of student's interest.

**CLA 5930 SELECTED TOPICS** (1-4)
Course contents depend on student demand and instructor's interest and may range over the whole field of Ancient languages (including comparative studies), literatures, civilizations, and epigraphy.

**NOTE:** In any of the numbers CLA 4900, CLA 4930, CLA 5900, CLA 5910, CLA 5930, enrollment is repeatable for different subject matters.

---

**COLLEGE OF BUSINESS ADMINISTRATION**
ACC 3101 INTERMEDIATE ACCOUNTING I (4)
PR: ACC 2021. Measurement theory and methodology underlying income measurement and reporting of financial position. The study of compound interest fundamentals, cash, temporary investments, receivables, inventories, property and equipment, intangibles, and long term investments.

ACC 3121 INTERMEDIATE ACCOUNTING II (4)
PR: ACC 3101. Continuation of theory and principles underlying financial statements: current and long term liabilities, stockholders' equity, earnings-per-share, income taxes, pensions, leases, accounting changes, inflation, the statement of changes in financial position.

ACC 4001 COST ACCOUNTING AND CONTROL (3)
PR: FIN 3403, GEB 3121. Deals with relevant costs for decision making, standards and job order costing, flexible budgeting direct and absorption costing, regression analysis and decision models.

ACC 3730 ACCOUNTING INFORMATION SYSTEMS (3)
PR: ACC 3101, and COC 2201. Manual and computer-based accounting systems, including order processing, accounts receivable, inventory management, and responsibility accounting systems. Emphasis on internal control, efficiency, and provision of useful information.

ACC 4501 FEDERAL TAXES I (3)
PR: AC 2021. An introduction to the federal income tax structure. Use of tax services and the concept of taxable income primarily applicable to individuals.

ACC 4521 FEDERAL TAXES II (3)
PR: ACC 4501. Continued study of the federal income tax structure. Special topics and the concept of taxable income as it applies primarily to business enterprises.

ACC 4601 AUDITING (3)
PR: ACC 3121 and GEB 3121. Principles and procedures of internal and public auditing. The ethics, responsibilities, standards, and reporting of professional auditing.

ACC 4905 INDEPENDENT STUDY (1-3)
PR: CI. Specialized independent study determined by the students' needs and interests. May be repeated up to 6 credit hours. (S/U only.)

ACC 4914 INDEPENDENT RESEARCH (1-4)
PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 8 hours.

ACC 4934 SELECTED TOPICS IN ACCOUNTING (1-4)
PR: CI. The course content will depend on student demand and instructor's interest.

ACC 5211 ADVANCED ACCOUNTING (4)
PR: ACC 3121. Accounting for business combinations, preparation of consolidated financial statements, home office and branch operations, accounting for international operations and partnership.

ACC 5315 FINANCIAL/MANAGERIAL ACCOUNTING (3)
This course provides students in the M.S. degree in Management with a basic knowledge of financial and managerial accounting in both the public and private sectors. The course concentrates on the uses and limitations of accounting data for planning, control, and other decision making activities.

ACC 5451 MANAGEMENT ACCOUNTING AND CONTROL (3)
PR: 20 semester hours of accounting or CI. Measurement, interpretation, planning, and control or costs by means of predetermined standards and variance analysis. Use of accounting and statistical information in preparing budgets and controlling operations.

ACC 5631 CONTEMPORARY ISSUES IN AUDITING (3)
PR: ACC 4601. This course is designed to discuss and illustrate the professional pronouncements that govern the professional practice of Auditing practice and emerging issues related to the field of Auditing are considered.

ACC 5805 CONTEMPORARY ACCOUNTING THOUGHT (3)
PR: Intermediate Accounting II or equivalent. An in-depth coverage of selected topics in accounting. Emphasis is placed on current significant developments that have taken place in the profession which the student should have for a well-rounded background in accounting but have not been exposed to in previous courses. Available to majors and non-majors.

ACC 5866 NONPROFIT ORGANIZATION ACCOUNTING (3)

ACC 5935 SELECTED TOPICS IN ACCOUNTING (1-4)
PR: CI. To allow advanced undergraduate students and graduate students to research and study contemporary and emerging topics in the field. May be repeated up to 6 credit hours.

ACC 6412 MANAGEMENT ACCOUNTING AND CONTROL (3)
PR: GEB 6705. The relevancy and limitation of cost information in: (1) planning and controlling current operations; (2) special decisions and long-range planning; (3) inventory valuation and income determination. Not available for credit for graduate students in the Master of Accountancy program.

ACC 6511 FEDERAL TAX RESEARCH AND PLANNING (3)
PR: ACC 4501 or CI. A study of the development of tax law and its implication in business decisions. Tax planning and tax research are emphasized.

ACC 6745 SYSTEMS THEORY AND QUANTITATIVE APPLICATIONS (3)
PR: ACC 3730 or equivalent. The design and operation of contemporary accounting systems including the relevance of data processing and statistical methods to the system of financial information and control.

ACC 6811 DEVELOPMENT OF ACCOUNTING THOUGHT (3)
PR: 10 semester hours of accounting or CI. A study and evaluation of the development and evolution of current account theory and measurement concepts. The definition of accounting objectives and goals and the development of measurement models.

ACC 6905 INDEPENDENT STUDY (var.)
Independent Study in which student must have a contract with an instructor. Repeatable. (S/U only.)

ACC 6910 DIRECTED RESEARCH (var.)
PR: GR, Master's level. Repeatable. (S/U only.)

ACC 6930 SELECTED TOPICS IN ACCOUNTING (1-4)
PR: CC. The course content will depend on student demand and instructor's interest. May be repeated up to 6 hours.

COMMON BODY OF KNOWLEDGE

GRADUATE COURSES

GEB 6705 FINANCIAL ACCOUNTING FOR MANAGERS (3)
PR: Graduate standing. Study of (1) accounting concepts and standards applicable to presentation of financial information to interested users, (2) structure, uses and limitations of financial statements and (3) measurement systems pertinent to income determination and asset valuation. Discussion of internal and external influences on accounting decisions.

GEB 6716 MICROECONOMIC ANALYSIS (3)
PR: Graduate standing. Study of the theories of economic behavior in the market system and an appreciation of the role of economic organizations in achieving private and social goals. Topics covered: consumer behavior, demand analysis, factor markets, theories of production and cost.

GEB 6717 MACROECONOMIC ANALYSIS (3)
PR: GEB 6716. A study of the interaction of aggregate demand and supply in the determination of output, employment, prices, wages, and interest rates.

GEB 6725 FINANCIAL MANAGEMENT (3)
PR: GEB 6705 or its equivalent. The study of processes, the decision structures, and the institutional arrangements concerned with the utilization and acquisition of funds by a firm. The course will include the management of the asset structure and the liability structure of the firm both certain and risky situations and considering the problems of time and the decision makers preferences. The financial decision processes will include and recognize the international as well as domestic aspects and behavior of financial management.

GEB 6735 SOCIAL, LEGAL, AND POLITICAL ENVIRONMENT OF BUSINESS (3)
PR: 12 hours of MBA Foundation Courses. A study of the influence of social, cultural, legal, and political environment of institutional behavior, including the changing nature of the business system, the public policy process, corporate power, legitimacy and managerial autonomy, and organizational reactions to environmental forces.
ECONOMICS

Associate Professors: R. H. Burton, J. P. Cooke, E. J. Ford, E. A. Hanni,
R. J. Murphy, R. F. Shannon, G. C. Steinike; Assistant Professors:
G. Bennett, K. W. Davey, C. A. Green, M. G. Herander, R. L. Most, R.

UNDERGRADUATE COURSES

ECO 2013 ECONOMIC PRINCIPLES (MACROECONOMICS) (3)
PR: ECO 2023. Introduction to the theory of income determination with emphasis on applications of monetary and fiscal policies. Topics discussed are: objectives of full employment, price stability, economic growth, and balance of payments stability.

ECO 2023 ECONOMIC PRINCIPLES (MICROECONOMICS) (3)
Fundamental economic concept of scarcity, and the problem of choice. How an economy decides what to produce, how to produce and how to distribute goods and services to participants in the economy. Attention is focused on factors affecting consumer wants and on the determination of prices in markets.

ECO 3101 INTERMEDIATE PRICE THEORY (3)
PR: ECO 2023. Analysis of supply and demand as related to product and resource pricing under the various market structures.

ECO 3203 INTERMEDIATE INCOME & MONETARY ANALYSIS (3)
PR: ECO 2013 and ECO 3101. Analysis of the determination of income, employment, prices, and interest rates. Emphasis is placed on the interaction of aggregate demand and aggregate supply.

ECO 3622 AMERICAN ECONOMIC HISTORY (3)
PR: ECO 2023. The growth and evolution of American economic institutions from Colonial times to the present.

ECO 3703 INTERNATIONAL ECONOMICS (3)
PR: ECO 3103, ECO 2023. Role of international trade in the U.S. economy. Emphasis is placed on the bases of trade and the nature of gains from trade, balance of payments, exchange rate determination, equilibrating mechanisms for restoring balance of payments stability and international commercial policy.

ECO 4213 MONETARY THEORY (3)
PR: ECO 3203. Examination of the impact of the financial sector on real and nominal economic magnitudes. The course approaches its subject matter through the theory of portfolio and capital adjustments.

ECO 4264 THEORY OF ECONOMIC DYNAMICS (3)
PR: ECO 3203. Examination of macroeconomic processes as they occur through time. The determination and characteristics of long run growth paths based upon both Keynesian and Neoclassical models are discussed. Empirical studies, forecasting, and policy issues are also considered.

ECO 4303 HISTORY OF ECONOMIC THOUGHT (3)
PR: ECO 3101, or CI. The development of economic schools of thought, from Plato to Marshall, are traced and analyzed. The impact of historical and political conditions will be stressed.

ECO 4323 MARXIST POLITICAL ECONOMY (3)
PR: ECO 2013, or CI. An examination of the Marxist school of thought in economics. Application of Marxist economic theory to problems of advanced capitalist and socialist societies.

