gram 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 requirement (42)
2. Mathematics and science requirements (45)
3. Engineering Science core requirement (41)
4. Specialization requirements (52)

(There may be minor variations from these numbers in a defined option.)

Other Requirements for Engineering Science

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

Students with a Computer Science option will not be given credit towards their degree for Computer Service Courses taken without prior consent of their adviser.

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 project extending through the fourth and fifth years.
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 (135 credits) with at least 24 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 the 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 45 credit hours) for this degree are essentially the same as those itemized for the Engineering Master’s Degree Programs, page 108.

To meet the student’s specific Engineering Science objectives, each department, or the college, may elect to award this degree dependent on prior arrangement with the student.

Students entering the Computer Science concentration of this program without a baccalaureate degree in Computer Science may have to take supplemental remedial coursework.

Students with interests in Bio-medical engineering should have a well above average undergraduate preparation in one of the traditional fields of engineering.

DOCTOR OF PHILOSOPHY DEGREE IN ENGINEERING SCIENCE (EGC)

The Doctor of Philosophy degree in Engineering Science 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. 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 in 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 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 quarter 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 assignments. At the earliest possible date a supervisory committee is appointed which will serve as the dissertation 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 or more departments represented from the college.
2. A total of 135 quarter hours minimum beyond the baccalaureate degree (including dissertation research) is required with a minimum of 40 hours in an engineering area of concentration. The 40 hours may not necessarily be course work of the same department but must focus directly upon the area of concentration and at least 30 hours must be at the 6000 level. A minimum of 12 hours of mathematics or mathematics and statistics is required. Engineering mathematics may be approved by the committee if appropriate. In addition, a minimum of 12 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.

3. At least 12 hours of course work must be taken outside the major department, if there is a major department.

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 Master's degrees must take this examination before the end of the first year after admission to the program.

5. A written and oral examination devised and administered by the dissertation committee will be taken by each Ph.D. student toward the end of his or her course work. Completion of this requirement admits the student to candidacy.

6. The defense of dissertation will be in accordance with the University's general rules and regulations.

7. The minimum residency requirement may be satisfied by completing at the University of South Florida beyond the Master's degree or equivalent the following: (1) 36 quarter hours in one calendar year or (2) 45 quarter hours in no more than 6 quarters within a period of 3 calendar years. Any graduate work counted toward the fulfillment of the requirement of the Ph.D. degree after admission to candidacy must be accomplished within a 7-year calendar period.

8. Throughout the student's program of study, independent learning will be emphasized. For the first time in the participant's career, in most cases, the student will be responsible for mastering a new domain of knowledge without the aid of organized lectures and textbooks. The principal information source will be the current literature. Such experience is necessary preparation for a meaningful career in engineering and other fields where the participants face the requirement of keeping pace with a large, ever-changing body of knowledge.

9. The student must carry out an investigation of such quality that he/she can either make an independent, or original contribution to the knowledge in his/her field, or a new and better interpretation of facts already known. The requirement of uniqueness means that the dissertation research will provide an important creative experience for the student. Successful completion of this experience makes the Ph.D. program a valuable career preparation for every aspect of the engineering profession. As the final stage of the student's program, he/she must prepare a written dissertation covering the research. Students in the Ph.D. program must take an appropriate number of Doctoral Dissertation credits but not less than 30 quarter hours; the exact number is determined by department and/or individual requirements.

10. An all college advanced graduate advisory committee reports to the Dean of the College of Engineering. This committee receives copies of all programs arranged for the students by their advisory committees as well as copies of qualifying examinations and examinations for admission to candidacy. This committee provides recommendations to the Dean, department heads, and advisory committees relative to programs, procedures and examinations.

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 areas. The program normally provides for two years (90 min. credit hours) of study at the University of South Florida following two years (90 credit hours) of successful study in an engineering technology program which has led to an Associate of Science degree. Many 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 related areas (including 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>Subject</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Technology</td>
<td>80</td>
</tr>
<tr>
<td>Management &amp; related studies</td>
<td>30</td>
</tr>
<tr>
<td>Liberal Arts, Social Science and Electives</td>
<td>48</td>
</tr>
<tr>
<td>Mathematics and Science</td>
<td>22</td>
</tr>
<tr>
<td>Total</td>
<td>180</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
- Electronics Technology
- Management Engineering Technology

These areas are designed to complement the technical work received at the community colleges 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. Normally, the student should have completed a minimum of mathematics through applied integral calculus and a non-calculus physics sequence. If the student’s performance in his/her community college program indicates a reasonable probability of success in the Bachelor of Engineering Technology program, the student will be admitted to USF. Students are required to complete a minimum of 90 additional quarter hours to receive the Bachelor of Engineering Technology degree. Because this evaluation procedure is unique to the Bachelor of Engineering Technology program, the application for admission should clearly indicate the desired major field as "Engineering Technology." This application should be filed through the Office of Admissions.

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
Other Requirements

The following supplemental requirements listed on page 104 are applicable to this program.

- English Requirement
- Mathematics Requirement
- Continuation Requirement

In addition to the completion of the course work of 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.

Computer Service Courses

These courses marked SC are specifically designed for the non-engineering student.

Recognizing that the general purpose digital computer has made significant contributions to the advancement of all elements of the academic community and that it will have an even greater impact in the future, the College of Engineering offers several levels of credit 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 and COBOL.

Students in engineering, the physical sciences, and mathematics should consult the college's departmental course offerings for suitable computer courses.
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 the 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 summer 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 Ailey, 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 Arts 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.

SYCOM

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

The facilities in SYCOM include a 16-channel quad-mixing unit and an array of 8-track, 4-track, and 2-track recorders with peripheral real-time recording equipment. Digital-to-analog and analog-to-digital converters interface a PDP 11/10 computer with various voltage controlled devices, including two Moog-10 synthesizers, one E mu modular synthesizer system, and a custom designed polyphonic digital sequencer constructed around a Z-80 microprocessor. An IBM Systems 370/165 computer, the central processing unit of the campus, offers the most extensive and advanced potential in digital sound synthesis research and computer assisted music composition; its four megabytes of monolithic memory and 3200 megabytes of disc storage are accessed via a Music 360 sound synthesis program. The Systems Research Lab maintains the facilities in SYCOM and provides a vital communications link between recent innovations in electronic technology and the potential for these advancements in artistic applications.

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

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 by meeting the 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 ongoing 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 Advisor.

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 36 of this Catalog, but are briefly summarized here along with college and departmental requirements:

1. 180 credits for the B.A. and 225 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 30 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 180 credit hours may require additional quarters for completion of the program.

2. General Distribution Requirements may be satisfied by (1) completing the University's General Distribution Requirement as explained on page 35 of this catalog, (2) completing the A.A. degree from a Florida Junior or Community College, or (3) completing the general education requirements from another state university. General education courses transferred from other accredited institutions will be evaluated based on USF General Distribution equivalencies. The A.A. degree is in no way a requirement for acceptance into the College of Fine Arts (or into any one of its upper level degree programs), or a requirement for graduation from the University.

3. Special Fine Arts College Requirement: All majors in the College of Fine Arts must take at least 9 hours in one or more of the other departments of the College.

4. A maximum of 12 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 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 63 hours in the major, 35 hours of Free Electives (of which 28 hours in art may apply), and 13 hours of non-major credits distributed at the discretion of the Art Department.

Dance Requirements: Completion of a minimum of 63 hours in the major, 35 hours of Free Electives (of which 28 hours in dance may apply), and 13 hours of non-major credits distributed at the discretion of the Dance Department.

Music Requirements: Completion of a minimum of 96 hours in the major and 15 hours of non-major electives of which 8 hours may be distributed at the discretion of the Music Department.

Theatre Requirements: For the B.A., the completion of a minimum of 75 credit hours in the major with 36 credit hours of Free Electives of which a maximum of 16 credit hours may be in theatre. For the B.F.A., the completion of a minimum of 112 credit hours in the major with 45 credit hours of Free Electives of which a maximum of 16 credit hours may be in theatre.

7. Residency Requirements: A minimum of 30 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 45 of the last 90 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 for credit of up to 18 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 with in Area II of the University's General Distribution Requirements. (See page 35 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 respective department chairperson, or art or music education coordinator.
3. The department may recommend probationary status (rather than disenrollment) for one quarter when academic progress is not maintained.

Contracts and Permission Procedures

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 signed by the student, the instructor, and department chairperson. 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.

Additional 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.

“1” Grade Contracts:
Incompletes must be contracted for by mutual agreement between student and instructor, with the contract describing specifically the amount and nature of the work to be completed for the removal of the incomplete grade. This contract additionally clearly specifies the date that the work will be due (within legal limits) for grading. Both the student and the instructor must sign this contract and the distribution of the four copies will be the same as with S/U contracts. A student must not register for a course again to remove an “1” grade. Please see page 32 for more details concerning the University’s “1” grade policy.

Permission Procedures:
Admission into some courses is possible only by consent of instructor (CI), consent of chairperson (CC), 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.

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

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 “Special Requirements” regulation, a maximum of 9 credit hours of S/U credits in non-major courses may apply towards a degree in the College of Fine Arts.

Please see page 32 for more details concerning the University’s S/U Grading policy.

Dean’s List Honors
See Academic Policies and Procedures, Programs and Services, page 35.

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, and 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 37 of this Catalog.

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 admissions requirements for graduate degree-seeking status and the regulations of the University governing graduate study are described beginning on page 46 of this Catalog. The general University application procedures are explained on page 12.

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 where final processing occurs. 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.

PROGRAMS AND CURRICULA

ART (ART)

Departmental Requirements for the B.A. Degree

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

The major concentrations, or areas of emphasis, available to undergraduate (B.A. seeking) art students are: Drawing, Painting, Sculpture, Ceramics, 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 credit will be accepted on the basis of portfolio and transcript evaluation.

For additional requirements see page 114 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 (63 quarter hour minimum)

1. Visual Concepts I, II, and III and Introduction to Art, 16 credit hours.
2. Minimum of 12 credit hours of 3000 level studio courses (exclusive of Technique Seminars).
3. Minimum of 12 credit hours of 4000 and/or 5000 level studio courses exclusive of Technique Seminars. With rare exceptions, these should be in one area and repeated only once.
4. Minimum of 12 credit hours in Idea Seminars and/or art history courses.
5. Art Senior Seminar, 3 credit hours.
6. Eight credit hours of additional art courses (which may include Technique Seminars).

Art History Concentration (63 quarter hours minimum)

1. Visual Concepts I, II, III and Introduction to Art, 16 credit hours.
2. Minimum of 20 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 14 credit hours in Idea Seminar (2 quarter hours each) and/or Directed Readings (1 to 6 quarter hours each) and/or Critical Studies in Art History (4 quarter hours each).
5. Art Senior Seminar, 3 credit hours.
6. Six additional credit hours of art courses, to total a minimum of 63 quarter hours.
7. A proficiency in at least one foreign language, with either French or German strongly recommended. 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.

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 (32 quarter hour minimum)

I. Studio Concentration:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2202C</td>
<td>(4)</td>
</tr>
<tr>
<td>ART 2203C</td>
<td>(4)</td>
</tr>
<tr>
<td>ART 2205C</td>
<td>(4)</td>
</tr>
<tr>
<td>ARH 3000</td>
<td>(4)</td>
</tr>
<tr>
<td>ARH 4450</td>
<td>(4)</td>
</tr>
</tbody>
</table>

Plus:

Two 4 quarter hour classes from 3000 level studio and repeat one of these areas on the 4000 level. (12)

II. Art History Concentration:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2202C</td>
<td>(4)</td>
</tr>
<tr>
<td>ART 2203C</td>
<td>(4)</td>
</tr>
<tr>
<td>ARH 3000</td>
<td>(4)</td>
</tr>
</tbody>
</table>

Visiting Artists and Artists-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 Bartlett, Larry Bell, Friedl Dzubas, Allen Jones, Nicholas Krushenick, Daniel Lang, Paul Sarkisian, Lucas Samaras, Robert Irwin, James Rosenquist, Robert Rauschenberg, Philip Pearlstein.

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 Quarter I admissions by April 1; for Quarter II admissions by October 15, and for Quarter III admissions by January 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 or 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 necessary for the return of all materials should accompany 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 46. 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 be given a calendar year in which to achieve "degree-candidacy." These steps are achieved by submission of work for faculty reviews held twice a year. All degree-seeking students are provided with two opportunities within the calendar year to achieve candidacy. If a degree-seeking student does not achieve candidacy on the second attempt, the student will then be terminated from the program.

Upon acceptance to candidacy, the student will select a committee of three faculty members, two of which must be degree-seeking students. The M.F.A. degree requires a minimum of 72 quarter hours. The bulk of a student's program is discretionary, and is planned in consultation with the student's graduate committee.

Specific program requirements include work in theory (ART 6936 Graduate Seminar: 2 hours credit, must be taken twice); participation in instruction (ART 6937 Graduate Instruction Methods: Variable credit to 5 hours); presentation of work (thesis exhibition for which credit is normally given); and thesis documentation (usually earned under ART 6971, Masters Thesis, but in certain circumstances under ART 6911, Directed Research: credit for documentation is variable); and 8 hours 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 have the approval of the student's graduate committee and the graduate art adviser. Approval from both of these sources is also necessary for the acceptance of any Special Student status 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 orals 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 to pursue a career as a performer and/or choreographer.

Major concerts are given each quarter 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

(63 quarter hours minimum)

<table>
<thead>
<tr>
<th>Modern Concentration:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DAA 2160 (3)</td>
<td>DAA 4703 (3)</td>
<td></td>
</tr>
<tr>
<td>DAA 2200 (3)</td>
<td>DAN 4120 (3)</td>
<td></td>
</tr>
<tr>
<td>DAA 2700 (3)</td>
<td>DAN 4151 (3)</td>
<td></td>
</tr>
<tr>
<td>DAA 3161 (8)</td>
<td>DAN 4170 (3)</td>
<td></td>
</tr>
<tr>
<td>DAA 3201 (4)</td>
<td>Ballet</td>
<td></td>
</tr>
<tr>
<td>DAA 3701 (3)</td>
<td>Concentration:</td>
<td></td>
</tr>
<tr>
<td>DAN 3603 (3)</td>
<td>DAA 2160 (3)</td>
<td></td>
</tr>
<tr>
<td>DAN 3710 (3)</td>
<td>DAA 2200 (3)</td>
<td></td>
</tr>
<tr>
<td>DAN 3110 (3)</td>
<td>DAA 2700 (3)</td>
<td></td>
</tr>
<tr>
<td>DAA 4162 (15)</td>
<td>DAA 3161 (4)</td>
<td></td>
</tr>
<tr>
<td>DAA 4702 (3)</td>
<td>DAA 3201 (8)</td>
<td></td>
</tr>
</tbody>
</table>

TPA 2223 Stage Lighting and Costume is required of all dance majors and may apply toward Area II of the General Distribution Requirements, or non-major electives, or the 9-hour Special College Requirement.

Junior dance majors are required to do a dance project and senior dance majors are required to choreograph and perform in a senior dance program.

Entrance to all technique courses is by jury examination. A student must audition each quarter to stay at his/her present level or to advance to a higher level. Until the student is accepted into Intermediate Modern or Intermediate Ballet he/she will be considered as a probationary dance major. Beginning courses may be repeated only three times.

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 for performances.

For other non-major requirements see page 114 of Fine Arts College requirements and page 35 for the University's General Distribution and graduation requirements.

Requirements for a minor in Dance

(25 quarter hour minimum)

I. Minimum of 12 quarter 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. Beginning courses may be repeated only three times.

IV. The student must audition each quarter 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.
- Nikolaos Dance Theatre
- Kerela Kalamandalam Co.

- Norman Walker Dance Team
- Ballet Marjo
- Luis Rivera Co.
- Utah Repertory Dance Theatre
- Cliff Keuter Dance Co.
- Kelly Hogan
Dance Theatre of Harlem
Merce Cunningham Dance Co.
Alvin Ailey American Dance Theatre
Don Redlich Dance Co.
Polish Mime Ballet Theatre
Viola Farber Dance Co.
Paul Taylor Dance Co.
The Phakavali Dancers of Thailand
Royes Fernandez
Jacques D’Amboise
Lucas Hoving Dance Co.
New Caledonia Singers and Dancers
The Trocaderos
Kazuko Hirabayashi

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
Tywa 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 (audition) in their respective performance area. Composition students must present a partial public recital during their junior year, (3) present a complete public recital of their senior year, (3) the formal presentation to the composition faculty of an extensive portfolio of compositions plus the public performance of at least one of these works during the senior year.

Requirements for the B.A. Degree
(96 quarter hour 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 their junior year, (3) present a complete public recital during their senior year, (4) present a record of satisfactory recital attendance during each of the quarters of study at the university. The specific requirements for satisfactory attendance are set by the music faculty. These requirements are in addition to the actual course requirements listed below: A total of 96 hours is required as follows:

<table>
<thead>
<tr>
<th>Music Theory (30)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUT 1111 (3)</td>
</tr>
<tr>
<td>MUT 1242 (2)</td>
</tr>
<tr>
<td>MUT 2118 (3)</td>
</tr>
<tr>
<td>MUT 1112 (3)</td>
</tr>
<tr>
<td>MUT 1243 (2)</td>
</tr>
<tr>
<td>MUT 2246 (2)</td>
</tr>
<tr>
<td>MUT 1113 (3)</td>
</tr>
<tr>
<td>MUT 2116 (3)</td>
</tr>
<tr>
<td>MUT 2247 (2)</td>
</tr>
<tr>
<td>MUT 1241 (2)</td>
</tr>
<tr>
<td>MUT 2117 (3)</td>
</tr>
<tr>
<td>MUT 2248 (2)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Music Literature (6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUL 2111 (2)</td>
</tr>
<tr>
<td>MUL 2112 (2)</td>
</tr>
<tr>
<td>MUL 2113 (2)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Music History (9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUH 3221 (3)</td>
</tr>
<tr>
<td>MUH 3212 (3)</td>
</tr>
<tr>
<td>MUH 3213 (3)</td>
</tr>
</tbody>
</table>

Applied Concentration:
A total of 36 credit hours of applied music is required with a minimum of 9 hours to be completed at the senior level. One major ensemble per quarter is required in conjunction with applied music enrollment.

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

For other non-major requirements see page 114 of the Fine Arts College requirements and page 35 for the University’s General Distribution and graduation requirements.

The requirements for the B.A. in Music Education are listed under the College of Education.

Composition Concentration:
Undergraduates concentrating in composition must complete a minimum of 36 credit hours from the following sequence of courses including MUC 3403 and at least one quarter of MUC 4204, satisfying all necessary prerequisites for all courses:

- MUC 2202 (6)
- MUC 2301 (3)
- MUC 3203 (3)
- MUC 3401, 3402, 3403 (3,3,3)
- MUC 3441, 3442, 3443 (3,3,3)
- MUC 3601, 3602, 3603 (3,3,3)
- MUC 4204 (3)
- MUC 4405, 4406, 4407 (3,3,3)
- MUC 4501 (3)
- MUT 4311, 4312 (3)

In consultation with, and with the approval of the entire composition faculty, the senior requirement for composition concentration is to be satisfied in any of the following three ways, or in other ways so designated by the composition faculty: (1) a complete public concert of works by the student composer, (2) the public performance of several compositions in various contexts throughout the composer’s senior year, (3) the formal presentation to the composition faculty of an extensive portfolio of compositions plus the public performance of at least one of these works during the senior year.

Requirements for a minor in Music
(29-32 quarter 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 18-19 hours.

I. Core Curriculum:
- Music Theory (15)
- Introduction to Music Literature (4)

II. Optional Concentrations;
A. History - Theory - Literature 11-12 hours
- Music History and/or Theory and/or Literature (8-9)
- Music Ensemble (3)
B. Applied Medium 11-12 hours
- Performance Studio courses which may include up to 2 quarter hours of class-studio (8-9)
- Music Ensembles (3)
- Faculty jury recommendation for sophomore level studio study (minimum)

C. Composition 13 hours
- Introduction to Electronic Music (3)
- Composition Studio courses which may include one course of orchestration (9)
- Music Ensemble (1)

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

The Faculty:
USF’s superior music faculty has been carefully chosen for its training, performing ability, and ability to teach. It is in every sense a team. This achievement has been demonstrated by such fine musical ensembles as the Faculty String Quartet, the 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, forum appearances, and the conducting of 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 Neel, Lukas Foss, Maurice Andre, John Haynie, Jean Pierre Rampal, Julius Baker, David Baker, and Thomas J. Anderson.

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 January and February. The award is made for the following year for three of the four quarters. Available to graduate students who show special potential for creative contribution to the profession are the University Scholar Awards and graduate assistantships and fellowships. Assistantships and fellowships are available to qualified University of South Florida students. Financial aid is granted on need, academic promise and character.

Master of Music Degree

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

- performance
- theory
- composition
- 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 must have obtained student 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 given 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 personnel are available to contact the Chairperson of the Music department and the Graduate Music adviser, or the Coordinator of Graduate Studies (College of Fine Arts) for referral.

Requirements for the M.M. Degree

(45 quarter hour minimum)

General requirements for graduate work are given on page 46. 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)
- 20th Century Music Literature (3)

Programs 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 student's adviser in conformance with the guidelines established by the Graduate Music Committee. A minimum of 45 quarter hours is required.

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

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

THEATRE (TAR)

The Departmental 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 pursues the Bachelor-of-Arts degree concentrates in the areas either of Performance or of Design and Technology.

To earn a B.A. degree in theatre, the student must take a minimum of 75 quarter hours in his/her chosen concentration of either design and technology or performance. In addition to these, 16 credit hours of electives in the theatre department may be taken to broaden the general program or to pursue a particular interest in more depth.

To allow for an even greater professional theatrical preparation a Bachelor of Fine Arts degree is offered. This program, like the B.A., has two concentrations: Performance and Design/Technology, and candidates for the Bachelor of Fine Arts will audition or present a portfolio for entry to the program. Students will be expected to earn 112 credit hours in theatre and related courses and overall 225 credits from the University. The B.F.A. should normally be accomplished in 15 quarters.

For other non-major requirements see page 114 of the Fine Arts College requirements and pages 35-36 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. For the more advanced acting student, opportunities sometimes arise for participation with other companies in the area. The Design/Technology area of the Fine Arts Events (see description elsewhere in this section) offers to the advanced Tech and Design student opportunities 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:

Despite the fact that the University is relatively young the theatre department has had in residence artists from many kinds of theatre and many countries including: London's West End,

Requirements for the B.A. Degree:

Total 180 quarter hours; minimum 75 quarter hours of Theatre.

Major Core Requirements (41 quarter credits to be completed by all majors):

THE 2020 (2)
TPP 2200 (3)

Select two: TPP 2110 (3), TPA 2223 (3),
TPP 2500 (3), TPA 2400 (3)
THE 3110 (3) TPA 4562 (3) TPA 3601 (3)
THE 3111 (3) TPA 2250 (1) TPP 3111 (4)
THE 4180 (5) TPA 3086 (4)

Plus one advanced level Theatre Studies (4)

Performance Concentration (34 credit hours):
TPP 4150 (4) TPP 4220 or TPP 3790L (3)
TPP 4151 (4) TPP 4920 (4) TPP 4310 (4)
TPP 4140 (4) TPP 3510 (3) TPP 4311 (4)
TPP 4152 (4)

Design & Technology Concentration (34 credit hours):
THE 4264 (3) THE 4266 (3)
Design sections in major area:
TPA 4020, TPA 4021 (4,4)
TPA 4040, TOA 4045 (4,4)
TPA 4060, TPA 4061 (4,4)
Performance course as specified by department: (4)
Additional section from related area:
TPA 4020 (4)
TPA 4040 (4)
TPA 4060 (4)

In area of emphasis—4 hours:
TPA 4021 (4), or TPA 40285 (4), or 4 hours from
TPA 4230 (2), TPA 4231 (2), TPA 4281 (2)

In related area—4 hours from:
TPA 4211 (4), or TPA 4285 (4), or 4 hours from
TPA 4230 (2), TPA 4231 (2), TPA 4281 (2)

Four credits from skills courses:
TPA 4081 (2), TPA 4240 (2), TPA 4052 (2),
TPA 4071 (2), TPA 4281 (2)

Requirements for a minor in Theatre (32 quarter hours minimum)

Three lab courses including TPA 2200, Stagecraft (9)
Other lab courses to choose from:
TPP 2110 (3)
TPA 2223 (3)
TPP 2500 (3)
TPA 2400 (3)

The remaining 23 hours are to be selected by the student based on personal interest. At least 20 hours must be upper level courses. The Theatre Adviser will be available to assist the student in developing a course of study that will meet the needs of the individual student.

Students desiring admittance into the Acting Sequence and/or the Design Sequence must audition and/or portfolio review.

All Theatre courses (with the exception of the above mentioned lab courses) require permission of the instructor.

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

Concentrations in Performance and Design/Technology. (Total 225 credit hours, 112 of which will be in Theatre and related courses and 45 hours of which will be Free Electives with up to 16 credits in Theatre applicable):

Admission to B.F.A. program is by audition or portfolio presentation.

Participation in one summer quarter theatre program is required.

Awarding of the B.F.A. degree is based upon completion of course work and a creative project.

B.F.A. requirements for the Stage Design/Technology concentration with emphasis in Scenic, Lighting or Costume:

Major Core Requirements (41 quarter hours, to be completed by all majors), see B.A. degree program, page 120, for description.

Plus 35 hours in the Major Emphasis:

**Design/Technology Emphasis #1**

Scene (35 hours minimum):
THE 4264 (3)
THE 4266 (3)
TPA 4060 Scene Design I (3)
TPA 4061 Scene Design II (4)
Choice of:
TPA 4020 Lighting Design I or TPA 4040 Costume Design I (4)
TPA 4211 (4)
TPP 4150 (4)
TPA 4012 (Project Design Honors: Scene) (4)
THE 3925 (1)

Plus 4 hours from:
TPA 4230 (2)
TPA 4231 (2)
TPA 4281 (2)
TPA 4285 (4)

**Design/Technology Emphasis #2**

Lighting (35 hours minimum):
THE 4264 (3)
THE 4266 (3)
TPA 4020 Lighting Design I (4)
TPA 4021 Lighting Design II (4)
Choice of:
TPA 4040 Costume Design I or TPA 4060 Scene Design I (4)
TPA 4285 (4)
TPP 4150 (4)
TPA 4012 (Project Design Honors: Lighting) (4)
THE 3925 (1)

Plus 4 hours from:
TPA 4211 (4)
TPA 4230 (2)
TPA 4231 (2)
TPA 4281 (2)

**Design/Technology Emphasis #3**

Costume (35 hours minimum):
THE 4264 (3)
THE 4266 (3)
TPA 4040 Costume Design I (4)
TPA 4045 Costume Design II (4)
Choice of:
TPA 4020 Lighting Design I or TPA 4060 Scene Design I (4)
TPA 4285 (4)
TPP 4150 (4)
TPA 4012 (Project Design Honors: Costume) (4)
THE 3925 (1)

Plus 4 hours from:
TPA 4211 (4)
TPA 4285 (4)
Plus 36 additional hours from the following:

12 hours in Creative Project and Execution
THE 4905 or 5909 (Research: Creative Project) (2)
THE 4905 or 5909 (Design: Creative Project) (3)
THE 4905 or 5909 (Execute: Creative Project) (3)
TPA 4020 Lighting Design I or (4)
TPA 4040 Costume Design I or (4)
TPA 4060 Scene Design I (Completes Design I in all three areas) (4)

TPA 4281 (2)
TPA 4052 (2)
TPA 4240 (2)
TPA 4081 (2)
TPA 4021 Lighting Design II or (4)
TPA 4045 Costume Design II or (4)
TPA 4061 Scene Design II (Secondary emphasis for design student) (4)
TPA 4071 (2)
TPA 4211 (4)
TPA 4230 (2)
TPA 4231 (2)
TPA 4285 (4)
THE 4905 (4)

12 hours in Design and Technical Skills (choice of):
TPA 4281 (2)
TPA 4052 (2)
TPA 4240 (2)
TPA 4081 (2)
TPA 4021 Lighting Design II or (4)
TPA 4045 Costume Design II or (4)
TPA 4061 Scene Design II (Secondary emphasis for design student) (4)
TPA 4071 (2)
TPA 4211 (4)
TPA 4230 (2)
TPA 4231 (2)
TPA 4285 (4)
THE 4905 (4)

12 hours in Course Production work (choice of credit in workshops or ensembles in the College of Fine Arts):
TPP 4230L (4)
TPP 3235; TPP 3236 (4,4)
TPA 3810; TPA 3820; TPA 3840 (4,4,4)
TPP 4250; TPP 3510; TPP 3790L (4,3,3)
DAN 3710 (1)

MUO 3501 (1)
THE 3925 (repeatable for 6 hours) (1)

Total: 112 credit hours

B.F.A. requirements for the Performance concentration:
Major Core Requirements (41 quarter hours, to be completed by all majors). See B.A. degree program, page 120, for description.