ECO 4401 INTRODUCTION TO MATHEMATICAL ECONOMICS (3)
PR: ECO 2013, and ECO 3101, MAC 2243 or CI. Economic processes expressed as equations and economic systems as mathematical models. Investigation of static and dynamics properties by mathematical analysis and computer simulation.

ECO 4402 SELECTED TOPICS IN QUANTITATIVE ECONOMICS (3)
PR: CI. Analysis of relevant problems of social policy by application of economic criteria and econometric method. Survey of contemporary research.

ECO 4504 PUBLIC FINANCE (3)

ECO 4723 INTERNATIONAL COMMERCIAL POLICIES (3)
PR: ECO 3101. Advanced analysis of international trade theory and commercial policy, international economic integration, and multinational enterprise.

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

ECO 4914 INDEPENDENT RESEARCH (1-3)
PR: CI. Individual original study with instructor and departmental chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 6 hours.

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

ECP 3003 BUSINESS GOVERNMENT RELATIONSHIPS (3)
PR: ECO 2023. Analysis of the three public policy approaches: competitive, regulatory, and ownership; in terms of ability to bring about economically desirable price-cost relationships, reductions in cost, invention and innovation and an optimal allocation of resources.

ECP 3203 LABOR ECONOMICS (3)
PR: ECO 3101 or CI. History of the trade union movement; economic analysis of trade union philosophies and practices; examination of basic influences affecting labor force, real wages, and employment; collective bargaining and labor law.

ECP 3433 ECONOMICS OF TRANSPORTATION (3)
PR: ECO 2013 and ECO 2023. Functions of transporting agencies, rate structure of transportation companies, problems of state and federal regulations and coordination of transportation facilities.

ECP 3613 ECONOMICS OF THE URBAN ENVIRONMENT (3)
PR: ECO 2013 and ECO 2023. Economic analysis of the phenomena of cities as well as urban social problems including poverty, discrimination, housing, transportation, pollution, crime and fiscal considerations.

ECP 4232 COLLECTIVE BARGAINING AND PUBLIC POLICY (3)
PR: ECO 2023 or CI. Administration of labor management agreements, etc. Impact of the government role in collective bargaining and labor relations will be examined in light of current labor laws and judicial interpretations.

ECS 3013 ECONOMIC DEVELOPMENT (3)
PR: ECO 2013 or CI. Problems, policies, and dynamics of economic development in emerging nations. Benefits and relevance of theories of economic development is examined within the context of the social and political milieu of today's underdeveloped areas.

ECS 4003 COMPARATIVE ECONOMIC SYSTEMS (3)
PR: ECO 3103 or CI. Comparative analysis of different and various types of economic systems: traditional, capitalism, democratic socialism, communism and fascism. The methodology of Max Weber will be stressed.
GRADUATE COURSES

ECO 5404 ECONOMIC PROGRAMMING AND CONTROL (3)

ECO 5424 ECONOMETRICS (3)
PR: ECO 3203 or GEB 6717 and GEB 3121 or GEB 6756, or CI. Theory and use of multiple regression to estimate relationships in causal models, to analyze economic behavior and to forecast the outcome of economic disturbances. Use of standard software packages. Estimation and interpretation of regression equations.

ECO 6115 MICROECONOMICS (3)
PR: ECO 3101 or GEB 6716. Advanced analysis of microeconomic behavior of consumers, producers and resource suppliers. Topics covered: general concept of scarcity, conceptual models of demand, production, cost, and the firm and market organization.

ECO 6206 MACROECONOMIC STATISTICS (3)
PR: ECO 3203 or GEB 6717. Advanced analysis of macroeconomic interrelationships determining the level of income, employment, prices, interest rates and economic growth rates as well as the impact of government policy upon these variables.

ECO 6216 MONETARY THEORY (3)
PRE: ECO 3205 or GEB 6717. Advanced discussion of the impact of the financial sector upon real and nominal economic magnitudes. The course emphasizes theoretical and empirical contributions found in the current literature as an extension of earlier work done in the field of monetary theory.

ECO 6305 HISTORY OF ECONOMIC THOUGHT (3)
PR: ECO 3101 or GEB 6716, or CI. Analysis of the main currents of modern economic thought during the last one hundred years.

ECO 6441 ADVANCED AGGREGATE ECONOMICS (3)

ECO 6455 APPLIED FORECASTING (3)

ECO 6456 ADVANCED BUSINESS FLUCTUATION & ECONOMIC FORECASTING (3)
PR: ECO 3203 or GEB 6717 and GEB 6756. Applications of statistical techniques to forecasting aggregate business activity, GNP and GNP components. Critical analysis of forecasting techniques and applications of forecasting methods to business decisions.

ECO 6506 PUBLIC FINANCE (3)
PR: ECO 3101 or GEB 6716. Examination of the role of the public sector and its contribution to economic welfare. Tax and expenditure policies are examined in relation to their effects on resource allocation and income distribution.

ECO 6507 SEMINAR IN PUBLIC FINANCE (3)
PR: ECO 6506. Contemporary public finance problems will be studied within a seminar format.

ECO 6706 INTERNATIONAL ECONOMICS (3)
PR: ECO 3203 or equivalent. International trade and monetary relations and their influence on macro and microeconomic activity. Policy issues in international economic relations are emphasized.

FIN 2100 PERSONAL FINANCE (3)
Survey of the problems and techniques of personal financial planning. Includes consumer credit, insurance, home ownership, and personal investing, with attention given to current economic and legal constraints. Not available for credit to upper level students who have been admitted to the College of Business Administration.

FIN 2105 INTRODUCTION TO INVESTMENTS (3)
Emphasizes the operations of the security markets in the U.S. and the risks and returns of alternative investment media. Designed for non-business administration students. Not available for credit to upper level students who have been admitted to the College of Business Administration.

FIN 3233 MONEY AND BANKING (3)
PR: ECO 2103. Examines the structure and operations of our monetary system, commercial banking, central banking, money, an capital markets, and provides an introduction to monetary theory and policy.
FIN 3403 PRINCIPLES OF FINANCE
PR: ACC 2201 and ECO 2023. Study of the processes, decisions structures, and institutional arrangements concerned with the use and acquisition of funds by a firm. Includes the management of the asset and liability structure of the firm under certain and risky situations. The financial decision process will include and recognize the international as well as domestic aspects of financial management.

FIN 3604 INTERNATIONAL FINANCE
PR: ECO 2013 or CI. Study of factors affecting international business, assessment of risks, international managerial finance; institutions and instruments of international business finance.

FIN 4303 FINANCIAL INSTITUTIONS
PR: FIN 3233. A study of financial institutions and their roles in the capital market includes the savings allocation, investment, and financial decision making processes.

FIN 4414 ADVANCED CORPORATION FINANCE
PR: FIN 3403. An examination of the financial policies of corporations, with special reference to dividend policy, financial structure, capital expenditures, acquisitions, mergers, and reorganization.

FIN 4443 FINANCIAL POLICIES AND STRATEGIES
PR: FIN 4414. A senior seminar for majors in Finance. Primarily a case course examining financial policies and the application of financial analysis to alternative strategies.

FIN 4504 PRINCIPLES OF INVESTMENTS
PR: ECO 2013 and FIN 3403. Survey of the risks and returns of investment media in relation to the investment objectives of individual and institutional investors. Includes an examination of the capital markets, information flows, and analytical techniques in terms of their impact upon the valuation process.

FIN 4524 ADVANCED INVESTMENT ANALYSIS AND MANAGEMENT
PR: FIN 4504. A comprehensive survey of security analysis and portfolio management. The course will utilize a quantitative approach to investment selection and management.

FIN 4834 FEDERAL RESERVE SYSTEM AND MONETARY POLICY
PR: FIN 3233 or CI. An analysis of the Federal Reserve System, with special emphasis on monetary theory and the formulation and administration of monetary policy.

FIN 4905 INDEPENDENT STUDY
PR: CI. Specialized independent study determined by the students' needs and interests. May be repeated up to six credit hours. (S/U only.)

FIN 4915 INDEPENDENT RESEARCH
PR: CI. Individual study contract with instructor and department chairperson. The research project will be mutually determined by the student and instructor. May be repeated up to 6 hours.

FIN 4934 SELECTED TOPICS IN FINANCE
PR: CI. Topics to be selected by instructor and department chairperson on pertinent Finance issues.

REE 3040 PRINCIPLES OF REAL ESTATE
Economics of urban land utilization and the nature of property rights. Problems of urban development and the valuation of real property in terms of the structure and operations of the real estate market.

REE 4100 REAL ESTATE APPRAISAL
Comprehensive coverage of the basic concepts and principles of real estate appraisal. Emphasis placed on the use of valuation tools for the appraisal of real estate with emphasis on residential property.

REE 4204 REAL ESTATE FINANCE
PR: REE 4310. A comprehensive analysis of the institutional and legal framework of real estate financing together with an introduction to the financing techniques which are traditionally utilized to finance real estate. Includes methods of raising debt and equity funds. Analysis of real property for financing purposes is stressed in a decision-making context and how that decision affects the real estate investment.

REE 4310 REAL ESTATE INVESTMENT ANALYSIS
PR: FIN 3403, REE 3040. A comprehensive study of the determinants of the market and financial feasibility of the real estate investment decision. The development of market and site analyses, theories or urban development patterns, and the role of taxation will be studied along with the application of analytical techniques for decision making. The course is not restricted to Finance majors.

RMI 3010 PRINCIPLES OF INSURANCE
Analysis of insurable risks of both business and individuals. An examination of the characteristics of those areas of risk and uncertainty where the mechanisms of insurance are effective alternatives. The con...

FIN 4110 LIFE, HEALTH, AND DISABILITY INSURANCE
PR: GEB 3121, RMI 3100. The course will analyze the use of life, health, and disability insurance contracts as a method of dealing with the risks of death, sickness, and disability. It will also include an analysis of cost determination of the various types of coverage.