Plus the following required hours (34 quarter hours minimum):
TPP 4150; TPP 4151; TPP 4140; TPP 4152
TPP 4220 or TPP 4920 (4)
TPP 3510 (3)
TPP 3790L (3)
TPP 4310 (4)
TPP 4311 (4)

Plus 36 hours as follows:

18 hours of additional electives to be decided in conference with student's advisory committee.

Any theatre student enrolling in lab courses (TPA 2200, TPA 2223, TPA 2400, TPP 2110, and TPP 2500) will be expected to spend 40 hours per quarter as assigned lab requirement. Upper division courses in studio and performance carry Advanced Course Production Involvement (ACPI) requirement. Any student enrolling in these courses will be expected to fulfill this obligation up to 6 times. Credit may be earned for each ACPI by enrolling in THE 3925 (1 hour), which may be repeated up to 12 times.
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. This 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 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 Admission Committee composed of members of PreClinical, Clinical faculty, and two senior medical students. 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 Pre-Medical Advisory Committee as well as other letters of recommendation. The academic record and new Medical College Admission Test furnish an estimate of academic achievement and intellectual competence.

Interviews are arranged for applicants whose qualifications appear to warrant complete exploration.

All inquiries concerning admission should be directed to the Associate Dean for Admissions, Medical Center, College of Medicine, Department of Admissions, Box 3, 12901 North 30th Street, University of South Florida, Tampa, Florida 33612.

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>Subject</th>
<th>Semester(s)</th>
<th>Quarter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Biological Science</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Mendelian Genetics (including laboratory)</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>General Chemistry (including laboratory)</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Organic Chemistry (including laboratory)</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Statistics</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Physics</td>
<td>2</td>
<td>3</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 a pass, fail, honors 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 Associate Dean for Graduate Studies, 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, under the circumstance that the applicant takes an advanced test on the GRE in his or her major and achieves a score of 600 or higher, the minimum score of 1100 may be waived by the Graduate Studies Committee (College of Medicine).

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 Graduate Studies Committee’s discretion, 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 agreed upon by the Graduate Studies Committee (College of Medicine) and 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 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 Graduate Studies Committee (College of Medicine), with its recommendation, and with the concurrence of the Associate Dean for Graduate Studies and the approval of the Dean of the College of Medicine, may be waived.

**ACADEMIC CALENDAR**

**First Academic Period—Class of 1984**

- September 2, Tuesday
- November 11, Tuesday
- November 27-28, Thursday-Friday
- December 19, Friday
- January 5, 1981, Monday
- May 25, Monday
- June 5, Monday

<table>
<thead>
<tr>
<th>Registration—Classes Begin</th>
<th>Labor Day Holiday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Veteran’s Day Holiday</td>
<td>Last Day of Basic Sciences</td>
</tr>
<tr>
<td>Thanksgiving Holidays</td>
<td>Clerks Begin</td>
</tr>
<tr>
<td>Last Day of Classes</td>
<td>Labor Day Holiday</td>
</tr>
<tr>
<td>Classes Resume</td>
<td>Thanksgiving Holidays</td>
</tr>
<tr>
<td>Memorial Day Holiday</td>
<td>Last Day of Classes</td>
</tr>
<tr>
<td>End of First Academic Session</td>
<td>Independence Day Holiday</td>
</tr>
</tbody>
</table>

**Clerkships (Second Academic Period)—Class of 1982**

- September 1, Monday
- September 12, Friday
- September 29, Monday
- November 11, Tuesday
- November 27-28, Thursday-Friday
- December 19, Friday
- January 5, 1981, Monday
- March 27, Friday
- April 6, Monday
- May 25, Monday
- July 3, Friday
- September 7, Monday
- September 18, Friday

<table>
<thead>
<tr>
<th>Labor Day Holiday</th>
<th>Last Day of Classes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last Day of Basic Sciences</td>
<td>Classes Resume</td>
</tr>
<tr>
<td>Clerks Begin</td>
<td>Labor Day Holiday</td>
</tr>
<tr>
<td>Veteran’s Day Holiday</td>
<td>Last Day of Classes</td>
</tr>
<tr>
<td>Thanksgiving Holidays</td>
<td>Classes Resume</td>
</tr>
<tr>
<td>Last Day of Classes</td>
<td>Memorial Day Holiday</td>
</tr>
<tr>
<td>Classes Resume</td>
<td>Independence Day Holiday</td>
</tr>
<tr>
<td>Labor Day Holiday</td>
<td>End of Second Academic Period</td>
</tr>
</tbody>
</table>

**Elective Program (Third Academic Period)—Class of 1981**

- September 1, Monday
- September 19, Friday
- September 29, Monday
- November 11, Tuesday
- November 27-28, Thursday-Friday
- December 19, Friday
- December 29, Monday
- January 1, 1982, Monday
- May 25, Monday
- June 12, Friday

<table>
<thead>
<tr>
<th>Labor Day Holiday</th>
<th>Last Day of Clerkships</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last Day of Clerks Begin</td>
<td>Electives Begin</td>
</tr>
<tr>
<td>Veteran’s Day Holiday</td>
<td>Thanksgiving Holidays</td>
</tr>
<tr>
<td>Last Day of Classes</td>
<td>Classes Resume</td>
</tr>
<tr>
<td>New Year’s Day Holiday</td>
<td>Memorial Day Holiday</td>
</tr>
<tr>
<td>Last Day of Elective Period</td>
<td></td>
</tr>
</tbody>
</table>

Holidays may be waived for students serving in Clinical Clerkships at the discretion of the individual Chiefs of Service.
Students in the College of Natural Sciences are trained in the tools of logical analysis and the modes of experimentation in the continuing attempt to better understand the nature of man and his relationship to the universe. In all its functions the College is dedicated to fostering a spirit of inquiry and intellectual growth.

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

In addition, the college administers advising for the pre-medical 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 36, 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 department section.

Certain courses offered in the college are designated "For non-majors," "No credit for (department) major," or "No credit for science majors," or some similar phrase. For these courses the following rules apply.

"For non-majors"—For majors in the college, the course will count as credit 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.

2. Satisfaction of the University Distribution Requirement, except:

(a) In area III, the minimum requirement of eight hours in Mathematics may be waived by credit in at least eight hours of Mathematics courses required by the major.

(b) In area IV, the minimum of eight hours in Natural Sciences may be waived by credit in at least eight hours of natural sciences courses required by the major.

3. Completion of 24 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 12 hours are taken in courses in any one department.

(b) The courses are taken with letter grade (A, B, C, D, F, I). Courses taken to satisfy the University Distribution Requirement may not be used to satisfy this requirement.

4. Subsequent to admission to the college, a student must complete at least 45 credit hours of letter graded courses in the college, of which at least 16 hours must be applicable to a major.

Up to 2 credits of elective physical education, and up to 12 credits in military science courses MIS 1010C, 3410C, 4421C may count as free electives towards graduation.

Credits transferred from other schools will not be included in the grade point average computed for graduation.

For graduation with honors, see page 39.

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

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 documentations or examination.

3. Off-Campus Term programs.

4. Cooperative Education Program.
5. Independent Study.
   A. With the exception of courses graded S/U only, all courses required to satisfy the departmental major and all supporting 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 24-hour rule must be taken by letter grade.
   B. With the exception of ENC 1102, ENC 1135, ENC 1168, 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 45 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 should be completed no later than the third week of the quarter 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 or 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 (GLY); Mathematics (MTH); Physics (PHY); 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), 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 37. 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.

PRE-MEDICAL SCIENCES

The University of South Florida is a rapidly developing center for allied health education. The nearby Tampa Veteran’s 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 practice experience. A wide variety of undergraduate programs are available, ranging from the pre-professional curricula to the bachelor degree programs in Clinical Chemistry, Health Education, Medical Technology, Nursing and Social Work. The University of South Florida also offers graduate concentrations in Medical Anthropology (M.A.), Urban Anthropology (M.A.), Clinical Psychology (Ph.D.), Gerontology (M.A.), Medicine (M.D.), Medical Sciences (Ph.D.), Rehabilitation Counseling (M.A.), Speech Pathology (M.A.), Speech Audiology (M.A.), and Aural (Re) Habilitation (M.A.). These programs are offered through five different colleges on campus: Education, Medicine, Natural Sciences, Nursing, and Social and Behavioral Sciences.

The College of Natural Sciences offers non-degree programs in pre-medical sciences, pre-veterinary medicine, pharmacy, and pre-physical therapy. The Pre-medical Sciences Program is designed for students seeking entrance into professional schools of medicine, osteopathy, dentistry, optometry, or podiatry. Students in these programs are assigned to a pre-professional adviser who will provide guidance relative to course selection, admission procedures, and entrance examinations. The Pre-Professional Advising Office maintains a library of appropriate books and catalogs of professional schools, and provides pre-professional students with quarterly records of their academic progress. The Pre-Medical Sciences Committee also prepares evaluations of students in the program seeking admission to professional schools. Students may remain in the Pre-Medical Sciences Program until admitted to a professional school or until an alternative program or major has been designated, even if the time required extends beyond the baccalaureate degree.

Pre-Medical Sciences Program

The Pre-Medical Sciences non-degree Program prepares students for admission to a professional school and therefore should be completed by the junior year, the usual time of application. In addition, pre-professional students should major in a discipline of personal preference, whether it be in the sciences or non-sciences, and fulfill all remaining requirements for graduation in the senior year.

The following pre-professional core should be completed for application to almost all professional schools of medicine, osteopathy, dentistry, optometry, and podiatry:

One year of Biology:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 2010C</td>
<td>(4)</td>
</tr>
<tr>
<td>BSC 2011C</td>
<td>(4)</td>
</tr>
<tr>
<td>BSC 2012</td>
<td>(4)</td>
</tr>
</tbody>
</table>

Two years of Chemistry:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</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>
<tr>
<td>CHM 2047</td>
<td>(3)</td>
</tr>
<tr>
<td>CHM 2047L</td>
<td>(1)</td>
</tr>
<tr>
<td>CHM 3210</td>
<td>(3)</td>
</tr>
<tr>
<td>CHM 3210L</td>
<td>(2)</td>
</tr>
<tr>
<td>CHM 3211</td>
<td>(3)</td>
</tr>
<tr>
<td>CHM 3211L</td>
<td>(2)</td>
</tr>
</tbody>
</table>

One year of Physics:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 2050</td>
<td>(4)</td>
</tr>
<tr>
<td>PHY 2050L</td>
<td>(1)</td>
</tr>
<tr>
<td>PHY 2051</td>
<td>(4)</td>
</tr>
<tr>
<td>PHY 2051L</td>
<td>(1)</td>
</tr>
<tr>
<td>PHY 2052</td>
<td>(4)</td>
</tr>
<tr>
<td>PHY 2052L</td>
<td>(1)</td>
</tr>
<tr>
<td>PHY 3040</td>
<td></td>
</tr>
<tr>
<td>PHY 3040L</td>
<td></td>
</tr>
<tr>
<td>PHY 3041</td>
<td></td>
</tr>
<tr>
<td>PHY 3041L</td>
<td></td>
</tr>
<tr>
<td>PHY 3042</td>
<td></td>
</tr>
<tr>
<td>PHY 3042L</td>
<td></td>
</tr>
</tbody>
</table>

One year of Mathematics:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 2242</td>
<td>(4)</td>
</tr>
<tr>
<td>MAC 2243</td>
<td>(4)</td>
</tr>
<tr>
<td>MAC 2244</td>
<td>(4)</td>
</tr>
<tr>
<td>MAC 1104</td>
<td>(4)</td>
</tr>
<tr>
<td>MAC 1114</td>
<td>(3)</td>
</tr>
<tr>
<td>MAC 3411</td>
<td>(5)</td>
</tr>
<tr>
<td>MAC 3412</td>
<td>(4)</td>
</tr>
<tr>
<td>MAC 3413</td>
<td>(4)</td>
</tr>
</tbody>
</table>

In addition to these requirements it is generally expected that pre-professional students will complete three quarters of English. CLEP credit generally is not acceptable to professional schools.

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCB 3063</td>
<td>(4)</td>
</tr>
<tr>
<td>STA 3023</td>
<td>(5)</td>
</tr>
<tr>
<td>BCH 3033</td>
<td>(4)</td>
</tr>
<tr>
<td>CHM 3120C</td>
<td>(5)</td>
</tr>
<tr>
<td>CHM 3400</td>
<td>(3)</td>
</tr>
</tbody>
</table>
Pre-dental students must take the following additional course to meet admission requirements of regional dental schools:

**CHM 3120 (5)**

Pre-optometry students should also include the following courses for eligibility at most optometry schools:

**MCB 3010C (5)**  **STA 3023 (5)**  **PSY 2012 (4)**

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

**Biology:**
- MCB 3010C (5)
- PCB 4024C (5)
- PCB 4184C (4)
- PCB 3063 (4)
- PCB 4253C (5)
- ZOO 3713C (6)
- PCB 4023C (5)
- PCB 4743 (5)

**Chemistry:**
- BCH 3033 (4)
- CHM 3401 (3)
- CHM 3120C (5)
- CHM 3400 (3)

Beyond science course requirements and recommendations, it is essential that students pursue courses developing a sense of understanding of cultural and humane values, and basic social problems. The quality of academic performance in preparation for professional school should be of the highest level. 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 pre-professional work.

**Pre-Veterinary Medicine Program**

The Pre-Veterinary Medicine Program is designed to meet 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)
- BSC 2011C (4)
- BSC 2012 (4)
- PCB 3063 (4)
- MCB 3010C (5)

**Chemistry:**
- CHM 2045 (3)
- CHM 2045L (1)
- CHM 2046 (3)
- CHM 2046L (1) or CHM 2055C (5)
- CHM 2047 (3)
- CHM 2047L (1)
- CHM 3210 (3) CHM 3211L (2)
- CHM 3210L (2) CHM 3120C (5)
- CHM 3211 (3) BCH 3033 (4)

**Physics, minimum of 10 hours:**
- PHY 2050 (4)
- PHY 2050L (1) PHY 3040 (3)
- PHY 2051 (4) PHY 3040L (1)
- PHY 2051L (1) or PHY 3041L (1)
- PHY 2052 (4) PHY 3042 (3)
- PHY 2052L (1) PHY 3042L (1)

In addition, students must include 9 hours of English, including one course in composition (CLEP is not acceptable); 9 hours of social science; 12 hours of humanities; and a minimum of 10 hours of Animal Science courses, which should be completed at the University of Florida no later than the summer prior to application.

**Pre-Pharmacy Program**

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

**One year of Biology:**
- CHM 2045 (3)
- CHM 2045L (1)
- CHM 2046 (3)
- CHM 2046L (1) or CHM 2055C (5)
- CHM 2047 (3)
- CHM 2047L (1)

**One year of Chemistry:**
- CHM 2045 (3)
- CHM 2045L (1)
- CHM 2046 (3)
- CHM 2046L (1) or CHM 2055C (5)
- CHM 2047 (3)
- CHM 2047L (1)

A minimum of 10 hours of Physics:
- PHY 2050 (4) PHY 3040 (3)
- PHY 2050L (1) PHY 3040L (1)
- PHY 2051 (4) PHY 3041 (3)
- PHY 2051L (1) or PHY 3041L (1)
- PHY 2052 (4) PHY 3042 (3)
- PHY 2052L (1) PHY 3042L (1)

In addition to the above sequences pre-physical therapy students must include: a minimum of 8 hours of mathematics including calculus (a course in statistics is recommended), 10 hours of English, and 5 hours of economics must be taken.

Pre-pharmacy students should take the Pharmacy College Admission Test in November of the sophomore year and apply to pharmacy schools at that time.

**Pre-Physical Therapy Program**

A two-year curriculum is offered to prepare students for entrance into physical therapy programs at Florida International University and the University of Florida.

Pre-physical therapy students must include the following courses:

**One year of Biology:**
- BSC 2010C (4)
- BSC 2011C (4)
- BSC 2012 (4)

**One year of Chemistry:**
- CHM 2045 (3)
- CHM 2045L (1)
- CHM 2046 (3)
- CHM 2046L (1) or CHM 2055C (5)
- CHM 2047 (3)
- CHM 2047L (1)

**A minimum of 10 hours of Physics:**
- PHY 2050 (4) PHY 3040 (3)
- PHY 2050L (1) PHY 3040L (1)
- PHY 2051 (4) PHY 3041 (3)
- PHY 2051L (1) or PHY 3041L (1)
- PHY 2052 (4) PHY 3042 (3)
- PHY 2052L (1) PHY 3042L (1)

In addition to the above sequences pre-physical therapy students must include: a minimum of 8 hours of mathematics, including college algebra or more advanced mathematics; ZOO 3713C, Comparative Vertebrate Anatomy; and two courses in psychology.

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

Students who are admitted to a 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 45 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. 135 hours with at least a "C" average (2,000).
   - B. Completion of a minimum of 36 hours in the department of major concentration and a minimum of 24 hours in supporting courses in the College of Natural Sciences outside the department of major concentration. The 36 hours in the department of major
concentration must be in courses applicable to a major in that department. The 24 hours in supporting courses must also be in courses applicable to a major in that department and must include a minimum of three courses at the 3000 level or above. At least a "C" must be earned in each course in both major concentration and supporting courses, except for courses graded S/U only.

3. Credit in the following courses:

   Biology:
   - BSC 2010C (4)
   - BSC 2011C (4)
   - BSC 2012 (4)

   Chemistry:
   - CHM 2045 (3)
   - CHM 2045L (1)
   - CHM 2046 (3)
   - CHM 2046L (1) or CHM 2056C (5)
   - CHM 2047 (3)
   - CHM 2047L (1)
   - CHM 3210 (3) or CHM 3211L (2)
   - CHM 3210L (2) or CHM 3212 (3)
   - CHM 3211 (3) or CHM 3212L (2)

   Physics:
   - PHY 2050 (4)
   - PHY 2050L (1) or PHY 3040L (3)
   - PHY 2051 (4) or PHY 3041 (3)
   - PHY 2051L (1) or PHY 3041L (1)
   - PHY 2052 (4) or PHY 3042 (3)
   - PHY 2052L (1) or PHY 3042L (1)

4. A minimum of 30 credits from the following courses:

   Biology:
   - PCB 3063 (4)
   - PCB 4253C (5)
   - MCB 3010C (5)
   - PCB 4023C (5)
   - ZOO 3713C (6)
   - PCB 4184C (4)
   - PCB 4024C (5)
   - PCB 4743C (5)

   Chemistry:
   - BCH 3033 (4)
   - CHM 3401 (3) or CHM 3120C (5)
   - CHM 3400 (3)

   Mathematics:
   - STA 3023 (5)
   - MAC 1004 (4)
   - MAC 2242 (4)
   - MAC 1114 (3)
   - MAC 2243 (4) or MAC 3411 (3)
   - MAC 2244 (4)
   - MAC 3412 (4)
   - MAC 3413 (4)

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

GRADUATE LEVEL DEGREE PROGRAMS

Programs of graduate study are available in every department of the College of Natural Sciences. Students apply for graduate work through the College of Natural Sciences and are recommended for admission by the department in which they intend to concentrate. A departmental committee is appointed which supervises and guides the program of the candidate. The general University requirements for graduate work at the master's level are given on page 46 and for the Ph.D. degree on page 51. The specific requirements for each department are listed under that department below. For further information regarding admission and the availability of fellowships and assistantships a candidate should write to the appropriate departmental chairperson, University of South Florida, Tampa, Florida 33620.

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).

6. At least 45 credit hours with letter grades earned in the College of Natural Sciences.

7. The last 45 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.

Post-baccalaureate Pre-Medical Sciences Program

A special two-year non-degree program is administered by the Pre-medical 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 Pre-Medical 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 Pre-Medical 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 quarter (excluding summers) of courses approved by the Pre-Medical Sciences Committee with a minimum grade point average of 3.3 each quarter. 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 pre-medical 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 additional quarters or a second year may be necessary for some students. Students lacking adequate familiarity with the profession will be expected to obtain adequate exposure while enrolled in the program.

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.

Oceanography (OCE)—This cooperative program with Florida State University leads to the Ph.D. in Oceanography.

College Regulations Governing Graduate Study

The following regulations are in addition to the University regulations governing graduate study found on pages 46-51.
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 who do not meet either of the above conditions must meet the 10% exception criteria described on page 46 and 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 full-time 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 thesis and/or dissertation each quarter other than the summer quarter, except that no student shall be required for the purposes of this rule to enroll for more than eight hours total. 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 quarter in which all degree requirements are satisfactorily completed.

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 thesis credits be less than nine.

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 dissertation credits be less than 24. Students not admitted to candidacy are not eligible to enroll in 7980.

All Graduate Students. Students in a graduate program in the College of Natural Sciences must be either active or on leave of absence granted by the department. Students on active status must register for a minimum of one hour of graduate level course work each quarter.

During any quarter that a student is utilizing research space, other university facilities, faculty/staff time, or completing any requirements for the degree including thesis (dissertation) defense or approval, the student must register for a minimum of three graduate credit hours.

A maximum of 15 credit hours (nine for physics graduate students) of combined thesis, research, and seminar courses may apply towards a degree.

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 133. This major is particularly appropriate for Science Education majors (SCE).

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

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 46. Mathematics majors must complete a minimum of 51 quarter hours; science majors must complete at least 27 quarter hours in the discipline of concentration. For requirements in education the student should consult the College of Education portion of this catalog entitled “Master’s Level Degree Programs—Science Education (SCE).”

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 Col-
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:**

I. Department of Biology Courses

A. Biology Core Courses (Required for all B.A. degrees, 35 or 36 cr.)

- BSC 2010C (4)
- BSC 2011C (4)
- BSC 2012 (4)
- PCB 3063 (4)
- PCB 4023C (5)
- PCB 4024C (5)
- PCB 4043C (4)

Physiology (choice of course for all programs as indicated):

- BOT 4503 (3)
- MCB 4030L (3)
- and MCB 4404 (3)
- PCB 4734C (5)

B. Individual Degree Requirements

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

- 25 credit hours in Biology department courses in consultation with adviser (maximum of 5 hours in BSC 4910).

**BOTANY MAJOR (BOT) (20 cr. hrs.)**

- BOT 3010 (5)
- BOT 4503 (0)
- Other BOT courses (15)

**MICROBIOLOGY MAJOR (MIC) (26-27 cr. hrs.)**

- APB 4033C (5) or PCB 5235C (4)
- MCB 3010C (5)
- MCB 4115 (4) or MCB 5206 (4)
- MCB 4163L (3)
- MCB 4505C (4)
- MCB 4603L (0)
- MCB 4404 (0)
- MCB 4934 (1)
- and one of the following:
- APB 5575C (5)
- BOT 5405C (5)
- ZOO 5235C (5)
- BOT 4434C (5)

- MCB 3010C (5)
- MCB 4115 (4) or MCB 5206 (4)
- MCB 4163L (3)
- MCB 4505C (4)
- MCB 4603L (0)
- MCB 4404 (0)
- MCB 4934 (1)

II. Supporting Courses in the Natural Sciences (Required for all B.A. degrees, 42 or 44 cr.)

- CHM 2045 (3)
- CHM 2045L (1)
- CHM 2046 (3) or CHM 2045L (1) or CHM 2055 (5)
- CHM 2047 (3)
- CHM 2047L (1)
- CHM 3210 (3) or PHY 2050 (4)
- CHM 3210L (2) or PHY 2050 (4) PHY 2051L (4)
- CHM 3211 (3) or PHY 2051 (4)
- CHM 3211L (2) or PHY 2051L (4)
- Mathematics (12)

Three courses in mathematics chosen from the following to attain 12 credits: MAC 2242 (4) MAC 3412 (4) MGF 2202 (4)

- MAC 2243 (4) MAC 3413 (4) STA 3023 (5)
- MAC 2244 (4) MAC 3414 (4) STA 3404 (5)
- MAC 3411 (5) MAS 3103 (4)

III. General Distribution Requirements (Required for all B.A. Degrees, 60 cr.)

- Each student is required to satisfy the General Distribution requirements of the College of Natural Sciences (see page 124). The selection of courses within the requirement is to be done in consultation with Biology Department advisers.

IV. Liberal Education Electives

- The student must satisfy 24 hours of liberal education electives as described in item 3 of the graduation requirements of the College of Natural Sciences. (See page 124.)

V. Free Electives (including General Distribution waivers) can be taken over and above major requirements and major electives to complete a 180 hour program.

**Teacher Education Programs:**

For information concerning the degree programs for secondary school teachers and junior college teachers, see pages 95 and 86 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. Undergraduates interested in specializing in marine biology may do so by taking marine-oriented courses offered within the department.

Appropriate courses include:

- BOT 5185C (Marine Botany)
- BOT 5405C (Phycology)
- ZOO 3203C (Introductory Invertebrate Zoology)
- ZOO 5285C (Echinoderm Biology)
- ZOO 5455C (Ichthyology)
- ZOO 5555C (Marine Animal Ecology)
- ZOO 5815C (Zoogeography)

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 46.

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 three quarters 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 45 credit hour minimum is required at the 5000-6000 level; 24 must be at the 6000 level or above; 30 of the 45 credit hours must be in formally structured courses. 24 credits must be at the 6000 level or above; 22 must be in biology; 12 of the 22 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 15 hours of combined thesis, research, and seminar may apply toward degree.

For students enrolled in the non-thesis program, a 45 credit hour minimum is required at the 5000-6000 level; 40 credits must be in formally structured courses. 24 credits must be at the 6000 level or above; 22 must be in biology; 12 of the 22 credit hours must be at the 6000 level or above. All students in the non-thesis program must complete the graduate seminar (BSC 6935). A maximum of 15 hours of combined thesis, research, and seminar may apply toward degree. A final comprehensive examination on basic biology 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 quarter 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 51. 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), 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 graduation 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 three quarters after matriculation. Applicants are strongly urged to contact faculty conducting research in the student's areas 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.

Thirty 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 nine 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 15 credits with the approval of the supervisory committee. A total of 135 credits above the baccalaureate must be earned; this includes any graduate credit earned prior to admission to the doctoral program.

A diagnostic examination is required of all doctoral students the first quarter after matriculation; the examination covers molecular, cellular, organismal, and supra-organismal biology. On the basis of this examination, a student may be required to take courses in areas in which he is found deficient.

Doctoral students must pass a qualifying examination. The written preliminary portion covering the major areas of biology and the oral advanced portion in the student's general field must be taken within six quarters after matriculation. Any language or other technical skills required by the supervisory committee must be completed within six quarters after matriculation. If the doctoral 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 examination, 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:

Applications must be completed by February 15 for Quarter I applicants who wish to be considered for assistantships. All other applications must be completed by the fourth week of the quarter preceding the one for which you are applying.

■ CHEMISTRY (CHS/CHM/CHC)

The Department of Chemistry offers three degrees at the baccalaureate level, Bachelor of Arts degree in Chemistry, Bachelor of Science degree in Chemistry, and Bachelor of Science degree in Clinical Chemistry, and two degrees, Master of Science and Doctor of Philosophy, each with specialization in the areas of analytical chemistry, biochemistry, inorganic chemistry, organic chemistry, and physical chemistry, at the graduate level. 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 bioorganic and bio-inorganic chemistry, clinical chemistry, environmental chemistry, lasers and photochemistry, marine chemistry, photoelectron spectroscopy (ESCA), and pharmaceutical chemistry.

**Requirements for the Baccalaureate Degrees**

I. Chemistry Courses *

<table>
<thead>
<tr>
<th>B.A. CHEMISTRY (CHM) (54 cr. hrs.)</th>
<th></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>
<tr>
<td>CHM 2047</td>
<td>(3)</td>
</tr>
<tr>
<td>CHM 2047L</td>
<td>(1)</td>
</tr>
<tr>
<td>CHM 3120C</td>
<td>(5)</td>
</tr>
<tr>
<td>CHM 3120L</td>
<td>(2)</td>
</tr>
<tr>
<td>CHM 3121</td>
<td>(3)</td>
</tr>
<tr>
<td>CHM 3121L</td>
<td>(2)</td>
</tr>
<tr>
<td>CHM 3122</td>
<td>(3)</td>
</tr>
<tr>
<td>Chemistry electives (3000 level or above; may include not more than one hour of CHM 4970)</td>
<td>(8)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B.S. CHEMISTRY (CHS) (65 cr. hrs.)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BCH 3033</td>
<td>(4)</td>
</tr>
<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>
<tr>
<td>CHM 2047</td>
<td>(3)</td>
</tr>
<tr>
<td>CHM 2047L</td>
<td>(1)</td>
</tr>
<tr>
<td>CHM 3120C</td>
<td>(5)</td>
</tr>
<tr>
<td>CHM 3120L</td>
<td>(2)</td>
</tr>
<tr>
<td>CHM 3121</td>
<td>(3)</td>
</tr>
<tr>
<td>CHM 3121L</td>
<td>(2)</td>
</tr>
<tr>
<td>CHM 4130C</td>
<td>(4)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B.S. CLINICAL CHEMISTRY (CHC) (66 cr. hrs.)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BCH 3033</td>
<td>(4)</td>
</tr>
<tr>
<td>BCH 3033L</td>
<td>(3)</td>
</tr>
<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>
<tr>
<td>CHM 2047</td>
<td>(3)</td>
</tr>
<tr>
<td>CHM 2047L</td>
<td>(1)</td>
</tr>
<tr>
<td>CHM 3120C</td>
<td>(5)</td>
</tr>
<tr>
<td>CHM 3120L</td>
<td>(2)</td>
</tr>
<tr>
<td>CHM 3121</td>
<td>(3)</td>
</tr>
<tr>
<td>CHM 3121L</td>
<td>(2)</td>
</tr>
<tr>
<td>CHM 4130C</td>
<td>(4)</td>
</tr>
</tbody>
</table>

CHM 3212 | (3) |
CHM 3212L | (2) |
CHS 4300 | (4) |
CHS 4301 | (4) |

II. Supporting Courses in the Natural Sciences

<table>
<thead>
<tr>
<th>B.A. CHEMISTRY (CHM) (35 cr. hrs.)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 2243</td>
<td>(4)</td>
</tr>
<tr>
<td>PHY 2051L</td>
<td>(1)</td>
</tr>
<tr>
<td>MAC 2244</td>
<td>(4)</td>
</tr>
<tr>
<td>PHY 2051</td>
<td>(4)</td>
</tr>
<tr>
<td>MAC 2050</td>
<td>(4)</td>
</tr>
<tr>
<td>PHY 2051L</td>
<td>(1)</td>
</tr>
<tr>
<td>Electives (must be acceptable for credit towards a Natural Science College discipline major)</td>
<td>(12)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B.S. CLINICAL CHEMISTRY (CHC) (54-60 cr. hrs.)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 2010C</td>
<td>(4)</td>
</tr>
<tr>
<td>BSC 2011C</td>
<td>(4)</td>
</tr>
<tr>
<td>BSC 2012</td>
<td>(4)</td>
</tr>
<tr>
<td>MAC 3281</td>
<td>(4)</td>
</tr>
<tr>
<td>MAC 3282</td>
<td>(4)</td>
</tr>
<tr>
<td>MAC 3283</td>
<td>(3)</td>
</tr>
<tr>
<td>MCB 3010C</td>
<td>(5)</td>
</tr>
<tr>
<td>PHY 2050</td>
<td>(4)</td>
</tr>
<tr>
<td>PHY 2050L</td>
<td>(1)</td>
</tr>
<tr>
<td>PHY 2051</td>
<td>(4)</td>
</tr>
<tr>
<td>PHY 2051L</td>
<td>(1)</td>
</tr>
<tr>
<td>PHY 2052</td>
<td>(4)</td>
</tr>
<tr>
<td>PHY 2052L</td>
<td>(1)</td>
</tr>
<tr>
<td>PCB 3700</td>
<td>(4)</td>
</tr>
<tr>
<td>PCB 4743C</td>
<td>(5)</td>
</tr>
<tr>
<td>PHY 2050</td>
<td>(4)</td>
</tr>
<tr>
<td>PHY 3410</td>
<td>(3)</td>
</tr>
<tr>
<td>PHY 3410L</td>
<td>(1)</td>
</tr>
<tr>
<td>PHY 3410L</td>
<td>(1)</td>
</tr>
<tr>
<td>PHY 3412</td>
<td>(3)</td>
</tr>
<tr>
<td>PCB 3700</td>
<td>(4)</td>
</tr>
<tr>
<td>PCB 4743C</td>
<td>(5)</td>
</tr>
<tr>
<td>PHY 2050</td>
<td>(4)</td>
</tr>
<tr>
<td>PHY 3410</td>
<td>(3)</td>
</tr>
<tr>
<td>PHY 3410L</td>
<td>(1)</td>
</tr>
<tr>
<td>PHY 3412</td>
<td>(3)</td>
</tr>
<tr>
<td>PHY 3412L</td>
<td>(1)</td>
</tr>
<tr>
<td>Physics elective (3000-4000 level except PHY 3020)</td>
<td>(3)</td>
</tr>
</tbody>
</table>

III. General Distribution Courses

(60 cr. hrs. excluding waivers)

The student is required to complete the General Distribution requirements of the College of Natural Sciences (see page 124).

IV. Liberal Education Electives

The student must satisfy 24 hours of liberal education electives as described in item 3 of the graduation requirements of the College of Natural Sciences. (See page 124.)

V. Free Electives† (Including General Distribution waivers)

<table>
<thead>
<tr>
<th>B.A. CHEMISTRY (CHM); 43 cr. hrs.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>B.S. CHEMISTRY (CHS); 34-37 cr. hrs.</td>
<td></td>
</tr>
<tr>
<td>B.S. CLINICAL CHEMISTRY (CHC); 6-12 cr. hrs.</td>
<td></td>
</tr>
</tbody>
</table>

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.

†Students taking CHM 2055C-2056C must add 2 more hours of free electives.

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 pages 95 and 86 of this Catalog.

Requirements for the M.S. Degree:
General requirements for graduate work are given on page 46.

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 5621  CHM 6150  CHM 5225

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 enrollment. Students failing to qualify by examination in a particular area will be required to obtain at least a grade of "B" in an undergraduate course determined by the appropriate division. Qualifying requirements must be completed within one calendar year (4 quarters) of initial enrollment.

Course Requirements
Each student is required to pass graduate (5000) level core courses (4 quarter hours each) in all five divisional areas. These courses will constitute the Comprehensive Examination and contribute to the minimum course requirement of 45 quarter hours of which 24 quarter hours must be at the 6000 level with 15 of these in formal regularly scheduled courses. However, a graduate student may not take a core course or any other graduate course in a given area until he/she has qualified in that area or has met the above qualifying requirements.

Final Thesis Defense
Upon 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 four of the five divisional areas—Analytical, Biochemistry, Inorganic, Organic and Physical Chemistry during the week prior to enrollment; and two of these examinations (one of which is in the student's major area) must be passed with distinction. Students failing to qualify by examination in a particular area will be required to obtain a grade of B (pass) or A (pass with distinction) in an undergraduate course to be determined by the appropriate division. Qualifying requirements must be completed within one calendar year (4 quarters) of initial enrollment.

Course Requirements
Each student is required to pass graduate core courses of 4 quarter hours each at the 5000 level in all five divisional areas. These will contribute to the minimum course requirement of 135 quarter hours of which 16 must be in structured 6000-level chemistry courses. However, a graduate student may not take a core course or any other graduate course in a given area until he/she has qualified in that area or has met the qualifying requirements for the Ph.D. degree.

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 taken 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 (nine quarters 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 quarter. At the end of the additional quarter (the 10th quarter 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 quarter 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 Director of Graduate Studies at least two weeks before the end of the quarter.

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 Examining Committee, which shall include the Chairperson.

GEOLOGY (GLY)

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. This bachelor's degree program is designed to provide the geology major with a broad foundation that will prepare him for employment in industry or with various governmental agencies as well as the necessary training to continue study in graduate school.

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:

1. Geology Courses (51 cr. hrs.)
   GLY 2016 (4) GLY 3400 (4) GLY 4210 (4)
   GLY 2017 (4) GLY 3610 (5) GLY 4220 (4)
GLY 2100 (4)  GLY 4200 (4)  GLY 4550 (4)
GLY structured electives (12)
A minimum of 2 cr. hrs. from:
 GLY 4920 (1)

II. Supporting Courses (34-41 cr. hrs.)
CHM 2045 (3)  CHM 2045L (1)
CHM 2046 (3)  CHM 2046L (1)
CHM 2047 (3)  CHM 2047L (1)

Three courses in mathematics chosen from the following to attain 12 credits:
MAC 2243 (4)  MAC 3281 (4)
MAC 2244 (4)  MAC 3282 (4)
MAC 3411 (5)  MAC 3283 (3)
MAC 3412 (4)  MAS 3103 (4)
MAC 3413 (4)  STA 3023 (5)
PHY 2050 (4)  PHY 3040 (3)
PHY 2050L (1)  PHY 3040L (1)
PHY 2051 (4)  PHY 3041 (3)
PHY 2051L (1)  PHY 3041L (1)
PHY 2052 (4)  PHY 3042 (3)
PHY 2052L (1)  PHY 3042L (1)

III. General Distribution Courses (60 cr. hrs. excluding waivers.)
The student is required to satisfy the General Distribution requirements of the College of Natural Sciences. (See page 124.)

IV. Liberal Education Electives
The student must satisfy 24 hours of liberal education electives as described in item 3 of the graduation requirements of the College of Natural Sciences (see page 124.)

V. Free Electives (Including Distribution waivers) (40-47 cr. hrs.)
The student will choose, in consultation with his Geology adviser, such courses in the College of Natural Sciences that support his 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 and to attend a summer field camp.

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

GLY 2106  CHM 2045  CHM 2046L
GLY 2117  CHM 2045L  CHM 2047
GLY 2100  CHM 2046  CHM 2047L

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

Minor in Geology
A minor in geology consists of 24 credit hours and must include GLY 2106, 2017, and 2100. Additional courses approved by the geology adviser, are designed to complement the student's major program. Only those courses which are acceptable toward the major in geology may be used toward the minor.

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 Division of Graduate Studies and general graduate curriculum guidelines are given on page 46.

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 45 credit hours (excluding GLY 6940) is required for the master's degree of which a minimum of 24 credits must be in courses numbered 6000 or above. All graduate students must take Graduate Seminar (GLY 6931) at least three times and GLY 6932 two times.

All students must complete one course in each of the following areas: geochemistry, geophysics, geostatistics and igneous and metamorphic petrology or their equivalents. All full-time students must register for at least one structured course per quarter 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 third quarter 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 128, and also consult the College of Education section of the catalog.

The requirements for graduation in this degree are the same as those contained on page 124 except that item 1 of the requirement is altered as follows:

1a. Completion of a major program consisting of a minimum of 68 hours in College of Natural Sciences courses. In these hours there must be a minimum of 36 credit hours in a discipline of major concentration and a minimum of 24 credit hours in supporting courses in the College of Natural Sciences outside the discipline of major concentration. All courses in the major program must be applicable to a major in that department and must have the approval of the student's adviser. At least three of the supporting courses must be at the 3000 level or above. The student must earn a grade of "C" or better in each course in the major concentration and in each supporting course.

MARINE SCIENCE (MSC)

Marine Science has been designated by the Board of Regents and the University as an academic Center of Excellence, the first such Center for USF. The Department is devoted to research, graduate training, and public service in oceanography. It is located on a peninsula at Bayboro Harbor adjacent to downtown St. Petersburg.

Headquarters for the newly organized Florida Institute for Oceanography are located in the same building as the Department of Marine Science. FIO serves faculty members doing research in oceanography at all of the institutions in the State University System. It provides ship time, utilizing the 65' R/V Bellow, and a variety of shipboard equipment.

The Department owns a number of small boats, vehicles, and other field equipment. Its specialized laboratories include those for trace metal work, water quality, organic and isotopic geochemistry, optical oceanography, particle dynamics, sedimentology, micropaleontology, benthic ecology, marine physiology, phycology, bacteriology, ichthyology, and planktonology.
Student Admission

Prospective students with baccalaureate degrees in biology, chemistry, geology, or physics 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 parts) are encouraged to apply for the Master of Science Program.

Admission to the Ph. D. Program will be more selective than for the M.S. Program. In addition to meeting the GPA and GRE standards noted above, other factors such as the research interest of the prospective student and the availability of suitable laboratory space and equipment, will be considered.

The Department has graduate scholarship and assistantship funds at its disposal 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 beginning at the start of the academic year in September are urged to have their applications completed by March 1. Awards of scholarships and assistantships will generally be announced on April 1.

All materials for students entering Quarter IV or I should reach the Department by March 1; for those wishing to enter Quarter II and III, materials should be in by October 15. Departmental regulations governing the graduate program are detailed in the Student Handbook available in the departmental office.

Requirements for the M.S. Degree:

General requirements are given on pages 46-51. A minimum of 45 credits must include OCC 5050, OCG 5050, OCP 5051, and OCB 5050. 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 Oceanography is offered in cooperation with the Department of Oceanography at Florida State University. Students may apply to USF and, if accepted, will work under a USF professor. A student’s committee will be comprised of faculty members from both institutions. Residency requirements — three quarters of consecutive course work in which the student must register for 12 hours — may be met on either campus. A minimum of 135 hours after the bachelor’s degree is required.

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, or physics.

An adviser will be appointed by the chairperson of the USF Department for each student during his first quarter of residency. By the third quarter of residency, a major professor shall be selected. Designation of the major professor will be made by the Department chairperson upon a recommendation from the student and faculty member concerned.

Any member of the graduate faculty at either university (USF or FSU) may serve on a doctoral committee but the majority must have 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 appointment shall be by agreement between the two department chairpersons (USF and FSU).

The student’s doctoral committee will supervise the written and oral examinations for admission to Ph. D. candidacy. The qualifying examination will be open to the faculty of both institutions with questions solicited from the entire faculty. The doctoral committee will also conduct the dissertation defense which will be open to the general faculty. The chairperson of the final examination shall be someone outside either department; a seminar will be presented by the candidate beforehand.

### 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 association 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 Physics, and the Colleges of Engineering and Medicine, the department offers special Ph. D. programs in the applications of mathematics.

The department is composed of four areas of concentration. These are as follows:

1. **Algebra and Topology**
   - Number theory, algebraic coding theory, general topology, topological semigroups.

2. **Analysis**
   - Real analysis, complex analysis, abstract harmonic analysis, abstract measure theory, approximations and expansions, functional analysis, geometric function theory.

3. **Applied Mathematics and Computer Science**
   - Analysis of algorithms, differential equations, integral equations, numerical analysis.

4. **Statistics**
   - Biomathematics, theory of probability and statistics, reliability theory, information theory, stochastic modeling in the life sciences and engineering, stochastic systems, and time series.

There are 30 faculty members in the department and about 50 graduate students. 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 370/165-11.

### Requirements for the B.A. Degree

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

#### 1. Mathematics Requirement (Min. 49 cr. hrs.)

**Program I**
- **COP 3215** (4)
- **MAC 3414** (4)
- **MAA 4211** (3)
- **MAC 3411** (5)
- **MHF 3102** (3)
- **MAA 4212** (3)
- **MAC 3412** (4)
- **MAS 3103** (4)
- **MAA 4156** (3)
- **MAC 3413** (4)

**Program II**
- **MAP 4302** (4)
- **MAA 5306-5307** (8)
- **MAS 5146** (4)
- **MAA 5402-5403** (8)
- **STA 4442** (4)
- **MAS 5311-5312** (8)
- **MTG 5316-5317** (8)

**Program II**
- **MAP 4302** (4)
- **MAA 5306-5307** (8)
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 (21-26 cr. hrs.)

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

1. EGN 3343, EGN 3344, and one of: EGN 3175, EGN 3373, EGN 3374, or EGN 3375.
2. GL 1020, GL 1022, and one of the sequences: GL 1020, GL 1022, GL 1024, or GL 1026.
3. EGN 3343, EGN 3344, and one of: EGN 3373, EGN 3374, or EGN 3375.
4. GL 1020, GL 1022, and one of the sequences: GL 1020, GL 1022, GL 1024, or GL 1026.
5. EGN 3313, EGN 3321, and one of: EGN 3373, EGN 3374, or EGN 3375.

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

III. General Distribution Courses (60 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 1010, FRE 1015, FRE 1025
- GER 1010, GER 1020, GER 1030
- GER 1010, GER 1020, GER 1030
- GER 1010, GER 1020, GER 1030
- GER 1010, GER 1020, GER 1030
- RUS 1010, RUS 1020, RUS 1030
- RUS 1010, RUS 1020, RUS 1030

IV. Liberal Education Electives

The student must satisfy 24 hours of liberal education electives as described in item 3 of the graduation requirements of the College of Natural Sciences (see page 124).

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

**Fall Quarter (I)**
- MAC 1104
- MAC 1114

**Winter Quarter (II)**
- MAC 3411
- MAC 3412
- MHF 3102

**Spring Quarter (III)**
- MAC 3413
- MAC 3414
- Two Mathematics electives

Students with a strong background in high school mathematics may omit either or both MAC 1104, MAC 1114 with the consent of the chairperson.

Teacher Education Programs:

For information concerning the degree programs for secondary school teachers and junior college teachers, see pages 90, 91, and 86 of this Catalog.

Mathematics Minor

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

- Total credit hours required: 37 (minimum)
  - MAC 3411-3414 (17) Calculus I-IV or equivalent
  - MIF 3102 (3) Set Theory
  - MAS 3103 (4) Linear Algebra
  - COP 3215 (4) Introduction to Computer Programming with Mathematics Applications (or 4 hours of approved programming BASIC, FORTRAN, or PL I)

Majors in mathematics may omit the following courses:

2. CHM 2045, 2045L, 2046, 2046L, 2047, 2047L or CHM 2055C, 2056C
3. GL 2016, GLY 2017, GLY 2100
4. ECO 2023, ECO 2032, and one of ECO 3101 or ECO 3203
5. EGN 3373, EGN 3374, or EGN 3375
6. EGN 3343, EGN 3344, or one of EMC 3103 or EMC 3117
7. EGN 3313, EGN 3321, and EGN 3331
8. PHY 3040, PHY 3040L, PHY 3041, PHY 3041L, and PHY 3042, PHY 3042L
9. PSY 2012, PSY 3013, PSY 3213

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

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

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

**Fall Quarter (I)**
- MAC 1104
- MAC 1114

**Winter Quarter (II)**
- MAC 3411
- MAC 3412
- MHF 3102

**Spring Quarter (III)**
- MAC 3413
- MAC 3414
- Two Mathematics electives

Requirements for the M.A. Degree:

General requirements for graduate work are given on page 46.

A thesis is optional. The thesis program requires a minimum of 45 credits of course work (excluding MAT 6945), of which the thesis may carry three to nine credits. The non-thesis program requires 45 credits of course work. In either case, 24 hours of the course work must be taken in courses numbered 6000 or above and the program must total at least 45 credits.

The course of study is flexible and interdisciplinary work is encouraged.

The areas of specialization include the following:

- Algebra and Topology
- Analysis
- Applied Mathematics and Computer Science
- Statistics

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 areas:

1. Algebra (MAS 5146, MAS 5311, MAS 5312)
2. Topology (MTG 5316, MTG 5317)
3. Real Analysis (MAS 5306, MAS 5307)
4. Complex Analysis (MAS 5402, MAS 5403; or MAS 5405, MAS 5403)
5. Probability (STA 5446, STA 5447)
6. Mathematical Statistics (STA 5326, STA 6327)
7. Applied Statistics (STA 5166, STA 5167)
8. Differential Equations (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 requirement.

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 51, 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, 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 quarter of course work in each of the five categories not represented by his/her four qualifying examinations. 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 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 hospitals.

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 135 credit hours of work (excluding physical education courses). Of these hours, at least 30 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 24 hours is required with at least one course in microbiology and one course in immunology. Physiology (PCB 3700 or PCB 4743C) is strongly recommended.

2. Chemistry
A minimum of 24 hours is required including organic chemistry. Biochemistry (BCH 3033), Elementary Analytical Chemistry (CHM 3120C) and Clinical Chemistry (CHS 4300) are strongly recommended.

3. Physics
A minimum of 12 hours (one full-year majors-type course) is required.

4. Mathematics
One course in mathematics (above the level of MGF 1203) 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 45 credit hours of work in:

- 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 excellent equipped classrooms and laboratories provide an outstanding environment for students. Opportunities for undergraduate students to participate in research projects with professors and graduate students form an integral part of the undergraduate experience. Undergraduate students have engaged in research efforts to the extent that their work has 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, experimental gaseous electronics, elementary particle theory, and biophysics. Supporting facilities include an IBM 370/165-II 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 are often available to qualified students. A supervised study hall is available where students may obtain help with their course work at their convenience throughout each week day.

Requirements for the Baccalaureate Degrees:

1. Physics Courses
   - B.A. PHYSICS (PHY) (49 cr. hrs.)
     - PHY 3040 (3)
     - PHY 3040L (1)
     - PHY 3041 (3)
     - PHY 3041L (1)
II. Supporting Courses in the Natural Sciences

B.A. and B.S. PHYSICS (63 cr. hrs.)

CHM 204S (3)
CHM 204L (1)
CHM 204L* (3)
CHM 204L* (1)
CHM 204L* (3)
CHM 204L* (1)
CHM 204L* (3)
MAC 3411 (5)
MAC 3412 (4)
MAC 3413 (4)
MAC 3414 (4)
MAP 4302 (4)

*The sequence CHM 205C (5) and CHM 205C (5) may be substituted for the sequence indicated.

III. General Distribution Requirements

(60 cr. hrs. excluding waivers)

The student is required to complete the General Distribution requirements of the College of Natural Sciences (see page 124). Selection of a foreign language, preferably French, German, or Russian, is also strongly recommended.

IV. Liberal Education Electives

The student must satisfy 24 hours of liberal education electives as described in item 3 of the graduation requirements of the College of Natural Sciences (see page 124).

V. Free Electives (including general distribution waivers)

B.A. PHYSICS (PHY): 43-54 cr. hrs.
B.S. PHYSICS (PHS): 31-43 cr. hrs.

Teacher Education Programs:

For information concerning the degree programs for secondary school teachers and junior college teachers, see pages 95, 96, and 86 of this catalog.

Requirements for the M.A. Degree:

General requirements are given on page 46. When admitted to the graduate program in physics, a student will consult with the Graduate Physics Adviser, who will be the student’s course adviser and will also keep a close check on the progress 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 Committee appointed by the department chairperson. The Supervisory Committee 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 45 credits no more than nine of which may be for PHY 6911, PHY 6935 and PHY 6971. Of these 45 credits, 24 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 examination before recommending that a degree be granted.

The student desiring the M.A. degree without a thesis is required to take a minimum of 45 credits (excluding PHY 6940), no more than three of which may be for PHY 6911 and PHY 6935. Of these 45 credits, 24 must be in courses numbered 6000 or above. Required courses are:

PHS 5113  PHS 5115  PHY 6347  PHY 6645
PHS 5114  PHY 6247  PHY 6536  PHY 6846L

and a choice of any two of the following:

PHS 5405  PHS 5505  PHY 5722C

or Biophysics

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 quarter of each academic year and, in connection therewith, to attend 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 three 10-week terms beginning in September and ending in June with a special four-week period in late fall designed specifically to permit students to accomplish independent studies.

Because students are selected for their ability to benefit from the New College program, they are considered, at entrance, to have the ability to begin at an advanced level of preparation. Therefore, New College offers each student the opportunity to earn a bachelor's degree in three academic years, or nine terms of residence. However, each student also has the option to distribute his educational experience over a four-year period by taking some terms off from study at selected times during those four 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.
Winter Term/Term II: Application should be completed by December 15.
Spring Term/Term III: Application should be completed by March 1.

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 shaping. Requirements for completion of a course of study in fields of study at New College include satisfactory evaluations on nine educational contracts, on four 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>Economics</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Biology</td>
<td>History</td>
</tr>
<tr>
<td>Music</td>
<td>Chemistry</td>
<td>Political Science</td>
</tr>
<tr>
<td>Literature</td>
<td>Physics</td>
<td>Psychology</td>
</tr>
<tr>
<td>Languages</td>
<td>Experimental</td>
<td>Sociology</td>
</tr>
<tr>
<td>Classics</td>
<td>Psychology</td>
<td></td>
</tr>
<tr>
<td>Philosophy</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Religion |

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 of 16 credit hours while each independent study project is equivalent to four credit hours. During the first three terms students are considered for fee purposes to be on a second-year college level. For the final six 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 of 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.
# Academic Calendar 1980-81

## Fall Term (I), 1980 and Independent Study Period

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 1, Monday</td>
<td>Labor Day Holiday</td>
</tr>
<tr>
<td>September 3-6, Wed.-Sat.</td>
<td>Orientation and Advising</td>
</tr>
<tr>
<td>September 8, Monday</td>
<td>Classes Begin; Last Day to Register</td>
</tr>
<tr>
<td>September 12, Friday</td>
<td>Fees Due; Last day to withdraw without financial penalty</td>
</tr>
<tr>
<td>September 19, Friday</td>
<td>Deadline for submission of contracts</td>
</tr>
<tr>
<td>November 3, Monday</td>
<td>Deadline for declaring option/off-campus study for Term II</td>
</tr>
<tr>
<td>November 7, Friday</td>
<td>ISP Sign-Up Forms due</td>
</tr>
<tr>
<td>November 14, Friday</td>
<td>End of Fall Term</td>
</tr>
<tr>
<td>November 17, Monday</td>
<td>Independent Study Period begins</td>
</tr>
<tr>
<td>November 27-28, Thurs.-Fri.</td>
<td>Thanksgiving Day Holiday</td>
</tr>
<tr>
<td>December 12, Friday</td>
<td>Independent Study Period ends, projects due</td>
</tr>
</tbody>
</table>

## Winter Term (II), 1981

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 2, Friday</td>
<td>Registration, Orientation, and Advising</td>
</tr>
<tr>
<td>January 5, Monday</td>
<td>Classes Begin; Last Day to Register</td>
</tr>
<tr>
<td>January 9, Friday</td>
<td>Fees Due; Last day to withdraw without financial penalty</td>
</tr>
<tr>
<td>January 16, Friday</td>
<td>Deadline for submission of contracts</td>
</tr>
<tr>
<td>March 2, Monday</td>
<td>Deadline for declaring option/off-campus study for Term III</td>
</tr>
<tr>
<td>March 13, Friday</td>
<td>End of Winter Term</td>
</tr>
</tbody>
</table>

## Spring Term (III), 1981

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 30, Monday</td>
<td>Classes Begin; Last Day to Register</td>
</tr>
<tr>
<td>April 3, Friday</td>
<td>Fees Due; Last day to withdraw without financial penalty</td>
</tr>
<tr>
<td>April 10, Friday</td>
<td>Deadline for submission of contracts</td>
</tr>
<tr>
<td>May 4, Monday</td>
<td>Senior Theses due</td>
</tr>
<tr>
<td>May 18-22, Mon.-Fri.</td>
<td>Baccalaureate Examinations</td>
</tr>
<tr>
<td>May 25, Monday</td>
<td>Memorial Day Holiday</td>
</tr>
<tr>
<td>June 1, Monday</td>
<td>Deadline for declaring option/off-campus study for Term I</td>
</tr>
<tr>
<td>June 5, Friday</td>
<td>ISP Sign-up forms and contracts due for summer</td>
</tr>
<tr>
<td>June 8, Monday</td>
<td>End of Spring Term</td>
</tr>
<tr>
<td>June 9, Tuesday</td>
<td>Evaluations due for graduating students</td>
</tr>
<tr>
<td>June 10, Wednesday</td>
<td>Contract certifications due for graduating students</td>
</tr>
<tr>
<td>June 13, Saturday</td>
<td>Faculty review of graduating students</td>
</tr>
<tr>
<td></td>
<td>Commencement</td>
</tr>
</tbody>
</table>

Students who have not submitted contracts to the Office of Records and Registration by the deadline will be considered as withdrawn by default with no refund or cancellation of fees.

Under no circumstances will students be granted option for the following term past the deadline. Off-campus contracts for the following term should be submitted as soon as possible, following declaration, but must be submitted prior to the first day of the term of the off-campus work.

ISP registrations and payments must be included with Fall and Spring Term registrations/payments.
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 programs at the undergraduate and graduate levels:

1) An upper division program that leads to a baccalaureate degree with a major in nursing. The program currently provides two curricula: a) Curriculum A for generic students (qualified students with no previous preparation in nursing), and b) Curriculum B for registered nurses who are graduates of diploma or associate degree nursing programs. Curriculum A is offered for fulltime students on the Tampa campus. Curriculum B is currently offered for both fulltime and part-time students on the Tampa campus. Curriculum B is offered for qualified part-time registered nurse students on the University’s regional campuses at Fort Myers, Sarasota, and St. Petersburg.

2) A graduate program that leads to a Master of Science degree with a major in nursing. The major objective of this program is the preparation of professional nurses who will assume leadership roles a) as clinical specialists in acute health care settings, b) as advanced registered nurse practitioners in ambulatory or extended care settings for adults, or c) as teachers of nursing.