RMI 4113 CASUALTY INSURANCE
PR: RMI 310. Course dealing with recognition of personal and business casualty risks and coverages which may be used in dealing with these risks. Considers the underwriting, marketing, and social problems associated with these coverages. Topics include workmen's compensation, public liability, auto liability, suretyship and crime insurances. Not limited to Finance majors.

RMI 4210 PROPERTY INSURANCE
PR: RMI 310. Course dealing with recognition of personal and business property risks, and coverages which may be used in dealing with these risks. Considers the underwriting, marketing, and social problems associated with these coverages. Topics include commercial and residential fire insurance, inland marine and transportation coverages, and multi peril contracts. Not limited to Finance majors.

GRADUATE COURSES

FIN 6246 ADVANCED MONEY AND CAPITAL MARKETS
PR: Macroeconomic Analysis or equivalent. The study of the role of financial markets in the economy. The course will investigate and analyze the effects and relationship between financial theory, financial institutions, and financial markets and their interactions and impacts on the economy. It includes the study of flow of funds, interest rate determination, and the pricing of capital assets.

FIN 6375 FINANCIAL PLANNING FOR HEALTH ORGANIZATIONS
PR: Financial/Managerial Accounting. An examination of tools and techniques of financial management in the administration of Health Care Organizations. Cannot be taken for credit by students who have taken GEB 6725.

FIN 6446 FINANCIAL POLICY
PR: GEB 6725 or CI. A case study approach to financial policy and strategy with an emphasis on major financial decisions in the area of external financing, mergers, acquisitions, recapitalization, and reorganization.

FIN 6605 INTERNATIONAL FINANCIAL MANAGEMENT
PR: Financial Management or equivalent. The course provides a foundation for the understanding and appreciation of financial management of international business. The subject areas covered relate to: international finance, multinational business finance, and financial market theory.

FIN 6718 GOVERNMENTAL FINANCIAL PLANNING AND BUDGETING
PR: Basic understanding of accounting and CI. A thorough investigation of planning, budgeting, and control for government, including: Budgeting procedures and methods for services and capital improvements (e.g., zero base budgeting); estimating local revenues and expenditures; methods of financing capital facilities, debt financing and administration; measures of efficiency and effectiveness; and management of cash.

FIN 6804 THEORY OF FINANCE
PR: Financial Management or CI. A systematic and rigorous course in the theory of finance. Topics will include the theory of choice and the allocation of financial resources, the theory of optimal investment decisions, and the theory of risk and uncertainty in financial decisions. It will also cover the theoretical concepts underlying financing decisions and the cost of capital.

FIN 6816 INVESTMENTS
PR: Financial Management. An examination of the risks and returns of alternative investment media within the framework of various valuation models. Special attention is given to the investment process and the criteria for investment decisions.

FIN 6906 INDEPENDENT STUDY
(var.) Independent study in which students must have a contract with an instructor. Repeatable. (S/U only.)

FIN 6915 DIRECTED RESEARCH
(var.)
GENERAL BUSINESS ADMINISTRATION

UNDERGRADUATE COURSES

BUL 2111 LAW AND THE INDIVIDUAL (3)
A study of the nature, functions, sources, formulation, and administration of law with the special emphasis on the practical aspects of criminal, tort, estate, divorce, property, business, constitutional, and other areas of law. Not available for credit to students who have been admitted to the College of Business. (No credit for students with credit in BUL 3112.)

BUL 3112 BUSINESS LAW I (3)
The nature of legal institutions, essentials of binding contract, remedies granted in event of breach of contract, and rights acquire by assignment of contracts.

BUL 3122 BUSINESS LAW II (3)
PR: BUL 3112. Legal problems in marketing of goods, nature of property, sales of personal property, securing of credit granted, nature and use of negotiable instruments.

BUL 3569 THE LAWS OF BUSINESS ASSOCIATIONS (3)
PR: BUL 3112. A study of the law of corporations, the law of partnerships, and the law of agency.

COC 2201 COMPUTERS IN BUSINESS (3)
A study of the use and impact of computers in all areas of business organizations. Course includes hands-on experience and the use of software packages for business analysis.

GEB 3211 BUSINESS COMMUNICATIONS (3)
Analysis and application of the principles of organizational behavior in letters, memorandums, and reports. Course is structured around a model which manifests the effective communications process.

GEB 3512 INFORMATION SYSTEMS: ANALYSIS AND DESIGN (3)
PR: CI. An advanced interdisciplinary examination of the impact of information systems on the business enterprise. Concepts of business systems analysis, information theory, transaction editing, file design, and update systems are developed.

GEB 4511 BUSINESS POLICY (3)
PR: Senior standing. The course is intended to provide a unifying, integrating, and coordinating opportunity to tie together concepts, principles, and skills learned separately in other, more specialized courses in Business Administration.

GEB 4901 INDEPENDENT STUDY (1-3)
PR: CI. Specialized independent study determined by the student’s needs and interests. May be repeated up to eight credit hours. (S/U only.)

GEB 4911 INDEPENDENT RESEARCH (1-4)
PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 8 hours.

GEB 4935 SELECTED TOPICS IN BUSINESS ADMINISTRATION (1-4)
The content and organization of this course will vary according to the current interests of the faculty and needs of students.

GRADUATE COURSES

BUL 5665 LAW AND THE ACCOUNTANT (3)
PR: BUL 3112 or CI. A comprehensive study of commercial law as it affects the practice of accounting.

GEB 6905 INDEPENDENT STUDY (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

GEB 6915 DIRECTED RESEARCH (var.)
PR: GR. Master’s level. Repeatable. (S/U only.)

GEB 6971 THESIS: MASTER’S (var.)
Repeatable. (S/U only.)

MAN 5806 ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT COUNSELING (3)
Small business management consulting to an on-going firm or development of a business plan for a new enterprise. Emphasis on developing consulting skills and recognizing implications of entrepreneurs capabilities and attitudes for success.

MAN 5925 CBA WORKSHOP (1-4)
Professional application workshop in various areas of finance, marketing, economics, accounting, management. May be repeated when subjects differ.

MAN 6721 INTEGRATIVE SEMINAR (3)
PR: CC. The course is intended to provide a unifying, integrating, and coordinating opportunity to tie together concepts, principles, and skills learned separately in order, more specialized courses in Business Administration.

MANAGEMENT


UNDERGRADUATE COURSES

MAN 3010 PRINCIPLES OF MANAGEMENT (3)
Study of the fundamentals of management. It treats topics in organizational theory, organizational behavior, and interpersonal relations which are relevant to effective management performance.

MAN 3150 ORGANIZATIONAL BEHAVIOR ANALYSIS (3)
PR: MAN 3010. The course covers research literature relevant to organizational functioning including behavioral effects of power and authority, formal organization, structural variation, leadership, motivation, and communication.

MAN 3301 PERSONAL MANAGEMENT (3)
To develop a broad exposure to new approaches, techniques, and future trends in the management of personnel. A study of the major functions in personnel including job analysis, manpower planning, selection, performance evaluation, training, and wage and salary administration.

MAN 3401 INDUSTRIAL RELATIONS (3)
A conceptualization of the administrative problems arising from unionization. Emphasis on the relationship between management and employee representatives in private and public employment. Required course for Management majors.

MAN 3810 INTRODUCTION TO MANAGEMENT SCIENCE (3)
A survey of management science techniques and their application to problem solving and decision making. Competency in college algebra is necessary. Required course for all business majors.

MAN 4120 MANAGERIAL BEHAVIORAL LABORATORY (3)
PR: MAN 3150 or equivalent. Development of direct understanding of personal, interpersonal, and intergroup factors present in organizational interaction. Stress is on a series of experiential exercises and written application of results within a laboratory setting.

MAN 4201 ORGANIZATIONAL ASSESSMENT (3)
PR: MAN 3150. The analysis and measurement of factors which influence organizational effectiveness and the quality of work life. Data based cases will be used by students to assess managerial and supervisory skills and to measure organizational functioning and work design.

MAN 4410 ORGANIZATIONAL DEVELOPMENT AND CHANGE (3)
PR: MAN 3150 or CI. This course should be taken simultaneously with or after MAN 4201. A lab course where students experimentally apply behavioral science techniques in an “action-research” framework to the cycle of planned change so as to build a more effective organization.

MAN 4410 LABOR RELATIONS LAW (3)
A survey of the various legal constraints applicable to labor-management relations. Includes substantial library research. Assumes familiarity with industrial relations system.
MAN 4430 SEMINAR IN NEGOTIATIONS AND ADMINISTRATION OF LABOR AGREEMENTS (3)
Case studies in contract negotiation, administration, grievance settlement, and arbitration. Assumes familiarity with industrial relations system.

MAN 4504 OPERATIONS MANAGEMENT: A SYSTEMS APPROACH (3)
PR: MAN 3810 or equivalent. Deals with problems of “operations” in all kinds of enterprises in both the public and private sectors. Emphasis is placed on the application of various decision science methodologies to problem situation.

MAN 4802 ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT (3)
PR: ACC 2001, ACC 2021, MAR 3023, or Cl. Study of the factors involved in starting and managing a small to medium-sized business. Emphasis on conduct of pre-business feasibility study, start-up of business, successful management of the firm, and options for succession or termination.

MAN 4804 SMALL BUSINESS MANAGEMENT COUNSELING (3)
PR: MAN 4802 or Cl. Field application in small business settings by (a) analyzing an on-going small business and developing recommendations for making improvements; or (b) conducting a feasibility study for a new enterprise and developing a strategy for implementation if favorable.

MAN 4930 SELECTED TOPICS IN MANAGEMENT (1-3)
PR: Cl. Topics to be selected by instructor and department chairperson for pertinent Management issues.

MAN 4931 INDEPENDENT STUDY (1-3)
PR: Cl. Specialized independent study determined by the students needs and interests. May be repeated up to 8 credit hours. (S/U only.)