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 graduate program was initiated in January 1980 and it is anticipated that the first students will graduate in 1982. National League for Nursing accreditation will be sought as soon as the program is eligible for accreditation.

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 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.

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 nursing 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) initiation to research processes as well as 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 University 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 is admitted to Curriculum A (for generic students) in the fall quarter each year. 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. The deadline for applications to the college is February 1.

Registered nurse students are admitted to Curriculum B twice each year. The deadline for acceptance of applications for summer (Quarter IV) admission is February 1; the deadline for acceptance of applications for winter (Quarter II) admission is October 1. Applications and academic advising are available by contacting the Assistant Dean for Student Personnel, College of Nursing, USF Medical Center, Box 22, 12901 North 30th Street, Tampa, Florida 33612.

General Requirements

CURRICULUM A AND CURRICULUM B

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 90 quarter (60 semester) hours of college level work with cumulative grade point average of 2.5. Credit received on the basis of CLEP 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 60 quarter (40 semester) hours in the following areas with not less than 8 quarter (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) not repeat any 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

   STA 3122 Social Science Statistics

   1 course in mathematics (College level algebra is highly recommended) N.B. For students entering beginning September, 1982, 4 quarter credits in college level algebra and one course in statistics will be required for admission with a grade of "C" or better in each course.

2. Natural Sciences: minimum of 22 quarter credits (excluding anatomy, microbiology, and physiology). Each course 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 8 quarter credits in the natural sciences must have been completed by the admission application deadline.

   a) Biology—a minimum of 10 quarter credits. Courses should include content in 1) cell theory, 2) biological transport, 3) genetics, 4) evolution, 5) phylogenetic system plan and animal kingdoms, 6) ecology, etc.


   b) Chemistry—a minimum of 6 quarter credits. Courses should include content in 1) principles of chemistry, 2) structure of matter, 3) atomic and molecular structure, 4) states of matter, 5) chemical formulas and nomenclature, 6) solutions, 7) chemical kinetics and equilibrium, 8) theory and practice of quantitative analysis, 9) organic chemistry.

   CHM 2045, 2046 or * CHM 2030, 2031, 2032

   *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.

   POS 2041, POS 2112, PAD 3003, POT 4204, POS 4424

   b) Individual and Social/Community Behavior: completion of at least three courses with at least one course in psychology and one course in sociology and one additional course in psychology, sociology, anthropology, gerontology or human sexual behavior.

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 while enrolled in the first quarter of the nursing major.

   a) Microbiology: one course APB 3110 or MCB 3010C CLEP is not acceptable.

   b) Anatomy: one course—NUS 3210C or the course offered by the College of Natural Science Biology Department.

   c) Physiology: one course—NUS 3211C or PCB 3700

   d) Nutrition: one course—HUN 3201

   e) Human Growth and Development (Life Span)—Must include birth through aging process to death—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 quarter, therefore, the student should plan 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 1102, 1135, 1168; Biology BSC 2010C, 2011C, 2012; General Chemistry CHM 2045; and Statistics STA 3122. Additional information may be obtained from the Office of Evaluation and Testing, University of South Florida.

D. ACT/PEP and College of Nursing Examinations

Registered nurse applicants are eligible to take the ACT/PEP subject examination in anatomy/physiology to fulfill the course requirement in physiology. The college also offers an examination in nutrition which RN students may take to meet
this requirement. Registered nurses may receive up to 20 hours of lower division elective credit for previous nursing education and/or experience through satisfactory performance on the ACT/PEP proficiency examinations in any of the approved areas: 1) Fundamentals of Nursing (Code No. 403), 2) Maternal and Child Nursing (Code No. 457), 3) Psychiatric/Mental Health Nursing (Code No. 503), 4) Adult Nursing (Code No. 5540). These credits do not apply toward meeting the University requirement of 60 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. Information about the college examination in nutrition may be obtained by contacting the Dean’s Office, College of Nursing, University of South Florida.

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) must 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) Registered nurses must have current licensure in Florida.

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 admission.

Degree Requirements

Students already in the program will be certified for the Bachelor of Science degree with a major in nursing upon the completion of a minimum of 180 quarter hours of credit distributed among the general education, supporting sciences, minimum requirements for the major and electives.

For generic students admitted to the College of Nursing beginning Quarter I, 1980, a minimum of 190 quarter hours of credit will be required for degree certification. For registered nurse students admitted to the College of Nursing beginning Quarter I, 1981, a minimum of 190 quarter hours of credit will be required for degree certification.

A minimum grade of "C" must be attained in each course in the major and a cumulative grade point ratio of 2.0 or better must be maintained throughout the program. At least 60 quarter hours must be upper division level work (courses numbered 3000 or above). Overall requirements, which differ for Curriculum A and Curriculum B, are outlined below. Some of these requirements will change with the implementation of a new curriculum in 1980.

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.

Curriculum A (For students admitted prior to September, 1980)

Curriculum A for students preparing for initial entry to the profession is an upper division major built upon general education and supporting sciences previously discussed as requirements for admission to the college. The Nursing major is composed of required nursing courses and electives. Students admitted to the College of Nursing prior to September, 1980 are currently enrolled in senior level courses.

* The Junior level courses, NUU 3210C, NUU 3320, NUU 3121L, NUU 3321, NUU 3211L and NUU 3214 are described in the 1979-80 University of South Florida Catalog.

Senior Year (3 quarters)

NUU 4220 Nursing Core I (5)
NUU 4220L Nursing Intervention I (6)
NUU 4222 Nursing Seminar III (2)
NUU 4630 Nursing Inquiry I (3)
NUU 4221 Nursing Core II (5)
NUU 4221L Nursing Intervention III (6)
NUU 4223 Nursing Seminar IV (2)
*NUR 4910C Independent Study (1-5)
NUU 4432 Nursing Core IV (3)
NUU 4943L Nursing Intervention IV (7)
NUU 4935 Nursing Seminar V (2)
*NUR 4930 Selected Topics (2-4)
(May be repeated up to 12)

Curriculum A (For students admitted beginning in September, 1980)

The upper division nursing major is built upon the general education and science courses previously discussed as prerequisite for admission. The nursing major is composed of supporting science courses, required nursing courses, and upper division general education and nursing electives.

The undergraduate curriculum is developed around a conceptual framework which includes three major foci: Man, Health, and Nursing. The content and learning experiences are organized around the biopsychosocial 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 meeting these needs are developed on a wellness-illness continuum and include primary, secondary, and tertiary levels of care.

Nursing Courses

Junior Year (3 quarters)

NUU 3280 Nursing Core I (3)
NUR 3612C Nursing Process I (2)
NUU 3722C Client Assessment I (3)
NUU 3223 Introduction to Professional Roles (2)
NUU 3281 Nursing Core II (2)
NUU 3421 Nursing Process II (2)
NUU 3136 Nursing Process III (2)
NUU 3136L Nursing Intervention I (4)
NUU 3723C Client Assessment II (3)
NUU 3282 Nursing Core III (2)
NUR 3422 Nursing Process IV (2)
NUR 3422L Nursing Intervention II (1)
NUU 3321 Nursing Process V (2)
NUU 3321L Nursing Intervention III (3)

Senior Year (4 quarters)

NUU 4283 Nursing Core IV (2)
NUR 4431 Nursing Process VI (2)
NUR 4431L Nursing Intervention IV (1)
NUR 4635 Nursing Process VII (3)
NUR 4635L Nursing Intervention V (4)
NUU 4284 Nursing Core V (2)
NUR 4652 Nursing Process VIII (3)
NUR 4652L Nursing Intervention VI (3)
NUR 4653 Nursing Process IX (2)
NUR 4653L Nursing Intervention VII (3)
NUU 4285 Nursing Core VI (2)
NUR 4654 Nursing Process X (2)
NUR 4654L Nursing Intervention VIII (2)
NUR 4655 Nursing Process XI (2)
NUR 4655L Nursing Intervention IX (3)
NUU 4286 Nursing Core VII (2)
NUR 4946L Nursing Intervention X (8)
NUR 4936 Senior Seminar (2)

In addition to the requirements listed above, a minimum of 15 credits in upper division electives will be required for graduation: at least nine (9) 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 4910C, Independent Study in Nursing, are currently used for this purpose).

Curriculum B

Curriculum B is an upper division major for registered nurse students and is built upon the general education and supporting science courses previously discussed as requirements for admission to the college. The nursing major is composed of required nursing courses and electives. At least 60 quarter hours of credit at the upper division level with at least 45 quarter hours in nursing courses (not to include human physiology and nutrition) are required for graduation. There will be changes in this curriculum for students admitted after Quarter II, 1981.

Nursing Courses

* NUR 4910C Independent Study (1-5)
* NUR 4930 Selected Topics (2-4)
(May be repeated up to 12)
NUR 4923C Nursing Practicum III (5-7)
NUU 3220 Biopsychosocial Pathologies (4)
NUU 3229L Nursing Practicum I (5)
NUU 3240 Conceptual Framework for Professional Nursing Practice (4)
NUU 3241C Planning, Implementing & Evaluating Nursing Intervention (4)
NUU 3340C Client Assessment (5)
NUU 4422 Nursing Process Synthesis (5)
NUU 4422L Nursing Practicum II (3-5)
NUU 4630 Nursing Inquiry I (3)

General Elective Credit

The number and kinds of electives taken will depend upon the number of credits needed to fulfill the hour requirement for the degree and upon individual interest and goals. They may be chosen from language, literature, fine arts, natural science, etc., or from areas relating to nursing roles and relationships—e.g., management, health education, mental retardation, gerontology, urban problems, race relations, women’s studies, biological or physical sciences, social or behavioral sciences, or from NUR 4930, Selected Topics in Nursing.

* Electives in nursing. These courses are offered on the basis of student interest to provide and opportunity to investigate some area of interest in depth. All students are expected to undertake at least two credits of NUR 4910C (Independent Study) under the guidance of a faculty member.

Graduate Education in Nursing

The College of Nursing offers a program leading to the Master of Science degree with a major in nursing. The major objective of this program is the preparation of professional practitioners who are able to assume leadership roles in nursing as 1) clinical specialists in secondary or tertiary health care settings for adults (i.e., acute care), 2) as advanced registered nurse practitioners in ambulatory or extended care settings for adults, or 3) as teachers of nursing in the area of medical-surgical nursing of adults.

The program is comprised of the following components: 1) theoretical foundations of advanced nursing practice (includes nursing theory, physiology, social and behavioral sciences, etc.), 2) role theory and development, 3) research (including thesis or scholarly study), 4) clinical experience which includes management of patient care, theory testing and practice related to the functional minor (teaching, clinical specialist, or adult primary care nursing), and 5) electives in nursing or related disciplines.

As part of the clinical experience, students may opt to focus on a particular area of specialization (e.g., cardiovascular, oncology, geriatrics) depending upon availability of qualified faculty with expertise in the area and availability of 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, higher education, etc., and a teaching practicum in addition to core courses and clinical practicums. Experiences in the second and third practicums will be adapted to the student’s teaching goals, e.g., practicums may be in inservice education or in clinical and classroom teaching in associate degree or baccalaureate programs.

Additional requirements for clinical specialists and adult primary care practitioners include courses in management. To meet this requirement, students may select from a number of courses offered by the Department of Management in the College of Business Administration.

The program has an extensive core requirements for all students, but it has been designed with considerable flexibility for student options related to previous education and experience, clinical focus, and functional minor. It has also been designed with the needs of part-time students in mind.

Entrance Requirements

The maximum number of graduate credits which may be transferred into the graduate program in nursing is nine quarter hours. Requests to transfer additional hours must be recommended by the Admissions Committee for the Graduate Program and approved by the Graduate Council. However, 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 graduate program is dependent upon favorable evaluation of the college faculty in relation to admission criteria. Applicants must meet the minimum requirements of the University and those outlined below. Those who do not meet all of the admission requirements may enroll in selected courses as Special (non-degree seeking) Students if space is available after regularly enrolled students’ needs are met. Up to 18 hours of work attempted on this basis may be accepted at the discretion of the faculty when the student does meet admission requirements and is accepted into the program.

Applications for admission into the program in September are considered only one time a year. The deadline for completed applications is March 1. A completed application includes completion of all application forms, transcripts of all college work, scores on the MAT and GRE Aptitude Tests and letters of reference. Admission to the program is on a competitive basis.

Criteria for Admission

1. A baccalaureate degree in nursing from an NLN accredited program with an overall grade point average of 3.2 in upper division work.
2. Current licensure as a registered nurse in the State of Florida.
3. A minimum of one year’s experience in clinical nursing practice.
4. Three letters of reference indicating potential for graduate study from professional nurses who can attest to the applicant’s academic ability and professional competence.
5. A minimum total score of 1,000 on the verbal and quantitative portions of the Graduate Record Examination with minimum score of 450 in each of these categories, i.e., verbal comprehension and mathematical skills.
6. A score of 46 or above on The Miller Analogy Test.
7. A course in elementary statistics including introduction to probability and testing hypothesis.
8. Ability to demonstrate competencies in physical assessment skills comparable to those required in specific portions of the Graduate Record Examination.
9. Physical examination not older than 4 months at time of enrollment.
10. Professional liability insurance.
11. Florida resident at the time of enrollment.
12. Admission to program will be dependent 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 Analogy Test.
4. Complete a personal interview with designated College of Nursing faculty.
5. Meet deadlines as designated by the Office of Admissions at USF and USF College of Nursing.
6. Submit letters of reference as indicated under criteria for admission.

Course Requirements
- NUU 6350 Foundations of Nursing Theory (4)
- NUR 6751 Advanced Physiologic Assessment (5)
- NUU 6293 Factors Influencing Health Care (3)
- NUR 6351 Role Development I (3)
- NUU 6352 Role Development II (3)
- NUU 6370 Nursing Research (4)
- NUR 6971 Directed Research Studies (2-6)
- NUR 6750C Adult Assessment (4)
- NUR 6270C Common Health Problems I
- NUR 6271C Common Health Problems II
- NUR 6945L, 6946L, 6947L Nursing Practicum I (4)
- Electives (17-21)

Graduation Requirements
1. A minimum of 72 quarter hours required for graduation.
2. A thesis or major scholarly work is required by all candidates.
   A. The thesis or masterly scholarly work may be an individual or an interdependent project with two or more students.
   B. For the thesis, a minimum of two readers, one of whom is a faculty member in the student’s area of specialization within the graduate program is required.
   C. For the major scholarly work, two readers are required.
   D. The student has the option of requesting additional readers or consultants for either the thesis or masterly scholarly work.
3. A cumulative grade point average with a minimum of B (3.0) is required for graduation.
4. A minimum grade of C (2.0) is required in each course accepted toward the graduate degree.
5. A minimum grade of B (3.0) is required in all undergraduate courses (1000-4000 level) taken after matriculation either as electives or to make up deficits, even though these courses are not computed in the overall academic average.
6. All incomplete grades must be removed from the student’s record before graduation.
7. Degree requirements must be completed within seven (7) years of matriculation, the date on which a student formally enrolls for study after having been accepted. Candidates who are unable to meet this requirement may petition to have their credentials and program reevaluated. Such candidates must expect to meet any requirements which have been added since their original matriculation.
8. Application for the degree must be filed with the University Registrar on the appropriate form signed by the academic adviser of the College of Nursing. Each degree candidate is held responsible for obtaining and submitting the degree application form on the date specified by the University.

The College of Nursing reserves the right to alter aspects of the Master of Science Program on the basis of on-going curriculum evaluation by faculty and students.

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 $50-75 per quarter. Since texts are used over the 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 quarter 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 coats or aprons are necessary during the first quarter.

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 form 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 College of Social and Behavioral Sciences at the University of South Florida offers undergraduate honors programs in two fields: Political Science and Psychology. 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 36) are summarized as follows:

1. 180 credits with at least a "C" average (2.0) in courses taken at the University of South Florida. At least 60 of these 180 credits must be in courses numbered 3000 or above. (A maximum of four credits of physical education courses may be counted toward graduation requirements; no credits in physical education are required.)

2. 60 credits of general distribution courses as 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 35). Transfer students with standard AA degrees will be considered to have met the University’s General Education Requirements; however, such students who have not gained exposure to each of the five areas are strongly encouraged to make up deficiencies early in their USF careers.

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

4. 120 credits outside the major, including 62 credits outside the College of Social and Behavioral Sciences. These requirements are designed to insure breadth of academic experience.

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

6. A student must complete at least 45 of the last 90 credits in academic residence at USF. The approval of the Dean of the college granting the degree must be secured for any transfer credits offered for any part of these last 90 hours. A maximum of 90 quarter hours (60 semester hours) of transfer credit will be accepted for community college work except with the recommendation of the Dean and the approval of the Academic Regulations Committee. Students are encouraged to consult with an academic adviser in
his/her major. It must be noted, however, that the student assumes full responsibility for satisfying all University, College, and departmental requirements for graduation.

Programs Leading to the Baccalaureate Degree

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

A Bachelor of Arts Degree is offered in the following:

<table>
<thead>
<tr>
<th>Department/Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology (ANT)</td>
</tr>
<tr>
<td>Criminal Justice (CCJ)</td>
</tr>
<tr>
<td>Geography (GPY)</td>
</tr>
<tr>
<td>Gerontology (AGE)</td>
</tr>
<tr>
<td>History (HTY)</td>
</tr>
<tr>
<td>Political Science (POL)</td>
</tr>
<tr>
<td>Psychology (PSY)</td>
</tr>
<tr>
<td>Rehabilitation Counseling (REH)</td>
</tr>
<tr>
<td>Post-Baccalaureate</td>
</tr>
<tr>
<td>Rehabilitation Counseling (REF)</td>
</tr>
</tbody>
</table>

GRADUATE LEVEL DEGREE PROGRAMS

Master's Degree Programs

Graduate level courses are now offered in most social and behavioral science areas. The Master of Arts Degree is offered in the following:

<table>
<thead>
<tr>
<th>Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology (ANT)</td>
</tr>
<tr>
<td>Criminal Justice (CCJ)</td>
</tr>
<tr>
<td>Geography (GPY)</td>
</tr>
<tr>
<td>Gerontology (AGE)</td>
</tr>
<tr>
<td>History (HTY)</td>
</tr>
<tr>
<td>Political Science (POL)</td>
</tr>
<tr>
<td>Psychology (PSY)</td>
</tr>
<tr>
<td>Rehabilitation Counseling (REF)</td>
</tr>
<tr>
<td>Post-Baccalaurete</td>
</tr>
</tbody>
</table>

A Master of Public Administration Degree (M.P.A.) 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 Education in Social Science Education, School Psychology, and the Junior College Teachers' Program.

The Department of Communicology in the college offers a Master of Science Degree in the following:

<table>
<thead>
<tr>
<th>Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audiology (AUD)</td>
</tr>
<tr>
<td>Post-Baccalaurete</td>
</tr>
<tr>
<td>Audiology (AUF)</td>
</tr>
<tr>
<td>5-year program</td>
</tr>
<tr>
<td>Aural (Re) Habilitation (ARH)</td>
</tr>
<tr>
<td>Post-Baccalaurete</td>
</tr>
<tr>
<td>Aural (Re) Habilitation (ARF)</td>
</tr>
<tr>
<td>5-year program</td>
</tr>
<tr>
<td>Speech Pathology (SPP)</td>
</tr>
<tr>
<td>Post-Baccalaurete</td>
</tr>
<tr>
<td>Speech Pathology (SPF)</td>
</tr>
<tr>
<td>5-year program</td>
</tr>
</tbody>
</table>

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 also offers a Certificate in Latin American Studies for students who wish to gain an intensive multidisciplinary understanding of this important area.

A minimum of 32 quarter hours is required of all students seeking such a certificate. Of these, at least 16 must be planned around the following core courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEA 3400</td>
<td>Geography of Latin America</td>
</tr>
<tr>
<td>LAH 3022</td>
<td>Modern Latin America</td>
</tr>
<tr>
<td>CPO 4930</td>
<td>Comparative Government and Politics (Latin America)</td>
</tr>
<tr>
<td>SPT 3131</td>
<td>Spanish American Literature in Translation (or equivalent in original language)</td>
</tr>
</tbody>
</table>

The remaining 16 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 three quarters 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, Afro-American Studies, Anthropology, Economics, Geography, History, International Studies, Manual Communications, Political Science, 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 or the minor 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. Minors will be certified at the time of graduation.

PROGRAMS AND CURRICULA

AFRO-AMERICAN STUDIES (AFA)

Afro-American Studies Program provides a quality undergraduate education leading to a Bachelor of Arts degree in Afro-American Studies. Essentially it is a service program which provides opportunities for all students to broaden the bases of their knowledge of the entire human experience and intercultural understanding so essential to living in a multi-racial society and a world that has become a global village. It provides a new horizon in liberal education that seeks reunification of the knowledge of human experience and strikes at the narrowness and ethnocentrism of the traditional disciplines which have contributed much to race prejudice and misunderstanding. 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 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 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 Afro-American Studies consists of a minimum of 56 hours in the field specified as follows:

Required Core Courses (20 cr. hrs.)
- AFA 2001 (4)
- AFH 3200 (4)
- AMH 3572 (4)
- AFH 3100 (4)
- AMH 3571 (4)

Required Supporting Courses (12 cr. hrs.)
- AFA 4150 (4)
- AFS 3311 (4)
- ECP 4143 (4)
- AFS 4936 (4)
- AFS 4910 (1-4)
- PHM 4120 (4)

Suggested Elective Courses (24 cr. hrs.)
- AFA 4331 (4)
- AFS 4321 (4)
- CPO 4204 (4)
- HUM 4244 (4)
- ECP 4120 (4)
- PHM 4254 (4)
- HUM 3313 (4)
- AFA 4931 (1-4)
- CPO 4254 (4)

Electives (16 hours)
- HUM 3313 (4)
- ECP 4120 (4)
- PHM 4254 (4)

Requirements for the Minor:

Afro-American Studies Program offers minors in African and Afro-American Studies to meet the interests of students. Each minor comprises twenty-eight (28) quarter hours, exactly one-half of the upper division credits required for a major. Requirements for the minors are as follows:

Afro-American Studies Option I (Minimum of 28 hours):

Required Core Courses (12 hours)
- AFA 2001 (4)
- AFH 3200 (4)
- AMH 3572 (4)
- AFH 3100 (4)
- AMH 3571 (4)

Electives (16 hours) selected from:
- AFA 4150 (4)
- AFA 4931 (4)
- AFS 3311 (4)
- CPO 4204 (4)
- CPO 4254 (4)
- HUM 3420 (4)
- INR 4254 (4)
- PUP 3313 (4)

Afro-American Studies Option II (Minimum of 28 hours):

Required Core Courses (16 hours)
- AFA 2001 (4)
- AFS 3311 (4)
- AMH 3572 (4)
- PUP 3313 (4)

Electives (12 hours) selected from:
- AFA 4150 (4)
- AFA 4931 (4)
- AFS 3311 (4)
- CPO 4204 (4)
- CPO 4254 (4)
- HUM 3420 (4)
- INR 4254 (4)
- PHM 4120 (4)

African Studies (Minimum of 28 hours)

Required Core Courses (16 hours)
- AFH 3100 (4)
- CPO 4204 (4)
- HUM 3420 (4)

Electives (12 hours) selected from:
- AFA 4150 (4)
- AFA 4931 (4)
- AFS 3311 (4)
- CPO 4244 (4)
- CPO 4254 (4)
- HUM 3420 (4)

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 a part of their anthropology curriculum. The focus includes emphasis in applied anthropology coursework and a practicum course in which the student applies anthropological method and theory in off-campus settings.

Students majoring in other fields may find anthropology coursework an exciting and valuable supplement to their primary academic interest. A minor in anthropology has been developed with this purpose in mind. The minor program is structured to allow the student maximum flexibility in 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.

Because of the sequential nature of the graduate courses, entering students are ordinarily admitted only in the Fall Quarter (September) each year. At that time a new cycle of courses begins.

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 48 credit hours including 44 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 4935 complete the specific requirements. Majors are required to complete a minimum of 16 hours of elective coursework, 12 hours of which must come from three of the following four subdivision clusters:

Cluster I (Archaeology)

- ANT 4133 (4) ANT 4172 (4) ANT 4124 (5)
- ANT 4153 (4) ANT 4181 (5) ANT 4158 (5)
- ANT 4162 (4) ANT 4182 (4) ANT 4180 (5)
- ANT 4163 (4)

Cluster II (Physical Anthropology)

- ANT 4542 (4) ANT 4552 (4) ANT 4583 (4)
- ANT 4586 (4)

Cluster III (Anthropological Linguistics)

- ANT 4620 (4) ANT 4750 (4)

Cluster IV (Cultural Anthropology)

- ANT 4226 (4) ANT 4316 (4) ANT 4462 (4)
- ANT 4231 (4) ANT 4326 (4) ANT 4495 (4)
- ANT 4241 (4) ANT 4340 (4) MUH 4521 (4)
- ANT 4302 (4) ANT 4367 (4) ANT 4705 (4)
- ANT 4305 (4) ANT 4432 (4) ANT 4723 (4)
- ANT 4312 (4) ANT 4442 (4)

The remaining 4 minimum elective hours may come from any of the department’s elective offerings, including ANT 4901 (1-6), ANT 4907 (3-6), ANT 4930 (4), 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 (28 cr. hrs.)

- ANT 2000 (4) ANT 3511 (4) ANT 4034 (4)
- ANT 3100 (4) ANT 3610 (4) ANT 4935 (4)
- ANT 3410 (4)

Requirements for the Minor in Anthropology

The minor in Anthropology consists of a minimum of 24 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 (4 cr. hrs.)
   - ANT 2000 (4)

B. 3000-level subfield courses (4-8 cr. hrs.)
   - ANT 3100 (4) ANT 3511 (4)
   - ANT 3410 (4) ANT 3610 (4)

C. 4000-level elective courses (12-16 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 (4)
- ANT 4705 (4)
- ANT 4442 (4)
- or ANT 4462 (4)

In addition, the student must take ANT 4907 (4), 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 listed on page 46 and should be studied carefully.

The student must complete 49 quarter hours of graduate course work. 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 four quarter hours, and two graduate-level courses, normally taken outside the department, for a minimum of six quarter hours, chosen in mutual agreement by the student and his/her adviser; successfully pass the comprehensive examination; 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 (4) ANT 6588 (4)
      - ANT 6490 (4) ANT 6676 (4)
   B. Additional Requirements
      - Two graduate-level courses normally taken outside the department; one graduate-level statistics course;
      - ANT 6915 (1-15) ANT 6971 (1-9)

II. Courses in One of Three Tracks
   A. Medical Anthropology Track
      - ANT 6463 (4) ANT 6737 (4)
      - ANT 6469 (4)
   B. Urban Anthropology Track
      - ANT 6446 (4) ANT 6448 (4)
      - ANT 6447 (4)
   C. Public Archaeology Track
      - ANT 6196 (4) ANT 6198 (4)
      - ANT 6197 (4)

---

COMMUNICOLOGY
(AUD/AUF/ARH/ARF/SPP/SPF)

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 Associ-
ation 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 Pathology, Audiology or Aural (Re)Habilitation.

Undergraduate students enroll in a five-year program terminating in the Master of Science degree in Speech Pathology, Audiology or Aural (Re)Habilitation. Students may apply for acceptance in the M.S. degree program upon attaining junior or senior 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 in 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 course work.
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.

Requirements for the M.S. Degree in Speech Pathology—Post-Baccalaureate (SPP)

General requirements for graduate work are already delineated by the University's Division of Graduate Studies. A minimum of 45 credits is required as well as completion of sufficient coursework and practicum to meet the American Speech and Hearing Association's requirement for clinical certification in speech 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.

In addition, sufficient and appropriate coursework (approved by the Chairperson or his/her delegate) will be included to meet the preparation requirements of the American Speech and Hearing Association for the Certificate of Clinical Competence. The attainment of clinical competence 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 M.S. Degree in Audiology—Post Baccalaureate (AUD)

General requirements for graduate work are already delineated by the University's Division of Graduate Studies. A minimum of 45 credits is required as well as sufficient coursework and practicum to meet the American Speech and Hearing Association's requirement for clinical certification in Audiology. The attainment of clinical competence 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 (4)
- SPA 4255 (4)
- SPA 4333 (3)
- SPA 5002 (6)
- SPA 5132 (6)
- SPA 5303 (6)
- SPA 5402 (4)
- SPA 5550 (6)
- SPA 5555 (1-12)
- SPA 5600 (4)
- SPA 4250 (4)
- SPA 4255 (4)
- SPA 4333 (3)
- SPA 5002 (6)
- SPA 5132 (6)
- SPA 5303 (6)
- SPA 5402 (4)
- SPA 5550 (6)
- SPA 5555 (1-12)
- SPA 5600 (4)
- SPA 6305 (4)
- SPA 6307 (4)
- SPA 4250 (4)
- SPA 4255 (4)
- SPA 4333 (3)
- SPA 5002 (6)
- SPA 5132 (6)
- SPA 5303 (6)
- SPA 5402 (4)
- SPA 5550 (6)
- SPA 5555 (1-12)
- SPA 5600 (4)
- SPA 6305 (4)
- SPA 6307 (4)

Requirements for the Combined Undergraduate/Graduate M.S. Degree in Audiology (AUF)

A minimum of 225 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 (4)
- LIN 4040 (4)
- LIN 4710 (4)
- SPA 2001 (3)
- SPA 3080 (6)
- STA 3122 (4)
- SPA 4363 (6)
- SPA 5002 (6)
- SPA 5131 (6)
- SPA 5201 (4)
- SPA 5210 (4)
- SPA 5222 (4)
- SPA 5303 (6)
- SPA 5402 (4)
- SPA 5550 (6)
- SPA 5552 (6)
- SPA 5557 (1-12)
- SPA 5600 (4)
- SPA 6231 (4)
- SPA 6245 (4)
- SPA 6322 (6)
- SPA 6410 (4)
- SPA 6423 (6)
- SPA 6505 (1-12)
- SPA 6825 (4)
- SPA 6906 (var.)
- SPA 6930 (4)
- SPA 6910 (var.)
- SPA 6971 (6)
- SPA 6906 (var.)
- SPA 6930 (4)
- SPA 6910 (var.)
- SPA 6971 (6)
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 and Hearing Association for the Certificate of Clinical Competence in Audiology. The attainment of clinical competence 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 M.S. Degree in Aural Rehabilitation—Post Baccalaureate (ARH)

General requirements for graduate work are already delineated by the University's Division of Graduate Studies. A minimum of 45 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 competence 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 (3) SPA 6345 (4)
SPA 4363 (6) SPA 6354 (4)
SPA 5002 (6) SPA 6423 (6)
SPA 5201 (4) SPA 6505 (1-12)
SPA 5303 (6) SPA 6825 (4)
SPA 5402 (4) SPA 6906 (var.)
SPA 5557 (1-12) SPA 6930 (4)
SPA 6305 (4) SPA 6910 (var.)
SPA 6322 (6) or
SPA 6332 (6) SPA 6971 (6)
SPA 6335 (3)

Requirements for the Combined Undergraduate/Graduate M.S. Degree in Aural (Re)Habilitation (ARF)

A minimum of 225 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 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 (4) SPA 5002 (6)
LIN 4040 (4) SPA 5201 (4)
LIN 4710 (4) SPA 5303 (6)
SPA 2001 (3) SPA 5402 (4)
SPA 3080 (6) SPA 5557 (1-12)
or
SPA 6305 (4)
or
STA 3112 (4) SPA 6322 (6)
SPA 3101 (6) SPA 6332 (6)
SPA 3110 (6) SPA 6335 (3)
SPA 3217 (6) SPA 6345 (4)
SPA 4050 (1-12) SPA 6354 (4)
SPA 4333 (3) SPA 6423 (6)
SPA 4363 (6) SPA 6505 (1-12)

SPA 6825 (4) SPA 6910 (var.)
SPA 6906 (var.) or
SPA 6930 (4) SPA 6971 (6)

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 (3) SPA 4050 (4)
SPA 4363 (3) SPA 4930 (4)
SPA 4333 (6)

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

The objective of the 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 53 quarter hours is required of all undergraduate majors* in Criminal Justice including the following courses or their equivalents:

CCJ 3020 (5) CCJ 3610 (8) CCJ 4934 (3)
CCJ 3280 (4) CCJ 3620 (4) CCJ 4940 (12)

In addition to the above, a minimum of 17 hours in Criminal Justice selected by the student 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 (45 quarter hours) in "on-campus" courses. All undergraduate transfer students electing Criminal Justice as their major will be required moreover to take a minimum of 35 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 (1) 1975 or thereafter.

Students electing to major in Criminal Justice as of Quarter I (Fall) 1978 will be required to obtain a score acceptable to the Department of Criminal Justice on an English proficiency test. This performance requirement must be met before the student completes 15 CCJ hours.†

In-service students are required to take only 4 hours of CCJ 4940, thus reducing their major course credits to 45 quarter hours.

†Approval Pending.
Requirements for the M.A. Degree:

University requirements for graduate study are given on page 46. Additionally, each graduate applicant should submit three letters of recommendation, a letter of intent to the Department of Criminal Justice, and show successful completion of an acceptable undergraduate social science introductory statistics course or equivalent.

Admission into graduate courses and/or the graduate program is contingent upon demonstrated proficiency in the English language, as determined by the department. Special provisions for meeting this requirement may be arranged for out-of-state applicants.

NOTE: Individuals who wish to take courses in the graduate program as "Special Students" should contact the Director of Graduate Studies for the department prior to their first class appearance. Such students will in general be prohibited from enrolling in CCJ 6910.

Further information may be obtained by contacting the Director of Graduate Studies of the Department of Criminal Justice.

Requirements for graduation for all M.A. candidates will consist of:

1. 45 credits of CCJ course work (or approved equivalents) which include:
   - CCJ 6285 (4) CCJ 6705 (4) CCJ 6946 (4)
   - CCJ 6605 (4) ** CCJ 6920 (1)

2. Completion of a thesis; CCJ 6971

3. Completion of an oral defense of the thesis (occurs after the final draft of the thesis has been accepted by the student's committee).

All course work counted toward the degree must have the prior approval of the student's major professor and the Director of Graduate Studies of the Criminal Justice program.

** Should be taken first quarter in the program.

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 problem areas.

A student may earn a Bachelor of Arts degree with a major in Economics by completing satisfactorily 48 credits in Economics in addition to college requirements. These 48 credits include:

ECO 2013 (4) ECO 3203 (5) GEB 2111 (3)
ECO 2023 (4) ECO 4303 (5) GEB 3121 (5)
ECO 3101 (5)

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

In addition to this core, students are encouraged to select 3000-level courses in several of the applied areas during their junior year. The remaining economics electives must be selected from those upper level courses that provide the type of program that best suits the students' interests and objectives. Additional flexibility in pursuing these interests is provided by the ECO 4905 and ECO 4914 courses. However, not more than 10 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 26 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 (4)
   - ECO 2013 Economic Principles II: Macroeconomics (4)
   - ECO 3101 Intermediate Price Theory (5)
   - ECO 3203 Intermediate Income & Monetary Analysis (5)

(b) In addition, a minor must include two or more upper level courses taught in the Economics Department (excluding the variable credit courses ECO 4905, 4914, and 4935), bringing the total credit hours in economics to a minimum of 26. 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 of the 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 18 of the required 26 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 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. Both social and natural sciences are recommended.

Geographers typically work as urban and regional planners, environmental specialists, map and aerial photographic analysts, and resource managers.

A major in geography consists of 50 credit hours as follows:

Required core courses (15 credit hours)
   - GEO 3013 (5) GEO 3370 (5) GEO 4100C (5)
One of the following (5 credit hours)
   - GEO 4280C (5) MET 4002 (5) MET 4010C (5)
Two of the following (10 credit hours)
   - GEO 3402 (5) GEO 4440 (5) GEO 4470 (5)
   - GEO 4372 (5) GEO 4460 (5) GEO 4500 (5)
Two courses with a GEA prefix (10 credit hours)
Any additional 10 credit hours in geography, excluding
GEO 3901 GEO 4900 GEO 4910
GEO 3931C

Requirements for the Minor:
A minor in Geography is basically a name given to a set of geography courses taken by a student that totals one-half of the upper division credits required for a major. Twenty-five credit hours consisting of the following courses must be completed with a minimum grade point average of 2.0:
- GEO 3000 (5)
- GEO 3370 (5)
- GEO 3402 (5)
- GEO 3013 (5)
- One upper level elective (GEA, GEO, MET, or URP 3000-5000 level) (5)

Requirements for the M.A. Degree
General requirements for graduate work are given on page 46.
All students must complete 45 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 requirement.

Thesis Program: The 45 credit hours in geography must include:
- GEA 6195 GEO 6119 GEO 6428
- GEO 5065 GEO 6209C GEO 6971
Up to eight credits outside the department may be elected with the approval of the student’s committee and major professor. An oral defense of the thesis is required.

Non-Thesis Program: The 45 credit hours in geography must include:
- GEA 6195 GEO 6209C GEO 6971
- GEO 5065 GEO 6428
- GEO 6119 GEO 6945
The remaining credit hours must be approved by the student’s committee and major professor, and may include up to eight credits outside the department.

Gerontology

Undergraduate Program
Although no baccalaureate degree in gerontology is offered, the Department of Gerontology does provide 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.

The Human Services Courses
The Human Services Courses are designed for students interested in careers in the human sciences and services, and may be taken in conjunction with any major, or by special students. They are closely related to our Urban Community Psychology and Gerontology Program of Distinction and will be taught by qualified faculty from the various disciplines within the college. The Human Services sequence is coordinated by the Department of Gerontology.

Center for Applied Gerontology
The Center for Applied Gerontology is one of five specialized centers in the new 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, the collection and dissemination of resource materials on death, dying and grief, and other activities intended to complement the educational program in gerontology.

Graduate Program
The primary objective of the graduate program in aging is to train personnel for leadership positions in the planning, development, delivery, and evaluation of community services for older persons. In keeping with this objective, the program offers a broad range of cross-disciplinary courses. As an important part of the training process, each graduate student spends a supervised internship for one academic quarter in a community agency or facility which provides services for older persons. A Master of Arts degree in Gerontology is awarded upon satisfactory completion of the requirements.

Requirements for the M.A. Degree in Gerontology
The M.A. degree requires five quarters of full-time study—or the part-time equivalent thereof—including one quarter of supervised field experience. 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 54 credit hours in approved Gerontology 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.

Requires courses for the M.A. degree include:
- GEY 6930 (2)
- GEY 6932 (2)
- GEY 6940 (12)
- GEY 6931* (2)
- GEY 6933 (2)
Majors are also required to take a minimum of 34 hours from the following:
- GEY 5250 (4)
- GEY 5642 (4)
- GEY 6450 (4)
- GEY 5350 (4)
- GEY 5645 (4)
- GEY 6460 (4)
- GEY 5600 (4)
- GEY 5901 (1-3)
- GEY 6500 (4)
- GEY 5610 (4)
- GEY 6325 (4)
- GEY 6643 (4)
- GEY 5620 (4)
- GEY 6390 (4)
- GEY 6911 (1-6)
- GEY 5630 (4)
- GEY 6391 (4)
- GEY 6912 (1-6)

There are no language requirements. However, following completion of the necessary coursework, 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.

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 (total of quantitative and verbal aptitude scores) plus a minimum grade point average of 3.0 (A = 4.0) 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. Entering full-time students are ordinarily admitted only in the Fall Quarter (September) each year. At that time, a new cycle of courses begins and runs for five academic quarters.

**HISTORY (HTY)**

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

A minimum of 48 quarter hours is required for a major in history. 16 hours of 2000 level courses, or their equivalent, constitute the lower level requirements. HIS 4070, 4152, and 4936 constitute the upper level requirements for the degree. At least 20 hours of course work must be drawn from the 3000-4000 level. With the prior written consent of the student’s adviser, majors may take up to eight (8) 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 3466, “Advanced Expository Writing,” SPC 2023, “Fundamentals of Speech Communication,” LIS 2001, “Use of the Library,” and 27 quarter 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 20 hours of history courses 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 20-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 12 hours must be completed at the University of South Florida and the student must maintain a 2.0 GPA in the minor. Certification of the minor will be supervised by the department. Students interested in a minor in history are encouraged to see the History department adviser as early in their undergraduate program as possible.

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

The Department of History offers both a thesis and non-thesis Master of Arts degree organized around the following fields:

- **Field I:** American History to 1877
- **Field II:** American History Since 1877
- **Field III:** Ancient/Medieval
- **Field IV:** Early Modern Europe to 1789
- **Field V:** Modern Europe Since 1789
- **Field VI:** Latin America

The thesis degree program emphasizes preparation for further graduate study. The non-thesis degree program is designed to meet the needs of those students seeking a terminal degree at the Masters level.

In addition to the general requirements of the University, a candidate is required to complete a total of 48 hours in the following distribution: 8 hours of core courses; 16 hours in a major field in history; 8 hours in a minor field; and 8 hours of electives inside or outside the Department of History. Additionally, students in the thesis degree program will be expected to complete the remaining 8 hours in thesis credits. Non-thesis degree students must complete the remaining hours of their program in 6000 level courses.

Of the 48 hours required for the Master of Arts, at least 30 must be in formal, regularly scheduled course work. A minimum of 24 must be at the 6000 level. Subject to the satisfaction of above requirements, courses at the 5000 level are acceptable as part of a planned degree program. In special circumstances major advisers may approve up to 8 hours at the 4000 level with the definite understanding that additional and superior work will be required of the graduate student. The core courses, HIS 6112, “Analysis of Historical Knowledge,” and HIS 6113, “Theory and Interpretation,” are required of all M.A. students.

A reading proficiency in one foreign language must be demonstrated by students in the thesis degree program. A satisfactory preparation in the core course program, two fields, and the completion of a comprehensive examination are required of all M.A. students for graduation.

Upon admission into the graduate program, the M.A. students will select an adviser in their anticipated major field of study. Students will arrange their programs and schedules of appropriate courses with their major adviser. Additionally, the student in consultation with the adviser solicits two other members to serve on a guidance committee.

**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 which is administered by the department. It offers a non-degree program and a minor in Women’s Studies, a minor in International Studies which is administered by the department. Students interested in a minor in history are encouraged to see the History department adviser as early in their undergraduate program as possible.

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 which is administered by the department. It offers 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 International 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 interests 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 64 credits in courses offered in the college including STA 3122, Social Science Statistics and a minimum of eight credits in Interdisciplinary Social Science courses. At least 40 of the 64 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 20 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.

International Studies (INT)

Requirements for the B.A. Degree:

The major in International Studies is designed to enable students to undertake programs of study based upon the course offerings of not less than three departments of the college, 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 48 credit hours.

Of these 24 (a minimum of 6 courses) must be in the International Studies Program offerings of the Department of Interdisciplinary Social Sciences. The courses required are:

- SSI 3221 (4)
- SSI 4250 (4)
- SSI 4936 (4)
- SSI 3260 (4)

One of the following:

- AFS 3930 (4)
- ASN 3014 (4)
- EUS 3022 (4)
- ASN 3000 (4)
- ASN 3030 (4)
- LAS 3001 (4)
- ASN 3012 (4)
- EUS 3000 (4)

One of the following:

- INR 2085 (3)
- INR 4083 (4)
- SSI 3242 (4)
- INR 3336 (4)
- SSI 2261 (4)
- SSI 3930 (4)
- INR 3503 (4)
- SSI 3128 (4)
- WST 3275 (4)

With the approval of the major adviser, credits earned in:

- SSI 4900 (1-5)
- SSI 4910 (1-5)
- SSI 3955 (1-9)

may be used to augment or substitute for the foregoing requirements.

The additional 24 credits (6 courses) required must be selected from course offerings of at least two other departments which have international, regional, or cultural content.

**Required Supporting Courses**

17 cr. hrs. (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 reemphasize 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. Up to nine credits may be substituted for these requirements by successfully passing SSI 3955 (1-9).

Minor in International Studies

The minor in International Studies is basically a name given to a set of International Studies courses taken by a student that totals one-half of the upper division level credits required for a major. The 24 credit hours constituting the minor shall consist of six courses as follows:

- SSI 3221 America’s Role in the World (4)
- SSI 3260 Communism in the Modern World (4)
- SSI 4250 The Emerging Nations (4)
- and three 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 make 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, and several of its courses are cross-listed with those of other departments, e.g. Psychology, Political Science, English.

**Minor in Women's Studies Program**

An undergraduate minor in Women's Studies is available for those who wish to combine their selected majors with study of current research focusing on women. The courses are offered from a multi-discipline perspective, and many may be taken for credit in other departments as well. Requirements for the minor are a total of 28 hours, 24 of them in upper-level courses, and include:

- 4 credit hours, either WST 2010 (4), or WST 2011 (4);
- 24 credit hours, chosen from among the following:
  - ANT 4302 (4)
  - WST 3220 (4)
  - EDF 4801 (4)
  - WST 3240 (4)
  - LIT 3414 (5)
  - WST 3270 (4)
  - LIT 3415 (5)
  - WST 3275 (4)
  - POS 4693 (4)
  - WST 3310 (4)
  - REL 3145 (4)
  - WST 3320 (4)
  - SOP 4742 (4)
  - WST 3360 (4)
  - SOP 4772 (4)
  - WST 4930 (1-5) up to 4 cr. hrs.
  - WST 3210 (4)
  - WST 4935 (4)
  - Either WST 4910 or WST 4900 (1-4)

**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 pre-law plan in political science and honors in political science. The program is designed for students interested in and seeking to understand political problems and issues, the nature of the political process, as well as the philosophical and legal bases of political structures and processes at local, state, and national levels within the United States and elsewhere. Satisfying the degree requirements prepares students for positions in the public and private sectors, for law school, for
graduate work in political science and related disciplines, for positions in education, and for applied political activity.

A minimum of 48 credit hours is required to satisfy the requirements of the major. Students must take the eight credit hours which make up the core curriculum, and, in addition, a total of 40 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 24 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 (8 cr. hrs.)**
- POS 2041 (4) POS 3173 (4)

**Electives from the seven fields (40 cr. hrs.)**

**Field I Political Theory**
- POS 4204 (4) POT 3003 (4) POT 4064 (4)
- POS 5734 (4) POT 3013 (4) POT 4204 (4)
- POS 5764 (4) POT 4054 (4) POT 5626 (4)

**Field II Comparative Government and Politics**
- CPO 3002 (4) CPO 4930 (4) CPO 5934 (4)
- CPO 4034 (4)

**Field III International Relations**
- INR 3002 (4) INR 4334 (4) INT 5086 (4)
- INR 3102 (4) INR 4502 (4)

**Field IV American National and State Governments**
- POS 2041 (4) POS 3273 (4) POS 4413 (4)
- POS 2112 (4) POS 3453 (4) POS 4424 (4)
- POS 3173 (4) POS 4233 (4) POS 5094 (4)
- POS 3182 (4)

**Field V Urban Government and Politics**
- PAD 5807 (4) POS 4165 (4) PUP 4534 (4)
- POS 3142 (4) POS 5155 (4) URP 4050 (4)
- POS 3145 (4)

**Field VI Public Administration**
- PAD 3003 (4) PAD 5333 (4) PAD 5612 (4)
- PAD 4204 (4) PAD 5417 (4) PAD 5836 (4)
- PAD 5035 (4)

**Field VII Law and Politics**
- INR 3403 (4) POS 3493 (4) POS 4624 (4)
- PAD 5605 (4) POS 3691 (4) POS 4693 (4)
- POS 3284 (4) POS 4614 (4) POS 5699 (4)

The following courses are not included within any of the seven fields, but may still be used as elective hours:
- POS 4905 (1-5) POS 4941 (4)
- POS 4910 (1-8) POS 4970 (4)
- POS 4936 (4)

**Requirements for a Minor in Political Science**

A minor in political science consists of 24 credit hours, made up of POS 2041 (4 credit hours) and an additional 20 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 GPA of 2.0 is required. Subject to these limitations, students may take any 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 local government in the Tampa Bay area and with political par-

**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 participate in an honors seminar, POS 4936 (4) and 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 52 credit hours is required.

Students must take eight credit hours of required course:
- POS 2041 (4) POS 3713 (4)

Eleven additional courses in political science (44 cr. hrs.) must be taken, of which at least seven must be above the 3000 level. Concentration within fields will be encouraged.

**Requirements for the Pre-Law Plan in Political Science**

The Department of Political Science offers a pre-law plan designed for the undergraduate considering a career related to law. Field VII of the undergraduate curriculum (Law and Politics). The courses making up the Field are of particular interest to law-oriented students, but may be taken by others as well. The department seeks to guide majors to those courses which develop skills and provide information needed for good performance in the study of law. The department also seeks to give students the skills and information needed for entry into a number of law-related positions in business and government. An integral part of this plan is a high degree of student access to the department’s pre-law 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 no later than February of the year in which they make application to a law school. Information pamphlets and application forms for the test are obtainable from the Department of Political Science, University of South Florida.

(Pre-law is not a prescribed program of study. No specific college major is required for admission to law school. Those students intending to pursue the study of law must obtain a Bachelor of Arts degree in an 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.)

**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 and public administration on national, state, and local levels of government. 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 46.

The student must complete a minimum of 45 credit hours of graduate level courses, of which at least 24 hours must be at the 6000 level. A minimum of 30 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 adviser and the Department of Political Science.

A minimum of 28 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 (nine credit hours) or petition for substitution with 12 credit hours of regular courses.

All students must pass a comprehensive examination in order to satisfy the degree requirements. This examination normally will be given following the completion of thesis. Students whose petitions for the non-thesis option have been approved will be permitted to take the examination upon successful completion of at least 40 credit hours.

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) or POS 5764 (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 6246 (4) POT 5626 (4)
- POS 5764 (4) POS 6706 (4) POT 6007 (4)
- POS 6207 (4)

**Field II Comparative Government and Politics**
- CPO 5934 (4) CPO 6008 (4) CPO 6036 (4)
- CPO 6007 (4)

**Field III International Relations**
- INR 5086 (4) INR 6007 (4) INR 6107 (4)

**Field IV American National and State Governments**
- POS 5094 (4) POS 6127 (4) POS 6427 (4)
- POS 6045 (4) POS 6415 (4) POS 6455 (4)

**Field V Urban Government and Politics**
- PAD 5807 (4) POS 5155 (4) PUP 6538 (4)
- PAD 6306 (4) POS 6157 (4) URP 6056 (4)

**Field VI Public Administration**
- PAD 5805 (4) PAD 5836 (4) PAD 6207 (4)
- PAD 5333 (4) PAD 6037 (4) PAD 6228 (4)
- PAD 5417 (4) PAD 6060 (4) PUP 6007 (4)
- PAD 5612 (4)

**Field VII Law and Politics**
- PAD 5605 (4) POS 6607 (4) POS 6698 (4)
- POS 5699 (4)

The following non-field courses may be used as elective hours:
- POS 6909 (1-5) POS 6942 (1-8)
- POS 6919(var.) POS 6971 (9)
- 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 plan of study for an M.P.A. student consists of the following course distribution:

1. **Twelve credit hours of core courses:**
   - PAD 6060 POS 5734 POS 5764

2. **Twenty credit hours in one of the three substantive areas:**
   - **Area I—National and State Administrative Systems:**
     - PAD 5035 PAD 5807 POS 6095
     - PAD 5333 PAD 5836 POS 6909
     - PAD 5417 PAD 6037 POS 6919
     - PAD 5605 PAD 6207 POS 6934
     - PAD 5612
   - **Area II—Urban Administration:**
     - PAD 5333 PAD 6306 POS 6919
     - PAD 5417 POS 5155 POS 6934
     - PAD 5807 POS 6095 PUP 6538
     - PAD 6207 POS 6157 URP 6056
     - PAD 6228 POS 6909
   - **Area III—Public Policy:**
     - PAD 5035 PAD 6207 POS 6919
     - PAD 5333 PAD 6306 POS 6934
     - PAD 5417 POS 6909 PUP 6007
     - PAD 6037

3. **Twelve credit hours of electives with a minimum of 6 hours from the College of Business Administration and other courses to be designated by the Department.**

4. **Eight 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)

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 man's role in modern society, tactics of social change, personal adjustment, and educational goals and strategies. 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, aging studies, counseling, women's studies, black studies, or community relations.

The faculty of the Psychology department is divided into three broad program areas: Clinical-Community, Experimental-Physiological, and Industrial-Organizational. Each of these program areas offers M.A. and Ph.D. level training as well as instruction at the undergraduate level. Members of the Clinical-Community faculty offer coursework and training in the areas of abnormal psychology, developmental psychology, behavior modification, psychotherapy, personality, and psychological assessment. Individual research experience is also available to qualified students. Members of the Experimental-Physiological faculty provide coursework and, for qualified students, direct and extensive research experience, in the areas of comparative psychology, electrophysiology, learning and conditioning, human memory, perception, and information processing. Members of the Industrial-Organizational faculty offer coursework and special training in areas including selection, training and evaluation of employees, job motivation and satisfaction, small group analysis, organizational theory, and human factors.

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

- Majors must complete at least 46 credit hours in the field.
- All majors must complete:
  - PSY 2012 (4) PSY 3013 (4) PSY 3213 (5)
  - PSY 3214 (5)
Admission to Graduate Study:

Applications for admission to the Ph.D. degree program are considered only once per year, for admission into the program in September of that year. The deadline for completed applications is February 1. A completed application includes a complete transcript of college work, a copy of scores on the GRE Aptitude Test, and three letters of recommendation (preferably from college instructors). Admission to the program is on a competitive basis. Details concerning the program, including a description of the credentials needed to be competitive with other applicants, and the Graduate Program in Psychology Handbook, are available from the Chairperson. Graduate Admissions Committee, Department of Psychology, USF, Tampa, Florida 33620.

All graduate applicants are accepted to work toward the Ph.D. Work on the M.A. is considered as the initial portion of the Ph.D. Program. The M.A. is not intended to be the terminal degree.

Requirements for the M.A. Degree:

General requirements for graduate work are given on pages 46-51.

The student must complete 50 credit hours of graduate psychology courses. All students must take at least two of the three methods courses, each of which must have a different topic, listed under PSY 6217. In addition, the student must complete a minimum of five of the following ten courses:

- CLP 4134
- EXP 4204
- DEP 4004
- PSB 4013
- EXP 4404
- SOP 4004
- PSY 4205
- DEP 6058
- EXP 4523
- PSY 6058

The selection of these courses will be made by mutual agreement of the student and his advisory 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. Successful waiver may be used to reduce the overall credit hours 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 (PSE). (See College of Education, page 73.)

Requirements for the Ph.D. Degree:

The Ph.D. in Psychology is offered in the fields of Clinical, General Experimental, and Industrial-Organizational Psychology. Specific requirements are determined by the student and his supervisory 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 51.

1. Reading knowledge of two foreign languages, or substitution for either or both languages by demonstrated competency in an area or areas approved by the Psychology department. Two substitutive areas currently approved are computer usage skills and electronics skills.
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 completing the program, graduates are eligible to sit for the national certification examination of the Commission on Rehabilitation Counselor Certification. After passing this examination, the graduate is registered with the commission as a Certified Rehabilitation Counselor (CRC).

Requirements for the M.A. Degree:

General requirements for graduate work are given on pages 46-51.

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 135 quarter hours, a total Quantitative-Verbal score of at least 1000 on the GRE or a B average on all work beyond 90 credit 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.

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 quarter 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 65-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).

- EGC 5065 (5) EGC 6205 (5) EGC 6727 (5)
- EGC 5376 (5) EGC 6374 (3) EGC 6767 (5)
- EGC 5493 (4) EGC 6375 (5) EGC 6851 (2)
- EGC 5725 (5) EGC 6468 (5) EGC 6885 (10)
- EGC 5850 (2) EGC 6494 (4)

Additional requirements for graduation include:

**Non-thesis program:** Students in the non-thesis program must complete a minimum of 75 credit hours in the post-baccalaureate program and a total of no less than 225 hours in the five-year program (including the 65-hour core courses). Additional hours to complete either the minimum of 75 credit hours or the minimum of 225 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 68 credit hours in the post-baccalaureate program and a total of no less than 225 hours in the five-year program (including the 65-hour core courses). Additional hours to complete the minimum of 225 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)

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 programs, etc. The student will develop an understanding of the dynamics of human behavior in individual, group and organizational contexts and the influences of the socio-cultural 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 available space. Any student filing intent to seek admission or actually applying for admission to the program should be aware of this possibility.

Additionally, any student who does not maintain a GPA of at least 2.75 in social work courses while enrolled in the B.S.W. program or who clearly does not exhibit responsible professional behavior, may be subject to dismissal from the program. A social work major receiving a grade of less than "C" in a core course will be required to repeat the course.

### Admission to the Social Work Program

To be considered for admission to the B.S.W. program as a major, a student must satisfy certain criteria. Specific admission criteria may be waived for a student who is a regular employee of a social service agency. In such instances, supporting documentation of skill and experience from the agency may be used in waiving a requirement. Generally, a student must meet the following requisites.