QMB 4600 QUANTITATIVE APPROACH FOR BUSINESS DECISIONS (3)
PR: MAN 3810. The use of systematic approaches and management science tools for decision making and problem solving in an organizational setting. Emphasis is on quantitative approaches for problem identification, analysis, choice and implementation.

QMB 4703 SIMULATION AND MODELING TECHNIQUES (3)
PR: MAN 3810 or Cl. A study of manual and computer simulation techniques and their application to problem solving in management (behavioral and quantitative). Knowledge of a computer language and the basic tools and techniques of management science is advised.

GRADUATE COURSES

MAN 5714 URBAN MANAGEMENT (3)
The applicability of business management theories and practices to problem solving in the public sector. A formal theory of organization is used to compare and contrast private and public sector decision environments.

MAN 6055 HUMAN RESOURCE MANAGEMENT (3)
Course focuses on the complex decision-making processes involved in the management of human resources within an organizational system geared to meeting both individual needs and organizational objectives.

MAN 6061 ORGANIZATIONAL THEORY AND MEASUREMENT (3)
PR: GEB 6836 or Cl. The identification and measurement of variables which influence the effectiveness of public and private organization including the assessment of managerial skills, organizational behavior, control systems, and work design.

MAN 6107 MANAGERIAL BEHAVIOR (3)
PR: GEB 6836 or Cl. A laboratory approach to the understanding of patterns of interpersonal and inter-group behavior which are significant for the managerial role. Topics include perception, motivation, leadership styles, decision making, conflict and competition.

MAN 6135 MANAGEMENT OF COMMUNICATION (3)
Communication as management is the focus of this course. Examined are the process, nature, and variables which comprise organizational communications.

MAN 6157 MANAGEMENT OF PROFESSIONALS (3)
PR: GEB 6836 or Cl. Organizational behavior of professional employees is investigated through available theories and concepts. Concentration is placed on the manager’s role, especially that of matching organizational demands with individual talents and expectations.

MAN 6219 THE MANAGEMENT OF ORGANIZATIONAL DEVELOPMENT AND CHANGE (3)
PR: GEB 6836 or Cl. This course should be taken simultaneously with or following MAN 6061. A combination laboratory-field course requiring the integration of behavioral science theories, tools, concepts, and techniques learned in the lab to an OB application in a “real” organization.

MAN 6405 LABOR RELATIONS LAW (3)
A survey of the various legal constraints applicable to the employer-employee relationship. Included are such areas as collective bargaining, civil rights, and fair labor standards. Also offered under Economics.

MAN 6409 COLLECTIVE BARGAINING (3)
An examination of the historical, legal, and behavioral aspects of collective bargaining. Not open to students who have had a previous course in Industrial Relations.

MAN 6599 QUANTITATIVE APPLICATIONS FOR MANAGEMENT DECISIONS (3)
PR: GEB 6756 and GEB 6757. The integration of quantitative approaches and management science tools into the decision making process at various organizational levels and in various organizational settings involved in the production and dissemination of goods and services.

MAN 6601 INTERNATIONAL MANAGEMENT (3)
PR: GEB 6846 or Cl. A study of the characteristics of the international and multinational company, environmental constraints, personnel and labor relations factors, and strategic planning and policies.

MAN 6851 SIMULATION OF ADMINISTRATIVE SYSTEMS (3)
PR: GEB 6757. A study of manual and computer simulation techniques and their application to administrative problem solving. The course emphasizes model design and construction; data collection and analysis; model validation; and implementation problems.

MAN 6905 INDEPENDENT STUDY (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

MAN 6911 DIRECTED RESEARCH (var.)
PR: Graduate, Master’s level. Repeatable. (S/U only.)

MAN 6930 SELECTED TOPICS (3)
Prerequisite to be determined under general guidance of faculty member on some facet of management not offered in a regular course, or with regularly scheduled graduate courses for more in-depth study.

MAN 6971 THESIS: MASTER’S (var.)
Repeatable. (S/U only.)

MARKETING

UNDERGRADUATE COURSES

MAR 3023 BASIC MARKETING (3)
PR: ACC 2001, ECO 2013, ECO 2023, or Cl. Survey of the marketing of goods and services within the economy. The integration of functional, commodity, and institutional approaches from the consumer and managerial viewpoints.

MAR 3613 MARKETING RESEARCH (3)
PR: GEB 3121, MAR 3023. A study of research methods and techniques applicable to problem solving in marketing. Attention is also given to defining information needs, determining the value of information, interpreting and reporting information for use in marketing decision making.

MAR 3722 MARKETING MANAGEMENT (3)
PR: MAR 3023. An applications oriented study of the marketing function at an intermediate level. Emphasis upon techniques for
analysis and problem-solving. This course builds upon the principles and concepts learned in MAR 3023, and provides a strong foundation for the remaining courses in the marketing curriculum.

MAR 4153 RETAILING MANAGEMENT (3) PR: MAR 3023. A comprehensive study of the retailing structure, institutions, and environment. Includes pertinent management theories and practices in analyzing, organizing, planning and controlling retail operations, both large and small.

MAR 4203 CHANNELS MANAGEMENT (3) PR: MAR 3722. A detailed study of marketing channels as a functional area of marketing management responsibility and as a part of marketing strategy. Attention is given to wholesaling and retailing and their structural, dynamic interrelationships including distribution logistics.

MAR 4213 LOGISTICS AND PHYSICAL DISTRIBUTION MANAGEMENT (3) PR: MAR 3722, MAN 3810, GEB 3121. A study of logistics in the marketing of goods and services. Includes a description and analysis of the logistics environment as well as components of the physical distribution system with emphasis on information flows and the application of quantitative techniques used in establishing and controlling customer service levels.

MAR 4243 INTERNATIONAL MARKETING (3) PR: MAR 3722. A study of the procedures and problems associated with establishing marketing operations in foreign countries. Includes the institutions, principles, and techniques involved in the solution of these business problems as well as the effects of national differences on business practices and buyer behavior.

MAR 4343 PROMOTION MANAGEMENT (3) PR: MAR 3722 or CI. A study of the role of promotion in the marketing program of the firm, including the promotional tools available to the firm, and the various types of decisions made in the promotional area. The decision-making process in development of a promotional program is emphasized.

MAR 4403 SALES MANAGEMENT (3) PR: MAR 3722 or CI. A study of sales management and strategy as a subset of marketing management. Emphasis is placed on developing the problem-solving and decision-making skills required of the sales manager in the modern market-oriented company.

MAR 4453 INDUSTRIAL MARKETING (3) PR: MAR 3722. A study of the marketing of goods and services to the industrial and institutional sectors. Includes characteristics of the markets and channels of distribution sales, management, research and promotional practices, marketing policies and strategies.

MAR 4503 BUYER BEHAVIOR (3) PR: MAR 3613, MAR 3722. A study of the basic concepts and research methods necessary in investigating pre- and post-purchase buyer behavioral patterns, with emphasis on the impact of various behavioral factors on a buyer's decision-making process. Includes managerial applications in a variety of marketing situations.

MAR 4713 MARKETING MANAGEMENT PROBLEMS (3) PR: MAR 3722, MAR 3613 and two other 4000 level marketing courses or CI. The integration of marketing knowledge applied to decision roles in managing the total marketing effort of firms, and coordination with other major functional areas on specific problems.

MAR 4903 INDEPENDENT RESEARCH (1-3) PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 6 credit hours.

MAR 4905 INDEPENDENT STUDY (1-3) PR: CI. Specialized independent study determined by the students' needs and interests. May be repeated up to 6 credit hours. (S/U only.)

MAR 4933 SELECTED TOPICS IN MARKETING (1-3) PR: CI. Topics to be selected by instructor and department chairperson.

GRADUATE COURSES

MAR 6216 LOGISTICS AND PHYSICAL DISTRIBUTION MANAGEMENT (3) PR: GEB 6745, GEB 6756, GEB 6757, or CI. A study of managerial methods focusing on the establishment and control of optimum customer service levels in the areas of inventory, transportation, fixed facility location, material handling, and information. Component parts of each system are analyzed quantitatively. Reading, lecture, case analysis.

MAR 6346 PROMOTIONAL MANAGEMENT (3) PR: GEB 6745. Management of the promotional function as part of the total marketing program. Includes a study of relevant buyer behavior concepts, resources and budgets, media, creative aspects, and effectiveness measurements as they relate to the management tasks of developing, implementing and evaluating promotional strategy.

MAR 6406 SALES MANAGEMENT (3) PR: GEB 6745. A study of the sales function of the firm approached from the perspective of the sales manager. Emphasis is placed upon the development of the student's problem-solving, decision-making, and analytical skills.

MAR 6616 RESEARCH FOR MARKETING MANAGERS (3) PR: GEB 6745, GEB 6756, GEB 6775. A study of marketing research methods and information systems and their relationship to marketing decision making. Topics include value and cost of information, sample design, questionnaire design, statistical analysis, and report presentation. Lecture, reading, case analysis, project.

MAR 6706 MARKETING STRATEGY (3) PR: GEB 6745. A study of the strategic marketing planning and problem-solving process as practiced by the modern market-oriented firm. The course is designed to develop marketing problem-solving, decision-making, and planning skills through the extensive use of case analysis.

MAR 6907 INDEPENDENT STUDY (var.) Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

MAR 6916 DIRECTED RESEARCH (var.) PR: GR. Master's level. Repeatable. (S/U only.)

MAR 6936 SELECTED TOPICS IN MARKETING (1-4) PR: CC. The content and organization of this course will vary according to the interests of the faculty and students involved in any given term. May be repeated when subjects differ.