1. A student must be admitted to the University of South Florida.
2. A student must have filed a formal declaration of intent to major in Social Work with the College of Social and Behavioral Sciences, followed by a statement to the Department of Social Work of intent to apply for admission into the program, at least one quarter in advance of application for admission.
3. A student must have completed all the General Distribution Requirements for the bachelor's degree and hold a minimum of Junior Class standing.
4. A student must have a minimal grade point average of 2.75 on transfer to USF or have achieved a minimal grade point average of 2.75 in work at USF.
5. A student must have completed at least one basic course in each of the following areas—economics, political science, psychology, and sociology.
6. A student must have completed the prerequisite course
SOW 3302, Theory and Practice of Social Work I, with a minimum grade of B.

7. A student must file a formal application for admission to the Department of Social Work and provide the names and addresses of three persons who can serve as references to the student's character and abilities. Students will not be allowed to register for advanced coursework (SOW 3403, 4232, 4102, 4343, 4510, 4361, 4341, 4930) unless a completed admission application is on file with the Social Work Admissions Committee. Admission to advanced courses in subsequent quarters is contingent upon favorable action by the Admissions Committee.

8. A student must participate in a personal admissions interview with an Admissions Committee.

Waiver of the foregoing specific criteria may be considered by the Department of Social Work upon presentation of documentation of extreme unusual circumstances. An example of such a circumstance might be a person who, though not currently employed in a social service agency, possesses a number of years of experience in the field.

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

1. Required Prerequisite for Admission to the B.S.W. Program
   
   SOW 3302 (4)

2. Social Work Practice Courses
   
   SOW 4341 (5) SOW 4343 (5)

3. Social Welfare Policy & Service Courses
   
   SOW 3203 (4) SOW 4232 (4)

4. Human Behavior and Social Environment Courses
   
   HUS 4020 (5) SOW 4102 (4)

5. Social Research Courses
   
   STA 3122 (4) SOW 3403 (4)

6. Directed Field Experience
   
   SOW 4510 (15)

7. Additional Requirements
   
   SOW 4361 (4) PAD 3003 (4)

   Approved Electives (8)

**Summary:**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Courses</td>
<td>47</td>
</tr>
<tr>
<td>Field Experience</td>
<td>15</td>
</tr>
<tr>
<td>Approved Electives</td>
<td>8</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>70</strong></td>
</tr>
</tbody>
</table>

**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 inter-personal relations can benefit from training in sociology. The benefits derive either from the knowledge gained or the skills (as in interviewing, a fundamental aspect of any formal system of people interacting with each other), or both. Specific elective courses should reflect individual differences; and the student's departmental major advisor 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 40 credit hours. The following courses may not be counted in the 40-hour minimum for the major but may be elected as additional courses: SOC 1020, MAF 2001, SOC 3696. No more than 4 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 40 credits needed to make up the major, no more than 10 credits earned elsewhere can count towards the major, and in addition, the 10 credits offered for the major must reflect courses offered here. The purpose of this rule is to insure that our certification that an individual who has majored in sociology genuinely reflects our understanding of sociology as a major and that there is no fundamental difference between the transfer student and those whose work was entirely or mostly completed at the University of South Florida.

Required courses (24 cr. hrs.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 2000 (4)</td>
<td>SOC 3612 (4)</td>
</tr>
<tr>
<td>STA 3122 (4)</td>
<td>SOC 3500 (4)</td>
</tr>
<tr>
<td>SOC 3800 (4)</td>
<td>and either SOC 3410 (4) or SOC 3422 (4)</td>
</tr>
</tbody>
</table>

For students electing a major after having successfully taken 16 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 20 credits: SOC 2000, Introduction to Sociology (or equivalent) plus 16 quarter 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 45 credit hours and a thesis.

Required Courses (23 cr. hrs.)

SOC 6502 (4)  SOC 6606 (4)  SOC 6971 (8)
SOC 6526 (5)  SOC 6699 (2)

University requirements for graduate study are given on pages 46-51.

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.
COURSE DESCRIPTIONS

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

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

Credits separated by a colon indicate concurrent lecture and laboratory courses taught as a unit:
PHY 3040, 3040L GENERAL PHYSICS AND LABORATORY (3:1)

Credits separated by 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 490S 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 Studies, p. xx.
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:

- Accounting
- Administration/Supervision
- Adult Education
- Afro-American Studies
- American Studies
- Ancient Studies (Religious Studies)
- Anthropology
- Arabic (Foreign Languages)
- Art
- Art Education
- Astronomy
- Basic and Interdisciplinary Engineering
- Biology
- Botany (Biology)
- Business and Office Education
- Chemistry
- Chemical and Mechanical Engineering
- Civil Engineering and Mechanics
- Classics (Foreign Languages)
- Communication
- Communicology
- Computer Service Courses
- Cooperative Education
- Criminal Justice
- Curriculum
- Dance
- Distributive and Marketing Education
- Economics
- Electrical Engineering
- Elementary Education
- Emotional Disturbance Education
- Engineering Technology
- English
- English Education
- Environment
- Exceptional Child Education
- Finance
- Foreign Language Education
- Foundation Courses in Business (Graduate)
- Foundations
- French (Foreign Languages)
- General Business Administration
- Geology
- German (Foreign Languages)
- Gifted Child Education
- Greek (Foreign Languages)
- Guidance and Counseling Education
- Health Education
- Hebrew (Foreign Languages)

- College
- Business Administration
- Education
- Business Administration
- Engineering
- Education
- Education
- Engineering
- Arts and Letters
- Education
- Social and Behavioral Sciences
- Education
- Business Administration
- Education
- Business Administration
- Education
- Arts and Letters
- Business Administration
- Social and Behavioral Sciences
- Natural Sciences
- Social and Behavioral Sciences
- Arts and Letters
- Education
- Education
- Natural Sciences
- Arts and Letters
- Education
- Education
- Education

163
### Explanation of Florida's Statewide Course Numbering System

The course numbers appearing in this Catalog are part of a statewide system of prefixes and numbers developed for use by all public postsecondary and participating private institutions in Florida. One of the major purposes of this system is to make transferring easier by identifying courses which are equivalent, no matter where they are taught in the state. All courses designated as equivalent will carry the same prefix and last three digits.

The classifying and numbering of courses was done by community college and university faculty members in each academic discipline. Their work was reviewed by faculty members in all of Florida's postsecondary institutions who made suggestions and criticisms to be incorporated into the system.

The course numbering system is, by law, descriptive and not prescriptive. It in no way limits or controls what courses may be offered or how they are taught. It does not affect course titles or descriptions at individual schools. It seeks only to describe what is being offered in postsecondary education in Florida in a manner that is intelligible and useful to students, faculty and other interested users of the system.

The course numbering system was developed so that equivalent courses could be accepted for transfer without misunderstanding. Each public institution is to accept for transfer credit any course which carries the same prefix and last three digits as a course at the receiving institution. For example, if a student has taken SOC_000 at a community college, he cannot be required to repeat SOC_000 at the school to which he transfers. Further, credit for any course or its equivalent, as judged by the appropriate faculty task force and published in the course numbering system, which can be used by a native student to satisfy degree requirements at a state university can also be used for that purpose by a transfer student regardless of where the credit was earned.

It should be noted that a receiving institution is not precluded from using non-equivalent courses for satisfying certain requirements.

#### General Rule for Course Equivalencies

All undergraduate courses bearing the same alpha prefix and last three numbers (and alpha suffix, if present) have been agreed upon to be equivalent. For example, an introductory course in sociology is offered in over 40 post secondary institutions in Florida. Since these courses are considered to be equivalent, each one will carry the designator SOC_000.

#### First Digit

The first digit of the course number is assigned by the institution, generally to indicate the year it is offered — e.g., 1 indicates freshman year, 2 indicates sophomore year. In the sociology example mentioned above, one school which offers the course in the freshman year will number it SOC 1000; a school offering the same course in the sophomore year will number it SOC 2000. The variance in first numbers does not affect the equivalency. If the prefix and last three digits are the same, the courses are substantively equivalent.

#### Titles

Each institution will retain its own title for each of its courses. The sociology courses mentioned above are titled at
different schools: "Introductory Sociology," "General Sociology," and "Principles of Sociology." The title does not affect the equivalency. The courses all carry the same prefix and last three digits; that is what identifies them as equivalent.

**Lab Indicators**

Some courses will carry an alpha suffix indicating a lab. The alpha suffixes "L" and "C" are used as follows to indicate laboratories:

- "L" means either (a) a course, the content of which is entirely laboratory, or (b) the laboratory component of a lecture-lab sequence in which the lab is offered at a different time/place from the lecture.
- "C" means a combined lecture-lab course in which the lab is offered in conjunction with the lecture at the same time/place.

Examples: Marine Biology OCB 013 (lecture only) OCB 013L (lab only)
Marine Biology OCB 013C (lecture and lab combined) with Lab
Therefore, OCB 013C is equivalent to OCB 013 plus OCB 013L.

**Equivalency of Sequences**

In certain cases, the sequences of courses in a given discipline are equivalent rather than the individual courses which make up these sequences. (For example, MAC 132, 133, 134). In these cases the subject matter topics may not be taught in the same sequence, course by course, in several institutions; however, upon completion of the full sequence at any of the several institutions, students have completed substantively equivalent content. These sequences are clearly identified in the Course Equivalency Profiles.

**Explanation of Prefixes and Numbers**

Prefixes and numbers in the course numbering system are not chosen at random; they are designed to describe course content in an organized fashion within a classification system developed for each subject matter area.

Generally, each of the major classifications in a discipline is represented by a three-alpha prefix. In some cases, one three-alpha prefix has been sufficient for the entire discipline. A discipline may use as many prefixes as necessary to accommodate its major classifications. The logic of the system allows it to be infinitely expandable with minimal disruption to existing numbers.

History, for example, has seven prefixes: AFH, African History; AMH, American History; ASH, Asian History; EIH, European History; HIS, History-General; LAH, Latin American History; and WOH, World History. All history courses in the state will carry one of these prefixes.

A more specific example is AMH 3421, Early Florida History:

- AMH 3421, Early Florida History:
  - Broad area of American History: AMH
  - Part of discipline of History: 3
  - Junior level offering (at this particular institution): 4
  - In Taxonomy for AMH 400 series indicates "Areas in American History": 2
  - In Taxonomy for AMH this digit indicates courses in "History of Florida": 1
  - Last digit in this case refers to group of equated courses dealing with "Early History of Florida"

(Local titles are used for each particular course. The last three numbers are used to indicate equivalency.)

The number of prefixes is a function of the extent of the sub-classifications of the given subject matter area.

When this work began there were 920 alpha prefixes in existence; with the new system there are now 370. As in most states there existed no uniformity in Florida's prefixes as indicated by the example below:

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Before</th>
<th>After</th>
</tr>
</thead>
<tbody>
<tr>
<td>History</td>
<td>20</td>
<td>7</td>
</tr>
<tr>
<td>Sociology</td>
<td>24</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy</td>
<td>23</td>
<td>4</td>
</tr>
<tr>
<td>Religion</td>
<td>17</td>
<td>1</td>
</tr>
<tr>
<td>Mathematics</td>
<td>50</td>
<td>10</td>
</tr>
<tr>
<td>English</td>
<td>39</td>
<td>6</td>
</tr>
<tr>
<td>Nutrition</td>
<td>38</td>
<td>4</td>
</tr>
</tbody>
</table>

Although it is true that a student majoring at one of the 38 participating institutions may have only one alpha prefix for his major (e.g., HY-History) and now he will have seven, all prefixes in the same subject matter areas will be the same throughout these institutions.

A complete inventory of taxonomic listings, equivalent and unique courses, has been made available to each academic department of every institution in the state. Students, through their local advisers, should use this information in designing programs which will transfer smoothly.

**Exceptions to the Rule for Equivalencies**

The following are exceptions to the general rule for course equivalencies:

A. All graduate level courses (except those which the faculty and their reviewing colleagues have determined to be substantively equivalent with undergraduate courses) are not automatically transferable.

B. All numbers which have a second digit of 9 (e.g., ART 2905) are "place keeper" numbers for such courses as directed independent study, thesis hours, etc. Courses with .900 numbers must be evaluated individually and are not automatically transferable.

C. All internships, practicums, clinical experiences, and study abroad courses, whatever numbers they carry, are not automatically transferable.

D. Performance or studio courses in Art, Dance, Theatre, and Music are not automatically transferable but must be evaluated individually.

**Authority for Acceptance of Equivalent Courses**

The following amendment to Section 6A-10.24(7) of the Articulation Agreement was approved by the Community Colleges Council on Instructional Affairs, the President's Council, the Division of Community Colleges, the State University System Council of Vice Presidents for Academic Affairs, the Council of Presidents and the Board of Regents. It was adopted by the State Board of Education on March 7, 1978: "... Students who earn credit in a course determined by the appropriate faculty task force to be equivalent and which is published in the state-wide course numbering system, and who later transfer to another institution within the system can transfer and use the credit in that course at the receiving institution for the same purpose as the course can be used by native students who complete the course at the receiving institution."
# 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 of Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>University-wide Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooperative Education</td>
<td>COE</td>
<td></td>
</tr>
<tr>
<td>Honors Program</td>
<td>IDS</td>
<td></td>
</tr>
<tr>
<td>Military Science</td>
<td>MIS</td>
<td></td>
</tr>
<tr>
<td>Physical Education, Elect</td>
<td>DAA, PEL, PEM, PEN</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PEQ, PET</td>
<td></td>
</tr>
<tr>
<td>College of Arts and Letters</td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Studies</td>
<td>AMS</td>
<td></td>
</tr>
<tr>
<td>Communication</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foreign Languages</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Foreign Languages</td>
<td>FOL</td>
<td></td>
</tr>
<tr>
<td>Arabic</td>
<td>ARA</td>
<td></td>
</tr>
<tr>
<td>Classics</td>
<td>CLT</td>
<td></td>
</tr>
<tr>
<td>French</td>
<td>FLE, FRE, FRT, FRW</td>
<td></td>
</tr>
<tr>
<td>German</td>
<td>GER, GET, GEW</td>
<td></td>
</tr>
<tr>
<td>Greek</td>
<td>GRE, GRW</td>
<td></td>
</tr>
<tr>
<td>Hebrew</td>
<td>HEB</td>
<td></td>
</tr>
<tr>
<td>Italian</td>
<td>ITA, ITT, ITW</td>
<td></td>
</tr>
<tr>
<td>Latin</td>
<td>LAT, LNW</td>
<td></td>
</tr>
<tr>
<td>Portuguese</td>
<td>POR, POW</td>
<td></td>
</tr>
<tr>
<td>Romance</td>
<td>FOL, FOW</td>
<td></td>
</tr>
<tr>
<td>Russian</td>
<td>RUS, RUT, RUW</td>
<td></td>
</tr>
<tr>
<td>Spanish</td>
<td>SPN, SPT, SPW</td>
<td></td>
</tr>
<tr>
<td>English</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td>HUM</td>
<td></td>
</tr>
<tr>
<td>Liberal Studies</td>
<td>IDS</td>
<td></td>
</tr>
<tr>
<td>Mass Communications</td>
<td>ADV, ENG, FIL, JOU, MMC,PUR, RTV, VIC</td>
<td></td>
</tr>
<tr>
<td>Philosophy</td>
<td>PHH, PHI, PHM, PHP</td>
<td></td>
</tr>
<tr>
<td>Religious Studies</td>
<td>GRE, REL</td>
<td></td>
</tr>
<tr>
<td>Ancient Studies</td>
<td>CLA, HEB</td>
<td></td>
</tr>
<tr>
<td>College of Business Administration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accounting</td>
<td>ACC</td>
<td>EGN, EMC</td>
</tr>
<tr>
<td>Economics</td>
<td>ECO, ECP, ECS, GEB</td>
<td>CDA, CIS, CNM, COP, COT,EEL, ELR, ESI, MAP</td>
</tr>
<tr>
<td>Finance</td>
<td>FIN, REE, RMI</td>
<td>ECH, EMC, EML, ENU</td>
</tr>
<tr>
<td>Foundation Courses in Business (Graduate)</td>
<td>GEB, MAN</td>
<td>EIN, ESI</td>
</tr>
<tr>
<td>General Business Administration</td>
<td></td>
<td>CES, EAS, ECI, EES, EGM, EMA, ENV, SUR, TTE</td>
</tr>
<tr>
<td>Management</td>
<td>BUL, COC, GEB, MAN, QMB</td>
<td>CAP, CDA, COC, COP, CRM</td>
</tr>
<tr>
<td>Marketing</td>
<td>MAR</td>
<td>BCN, ETC, ETB, ETD, ETM, ETW</td>
</tr>
<tr>
<td>College of Education</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administration/Supervision</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adult Education</td>
<td>EDA, EDS</td>
<td>ARH, ART</td>
</tr>
<tr>
<td>Art Education</td>
<td>ADE</td>
<td>DAA, DAN</td>
</tr>
<tr>
<td>Business and Office Education</td>
<td></td>
<td>MUC, Mug, MUH, MUL</td>
</tr>
<tr>
<td>Curriculum</td>
<td>BTE</td>
<td>MUN, MUO, MUS, MUT,MVB, MKV, MVP, MYS, MVV, MVW</td>
</tr>
<tr>
<td>Distributive and Marketing Education</td>
<td>DEC</td>
<td>THE, TPA, TPP</td>
</tr>
<tr>
<td>Elementary Education</td>
<td>ARE, EDE, EDG, EDS, EEC, HLP, LAE, MAE, MUE, RED, SCE, SSE</td>
<td></td>
</tr>
<tr>
<td>Emotional Disruption Education</td>
<td>EED</td>
<td></td>
</tr>
<tr>
<td>English Education</td>
<td>EDG, LAE</td>
<td></td>
</tr>
<tr>
<td>Exceptional Child Education</td>
<td>EEX</td>
<td></td>
</tr>
<tr>
<td>College of Fine Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Music</td>
<td></td>
<td></td>
</tr>
<tr>
<td>College of Medicine</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medicine</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medical Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>College of Natural Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Astronomy</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Cross-Listing of Departments/Programs Alphabetically by Prefix

<table>
<thead>
<tr>
<th>Common Course Prefix</th>
<th>Department/Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC</td>
<td>Accounting</td>
</tr>
<tr>
<td>ADE</td>
<td>Adult Education</td>
</tr>
<tr>
<td>ADV</td>
<td>Mass Communications</td>
</tr>
<tr>
<td>AFA</td>
<td>Afro-American Studies</td>
</tr>
<tr>
<td>AFH</td>
<td>Afro-American Studies, History</td>
</tr>
<tr>
<td>AFS</td>
<td>Afro-American Studies, International Studies Program</td>
</tr>
<tr>
<td>AMH</td>
<td>Afro-American Studies, History</td>
</tr>
<tr>
<td>AMS</td>
<td>American Studies</td>
</tr>
<tr>
<td>ANT</td>
<td>Anthropology, Women's Studies</td>
</tr>
<tr>
<td>APB</td>
<td>Biology, Botany, Microbiology (Biology)</td>
</tr>
<tr>
<td>ARA</td>
<td>Arabic (Foreign Languages)</td>
</tr>
<tr>
<td>ARE</td>
<td>Art Education, Elementary Education</td>
</tr>
<tr>
<td>ARH</td>
<td>Art</td>
</tr>
<tr>
<td>ART</td>
<td>History</td>
</tr>
<tr>
<td>ASH</td>
<td>History</td>
</tr>
<tr>
<td>ASN</td>
<td>International Studies Program</td>
</tr>
<tr>
<td>AST</td>
<td>Astronomy</td>
</tr>
<tr>
<td>BCC</td>
<td>Medicine</td>
</tr>
<tr>
<td>BCH</td>
<td>Chemistry</td>
</tr>
<tr>
<td>BCN</td>
<td>Engineering Technology</td>
</tr>
<tr>
<td>BMS</td>
<td>Medicine, Medical Sciences</td>
</tr>
<tr>
<td>BOT</td>
<td>Biology, Botany (Biology)</td>
</tr>
<tr>
<td>BSC</td>
<td>Biology</td>
</tr>
<tr>
<td>BTE</td>
<td>Business and Office Education</td>
</tr>
<tr>
<td>BUL</td>
<td>General Business Administration</td>
</tr>
<tr>
<td>CAP</td>
<td>Computer Service Courses, Mathematics Education</td>
</tr>
<tr>
<td>CBH</td>
<td>Psychology</td>
</tr>
<tr>
<td>CCJ</td>
<td>Criminal Justice</td>
</tr>
<tr>
<td>CDA</td>
<td>Computer Service Courses, Electrical Engineering</td>
</tr>
<tr>
<td>CES</td>
<td>Civil Engineering and Mechanics</td>
</tr>
<tr>
<td>CHM</td>
<td>Chemistry</td>
</tr>
<tr>
<td>CHS</td>
<td>Chemistry</td>
</tr>
<tr>
<td>CIS</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>CLA</td>
<td>Ancient Studies (Religious Studies)</td>
</tr>
<tr>
<td>CLP</td>
<td>Psychology</td>
</tr>
<tr>
<td>CLT</td>
<td>Classics (Foreign Languages)</td>
</tr>
<tr>
<td>CNM</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>COC</td>
<td>Computer Service Courses, General Business Administration</td>
</tr>
<tr>
<td>COE</td>
<td>Cooperative Education</td>
</tr>
<tr>
<td>COM</td>
<td>Communication</td>
</tr>
<tr>
<td>COP</td>
<td>Computer Service Courses, Electrical Engineering, Library, Media and Information Studies, Mathematics</td>
</tr>
<tr>
<td>COT</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>CPO</td>
<td>Afro-American Studies, Political Science</td>
</tr>
<tr>
<td>CRM</td>
<td>Computer Service Courses</td>
</tr>
<tr>
<td>CRW</td>
<td>English</td>
</tr>
<tr>
<td>DAA</td>
<td>Dance, Physical Education (Elective)</td>
</tr>
<tr>
<td>DAN</td>
<td>Dance</td>
</tr>
<tr>
<td>DEC</td>
<td>Distributive and Marketing Education</td>
</tr>
<tr>
<td>DEP</td>
<td>Psychology</td>
</tr>
<tr>
<td>DHE</td>
<td>Sociology</td>
</tr>
<tr>
<td>EAB</td>
<td>Psychology</td>
</tr>
<tr>
<td>EAS</td>
<td>Civil Engineering and Mechanics</td>
</tr>
<tr>
<td>ECH</td>
<td>Chemical and Mechanical Engineering</td>
</tr>
<tr>
<td>ECI</td>
<td>Civil Engineering and Mechanics</td>
</tr>
<tr>
<td>ECO</td>
<td>Economics</td>
</tr>
<tr>
<td>ECP</td>
<td>Afro-American Studies, Economics</td>
</tr>
<tr>
<td>ECS</td>
<td>Economics</td>
</tr>
<tr>
<td>EDA</td>
<td>Administration/Supervision</td>
</tr>
<tr>
<td>EDE</td>
<td>Curriculum, Elementary Education</td>
</tr>
<tr>
<td>EDF</td>
<td>Foundations, Measurement-Research, Women's Studies</td>
</tr>
<tr>
<td>EDG</td>
<td>Curriculum, Elementary Education, English Education, Specific Learning Disabilities, Speech Communication-English Education</td>
</tr>
<tr>
<td>EDH</td>
<td>Higher Education</td>
</tr>
<tr>
<td>EDM</td>
<td>Curriculum</td>
</tr>
<tr>
<td>EDS</td>
<td>Elementary Education, Administration/Supervision</td>
</tr>
<tr>
<td>EE</td>
<td>Elementary Education</td>
</tr>
<tr>
<td>EED</td>
<td>Emotional Disturbance Education</td>
</tr>
<tr>
<td>EEL</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>EES</td>
<td>Civil Engineering and Mechanics</td>
</tr>
<tr>
<td>EEX</td>
<td>Exceptional Child Education</td>
</tr>
<tr>
<td>EGC</td>
<td>Guidance and Counseling Education, Rehabilitation Counseling</td>
</tr>
</tbody>
</table>
### Basic Electrical Engineering
- English
- Mass Communications

### English, Mass Communications
- Basic and Interdisciplinary
- Industrial / Technical Education
- Civil Engineering and Mechanics

### Civil Engineering and Mechanics
- English
- Zoology (Biology)

### Chemistry and Mechanical Engineering
- Zoology (Biology)

### Zoology (Biology)
- Zoology (Biology)
- Zoology (Biology)
- Zoology (Biology)

### Zoology (Biology)
- Zoology (Biology)
- Zoology (Biology)

### Psychology
- Psychology

### History
- History
- History
- History

### Italian (Foreign Languages)
- Italian (Foreign Languages)

### Italian (Foreign Languages)
- Italian (Foreign Languages)

### Mass Communications
- Mass Communications

### Communication, English
- Communication, English

### Library, Media and Information Studies
- Library, Media and Information Studies

### English, Women's Studies
- English, Women's Studies

### Language, Women's Studies
- Language, Women's Studies

### Physical Education for Teachers, Social Sciences
- Physical Education for Teachers, Social Sciences

### Interdisciplinary
- Interdisciplinary

### Mathematics
- Mathematics
- Mathematics
- Mathematics

### Microbiology (Biology)
- Microbiology (Biology)

### Medical Technology
- Medical Technology

### Mass Communications
- Mass Communications

### Mathematics
- Mathematics

### Music
- Music

### Elementary Education, Music Education
- Elementary Education, Music Education

### Anthropology, Music
- Anthropology, Music

### Music
- Music

### Music
- Music

### Music
- Music

### Music
- Music

### Nursing
- Nursing

### Marine Science
- Marine Science

### Chemistry, Marine Science
- Chemistry, Marine Science

### Geology, Marine Science
- Geology, Marine Science

### Marine Science
- Marine Science

### Mass Communications
- Mass Communications

### Communication
- Communication

### Political Science
- Political Science

### Biology, Marine Science, Microbiology (Biology)
- Biology, Marine Science, Microbiology (Biology)

### Zoology (Biology)
- Zoology (Biology)

### Physical Education (Elective)
- Physical Education (Elective)

### Physical Education for Teachers
- Physical Education for Teachers

### Physical Education (Elective)
- Physical Education (Elective)

### Physical Education for Teachers
- Physical Education for Teachers

### Physical Education (Elective)
- Physical Education (Elective)

### Physical Education for Teachers
- Physical Education for Teachers
<table>
<thead>
<tr>
<th>Code</th>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHH</td>
<td>Philosophy</td>
</tr>
<tr>
<td>PHI</td>
<td>Communication, Philosophy</td>
</tr>
<tr>
<td>PHM</td>
<td>Afro-American Studies, Philosophy</td>
</tr>
<tr>
<td>PHP</td>
<td>Philosophy</td>
</tr>
<tr>
<td>PHS</td>
<td>Physics</td>
</tr>
<tr>
<td>PHY</td>
<td>Physics</td>
</tr>
<tr>
<td>POR</td>
<td>Portuguese (Foreign Languages)</td>
</tr>
<tr>
<td>POS</td>
<td>Political Science, Women's Studies</td>
</tr>
<tr>
<td>POT</td>
<td>Political Science</td>
</tr>
<tr>
<td>POW</td>
<td>Portuguese (Foreign Languages)</td>
</tr>
<tr>
<td>PPE</td>
<td>Psychology</td>
</tr>
<tr>
<td>PSB</td>
<td>Psychology</td>
</tr>
<tr>
<td>PSY</td>
<td>Psychology</td>
</tr>
<tr>
<td>PUP</td>
<td>Afro-American Studies, Political Science</td>
</tr>
<tr>
<td>PUP</td>
<td>Mass Communications</td>
</tr>
<tr>
<td>QMB</td>
<td>General Business Administration, Management</td>
</tr>
<tr>
<td>RED</td>
<td>English</td>
</tr>
<tr>
<td>RED</td>
<td>Elementary Education, Reading Education</td>
</tr>
<tr>
<td>REE</td>
<td>Finance</td>
</tr>
<tr>
<td>REL</td>
<td>Religious Studies, Women's Studies</td>
</tr>
<tr>
<td>RMI</td>
<td>Finance</td>
</tr>
<tr>
<td>RTV</td>
<td>Mass Communications</td>
</tr>
<tr>
<td>RUS</td>
<td>Russian (Foreign Languages)</td>
</tr>
<tr>
<td>RUT</td>
<td>Russian (Foreign Languages)</td>
</tr>
<tr>
<td>RUW</td>
<td>Russian (Foreign Languages)</td>
</tr>
<tr>
<td>SCE</td>
<td>Elementary Education, Science Education</td>
</tr>
<tr>
<td>SED</td>
<td>Communication, Speech Communication-</td>
</tr>
<tr>
<td></td>
<td>English Education</td>
</tr>
<tr>
<td>SOC</td>
<td>Sociology</td>
</tr>
<tr>
<td>SOP</td>
<td>Psychology, Women's Studies</td>
</tr>
<tr>
<td>SOW</td>
<td>Human Services, Social Work</td>
</tr>
<tr>
<td>SPA</td>
<td>Communicology</td>
</tr>
<tr>
<td>SPC</td>
<td>Communication</td>
</tr>
<tr>
<td>SPN</td>
<td>Spanish (Foreign Languages)</td>
</tr>
<tr>
<td>SPS</td>
<td>Foundations</td>
</tr>
<tr>
<td>SPT</td>
<td>Spanish (Foreign Languages)</td>
</tr>
<tr>
<td>SPW</td>
<td>Spanish (Foreign Languages)</td>
</tr>
<tr>
<td>SSE</td>
<td>Elementary Education, Social Science Education</td>
</tr>
<tr>
<td>SSI</td>
<td>International Studies Program, Social Sciences Interdisciplinary</td>
</tr>
<tr>
<td>STA</td>
<td>Mathematics, Social Sciences Interdisciplinary</td>
</tr>
<tr>
<td>SUR</td>
<td>Civil Engineering and Mechanics</td>
</tr>
<tr>
<td>THE</td>
<td>Theatre</td>
</tr>
<tr>
<td>TPA</td>
<td>Theatre</td>
</tr>
<tr>
<td>TPP</td>
<td>Theatre</td>
</tr>
<tr>
<td>TSL</td>
<td>Communication</td>
</tr>
<tr>
<td>TTE</td>
<td>Civil Engineering and Mechanics</td>
</tr>
<tr>
<td>URP</td>
<td>Geography, Political Sciences</td>
</tr>
<tr>
<td>VIL</td>
<td>Mass Communications</td>
</tr>
<tr>
<td>WOH</td>
<td>History</td>
</tr>
<tr>
<td>WST</td>
<td>International Studies Program, Women's Studies</td>
</tr>
<tr>
<td>ZOO</td>
<td>Marine Science, Zoology (Biology)</td>
</tr>
</tbody>
</table>
COOPERATIVE EDUCATION

Director: G. F. Lentz; Coordinators: L. J. Berman, C.W. Jarman.

UNDERGRADUATE COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COE 1940</td>
<td>COOPERATIVE EDUCATION, 1ST TRAINING PERIOD</td>
<td>PR: 45 hours of academic credit, acceptance in Cooperative Education Program. (S/U only.)</td>
</tr>
<tr>
<td>COE 1941</td>
<td>COOPERATIVE EDUCATION, 2ND TRAINING PERIOD</td>
<td>PR: COE 1940. (S/U only.)</td>
</tr>
<tr>
<td>COE 2942</td>
<td>COOPERATIVE EDUCATION, 3RD TRAINING PERIOD</td>
<td>PR: COE 1941. (S/U only.)</td>
</tr>
<tr>
<td>COE 2943</td>
<td>COOPERATIVE EDUCATION, 4TH TRAINING PERIOD</td>
<td>PR: COE 2942. (S/U only.)</td>
</tr>
<tr>
<td>COE 2944</td>
<td>COOPERATIVE EDUCATION, 5TH TRAINING PERIOD</td>
<td>PR: COE 2943. (S/U only.)</td>
</tr>
<tr>
<td>COE 2945</td>
<td>COOPERATIVE EDUCATION, 6TH TRAINING PERIOD</td>
<td>PR: COE 2944. (S/U only.)</td>
</tr>
<tr>
<td>COE 2946</td>
<td>COOPERATIVE EDUCATION, 7TH TRAINING PERIOD</td>
<td>PR: COE 2945. (S/U only.)</td>
</tr>
<tr>
<td>COE 2947</td>
<td>COOPERATIVE EDUCATION, 8TH TRAINING PERIOD</td>
<td>PR: COE 2946. (S/U only.)</td>
</tr>
<tr>
<td>COE 2948</td>
<td>COOPERATIVE EDUCATION, 9TH TRAINING PERIOD</td>
<td>PR: COE 2947. (S/U only.)</td>
</tr>
<tr>
<td>COE 2949</td>
<td>COOPERATIVE EDUCATION, 10TH TRAINING PERIOD</td>
<td>PR: COE 2948. (S/U only.)</td>
</tr>
</tbody>
</table>

HONORS PROGRAM

Director: M. V. Angrosino

UNDERGRADUATE COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDS 3901</td>
<td>HONORS PROGRAM READING SEMINAR</td>
<td>PR: Admission to University Honors Program. Reading seminar in which students read one major work a week and participate in discussions led by a specialist in a chosen field (topics vary). First of a two-part sequence.</td>
</tr>
<tr>
<td>IDS 3902</td>
<td>HONORS PROGRAM READING SEMINAR</td>
<td>PR: Admission to University Honors Program. Reading seminar in which students read one major work a week and participate in discussions led by a specialist in a chosen field (topics vary). Second of a two-part sequence.</td>
</tr>
<tr>
<td>IDS 3931</td>
<td>HONORS PROGRAM SELECTED TOPICS</td>
<td>PR: Admission to University Honors Program. Seminar focuses on one major problem central to a selected discipline outside a student’s major. The purpose of the seminar is to demonstrate in some depth how another discipline defines, attacks, and resolves its major problem.</td>
</tr>
<tr>
<td>IDS 4938</td>
<td>HONORS PROGRAM SENIOR SEMINAR</td>
<td>PR: Admission to University Honors Program. This seminar serves to integrate the many strands of a student’s college experience through analysis of a problem of contemporary concern as approached by the various disciplines represented by students in the seminar.</td>
</tr>
</tbody>
</table>

MILITARY SCIENCE

UNDERGRADUATE COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIS 3410C</td>
<td>FUNDAMENTALS OF LEADERSHIP</td>
<td>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.</td>
</tr>
<tr>
<td>MIS 4412C</td>
<td>SEMINAR IN LEADERSHIP AND MANAGEMENT</td>
<td>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.</td>
</tr>
</tbody>
</table>

OFF-CAMPUS TERM

Director: D. K. Lupton.

UNDERGRADUATE COURSES

The following courses are provided for students admitted in the Off-Campus Term Program.

- **IDS 4905**: OFF CAMPUS TERM INDEPENDENT STUDY (1-2) (S/U only.)
- **IDS 4910**: COMMUNITY INTERACTION (3-5) (S/U only.)
- **IDS 4942**: OFFICE CAMPUS TERM SOCIAL ACTION PROJECT (1-2) (S/U only.)
- **IDS 4943**: OFF CAMPUS TERM SPECIAL PROJECT (1-2) (S/U only.)
- **IDS 4955**: OFF CAMPUS TERM INTERNATIONAL PROGRAM (1-2) (S/U only.)

PHYSICAL EDUCATION-ELECTIVE

Director: R. T. Bowers; Professors: R. T. Bowers, R. E. Hesch, G. W. Hertz; Associate Professors: D. L. Holcomb, H. A. Hensler, A. J. Jonaitis, S. W. Prather, Jr., S. C. Taylor, J. E. Young; Assistant Professor: I. Trice, Visiting Associate Professor: R. J. Grindley.

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  
Introductory experience in the sport of golf. Fundamental skills, information, strategy, and participation. (S/U only.)

PEL 1141L  ARCHERY  
Development and refinement of the essential skills and information necessary for enjoying the sport of Archery. (S/U only.)

PEL 1341L  TENNIS I  
Introductory experiences in the sport of tennis. Basic skills, playing strategies, lecture, demonstration, and participation. (S/U only.)

PEL 1346L  BADMINTON  
Progressive experiences in badminton, fundamental skills, strategy, information, and participation. (S/U only.)

PEL 2122L  GOLF II  
Continuation of PEL 1121L. Emphasis on course play and refinement of strokes. (S/U only.)

PEL 2321L  VOLLEYBALL  
Review and refinement of fundamental skills, presentation and practice of the various offensive and defensive strategies. (S/U only.)

PEL 2342L  TENNIS II  
Continuation of PEL 1314L. Refinement of basic skills, supplementary strokes, greater emphasis on tactics and playing strategies. (S/U only.)

PEL 2421L  HANDBALL  
Development and refinement of the skills and strategies of Handball with opportunity for competition and tournament play. (S/U only.)

PEL 2441L  RACKETBALL  
Development and refinement of the skills and strategies of Racketball with opportunity for competition and tournament play. (S/U only.)

PEL 2511L  SOCCER  
A course designed to present essential knowledge of the game of soccer. Instruction and practice of basic skills, rules, team play, and conditioning. (S/U only.)

PEL 2621L  BASKETBALL  
Review and refinement of fundamental skills, presentation and practice of the various offensive and defensive strategies. (S/U only.)

PEM 1201L  GYMNASTICS I  
Introductory experiences in the various gymnastics events. Opportunities to specialize in areas of personal interests. (S/U only.)

PEM 1461C  FOIL FENCING  
Progressive experiences in the sport of Foil Fencing, fundamental skills, strategy, information, and participation. (S/U only.)

PEM 2160C  WEIGHT CONTROL  
Introduction to the knowledge and techniques necessary for effecting a change in a body composition. Assessment of status and development of a personal program. (S/U only.)

PEM 2202L  GYMNASTICS II  
Continuation of PEL 1201L. Extended opportunities to master the various gymnastics events. Competition and individual routines. (S/U only.)

PEM 2231L  ROCK CLIMBING  
Introductory experiences in basic rock climbing techniques and related skills. (S/U only.)

PEM 2376  BACKPACKING  
Introductory experiences designed to develop the physical skills and the mental attitude necessary to travel safely, efficiently, and considerably in the wilderness setting. (S/U only.)

PEM 2421C  WRESTLING  
Progressive experiences in the sport of Wrestling. Fundamental skills, strategy, information, and participation. (S/U only.)

PEM 2441L  KARATE  
Introductory experiences in the sport of Karate. Fundamental skills, strategy, information, and participation. (S/U only.)

PEM 2113L  LIFE SAVING  
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.)

PEM 2122L  SWIMMING II  
PR: PEN 1121L or equivalent. Continuation of PEN 1121L. Special emphasis on development of endurance and efficient stroking. (S/U only.)

PEM 2136C  SKIN & SCUBA DIVING  
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.)

PEM 2141L  SYNCHRONIZED SWIMMING  
Introductory experiences in synchronized swimming. Emphasis on essential skills; music interpretation; and choreography. (S/U only.)

PEM 2251L  CANOEING  
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  
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  
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  
PR: PET 2330C. An introduction to the mechanical principles which govern human movement. (S/U only.)

PET 4622  ATHLETIC TRAINING  
PR: CI. Principles and techniques of conditioning athletes for competition; prevention and care of injuries in physical education and athletic activities.
COLLEGE OF ARTS & LETTERS

AMERICAN STUDIES


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, architecture and American society, leisure and technology, jazz music, the role of higher education in America, the American success myth and the status of the arts in America.

AMS 3001 INTRODUCTION TO AMERICAN CIVILIZATION (2)
Integration of major aspects of American life between 1898 and 1914. Should be taken the first term a student becomes an American Studies major. Elective for non-majors.

AMS 3201 THE COLONIAL PERIOD (5)
Puritan heritage: 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 period. Elective for non-majors.

AMS 3210 THE AGRARIAN MYTH (5)
Frontier heritage: The pattern of American culture as revealed through an examination of selected writings and other pertinent materials dealing with American faith and the American frontier environment (the land, city, machine). Elective for non-majors.

AMS 3230 AMERICA DURING THE TWENTIES AND THIRTIES (5)
Heritage of the nineteen twenties and thirties: selected interdisciplinary materials are used to examine the relationships among regionalism, nationalism and internationalism during the twenties and thirties. Emphasis is placed on the measure of cultural nationalism attained by the United States during this period. Elective for non-majors.

3302 ARCHITECTURE AND THE AMERICAN ENVIRONMENT (4)
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 (4)
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 (1-5)
Offerings include The American Success Myth, Cultural Darwinism in America, America Through Foreign Eyes, Contemporary Topics in American Studies, Nineteenth and Twentieth Century American Communities.

AMS 4910 INDIVIDUAL RESEARCH (1-5)
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 (1-5)
Offerings include American Painting: Its social implications, Technology in the Twentieth Century America, American Environmental Problems, Popular Culture in America.

AMS 4935 SENIOR SEMINAR IN AMERICAN STUDIES (4)
PR: Senior in American Studies or C1.

AMS 4936 SENIOR SEMINAR IN AMERICAN STUDIES (4)
PR: AMS 4935.

AMS 4937 SENIOR SEMINAR IN AMERICAN STUDIES (4)
PR: AMS 4935, AMS 4936.

GRADUATE COURSES

AMS 6155 OUTSTANDING AMERICAN ACHIEVEMENTS (4)
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 eight (8) credit hours with departmental permission.

AMS 6254 U.S.A.: A DECADE IN DEPTH (4)
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. Other decades would serve in subsequent offerings to weave the interdisciplinary pattern of American life within a discrete period. May be repeated, up to eight (8) credit hours.

AMS 6805 MAJOR IDEAS INFLUENCING AMERICAN CIVILIZATION (4)
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 6901 DIRECTED READINGS IN AMERICAN STUDIES (1-5)
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 six credit hours.

AMS 6915 DIRECTED RESEARCH (var.)
PR: GR. Master's level. Repeatable. (S/U only.)

AMS 6934 SPECIAL TOPICS IN AMERICAN STUDIES (2-5)
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 eight credit hours.

AMS 6971 THESIS: MASTER'S (var.)
Repeatable. (S/U only.)

ANCIENT STUDIES—see Religious Studies

COMMUNICATION


UNDERGRADUATE COURSES

COM 3003 DIMENSIONS OF COMMUNICATION (4)
An introductory survey of the various perspectives for the study of human communication. An exploration of the assumptions, constructs, and explanatory paradigms associated with the study of communication in its symbolic, aesthetic, historical, critical, and pragmatic dimensions.

COM 3122 INTERVIEW COMMUNICATION (4)
A study of communication theory relative to interview situations with emphasis on the employment interview, appraisal interview, and persuasive interview.
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 hearings.

COM 4120 INTRODUCTION TO COMMUNICATION THEORY IN ORGANIZATIONS
A study of communication variables and systems affecting organizational effectiveness.

COM 4942 COMMUNICATION INTERN SEMINAR
PR: Communication major and minimum of 40 hours in major. 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 quarter prior to seminar offering.

ESL 1383 SPEECH COMMUNICATION FOR FOREIGN STUDENTS I
A special course for students learning English as a second language. Intensive study and drill in American English pronunciation and listening comprehension. May be taken in conjunction with ESL 1422—English for Foreign Students.

ESL 1384 SPEECH COMMUNICATION FOR FOREIGN STUDENTS II
PR: ESL 1383 or CI. Intensive study and drill in American English pronunciation and listening comprehension. Emphasis on diction and speaking skills.

LIN 2200 SPEECH IMPROVEMENT AND PHONETICS
Designed to improve vocal quality and expressiveness, articulation, and pronunciation, and to give instruction and practice in using the International Phonetic Alphabet for speech improvement.

LIN 2201 SPEECH IMPROVEMENT AND PHONETICS II
PR: LIN 2200 or CI. A continuation of LIN 2200. Emphasis will be upon applying listening and transcription skills to the improvement of vocal quality and effective expressions.

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

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

LIN 4040 DESCRIPTIVE LINGUISTICS
PR: LIN 3010, LIN 4370 or CI. Introduction to the basic techniques of formalizing linguistic descriptions through elementary phonological, morphological, and syntactic data solution-problems drawn from a variety of languages. Both taxonomic and generative analysis and descriptions will be developed and compared.

LIN 4377 LANGUAGE TYPES OF THE WORLD
An introduction to linguistic typology consisting in a systematic comparison and development of characteristic representatives of the various language types, such as Vietnamese, Malay, Hungarian, Swahili, Sanskrit, Hebrew, and others. No knowledge of any of these languages on the part of the student is presumed.

LIN 4600 LANGUAGE AND SOCIETY
PR: LIN 3010 or LIN 4370. 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 4701 PSYCHOLINGUISTICS
PR: LIN 3010 or LIN 4370. 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
PR: LIN 3010. A survey of current research and theory in the processes of normal acquisition and development of language and communication in children. The acquisition and development of phonology, syntax, semantics, pragmatics, and non-verbal communication and the role of language in general cognitive development.

LIN 4903 DIRECTED READING
PR: CI. Readings in special topics. Must be arranged prior to registration.

LIN 4930 SELECTED TOPICS
PR: CI. Course content depends upon student’s needs and instructor’s interest and may range over the entire field of linguistics.

ORI 2008 ORAL INTERPRETATION AS COMMUNICATION ART
A survey of the theories in the oral interpretation of literature, as it correlates with the field of communication. No credit toward the Communication major.

ORI 2020 ORAL INTERPRETATION REPERTORY
PR: ESL 3010 or CI. Study of the speaking process, and the technique of developing repertoire as it correlates with the field of communication. No credit toward the Communication major. May be repeated up to 8 credit hours.

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 6 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 4230 ORAL INTERPRETATION OF BIBLICAL LITERATURE
PR: ORI 3000 or CI. A critical interpretation and oral presentation of selected Books of the Old Testament.

ORI 4310 INTRODUCTION TO READERS’ THEATRE
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
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 experiences in public discourse.

SPC 3140 INTRODUCTION TO SPEECH SCIENCE
PR: LIN 2200 or CI. Communication models are analyzed. Emphasis on quantifiable parameters of effective speaking.

SPC 3210 COMMUNICATION THEORY
PR: Junior standing or CI. The study of source, message, and receiver variables in human communication; communication settings; descriptive and predictive models of communication; speech communication as a process.
SPC 3301 INTERPERSONAL COMMUNICATION (4)
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 (3)
Principles of parliamentary procedure and practice in conducting and participating in meetings governed by parliamentary rules.

SPC 3441 GROUP COMMUNICATION (4)
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 (4)
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 (2)
Study, library research, practice in forensics. Application of the principles of rhetoric to the current debate and discussion topics. May be repeated (maximum of 6 hours).

SPC 3601 PUBLIC SPEAKING (4)
Study of selected public addresses as aids in speaking extemporaneously and from manuscript. The relationship between speaking and public policy formulation.

SPC 3633 RHETORIC OF CONFRONTATION (4)
PR: Junior standing or CI. The study of rhetorical strategies and tactics of agitation and control in confrontation situations.

SPC 3641 NAZI PROPAGANDA (4)
Study of communication behavior in the Nazi movement in Germany and America: Emphasis on communication concepts, principal communicators (Hitler, Goebbels, Streicher, and Rockwell) and use of media.

SPC 3651 CURRENT ISSUES AND RHETORIC (2)
Analysis of significant current speakers and issues. May be repeated.

SPC 3653 POPULAR FORMS OF PUBLIC COMMUNICATION (4)
PR: Junior standing or CI. Analysis of public communication with emphasis on various presentational forms.

SPC 3900 DIRECTED READINGS (1-5)
PR: Junior standing and CI.

SPC 3905 UNDERGRADUATE RESEARCH (1-5)
PR: Junior standing and CI. Individual investigations and faculty supervision.

SPC 3930 SELECTED TOPICS (1-5)
PR: Junior standing and CI.

SPC 4640 THE RHETORIC OF AMERICAN DEMAGOGUES (4)
An analysis of the communication of such 20th Century American political leaders as: Bilbo, Agnew, McCarthy, Wallace, Nixon, and Malcolm X.

SPC 4680 HISTORY AND CRITICISM OF PUBLIC ADDRESS (4)
PR: SPC 3601 or CI. The principles of rhetorical criticism applied to selected great speeches of Western Civilization.

SPC 4900 DIRECTED READINGS (1-5)
PR: Senior standing and CI.

SPC 4905 UNDERGRADUATE RESEARCH (1-5)
PR: Senior standing and CI. Individual investigations with faculty supervision.

SPC 4906 INDEPENDENT STUDY (1-5)
PR: CI. Specialized independent study determined by the students' needs and interests. May be repeated for credit. (S/U only.)

SPC 4930 SELECTED TOPICS (1-5)
PR: Senior standing and CI.

SPC 4932 SENIOR SEMINAR IN SPEECH COMMUNICATION (4)
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 6001 INTRODUCTION TO GRADUATE STUDY IN COMMUNICATION (4)
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 (4)
A study of communication theory and behavior within organizational settings: role of communication, communication climates, communication networks, leadership.

COM 6312 EXPERIMENTAL RESEARCH IN ORAL COMMUNICATION (4)
Critical examination of research design, procedures, and reporting of experimental studies in small group communication and persuasive discourse.

COM 6400 COMMUNICATION THEORY (4)
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 (4)
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 (4)
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 6110 DIRECTED RESEARCH (var.)
PR: GR. Master's level. Repeatable. (S/U only.)

LIN 6117 HISTORY OF LINGUISTIC THOUGHT (4)
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 (4)
An advanced survey of the principles and methodology of historical linguistics.

LIN 6139 TOPICS IN THEORETICAL LINGUISTICS (4)
Offerings will include current issues in any area of linguistic theory.

LIN 6146 COMPARATIVE LINGUISTICS (4)
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 (4)
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 (4)
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 (4)
A linguistic examination of the phonological, morphological, and syntactic structures of both common and uncommon languages, such as Arabic, German, Mikasuki, Seneca, Swahili, and Russian, etc. No prior knowledge of uncommonly-taught or untranslated languages is presumed on the part of the student.
(e.g., Mikasuki, Seneca, Swahili). However, when the course focuses upon a regularly-taught major world language (e.g., French, German, Russian, Spanish, etc.), an elementary knowledge of that language will be presumed on the part of the student. May be repeated up to ten credit hours with change in content/title.

LIN 6380 SYNTACTIC DESCRIPTION (4) Analysis of syntactic descriptions of various languages through data-solution problems in co-occurrence relations, agreement, permutation, conjoining, and embedding. Feature grammars and other models are discussed.

LIN 6405 CONTRASTIVE ANALYSIS (4) PR: LIN 4377. A systematic comparison and contrast of the phonological, morphological, and syntactic characteristics of contemporary American English with corresponding structures in a selected number of foreign languages which the ESL teacher is likely to encounter both in the U.S. and abroad. Typical languages or language groups include Spanish (Romance), Semitic (Arabic & Hebrew), Chinese, Japanese, and others. No knowledge of these languages on the part of the student is presumed. Emphasis upon practical pedagogical strategies for overcoming potential sources of interference for the ESL learner without regard to theoretical considerations.

LIN 6407 APPLIED LINGUISTICS (4) 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 (4) Studies 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 (4) 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 become familiar with equipment and tools used by linguists in the field.

LIN 6601 SOCIOLINGUISTICS (4) Detailed analysis of the phenomenon of language variation with emphasis upon the research methodology of sociolinguistics and the implications of its finding for current linguistic theory.

LIN 6615 LANGUAGE ACQUISITION (4) PR: LIN 3010, LIN 4370 or CI. A survey of current research and theory in the processes of normal language acquisition and development.

LIN 6810 SEMIOTICS (4) 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 (4) Selected problems in the area 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-Lakoff-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 (3-5) Content will depend upon instructor’s interests and student’s needs. Such topics as computational and mathematical linguistics, biolinguistics, dialectology and linguistic geography, and pidgins and creoles may be treated, as well as the study of the structures of languages not ordinarily taught.

LIN 6940 GRADUATE INSTRUCTION METHODS (1-5) Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)

LIN 6971 THESIS: MASTER’S (var.) Repeatable. (S/U only.)

ORI 5145 ORAL INTERPRETATION OF DRAMATIC LITERATURE II (4) 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 (4) 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 (4) 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 (4) Composition and adaptation of literary materials for oral presentation. An investigation of approaches to various genres: poetry, fiction, and non-fiction.

ORI 6410 HISTORY AND THEORIES OF ORAL INTERPRETATION (4) A study of the history, critical writings, uses, and developments of the art of oral interpretation, with analysis of the principles and practices.

PHI 6226 LANGUAGE AND NATURE (4) 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 (4) 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.

SED 6943 GRADUATE INSTRUCTION METHODS (1-5) Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)

SPC 5151 SPEECH BEHAVIOR AND PROCESS (4) PR: Upperclass standing. Study of the theories of the simple and complex acoustic phenomenon of speech; intensive analysis of the stimulus-feedback variable of speech.

SPC 5903 DIRECTED READINGS (1-5) PR: Senior or graduate standing and CI.

SPC 5912 RESEARCH (1-5) PR: Senior or graduate standing and CI.

SPC 5933 SELECTED TOPICS (1-5) PR: Senior or graduate standing and CI.

SPC 6149 COMMUNICATION: ANALYSIS AND MEASUREMENT (4) A study of selected modes of communication. Includes analysis of communication symbology, and presents the theory and application of selected instruments for measuring and producing speech.

SPC 6190 SEMINAR IN SPEECH SCIENCE (4) PR: SPC 5245. To provide graduate students with an opportunity to interact with faculty and other students for the purpose of developing an in-depth understanding of a selected sub-area of Speech Science.

SPC 6231 RHETORICAL THEORY (4) Historical development of rhetorical theory from Plato to contemporary theorists with emphasis upon the evolution of trends and concepts in rhetorical theory.

SPC 6442 THEORY AND RESEARCH IN SMALL GROUP COMMUNICATION (4) PR: SPC 3441. Study of contemporary theories and research relating to communication in small group settings.

SPC 6515 THEORIES OF ARGUMENT (4) 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 argumenta-
tive 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
(4)
The study of theoretical perspectives in rhetorical criticism.

SPC 6682 THEORIES OF RHETORICAL CRITICISM
(4)
The application of criticism to selected rhetorical situations.

SPC 6903 DIRECTED READINGS
(1-5)

SPC 6913 DIRECTED RESEARCH
PR: GR. Master's level. Repeatable. (S/U only.)

SPC 6934 SELECTED TOPICS IN SPEECH
(1-5)

SPC 6971 THESIS: MASTER'S
Repeatable. (S/U only.)

TSL 6371 METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE I
PR: Graduate standing. Required of all candidates for the M.A. degree in TESL. Analysis of the methods of teaching English pronunciation and structure to speakers of other languages. Content will include theories of second language acquisition, phonological contrastive analysis, and a survey of various types of programs in ESL, EFL, ESP, and Bilingual Education in terms of teaching materials and curricula.

TSL 6372 METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE II
PR: TSL 6371. Required of all candidates for the M.A. degree in TESL. Content includes the problems of teaching English as a second language to non-native speakers at appropriate levels and settings. May be repeated up to 9 credit hours. (S/U only.)

TSL 6945 INTERNSHIP
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 9 credit hours. (S/U only.)

ENGLISH


UNDERGRADUATE COURSES

AML 3010 HIGHLIGHTS OF AMERICAN LITERATURE TO 1945
An introductory course consisting of selected highlights of American literature from the beginnings to 1945.

AML 3102 ROMANTIC AMERICAN LITERATURE TO 1860
A study of the thought and art in poetry and prose of representative writers of the American Romantic period, with emphasis upon Emerson, Thoreau, Poe, Hawthorne, and Melville.
ENG 3486 NARRATION AND DESCRIPTION (5)
Writing short papers in narration and description, and the
personal essay; analyzing selected essays to heighten sensitiv­
ty to language.

ENG 2201 INTRODUCTION TO LITERATURE: FICTION (5)
An examination of the short story and the novel as literary
forms; not limited to any historical period. Will not be counted
toward the English major.

ENG 2231 CURRENT SHORT FICTION (5)
Traditional and experimental short stories of this generation;
such writers as Updike, Malamud, O'Connor, Roth, Barth,
Ionesco, and Barthelme. Will not be counted toward
the English major.

ENG 2300 CURRENT NOVELS (5)
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.

ENG 2401 INTRODUCTION TO LITERATURE: DRAMA (5)
A study of the major forms of drama—tragedy, comedy,
melodrama, farce; including the works of such playwrights as
Sophocles, Shakespeare, Moliere, Ibsen, Chekhov, and
Shaw. Will not be counted toward the English major.

ENG 2471 INTRODUCTION TO LITERATURE: POETRY (5)
How poems work. Stress on the understanding and enjoyment
of poems with attention to new forms and techniques; not
restricted to any specific period. Will not be counted toward
the English major except for those students following the
Creative Writing: Poetry option.

ENG 3133 SHAKESPEARE: TEXTS AND FILMS (5)
An introduction to the art of William Shakespeare through a
comparative analysis of four of his most famous dramas and
modern film adaptations of them; Hamlet, King Lear, Romeo
and Juliet, and Henry V.

ENG 3138 MODERN DRAMA AND FILM (5)
A study of such major modern dramatists as Ibsen, Strindberg,
Films will demonstrate the possibilities of visualization.

ENG 3150 AMERICAN POPULAR LITERATURE: THE ROARING TWENTIES (5)
An exploration of the interaction of film, literature, and the
popular arts in the Roaring Twenties of the U.S. Traces the
movement of American culture from Main Street and Spoon
River to the Modern Urban Metropolis. Studies of such
figures as Fitzgerald, Cummings, Hemingway, Stein, E. A.
Robinson, Sandburg, Chaplin, and Bessie Smith.