ADULT AND VOCATIONAL EDUCATION


ART EDUCATION

Chairperson: P. V. Czyzewski; Professor: R. L. Loveless; Associate Professors: H. C. Bryant, P. V. Czyzewski, J. B. Kase, B. J. Kazanis, A. Unruh

CHILDHOOD/LANGUAGE ARTS EDUCATION


COUNSELOR EDUCATION

Chairperson: V. J. Drapela; Professors: W. K. Bott, V. J. Drapela, D. G. Ferguson, E. E. Panther; Associate Professor: C. M. Story
EDUCATIONAL LEADERSHIP


EDUCATIONAL MEASUREMENT AND RESEARCH

Chairperson: J. L. Mazur; Professors: B. W. Hall, W. G. Katzenmeyer, J. L. Mazur, J. H. Robinson, D. E. Stone, R. Wilk; Associate Professor: E. Caldwell, R. C. Blair, G. Hutchcraft; Visiting Assistant Professor: L. Carey

ELECTIVE PHYSICAL EDUCATION

Chairperson: R. Heeschen; Professors: R. Heeschen, G. Hertz; Associate Professors: R. Grindey, S. Prather, S. Taylor, J. Young; Assistant Professor: J. Trice

EXCEPTIONAL CHILD EDUCATION


LIBRARY, MEDIA, AND INFORMATION STUDIES

Chairperson: J. A. McCrossan; Professor: A. G. Smith, C. W. Engel; Associate Professors: J. K. Gates, J. M. Knego, J. A. McCrossan, F. C. Pfister, T. C. Wilson; Assistant Professors: G. R. Barkholz, L. G. Chrisman, M. S. Lary

MATHEMATICS, SCIENCE AND HEALTH EDUCATION


MUSIC EDUCATION

Chairperson: L. Cullison; Professors: V. A. Bridges, L. Cullison

PROFESSIONAL PHYSICAL EDUCATION

Chairperson: L. E. Bowers; Professors: L. E. Bowers, H. A. Hoffman, S. E. Klesius, C. D. Smith; Associate Professors: B. L. Beasley, H. Weinberg; Assistant Professors: S. J. Bratt, W. D. Hall, J. F. Young; Visiting Instructor: W. T. Price

PSYCHOLOGICAL AND SOCIAL FOUNDATIONS


READING EDUCATION

Coordinator: E. F. Searls; Professors: A. J. Lowe, D. D. Neville; Associate Professors: F. W. Freshour, H. P. Pfost, E. F. Searls, G. M. Towery; Assistant Professors: B. K. Clarke, J. P. Klesius; Visiting Assistant Professor: S. P. Homan

SOCIAL SCIENCE/LETTERS


ADMINISTRATION/SUPERVISION

GRADUATE COURSES

EDA 6061 PRINCIPLES OF EDUCATIONAL ADMINISTRATION (4)
Educational administration as a profession. Consideration of organization, control, and support of the educational system.

EDA 6106 ADMINISTRATION ANALYSIS AND CHANGE (4)
A competency based course on the application of function analysis, the Critical Incident technique and the Delphi technique to the identification, assignment, and evaluation of administrative tasks within selected organizational settings.

EDA 6232 SCHOOL LAW (4)
Basic essentials of school law. A review of court decisions affecting American education, with emphasis on Florida State Statutes.

EDA 6242 SCHOOL FINANCE (4)
PR: EDA 6061 or CI. Financial support of public education by local, state, federal sources, with emphasis on Florida; introduction to educational budgeting.

EDA 6243 SCHOOL FISCAL RESOURCE ALLOCATION (3)
PR: CI. Concepts and practices in allocation and accountability of financial resources in the schools. The use of systems concepts in school budgeting, including prioritizing of alternatives, PPBS and zero-based budget techniques, school-based management allocation models. Also available in workshop version. Available to majors and non-majors.

EDA 6262 PLANNING EDUCATIONAL FACILITIES (4)
PR: CI. Problems in the planning, construction, and use of educational facilities. Visitation and/or evaluation of selected schools.

EDA 6910 DIRECTED RESEARCH (var.)
PR: GR. Master's level. Repeatable. (S/U only.)

EDA 6931 CASE STUDIES IN SCHOOL ADMINISTRATION (4)
PR: CI or EDA 6061. Case studies to help prospective administrators understand administrative problems, propose feasible solutions, and evaluate courses of action. The course develops skill in decision making.

EDA 6945 ADMINISTRATION PRACTICUM (3-8)
PR: Completion of a significant amount of the student's program. Field experiences in school systems for the purpose of identifying and analyzing educational problems. Application of concepts developed in the student's program to the solution of these problems.

EDA 7222 ADMINISTRATION OF SCHOOL PERSONNEL POLICIES AND PRACTICES (4)
PR: Certification in Administration/Supervision and/or CI. Administration of school personnel policies and practices relating to professional staff, supporting staff, and students.

EDA 7233 LEGAL DIMENSIONS OF SCHOOL ADMINISTRATION (4)
PR: CI, EDA 6232 School Law or equivalent recent course. Historical perspective in law and education with in-depth reviews of case law showing the evolution of courts as educational policy makers.

EDA 7247 ADVANCED SCHOOL FINANCE (4)
PR: EDA 6242 or CI. Advanced treatment of school finance. Development, implementation, and evaluation of financial resource and allocation systems. Emphasis is on intradistrict allocation.
ADULT EDUCATION

UNDERGRADUATE COURSES

ADE 4360 METHODS OF TEACHING: ADULT EDUCATION
Methods, techniques, and materials for instruction. (3)

ADE 4361 SPECIAL TEACHING METHODS: ADULT EDUCATION
Methods, techniques, and materials for skill development. (4)

ADE 4945 SUPERVISED FIELD EXPERIENCE: ADULT EDUCATION
PR: CI. Planned supervised functions in the area of specialization and coordinated with selected schools, government, offices, social agencies, businesses and industries on site. (1-6)

GRADUATE COURSES

ADE 5160 PROGRAM MANAGEMENT: ADULT EDUCATION
This course examines the establishment of organizational climate and structure, assessing needs and interest, designing, operating and evaluating comprehensive adult programs. (4)

ADE 5161 CURRICULUM CONSTRUCTION: ADULT EDUCATION
Curriculum scope, the process of planning and organizing instructional programs with emphasis on task analysis and process evaluation. (4)

ADE 5385 THE ADULT LEARNER
The physiological and psychological changes in the adult life span and the implications which these changes have for adult learning capabilities. Significant research in adult learning are identified and analyzed. Course is available to majors and non-majors. (4)

ADE 6080 ADULT EDUCATION IN THE UNITED STATES
PRL: ADE 5385 or equivalent or CI. A study of the adult education movement in the United States from its beginnings to the present. Economic and cultural factors of the past are examined with a view toward implications for the future. (4)

ADE 6197 ADULT BASIC EDUCATION: ADULT EDUCATION
An overview of adult basic education with emphasis on current issues and problems of curriculum and instruction in program development with emphasis on culturally different adults. (4)

ADE 6380 ADMINISTRATION OF LOCAL PROGRAMS: ADULT EDUCATION
A study of the organization, selection of personnel, assignment of duties and responsibilities, and establishment of policies and procedures to accomplish the objectives of the local program within the federal, state, and local requirements. (4)

ADE 6387 SUPERVISION OF LOCAL PROGRAMS: ADULT EDUCATION
A study of the factors involved in the supervision of instruction including plans for teacher education, improvement of instruction, coordination of activities, and personnel relations. (4)

ADE 6946 PRACTICUM: ADULT EDUCATION
A problem-centered field study in the local community, school, government, office, social agency, business or industry. (3-6)

ART EDUCATION

UNDERGRADUATE COURSES

ARE 3044 EXPERIENTIAL BASIS OF ARTISTIC MIND
PR: Admission to College of Education. Designed to help the individual student discover and develop meanings and values in art and education with emphasis on communicative skills, both verbal and visual. Focus will be on the individual and potential alternatives in the teaching of art. (3)

ARE 3354 ART TEACHING STRATEGIES I
PR: Admission to College of Education and ARE 3044. A combination of theory, philosophy and practice in both public and private learning centers to provide the student with a variety of teaching concepts and media exploration in art education and to further enable the student to understand stages of young people, three to eighteen. (3)

ARE 4112 EDUCATION THROUGH CRAFTS
An in-depth study of arts and media media for children. Emphasis will be placed on innovative use of new materials. (3)

ARE 4260 SEMINAR IN ART EDUCATION CLASSROOM MANAGEMENT
A study of basic experimental film techniques and laboratory experiences with children in the public schools, community centers, and non-school arts programs. (1)

ARE 4448 ART TEACHING STRATEGIES II
Media and the learning process will be explored through photographic arts, cinematography and video systems. Teaching strategies and media criticism for application at elementary and secondary levels. (3)

ARE 4443 CRAFTS WORKSHOP IN ART EDUCATION
PR: Admission to College of Education and ARE 3044. The study of processes and media involved in the expression of individual ideas through crafts. Emphasis placed on crafts in a contemporary society with skills in metals, weaving, fibers, and ceramics and their application in a public school curriculum. (3)

ARE 4642 URBAN ENVIRONMENT ARTS WORKSHOP
PR: Admission to College of Education and ARE 3044. Indentification, exploration, and experimentation with unique urban spaces and populations as potential new environments for teaching and learning in arts. (3)

ARE 4905 INDEPENDENT STUDY: ART EDUCATION
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.) (1-4)

ARE 4909 DIRECTED STUDY: ART EDUCATION
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class. (1-3)

ARE 4936 SENIOR SEMINAR IN ART EDUCATION
PR: Senior standing. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship. (2)

ARE 4940 INTERNSHIP: ART EDUCATION
One full semester of internship in a public or private school. Intern takes Senior Seminar in Education concurrently. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 semester hours. (S/U only.) (1-12)

ARE 4945 INTERNSHIP
Part-time internship in an accredited public or private school. To be
taken concurrently with departmental requirements and will include beginning of year experiences when taken in Fall Semester. S/U only.

**ARE 4946 INTERNSHIP** (1-2)
PR: Admission to the College of Education and/or department approval. Internship with an accredited public or private school which will include the end of an academic year or program closing. S/U only.

**EDG 4451 EDUCATION THROUGH DRAMA** (3)
A study of the dramatic process as intrinsic in human development, this course is designed to enrich the education of pre-service teachers by providing training in the use of creative drama and related forms of improvised drama in the classroom.

**EDG 4452 THEATRE FOR PRE-SECONDARY SCHOOLS:**
**THE PERFORMANCE PROCESS** (3)
The artistic process of performing for various school audiences and practice conducting classroom workshops following each performance. May be repeated for elective credit two times; once for major credit.

**EDG 4454 METHODS OF TEACHING THEATRE FOR ADOLESCENTS** (3)
Methods of effective drama and theatre instruction in middle school, junior and senior high schools, recreation centers, community and professional theatres.

**GRADUATE COURSES**

**ARE 6262 MANAGEMENT DESIGN FOR ART INSTITUTIONS** (3)
Principles of administration and supervision of art programs in the school.

**ARE 6706 BASIS OF INQUIRY IN THE ARTS** (3)
PR: ARE 6844 or CI. Literature and research in art education. Various approaches to problem solving and evaluation with emphasis on individual research.

**ARE 6844 EXPERIENTIAL AND THEORETICAL BASIS OF ARTISTIC MIND** (3)
Past and contemporary philosophies and practices in art education.

**ARE 6944 FIELD WORK IN ART EDUCATION** (1-4)
For students with degree-seeking status. Supervised participation in activities related to art education in community centers, nonschool arts program, planned workshop and research.

**EDG 6455 EDUCATION THROUGH ADVANCED DRAMA** (3)
Theories and methods of teaching creative drama and related forms of improvised drama and playmaking with supervised teaching of creative dramatics in a school environment.

**BUSINESS AND OFFICE EDUCATION UNDERGRADUATE COURSES**

**BTE 2060 BASIC TYPEWRITING** (3)
Basic keyboarding introduced during the first two weeks. Thereafter, the psychological principles of skill building and basic keyboarding applications are emphasized.

**BTE 3031 OFFICE INFORMATION PROCESSING** (3)
PR: BTE 2060 or equivalent competencies. Application of concepts and technology of information processing to office operations. Review of the grammar, punctuation, and transcription skills needed for editing in word processing operations. Available to majors and non-majors.

**BTE 3032 OFFICE INFORMATION PROCESSING II** (3)
PR: BTE 3031. Programming word and information processing equipment; special applications of word and information processing functions to solve field-based problems. Available to majors; or others only with CI.

**BTE 3061 TYPEWRITING APPLICATIONS** (3)
PR: BTE 2060 or equivalent competencies. Advanced keyboard applications; study of the methods and psychological principles appropriate to the teaching of advanced typewriting courses.

**BTE 3363 BUSINESS AND OFFICE MACHINES** (3)
PR: Basic Typewriting. Instruction and practice on selected business and office machines to acquaint students with capabilities and limitations of the machines.

**BTE 3365 ADMINISTRATIVE OFFICE MANAGEMENT** (3)
Functions of the business office to include systems and procedures, communications, records management, office employee behavior, controlling the work of the office, and principles of office organization. Also includes the methodology necessary for teaching these areas in either separate courses or integrated block programs.

**BTE 4063 PRINCIPLES OF SHORTHAND** (4)
PR: Completion of upper level competency test or CI. Relation of techniques for teaching basic principles of response and temporal contiguity as related to basic shorthand theory. Includes concurrent lab.

**BTE 4064 INTERMEDIATE SHORTHAND** (3)
PR: BTE 4063 or equivalent competency to include teaching strategies for theory sequencing. Advanced course in theoretical applications with readings or techniques for development of speed, kinesthetic chained response, and specialized pre-transcription techniques. Includes concurrent lab.

**BTE 4151 SHORTHAND DICTATION & TRANSCRIPTION** (3)
PR: BTE 4064 or equivalent competency levels. Comparative symbol shorthand systems and teaching methodology in developing advanced dictation and transcription skills within a selected symbol system. Emphasis on teaching shorthand as a language tool, development of decision making skills, and factors which affect production rate. Includes concurrent lab.

**BTE 4350 METHODS OF TEACHING: BUSINESS EDUCATION** (4)
PR: Introduction to Computers I or equivalent. Satisfactory competencies in Office Administration Concentration, or CI. Methods, techniques and materials for instruction.

**BTE 4364 SPECIAL TEACHING METHODS: BUSINESS EDUCATION** (4)
PR: Speech Improvement and Phonetics, satisfactory competencies in Office Technology Concentration, or CI. Methods, techniques, and materials for skill development.

**BTE 4369 OFFICE OCCUPATIONS PROCEEDURES** (3)
PR: BTE 4063 or equivalent competency levels. Comparative symbol shorthand systems and teaching methodology in developing advanced dictation and transcription skills within a selected symbol system. Emphasis on teaching shorthand as a language tool, development of decision making skills, and factors which affect production rate. Includes concurrent lab.

**BTE 4905 INDEPENDENT STUDY: BUSINESS EDUCATION** (1-4)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

**BTE 4906 DIRECTED STUDY: BUSINESS EDUCATION** (1-3)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

**BTE 4936 SENIOR SEMINAR IN BUSINESS AND OFFICE EDUCATION** (2)

**BTE 4940 INTERNSHIP: BUSINESS EDUCATION** (1-12)
One full semester of internship in a public or private school. Intern takes Senior Seminar in Business Education concurrently. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 semester hours. (S/U only.)

**BTE 4945 SUPERVISED FIELD EXPERIENCE: BUSINESS EDUCATION** (1-6)
PR: CI. Planned supervised functions in the area of specialization and co-ordinated with selected schools, government, offices, social agencies, businesses and industries on site.

**BTE 4946 INTERNSHIP** (1-2)
PR: Admission to College of Education and/or departmental approval. Internship in an accredited public or private school which will include the end of an academic year or program closing. (S/U only.)

**BTE 4948 FIELD-BASED SEMINAR IN BUSINESS EDUCATION** (3)
CR: BTE 4360 and BTE 4364. Supervised field experience and orientation to broad field business education. Specifically designed to be preparatory for the internship which occurs the following term. (S/U only.)
GRADUATE COURSES

BTE 5171 CURRICULUM CONSTRUCTION: BUSINESS EDUCATION (3)
Curriculum scope, the process of planning and organizing instructional programs with emphasis in task analysis and process evaluation.

BTE 5245 PROGRAM MANAGEMENT: BUSINESS EDUCATION (3)
Organization, coordination, and budgeting of adult, cooperative, and special programs.

BTE 6385 IMPROVEMENT OF METHODS OF TYPEWRITING INSTRUCTION (3)
PR: EDF 6431, EDF 6481 or CI. Research-based study of methodology and psychology of teaching typing. Includes techniques for developing specialized instructional materials and equipment for the exceptional student.

BTE 6386 THEORIES OF BASIC BUSINESS & ACCOUNTING PEDAGOGY (3)
PR: Methods of Teaching or equivalent, EDF 6481 or CI. This course contains a research-based study of theory and methodology in teaching basic business and accounting subjects. The course is available to majors and non-majors and for credit and non-credit workshops and seminars.

BTE 6387 RESEARCH IMPLICATIONS FOR SHORTHAND PEDAGOGY (3)
PR: EDF 6481 or CI. Research-based study of methodology and prognosis in the teaching of shorthand as a language skill. Available for credit and non-credit workshops and seminars.

BTE 6944 PRACTICUM: BUSINESS EDUCATION (3-6)
A problem-centered field study in the local community, school, government, office, social agency, business or industry.

EGC 4053 INTRODUCTION TO STUDENT PERSONNEL WORK IN HIGHER EDUCATION (2)
PR: CI. Study of student personnel services in institutions of higher education. Identification of the needs of students and of the ways to respond to meet these needs. Survey of service units on a campus in programs of structure, organization, funding, etc.

EGC 4085 INDEPENDENT STUDY: GUIDANCE AND COUNSELING EDUCATION (1-4)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

EGC 5101 HUMAN RELATIONS SKILLS IN GUIDANCE (4)
Introduction to the theory of human relations dynamics and development of skills required for effective interpersonal relations. Lecture sessions and laboratory training.

EGC 6006 PRINCIPLES AND ORGANIZATION OF GUIDANCE (4)
Required first course for majors in guidance and counseling; an elective for students in other programs. Guidance as a profession; its philosophical framework; its scope and functions; its organization and administration in various settings.

EGC 6105 COMPARATIVE GUIDANCE AND COUNSELING (3)
PR: CI. Study of guidance theories and practices in selected foreign countries as compared with the American guidance model. Evaluation of foreign guidance through critical analysis of primary sources. For example: guidance philosophy and practice in countries of the Soviet Bloc, Western Europe, and Latin America.

EGC 6225 APPRAISAL PROCEDURES IN GUIDANCE (4)
PR: EDF 6431, EGC 6005. A study of test and non-test techniques of appraisal with emphasis on the use of standardized test data in guidance programs and the use of the individual case study approach.

EGC 6306 INFORMATION SERVICE AND CAREER GUIDANCE (4)
PR: EGC 6006. Study of the information service in guidance as it relates to the total life style and career development. Theories dealing with career planning. Application of educational, vocational, and personal-social information resources to lifelong human development.

EGC 6435 COUNSELING THEORIES AND PRACTICES (4)
PR: EDF 6354 and EGC 6005. Nature of the counseling process with emphasis on major theoretical approaches, supervised practice, and application. Focuses upon working with adolescents and adults; includes attention to (a) philosophic bases of helping relationships and (b) consultation theory and practice.

EGC 6464 THE COUNSELING SERVICE IN GUIDANCE AND ELEMENTARY SCHOOLS (4)
PR: EDF 6354 and EGC 6005. Nature of the counseling process with emphasis on major theoretical approaches, supervised practice, and application. Focuses upon working with elementary age children, and consultations with parents and teachers.

EGC 6509 GROUP THEORY AND PRACTICUM: ELEMENTARY SCHOOL (3)
PR: EGC 6464. Experiential study of group structures, group dynamics, methodology, and leadership models applicable to counseling and guidance in the elementary schools. Skill building through supervised practicum in leading groups of elementary school children.

EGC 6510 GROUP THEORY AND PRACTICUM: ADOLESCENTS AND ADULTS (4)
PR: EGC 6435. Experiential study of group structures, group dynamics, methodology, and leadership models applicable to counseling adolescents and adults. Skill building through supervised prac­ticum in leading groups of adolescents or adults.

EGC 6830 PRACTICUM IN ELEMENTARY GUIDANCE COUNSELING AND CONSULTING (4)
PR: CC. Supervised counseling experiences for integration of knowledge and skills gained in didactic study. Focus is upon working with elementary age children, parent and teachers. (S/U only.)

EGC 6835 PRACTICUM IN SECONDARY SCHOOL GUIDANCE COUNSELING (4)
PR: CC. Supervised counseling experiences for integration and application of knowledge and skills gained in didactic study. Focus is upon working with adolescents and adults. (S/U only.)

STUDENT SERVICES

SPEECH COMMUNICATION EDUCATION

GRADUATE COURSES

EDG 7365 RESEARCH IN COMMUNICATION EDUCATION (3)
PR: Master's Degree in Communication Education Area or CI. A survey of exemplary research studies in Communication/Speech Education, English Education, Language Development and Analysis, Mass Communication Education, and Theatre Education, including analysis of design and methodologies.

SED 4945 INTERNSHIP (1-4)
Part-time internship in an accredited public or private school. To be taken concurrently with departmental requirements and will include beginning of year experiences when taken in Fall Semester. S/U only.

SED 4946 INTERNSHIP (1-2)
PR: Admission to the College of Education and/or departmental approval. Internship in an accredited public or private school which will include the end of an academic year of program closing. S/U only.

SED 6070 SEMINAR IN THE HISTORY OF SPEECH COMMUNICATION IN EDUCATION (3)
PR: CI. Studies in selected courses, critical writings, and research which have contributed to the development of speech communication as an academic discipline.

SED 6670 CURRENT TRENDS IN TEACHING SPEECH COMMUNICATION (3)
PR: CI. Curricular patterns; preparation of personnel; instructional materials, facilities and practices used in teaching speech communica­tion.

COUNSELOR EDUCATION

UNDERGRADUATE COURSES

EGC 4001 INTRODUCTION TO GUIDANCE PROCESSES (3)
PR: Upper level standing. An introduction to the role and function of guidance, school psychology, social work and other pupil personnel services. Opportunities for increasing self awareness.

EGC 5101 HUMAN RELATIONS SKILLS IN GUIDANCE (4)
Introduction to the theory of human relations dynamics and development of skills required for effective interpersonal relations. Lecture sessions and laboratory training.

EGC 6006 PRINCIPLES AND ORGANIZATION OF GUIDANCE (4)
Required first course for majors in guidance and counseling; an elective for students in other programs. Guidance as a profession; its philosophical framework; its scope and functions; its organization and administration in various settings.

EGC 6105 COMPARATIVE GUIDANCE AND COUNSELING (3)
PR: CI. Study of guidance theories and practices in selected foreign countries as compared with the American guidance model. Evaluation of foreign guidance through critical analysis of primary sources. For example: guidance philosophy and practice in countries of the Soviet Bloc, Western Europe, and Latin America.

EGC 6225 APPRAISAL PROCEDURES IN GUIDANCE (4)
PR: EDF 6431, EGC 6005. A study of test and non-test techniques of appraisal with emphasis on the use of standardized test data in guidance programs and the use of the individual case study approach.

EGC 6306 INFORMATION SERVICE AND CAREER GUIDANCE (4)
PR: EGC 6006. Study of the information service in guidance as it relates to the total life style and career development. Theories dealing with career planning. Application of educational, vocational, and personal-social information resources to lifelong human development.

EGC 6435 COUNSELING THEORIES AND PRACTICES (4)
PR: EDF 6354 and EGC 6005. Nature of the counseling process with emphasis on major theoretical approaches, supervised practice, and application. Focuses upon working with adolescents and adults; includes attention to (a) philosophic bases of helping relationships and (b) consultation theory and practice.

EGC 6464 THE COUNSELING SERVICE IN GUIDANCE AND ELEMENTARY SCHOOLS (4)
PR: EDF 6354 and EGC 6005. Nature of the counseling process with emphasis on major theoretical approaches, supervised practice, and application. Focuses upon working with elementary age children, and consultations with parents and teachers.

EGC 6509 GROUP THEORY AND PRACTICUM: ELEMENTARY SCHOOL (3)
PR: EGC 6464. Experiential study of group structures, group dynamics, methodology, and leadership models applicable to counseling and guidance in the elementary schools. Skill building through supervised practicum in leading groups of elementary school children.

EGC 6510 GROUP THEORY AND PRACTICUM: ADOLESCENTS AND ADULTS (4)
PR: EGC 6435. Experiential study of group structures, group dynamics, methodology, and leadership models applicable to counseling adolescents and adults. Skill building through supervised practicum in leading groups of adolescents or adults.

EGC 6830 PRACTICUM IN ELEMENTARY GUIDANCE COUNSELING AND CONSULTING (4)
PR: CC. Supervised counseling experiences for integration of knowledge and skills gained in didactic study. Focus is upon working with elementary age children, parent and teachers. (S/U only.)

EGC 6835 PRACTICUM IN SECONDARY SCHOOL GUIDANCE COUNSELING (4)
PR: CC. Supervised counseling experiences for integration and application of knowledge and skills gained in didactic study. Focus is upon working with adolescents and adults. (S/U only.)

SPEECH COMMUNICATION EDUCATION

GRADUATE COURSES

EDG 7365 RESEARCH IN COMMUNICATION EDUCATION (3)
PR: Master's Degree in Communication Education Area or CI. A survey of exemplary research studies in Communication/Speech Education, English Education, Language Development and Analysis, Mass Communication Education, and Theatre Education, including analysis of design and methodologies.

SED 4945 INTERNSHIP (1-4)
Part-time internship in an accredited public or private school. To be taken concurrently with departmental requirements and will include beginning of year experiences when taken in Fall Semester. S/U only.

SED 4946 INTERNSHIP (1-2)
PR: Admission to the College of Education and/or departmental approval. Internship in an accredited public or private school which will include the end of an academic year of program closing. S/U only.

SED 6070 SEMINAR IN THE HISTORY OF SPEECH COMMUNICATION IN EDUCATION (3)
PR: CI. Studies in selected courses, critical writings, and research which have contributed to the development of speech communication as an academic discipline.

SED 6670 CURRENT TRENDS IN TEACHING SPEECH COMMUNICATION (3)
PR: CI. Curricular patterns; preparation of personnel; instructional materials, facilities and practices used in teaching speech communica­tion.

COUNSELOR EDUCATION

UNDERGRADUATE COURSES

EGC 4001 INTRODUCTION TO GUIDANCE PROCESSES (3)
PR: Upper level standing. An introduction to the role and function of guidance, school psychology, social work and other pupil personnel services. Opportunities for increasing self awareness.
EDC 6905 INDIVIDUAL STUDY (1-4)
PR: CI. Independent study, research and experience relating to guidance and pupil personnel services under the supervision of a member of the Counselor Education faculty. May be repeated for a maximum of four hours.

EDC 6935 SEMINAR IN GUIDANCE (1-2)
PR or CR: EDC 6006, CI. Significant issues in the field of guidance; topics for discussion will vary according to needs and interests of students. May be repeated for credit for a maximum of four hours.
(S/U only.)

EDC 6947 INTERNSHIP I: COUNSELING PRACTICUM (6)
PR: CC. Field experience involving one semester of full-time participation in all guidance-related activities in an elementary or secondary school setting (classroom guidance, individual and group counseling, assessment/evaluation, staffing, record keeping, etc.). Internship I has to include guidance activities typically offered to pupils at the end of the school year. (S/U only.)

EDC 6948 INTERNSHIP II: COMPREHENSIVE GUIDANCE (6)
PR: CC. Field experience involving one semester of full-time participation in all guidance-related activities in an elementary or secondary school setting (classroom guidance, individual and group counseling, assessment/evaluation, staffing, record keeping, etc.). Internship II has to include guidance activities typically offered to pupils at the end of the school year. (S/U only.)

EDC 7446 CONSULTATION AND SUPERVISION: THEORIES AND PRACTICUM (5)
PR: CC. Theory and methodology of consultation; the role of the counseling professional as consultant and as supervisor of counselor trainees and counseling practitioners. Practice learning experiences in consultation and supervision under faculty direction.

EDC 7894 ADVANCED INTERNSHIP IN COUNSELOR EDUCATION (2-8)
PR: CC. Supervised field experiences in an approved agency, educational institution or industrial setting: counseling, consulting, supervision, applied research, administration, and evaluation of counseling/guidance services. (Repeatable up to eight semester hours. S/U only.)

EDC 7935 ADVANCED SEMINAR IN COUNSELOR EDUCATION (2)
PR: CI. Seminar for advanced graduate students in counselor education. Issues and trends in Guidance and Counseling will be studied and discussed. May be repeated for two additional credit hours. (S/U only.)

CURRICULUM UNDERGRADUATE COURSES

EDG 1300 INTRODUCTION TO TEACHING (3)
PR: Freshman only or CI. The people with whom teachers work, the types of tasks they perform and the challenges they can anticipate. Observation of teaching at several grade levels (S/U only.)

EDG 4000 COUNSELING AND INSTRUCTION (3)
An introduction to the field of curriculum and instruction. Emphasis is placed on identifying educational goals and objectives and applying instructional principles.

EDG 4901 DIRECTED READING (1-3)
May be repeated for a total of 3 semester hours.

EDG 4905 DIRECTED STUDY (1-4)
PR: CI. Specialized in-depth study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

EDG 4909 DIRECTED STUDY (1-3)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

EDG 4910 INDIVIDUAL RESEARCH (1-3)
PR: Senior standing and consent of program coordinator.

EDG 4936 SENIOR SEMINAR IN EDUCATION (2)

EDG 4940 INTERNSHIP (1-12)
One full semester of internship in a public or private school. Intern takes Senior Seminar in Education concurrently. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 semester hours. (S/U only.)

GRADUATE COURSES

EDE 5391 CREATIVE PROBLEM SOLVING FOR THE CHILD (4)
Exploration of the concept of creativity, its factors, measurement, and application to education. Opportunities are given to work with children in a laboratory setting and to prepare materials to be used with small groups of children.

EDE 6208 SCHOOL CURRICULUM: ELEMENTARY (4)
PR: EDG 4200 or equivalent. Designed to examine the organization, curriculum, and instruction of the elementary school with special emphasis on the nature of the student served in the elementary school. Open to all education graduate students.

EDG 5206 CURRICULUM AND INSTRUCTION: ELEMENTARY (4)
A study of a systematic approach to making curriculum and instructional decisions in the elementary classroom.

EDG 5929 EDUCATION WORKSHOP (1-4)
Workshop for the improvement of the curriculum of an elementary or secondary school. Open only to teachers in service. Complete faculty participation required.

EDG 6250 FOUNDATIONS OF CURRICULUM AND INSTRUCTION (4)
PR: EDG 4200 or equivalent. An introductory course in curriculum and instruction at the graduate level, basic to all specialized courses in the field. Emphasis on foundations, design, basic concepts, and theory and trends of curriculum from early childhood through secondary levels. The course is open to all graduate students.

EDG 6251 SCHOOL CURRICULUM IMPROVEMENT (3)
Workshop for the improvement of the curriculum of an elementary or secondary school. Open only to teachers in service. Complete faculty participation required.

EDG 6693 PROBLEMS IN CURRICULUM AND INSTRUCTION: ELEMENTARY (1-4)
PR: EDG 4200 or equivalent. For teachers, supervisors, and administrators. Curricular and instructional problems of the elementary school. Common problems or problems of special interest to the participants. Normally, for certification requirements only.

EDG 6694 PROBLEMS IN CURRICULUM AND INSTRUCTION: MIDDLE SCHOOL (1-4)
PR: EDG 4200 or equivalent. For teachers, supervisors, and administrators. Curricular and instructional problems of the middle school. Common problems or problems of special interest to the participants. Normally, for certification requirements only.

EDG 6695 PROBLEMS IN CURRICULUM AND INSTRUCTION: SECONDARY (1-4)
PR: EDG 4200 or equivalent. For teachers, supervisors, and administrators. Curricular and instructional problems of the secondary school. Common problems or problems of special interest to the participants. Normally, for certification requirements only.

EDG 6906 INDEPENDENT STUDY (var.)
Independent study in which students must have a contract with an instructor. Repeatable. (S/U only.)

EDG 6931 SELECTED TOPICS IN EDUCATION (1-4)
PR: Graduate standing and CI. Each topic is a course under the supervision of a faculty member. The title and content will vary according to the topic.

EDG 6947 INTERNSHIP (1-9)
PR: CI. Open to graduate degree candidates only. Supervised teaching at the secondary or junior college level as appropriate. (S/U only.)

EDG 6971 THESIS: MASTERS/EDUCATION SPECIALIST (var.)
For students in M.A. and Ed.S. programs requiring a thesis. This project is a culminating, integrating experience which aims at relating theory to practice. Repeatable. (S/U only.)

EDG 7325 ANALYSIS OF TEACHING (4)
PR: EDG 6250 or CI. Develops skills in systematic observation. Study and development of related research design models.
EDG 7667 ANALYSIS OF CURRICULUM AND INSTRUCTION (4)
PR: EDG 6250 or equivalent. A study of various theoretical frameworks for analyzing curriculum and instruction. Emphasis on rational models of curriculum inquiry.

EDG 7692 ISSUES IN CURRICULUM AND INSTRUCTION (4)
PR: EDG 6250. Identification and analysis of major problems and issues in curriculum and instruction. Critical examination of efforts to deal with these issues.

EDG 7910 DIRECTED RESEARCH (var.)
PR: GR. Ph.D. level. Repeatable. (S/U only.)

EDG 7931 SELECTED TOPICS (1-4)
PR: CC. Selected topics in advanced Education. May be repeated for credit to a maximum of 12 hours.

EDG 7937 GRADUATE SEMINAR (1-4)
PR: CC. Seminar in advanced Education. May be repeated for credit to a maximum of 12 hours.

EDG 7980 DISSERTATION: DOCTORAL (var.)
PR: Must be admitted to Doctoral Candidacy. Repeatable. (S/U only.)

EDM 6235 SCHOOL CURRICULUM: MIDDLE (4)
PR: EDG 4200 or equivalent. Designed to examine the organization, curriculum, and instruction of the middle school with special emphasis on the nature of the student served in the middle school. Open to all education graduate students.

ESE 6215 SCHOOL CURRICULUM: SECONDARY (4)
PR: EDG 4200 or equivalent. Designed to examine the organization, curriculum, and instruction of the secondary school with special emphasis on the nature of the student served in the secondary school. Open to all education graduate students.

ESE 6306 SUBJECT SPECIALIZATION PLANNING SECONDARY (3)
Individually planned course in a secondary school subject area for in-service teachers.

LAE 5131 CURRICULUM PLANNING AND DEVELOPMENT IN SECONDARY ENGLISH (3)
PR: Certification in English or Mass Communications. Examination of new curricular policies and procedures relating to the teaching of English in the secondary school.

LAE 5137 CURRICULUM EVALUATION IN SECONDARY ENGLISH (3)
PR: Certification in English or Mass Communications. Examination of new evaluation policies and procedures relating to curricula in English in the secondary school.

DISTRIBUTIVE AND MARKETING EDUCATION

UNDERGRADUATE COURSES

DEC 4174 PROGRAM MANAGEMENT OF DISTRIBUTIVE AND MARKETING EDUCATION (3)
The study of the purposes, processes, organization, planning, directing, coordinating and evaluation of Distributive and Marketing Education Cooperative Programs.

DEC 4362 SPECIAL TEACHING METHODS: DISTRIBUTIVE EDUCATION (4)
Methods, techniques, and materials for skill development.

DEC 4382 METHODS OF TEACHING: DISTRIBUTIVE EDUCATION (3)
Methods, techniques, and materials for instruction.

DEC 4905 INDEPENDENT STUDY: DISTRIBUTIVE AND MARKETING EDUCATION (3-6)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

DEC 4909 DIRECTED STUDY: DISTRIBUTIVE AND MARKETING EDUCATION (1-3)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

DEC 4936 SENIOR SEMINAR IN DISTRIBUTIVE AND MARKETING EDUCATION (2)

DEC 4940 INTERNSHIP: DISTRIBUTIVE AND MARKETING EDUCATION (1-12)
One full semester of internship in a public or private school. Intern takes Senior Seminar in Distributive and Marketing Education concurrently. In special programs where the internship experience is distributed over two or more semesters students will be registered for credit which accumulates from 9 to 12 semester hours. (S/U only.)

DEC 4941 SUPERVISED FIELD EXPERIENCE: DISTRIBUTIVE EDUCATION (1-6)
PR: CI. Planned supervised functions in the area of specialization and coordinated with selected schools, government offices, social agencies, businesses and industries on site.

DEC 4945 INTERNSHIP (1-4)
Part-time internship in an accredited public or private school. To be taken concurrently with departmental requirements and will include beginning of year experiences when taken in Fall Semester. S/U only.

DEC 4946 INTERNSHIP (1-2)
PR: Admission to the College of Education and/or departmental approval. Internship is an accredited public or private school which will include the end of an academic year or program closing. S/U only.

GRADUATE COURSES

DEC 5175 PROGRAM MANAGEMENT: DISTRIBUTIVE EDUCATION (3)
Organization, coordination, and budgeting of adult, cooperative, and special programs.

DEC 5185 CURRICULUM CONSTRUCTION: DISTRIBUTIVE EDUCATION (3)
Curriculum scope, the process of planning and organizing instructional programs with emphasis on task analysis and process evaluation.

DEC 5205 PRACTICUM: DISTRIBUTIVE EDUCATION (3-6)
A problem-centered field study in the local community, school, government, office, social agency, business, or industry.

ELEMENTARY EDUCATION

UNDERGRADUATE COURSES

ARE 4313 ART FOR THE CHILD AND YOU (3)
PR: Admission to College of Education. Art and the intellectual, creative, emotional, and aesthetic growth of children.

EDG 4391 TEACHING METHODS IN THE ELEMENTARY SCHOOL (4)
PR: EDE 4941 and Elementary EDG 4200. Techniques and strategies appropriate to instruction of children in educational settings.

EDE 4905 INDEPENDENT STUDY: ELEMENTARY EDUCATION (1-4)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

EDE 4909 DIRECTED STUDY: ELEMENTARY EDUCATION (1-3)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

EDE 4936 SENIOR SEMINAR IN ELEMENTARY EDUCATION (2)

EDE 4940 INTERNSHIP: ELEMENTARY EDUCATION (10)
PR: Successful completion of two semesters of EDE 4942. Teacher candidate is required to demonstrate professional competencies during one semester of full-day internship in a public or private elementary school. Concurrent enrollment in EDE 4936. (S/U only.)

EDE 4941 CHILDHOOD EDUCATION INTERNSHIP LEVEL I (4)
PR: Application for admission to the Elementary or Elementary/Early Childhood program. Students spend six hours per week in a supervised in-school experience and attend weekly seminar. Concurrent enrollment in EDG 4200-Elementary education. (S/U only.)

EDE 4942 CHILDHOOD EDUCATION INTERNSHIP LEVEL II (4-8)
PR: Satisfactory completion of EDE 4941. Students spend six hours per week in a supervised internship experience in classroom settings and attend a weekly seminar. Students must enroll in EDE 4942 for two semesters for a total of 8 semester hours. (S/U only.)