ENG 3152 TWENTIETH CENTURY BEST SELLERS (5)
A study of representative best-selling novels in 20th century
America; including such critically acclaimed works as Peyton Place,
Lady Chatterley'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.

ENG 3156 MODERN LITERATURE, FILM, AND THE POPULAR ARTS (5)
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 Vonnegut, Tolkien, Thurber, Heller, Barth­
elme, Berger, and Kesey are examined.

ENG 3294 MODERN SHORT NOVEL (5)
A study of the novella from the 19th century to the present.
Writers included are: Flaubert, Conrad, Lawrence, Mann,
Kafka, Bellow, Roth, and others.

ENG 3371 MODERN EUROPEAN NOVEL (5)
A study of the Modern European novel in translation as it
developed from the 19th century to the present, including such
writers as Dostoevsky, Flaubert, Kafka, Hesse, Camus, and
Solzhenitsyn.

ENG 4113 RESTORATION AND EIGHTEENTH CENTURY SATIRE (5)
A study of selected Neoclassical satires, the techniques of
their expression, and the historical conflicts out of which they
arose.

ENG 4204 THEORY OF FICTION (5)
Intensive study of the genres and varieties of fiction to
ascertain the theoretical and technical problems involved in
the work of fiction.

ENG 4223 MODERN AMERICAN FICTION (5)
A study of major trends and influences in American prose
fiction from 1920 to the present. Includes works by such
writers as Hemingway, Faulkner, Wolfe, Fitzgerald, Stein­
beck, Anderson, Welty, Malamud, Roth, Barthelme, and
others.

ENG 4227 MODERN BRITISH FICTION (5)
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.

ENG 4321 EIGHTEENTH CENTURY BRITISH NOVEL (5)
A study of the emergence of modern realistic prose fiction in
the eighteenth century, with emphasis on Fielding, Richardson,
Smollett, and Sterne.

ENG 4325 NINETEENTH CENTURY BRITISH NOVEL (5)
A study of such major British novelists as Austen, Scott,
Thackeray, Dickens, the Brontes, Eliot, Meredith, and
Hardy.

ENG 4345 THE AMERICAN NOVEL (5)
A study of major American novelists through representative
novels. Authors studied may include Cooper, Hawthorne,
Melville, James, Twain, Dreiser, Hemingway, Faulkner,
Bellow, and others.

ENG 4421 ENGLISH DRAMA FROM THE BEGINNINGS TO 1642 (5)
The emergence of drama in England from its liturgical origins
through the mystery and morality plays to its significant
achievement in the Renaissance. Excludes Shakespeare; em­
phasis upon Marlowe, Jonson, Webster, and Middleton.

ENG 4424 DRAMA OF THE RESTORATION AND EIGHTEENTH CENTURY (5)
A study of the bawdy theatre of Charles II's court, as it
reflects and projects English social life in the 17th century,
and an analysis of the development of 18th century drama. Investi­
gates relationships among drama, novel, and English opera.
Included are representative works by Wycherley, Dryden,
Congreve, Lillo, Gay, Goldsmith, and Sheridan.

ENG 4453 AMERICAN DRAMA (5)
A historical-analytical study of American drama from the 19th
century to the present. Included are such playwrights as
Boker, Boucicault, Herne, O'Neill, Howard, Rice, Hellman,
Williams, Miller, Albee, and Hansberry.

ENG 4464 MODERN DRAMA (5)
A study of major dramatists from the rise of Realism up to the
Theatre of the Absurd, including works by Ibsen, Strindberg,
Shaw, Chekhov, Pirandello, Brecht, Beckett, Ionesco,
Pinter, and others.

ENG 4512 HISTORY OF THE ENGLISH LANGUAGE (5)
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.

ENG 4742 MODERN BRITISH AND AMERICAN POETRY FROM 1900 TO 1945 (5)
Study of selected Modern British and American Poets from
Hopkins to Auden, with attention to poetic theory.

ENG 4814 LITERARY CRITICISM (5) 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 DIRECTED READING (5) Readings in special topics.

ENG 4906 INDIVIDUAL RESEARCH (1-5) Directed study in special projects. Special permission of chairperson required.

ENL 3010 EARLY ENGLISH LITERATURE (5) A survey of representative works of poetry, prose, and drama of the Old English, Middle English and early Renaissance to 1557, including Beowulf, Chaucer, Malory, More, Hooker, Skelton, Wyatt, among others.

ENL 3030 HIGHLIGHTS OF BRITISH LITERATURE TO 1750 (5) An introductory course consisting of selected highlights of English literature from the Middle Ages to 1750.

ENL 3041 HIGHLIGHTS OF BRITISH LITERATURE 1750 TO 1945 (5) An introductory course consisting of selected highlights of English literature from 1750 to 1945.

ENL 3133 SHAKESPEARE I (5) Reading of eight to ten representative plays, with special attention to developing the students' ability to read and interpret the text.

ENL 3320 LITERATURE OF THE ENGLISH RENAISSANCE (5) 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 3351 THE RISE AND DECLINE OF NEOCLASSICAL LITERATURE (5) A survey of Neoclassical English literature beginning with Marvell and the late work of Milton, and ending with the late Neoclassicism of Johnson, Boswell, and Goldsmith.

ENL 3401 ROMANTIC LITERATURE (5) 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 3430 VICTORIAN AND EDWARDIAN LITERATURE (5) 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, Wilde.

ENL 3441 MODERN BRITISH LITERATURE FROM 1914 TO 1945 (5) 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 4062 MAJOR BRITISH AUTHORS (5) The study of two or three related major authors in English literature, focusing on several major figures; the course may include such writers as Fielding and Austen, Thackeray and Dickens, Keats and Yeats, Donne and Marvell, Woolf and Joyce, etc. Specific topics will vary each quarter. May be repeated with different topics two times.

ENL 4112 CHAUCER (5) An intensive study of The Canterbury Tales and major critical concerns.

ENL 4121 MILTON (5) Study of the poetry and major prose of John Milton, with special emphasis on Paradise Lost.

ENL 4134 SHAKESPEARE II (5) Three or four of Shakespeare's greatest dramas seen in depth: the close reading of the text, the controversies of interpretation, and the Elizabethan and Jacobean setting.

ENL 4300 ANGLO SAXON LITERATURE (5) A study of English heroic culture as presented in the literature occurring before 1066, such as Beowulf, The Battle of Maldon, the Seafarer, and Selected Charms and Spells.

ENL 4311 MIDDLE ENGLISH LITERATURE (5) An intensive study on one or more formal types occurring between 1066 and 1500, such as the Romance, The Dream-Vision, the Arthurian tradition, the drama, and lyrics and ballads.

ENL 4331 SIXTEENTH CENTURY PROSE AND POETRY (5) A study of representative prose, including fiction, and the lyric and narrative poetry of Sidney, Spenser, Marlowe, and Shakespeare, together with selected poems of Donne.

ENL 4344 SEVENTEENTH CENTURY LITERATURE: FORM, GENRE, AND ARCHETYPE (5) An intensive study of one or more formal types of British literature occurring between 1675 and 1832, such as Romantic Nature Poetry, Romantic Historical Novels and Poems, etc. Specific topics will vary.

ENL 4406 ROMANTIC LITERATURE: FORM, GENRE, AND ARCHETYPE (5) 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.

ESL 1385 ENGLISH AS A SECOND LANGUAGE—COMPOSITION (3) PR: Some previous study of English. Practice and drill in basic English sentence patterns, with emphasis on writing, punctuation, vocabulary, and idiom. The course is designed as a service course for foreign students enrolled in the University.

LIN 4370 STRUCTURE OF AMERICAN ENGLISH (5) An introductory survey of traditional, structural, and generative-transformational grammars and their techniques for the analysis and description of linguistic structure in general, and contemporary American English in particular.

LIN 4420 LINGUISTICS AND LITERATURE (5) The application of relevant materials from the fields of comparative and descriptive linguistics to analysis and interpretation of literature—poetry, prose, and drama, with a view to complementing the traditional modes.

LIT 2000 INTRODUCTION TO LITERATURE: GENERAL (5) 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 3150 CONTEMPORARY BRITISH AND AMERICAN LITERATURE FROM 1945 TO THE PRESENT (5) An introduction to the fiction, poetry, and drama of such writers as Beckett, Ginsberg, Nabokov, Roethke, Plath, Vonnegut, Welty, Malamud, Durrell, Mailer, MacLeish, and others.

LIT 3252 LITERATURE OF THE WESTERN WORLD: ANCIENT (5) The Bible, the best modern English translations of Homer, Aeschylus, Sophocles, Euripides, Aristophanes, Plato, or others among the Greeks; of Virgil, Ovid, Juvenal, Sappho, Petronius or others among the Romans.
LIT 3254 LITERATURE OF THE WESTERN WORLD:
MEDIEVAL, RENAISSANCE, AND NEOCLASSICAL (5)
A study in English of such writers as Dante, Boccaccio, Machiavelli, Rabelais, Montaigne, Molière, among others, and of their cultural and intellectual settings.

LIT 3257 LITERATURE OF THE WESTERN WORLD:
MODERN (5)
A study in English of Voltaire, Rousseau, Goethe, Baudelaire, Tolstoy, Mann, Lorca, Brecht, or others; the great literary traditions of Romanticism, Naturalism, and Symbolism.

LIT 3281 FOLKLORE AND POPULAR LITERATURE (5)
Literature of fairytales, folksongs, ballads, and blues. Perrault, Grimm, Andersen, and others; traditional British and American ballads and folksongs; modern ballads and blues from folk, country, delta, and big city sources; the songs of Bob Dylan and friends.

LIT 3311 THE BIBLE AS LITERATURE (5)
Major emphasis on literary types, literary personalities of the Old and New Testaments, and Biblical archetypes of British and American literary classics.

LIT 3314 THE TALMUD AS LITERATURE (5)
An introduction to the artistic elements of one of the great books of the Jewish religion. Emphasis on stories, fables, legends (Aggadah), but some general background in Talmudic structure and history is also provided. No previous knowledge of Judaism or religious texts is required.

LIT 3323 AMERICAN INDIAN LITERATURE (5)
A survey of native American Literature from pre-Columbian religious and folk literature to the current voices in the pan-Indian movement.

LIT 3322 BLACK LITERATURE (5)
A study of Black American literature from the nineteenth-century to the present, including the works of such writers as W. E. B. DuBois, Langston Hughes, Richard Wright, Ralph Ellison, LeRoi Jones, and Nikki Giovanni.

LIT 3414 THE IMAGE OF WOMEN IN LITERATURE I (5)
A study of feminism, antifeminism, sexual identity, the feminine mystique, stereotyped and liberated female images from Sappho through Shakespeare, with special emphasis on how this early literature has perpetuated cultural myths, rituals, superstitions, and misconceptions about women. (Also offered under Women's Studies.)

LIT 3415 THE IMAGE OF WOMEN IN LITERATURE II (5)
A study of feminism, antifeminism, sexual identity, the feminine mystique, stereotyped and liberated female images from the 17th century 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 343I RELIGIOUS AND EXISTENTIAL THEMES (5)
Theological and philosophical ideas, allusions, and symbols in the writings of Dostoevsky, Nietzsche, Mann, Joyce, Eliot, Camus, Sartre, and others.

LIT 3442 FANTASY AND SCIENCE FICTION (5)
A survey of fantasy and science fiction in English and America from Mary Shelley to the present; includes such writers as Poe, Melville, Ray Bradbury, Arthur C. Clarke, among others.

LIT 3446 LITERATURE AND THE OCCULT (5)
An introduction to the occult tradition as a major ingredient in English, Continental, and American literature; analysis of the origins, classifications, and areas of the various magic arts from classical times through the present.

LIT 3930 SELECTED TOPICS IN ENGLISH STUDIES (1-5)
Varying from quarter to quarter, the course examines in depth a predominant literary theme or the work of a select group of writers.

LIT 4930 SELECTED TOPICS IN ENGLISH STUDIES (1-5)
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 (3)
Designed to help students develop maximum reading efficiency, the course includes extensive instruction and laboratory practice in the improvement of adequate rates of reading, vocabulary, and comprehensive skills. An independent study approach is also available for students who prefer to assume responsibility for their own progress.

REA 2405 SPEED READING DEVELOPMENT (3)
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 DEVELOPMENT (4)
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 6132 STUDIES IN AMERICAN LITERATURE TO 1860 (5)
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 6137 STUDIES IN AMERICAN LITERATURE 1860-1920 (5)
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 6138 STUDIES IN MODERN AMERICAN LITERATURE (5)
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 6062 BIBLIOGRAPHY FOR ENGLISH STUDIES (2)
PR: Graduate standing. Detailed study of bibliographies of cultural milieus, genres, periods, and authors.

ENG 6516 STUDIES IN ENGLISH LANGUAGE AND LINGUISTICS (5)
PR: ENG 4512 and LIN 2405. 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.

ENG 6505 SCHOLARSHIP AND CRITICISM (5)
PR: Graduate standing. Selected focused study of research approaches to English. May be retaken with different subject matter once.

ENG 6837 STUDIES IN STYLE (5)
(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 6917 DIRECTED RESEARCH (var.)
PR: GR. Master's level. Repeatable. (S/U only.)

ENG 6937 GRADUATE SEMINAR IN ENGLISH (5)
PR: Consent of graduate advisor. May be retaken with different subject matter to a maximum of ten hours.

ENG 6971 THESIS: MASTER'S (var.)
Repeatable. (S/U only.)

ENG 7917 DIRECTED RESEARCH (var.)
PR: GR. Ph.D. level. Repeatable. (S/U only.)

ENG 7938 DOCTORAL SEMINAR (5)
PR: Admission to Ph. D. Program. This seminar provides intensive small-group discussion as well as shared and individual guided research in a student's area of doctoral specialty. Repeatable up to 10 credit hours.

ENG 7980 DISSERTATION: Doctoral (var.)
PR: Must be admitted to Doctoral Candidacy. Repeatable. (S/U only.)
ENL 6304 STUDIES IN OLD ENGLISH (5)
PR: Graduate standing. A study of Old English language, prose style, poetry. May be retaken with different subject matter three times.

ENL 6315 STUDIES IN MIDDLE ENGLISH (5)
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 6333 STUDIES IN SIXTEENTH-CENTURY BRITISH LITERATURE (5)
PR: Graduate standing. Selected focused studies in 16th-century British literature: Shakespeare, Sidney, Spenser, Marlowe, and others. May be retaken with different subject matter three times.

ENL 6349 STUDIES IN SEVENTEENTH-CENTURY BRITISH LITERATURE (5)
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 6392 STUDIES IN RESTORATION AND EIGHTEENTH-CENTURY BRITISH LITERATURE (5)
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 6407 STUDIES OF THE ENGLISH ROMANTIC PERIOD (5)
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 6418 STUDIES IN VICTORIAN LITERATURE (5)
PR: Graduate standing. A study of Victorian poetry, Victorian fiction, Victorian non-fiction prose, and Victorian drama. May be retaken with different subject matter three times.

ENL 6447 STUDIES IN MODERN BRITISH LITERATURE (5)
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 (5)
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 (5)
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 6392 GRADUATE INSTRUCTION METHODS (1-5)
Special course to be used primarily for the training of teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)

LAE 7376 PROBLEMS IN ADVANCED ENGLISH INSTRUCTION OF COMPOSITION (5)
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 (5)
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 collation.

LIT 6167 STUDIES IN CONTEMPORARY LITERATURE (5)
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 6208 STUDIES IN CONTINENTAL LITERATURE (5)
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 (1-10)
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.

FOREIGN LANGUAGES

General Foreign Languages

UNDERGRADUATE COURSES

FOL 3100 GENERAL FOREIGN LANGUAGE I (1-4)
A general purpose course that may be used for transfer of credit, credit by examination, and similar matters; may also be used for formal courses in less-commonly taught languages or in professional translation.

FOL 4200 GENERAL FOREIGN LANGUAGE II (1-4)
A general purpose course that may be used for transfer of credit, credit by examination, and similar matters; may also be used for formal courses in less-commonly taught languages or for workshops in professional interpreting.

FOL 4905 DIRECTED STUDY (1-4)
Departmental approval required.

GRADUATE COURSE

FOL 5906 DIRECTED STUDY (1-4)
PR: FOL 4200 or equivalent.

Arabic

UNDERGRADUATE COURSES

ARA 3110 MODERN ARABIC I (4)
An intensive study of the basic grammar, syntax, pronunciation, and development of reading and oral skills.

ARA 3111 MODERN ARABIC II (4)
PR: ARA 3110. A continuation of ARA 3110.

Classics

UNDERGRADUATE COURSES

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.
ENGLISH—FOREIGN LANGUAGES 181

FRE 3290 CLASSICAL LITERATURE IN TRANSLATION: TRAGEDY (4)
Enter to the masterworks of Greek and Roman tragedy, with analysis of plays by Aeschylus, Sophocles, Euripides, and Seneca. All readings in English.

FRE 3300 CLASSICAL LITERATURE IN TRANSLATION: COMEDY AND SATIRE (4)
Survey of the major works of Greek and Roman comedy and satire, including works by Aristophanes, Menander, Terence, Plautus, Petronius, Martial, Horace, and Juvenal.

FRE 3322 CLASSICAL LITERATURE IN TRANSLATION: EPIC AND LYRIC (4)
Study of epic and short lyric forms in Greco-Roman literature, including Homer and Vergil, poets from the ‘‘Greek Anthology,’’ Catullus, Propertius, and Horace. All readings are in English.

FRE 3370 CLASSICAL MYTHOLOGY (4)
Study of the most important myths of the Greeks and Romans as laid down in classical literature and of the impact that classical mythology made on modern Western, and, in particular, English literature. All readings are in English.

See also GREEK and LATIN.

French

UNDERGRADUATE COURSES

Course in Translation

FRT 3110 HIGHLIGHTS OF FRENCH LITERATURE IN TRANSLATION (4)
A study in English of French life through writers since the revolution. Elective for students in all departments.

FRE 1060 FRENCH FOR READING (4)
Designed to provide a reading ability in French that will support research in other disciplines.

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 1102 BEGINNING FRENCH III (4)
PR: FRE 1101 or equivalent. A continuation of FRE 1100 and FRE 1101.

FRE 2200 INTERMEDIATE FRENCH I (4)
PR: FRE 1102 or equivalent. A review of the basic structure of French. May be taken concurrently with FRE 2201.

FRE 2201 INTERMEDIATE FRENCH II (4)
PR: FRE 1102 or equivalent. Readings in French on the intermediate level. May be taken concurrently with FRE 2200.

FRE 3240 CONVERSATION I (4)
PR: FRE 1102. For development of basic conversational skills.

FRE 3420 COMPOSITION I (4)
A fundamental composition course for students who have completed FRE 2200 or FRE 2201.

FRE 3500 FRENCH CIVILIZATION (4)
Readings and discussion 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.

FRE 4421 COMPOSITION II (4)
Continuation of French composition. This course is designed to follow FRE 3420.

FRE 4905 DIRECTED STUDY (1-4)
Departmental approval required.

FRE 4930 SELECTED TOPICS (1-4)
Study of an author, movement, or theme.

FRT 3110 See above—COURSE IN TRANSLATION

FRW 4230 INTRODUCTION TO FRENCH NOVEL (4)
PR: FRE 2201. Study of the development of the novel. Includes Chretien de Troyes, Rabelais, Flaubert, Balzac, Prosper, Camus, Sartre, Robbe-Grillet and/or others, but specific content may vary from year to year.

FRW 4300 INTRODUCTION TO FRENCH DRAMA (4)
PR: FRE 2201. Study of the development of drama. Will include medieval drama, Racine, Corneille, Moliere, Anouilh, Sartre, Beckett, Ionesco, and/or others, but specific content may vary from year to year.

FRW 4331 INTRODUCTION TO FRENCH POETRY (4)
PR: FRE 2201. Study of the development of French poetry. Will include Villon, Ronsard, DuBellay, Lamartine, Hugo, Vigny, Musset, Baudelaire, Mallarme, Rimbaud, Valery, Péguy, Eluard, Appollinaire, Char and/or others, but specific content may vary from year to year.

GRADUATE COURSES

FLE 6829 GRADUATE INSTRUCTION METHODS (1-5)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of five credits per student. (S/U only.)

FRW 5422 ADVANCED WRITTEN EXPRESSION (4)
PR: FRE 4421, or equivalent. Course is designed to give advanced training in free composition in French.

FRW 5564 CONTEMPORARY FRANCE (4)
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. Texts and discussions in French.

FRE 6908 INDEPENDENT STUDY (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

FRE 6910 DIRECTED RESEARCH (var.)
PR: GR. Master's level. Repeatable. (S/U only.)

FRE 6934 SELECTED TOPICS (1-4)
Study of an author, movement, or theme.

FRE 6971 THESIS: MASTER'S (var.)
Repeatable. (S/U only.)

FRW 5222 CLASSICAL PROSE AND POETRY (4)
PR: FRE 4230. Emphasis on Malherbe, La Fontaine, Boileau, Descartes, and Pascal.

FRW 5226 20TH CENTURY POETRY AND THEATRE (4)

FRW 5283 THE 20TH CENTURY NOVEL (4)
PR: FRE 4300. Proust, Gide, Mauriac, Malraux, Camus, Robbe-Grillet.

FRW 5310 CLASSICAL DRAMA (4)
PR: FRE 4230. Corneille, Moliere, and Racine.

FRW 5410 LITERATURE OF THE MIDDLE AGES (4)
PR: FRE 4230. Major genres, including epics, Arthurian romances, drama, and lyric poetry. Reading in modern French translation.

FRW 5420 LITERATURE OF THE RENAISSANCE (4)

FRW 5440 18TH CENTURY LITERATURE (4)
PR: FRE 4230. The classical tradition and the new currents of thought in the Age of Enlightenment.

FRW 5530 PRE-ROMANTICISM (4)

FRW 5535 ROMANTICISM (4)
PR: FRE 4300. A study of the romantic movement with emphasis on Lamartine, Vigny, Musset, and Hugo.

FRW 5550 REALISM (4)
PR: FRE 4300. A detailed study of realism with emphasis on Balzac and Flaubert.
GER 5558 NATURALISM AND SYMBOLISM (4)

FRW 5934 SELECTED TOPICS (1-4)
PR: Upper-level or graduate standing. Study of an author, movement, or theme.

FRW 6319 SEMINAR ON CLASSICAL DRAMA (4)
PR: Graduate standing. A study of the works of Corneille, Racine, or Molière.

FRW 6405 OLD FRENCH (4)
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 (4)
PR: Graduate standing. A study in depth of Old French literature of the Middle Ages.

FRW 6938 GRADUATE SEMINAR (4)
Topics vary. May be repeated.

German

UNDERGRADUATE COURSES

Course in Translation

GET 3111 HIGHLIGHTS OF GERMAN LITERATURE IN TRANSLATION (4)
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 (4)
Designed to provide a reading ability in German that will support research in other disciplines.

GER 1100 BEGINNING GERMAN I (4)
The first course in the study of elementary German. Emphasis on the development of basic skills in listening and reading comprehension, speaking and writing.

GER 1101 BEGINNING GERMAN II (4)
PR: GER 1100 or equivalent. A continuation of GER 1100.

GER 1102 BEGINNING GERMAN III (4)
PR: GER 1101 or equivalent. Continuation of GER 1101.

GER 2200 INTERMEDIATE GERMAN I (4)
PR: GER 1102 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 (4)
PR: GER 1102 or equivalent. Readings in German on the intermediate level. May be taken concurrently with GER 2200.

GER 3240 CONVERSATION I (4)
PR: GER 1102. For development of basic conversational skills.

GER 3420 COMPOSITION I (4)
A fundamental course for students who have completed GER 2200 or GER 2201.

GER 3500 GERMAN CIVILIZATION (4)
PR: GER 2200 or GER 2201. Readings in German on the cultural history of Germany.

GER 4241 CONVERSATION II (4)
Free conversation based on the current German idiom.

GER 4421 COMPOSITION II (4)
Practical training in modern German usage and differences of style.

GET 3111 See above—COURSE 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)
Romanticism, Realism and the 20th Century.

GEW 4900 DIRECTED STUDY (1-4)
Departmental approval required.

GEW 4930 SELECTED TOPICS (1-4)
Study of an author, movement, or theme.

GRADUATE COURSES

GER 5845 HISTORY OF THE GERMAN LANGUAGE (4)
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 6908 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 (4)
A study of major styles in German literature from 1900 to WWII with emphasis on Hamburger, Schnitzler, Hofmannsthal, George, Rilke, Kaiser, Heym, Trakl, Thomas Mann, Hesse, Kafka, Benn, Brecht.

GEW 5489 20TH CENTURY LITERATURE 1945-PRESENT (4)
Study of major trends in German literature since WWII with emphasis on Borchert, Frisch, Dürrenmatt, Boll, Uwe Johnson, Grass, Aichinger, Eich Enzensberger, Bachmann.

GEW 5515 THE ENLIGHTENMENT (4)
Selected dramas and critical writings by Lessing, Voltaire, Kant.

GEW 5541 ROMANTICISM (4)
Jenaer circle and Heidelberg circle; the late romantic period, the writers between Classicism and Romanticism.

GEW 5551 REALISM (4)
Selected works by Grillparzer, Grabbe, Büchner, Hebbel, Heine, Immerman, Stifter, Keller, Meyer, Strom, Raabe, Hülshoff, and Märzke.

GEW 5600 GOETHE (4)

GEW 5603 FAUST I (4)
Sources, form, content, and literary significance of Urfaust and Faust I.

GEW 5610 SCHILLER (4)
Selected dramas, philosophical and aesthetic writings.

GEW 5693 SELECTED TOPICS (1-4)
PR: Upper-level or graduate standing. Study of an author, movement, or theme.

GEW 6604 FAUST II (4)
An analysis of Goethe's last work: mythology, literary significance and critical evaluation.

GEW 6915 DIRECTED RESEARCH (var.)
PR: GR. Master's level. Repeatable. (S/U only.)

GEW 6934 SELECTED TOPICS (1-4)
Study of an author, movement or theme.

GEW 6938 GRADUATE SEMINAR (4)
Topics vary. May be repeated.

Greek

UNDERGRADUATE COURSES

GRE 1100 BEGINNING CLASSICAL GREEK I (4)
An introductory course in classical Greek grammar with appropriate readings.

GRE 1101 BEGINNING CLASSICAL GREEK II (4)
PR: GRE 1100 or equivalent. An introductory course in classical Greek grammar with appropriate readings.

GRE 1102 BEGINNING CLASSICAL GREEK III (4)
PR: GRE 1101 or equivalent. An introductory course in classical Greek grammar with appropriate readings.

GRE 3110 MODERN GREEK I (4)
An intensive study of the basic grammar, syntax, pronunciation and development of reading and oral skills.

**GRE 3111 MODERN GREEK II**  (4)
PR: GRE 3110

**GRW 4905 DIRECTED READING**  (1-4)
Departmental approval required.

**GRW 4930 SELECTED TOPICS**  (4)
Study of an author, movement, or theme. May be repeated.

**Hebrew**

**UNDERGRADUATE COURSES**

**HEB 3110 MODERN HEBREW I**  (4)
An intensive study of the basic grammar, syntax, pronunciation and development of reading and oral skills.

**HEB 3111 MODERN HEBREW II**  (4)
PR: HEB 3110.

**Italian**

**UNDERGRADUATE COURSES**

**Courses in Translation**

**ITT 3110 ITALIAN CLASSICS IN TRANSLATION**  (4)
The works of the fathers of the Renaissance—Dante, Petrarch, Boccaccio, Machiavelli, Castiglione and others—are read and discussed in English.

**ITT 3488 MASTERPIECES OF 20TH CENTURY ITALIAN LITERATURE IN TRANSLATION**  (4)
Studies of the works of Pirandello, Silone, Moravia, Lampedusa, Levi.

**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)
PR: ITA 1100 or equivalent. A continuation of ITA 1100.

**ITA 1102 BEGINNING ITALIAN III**  (4)
PR: ITA 1101 or equivalent. A continuation of ITA 1100 and ITA 1101.

**ITA 2200 INTERMEDIATE ITALIAN I**  (4)
PR: ITA 1102 or equivalent. A review of the basic structure of spoken and written Italian.

**ITA 2201 INTERMEDIATE ITALIAN II**  (4)
PR: ITA 1102 or equivalent. Readings in Italian on the intermediate level. May be taken concurrently with ITA 2200.

**ITA 3240 CONVERSATION I**  (4)
PR: ITA 1102. For development of basic conversational skills.

**ITA 3420 COMPOSITION I**  (4)
A fundamental composition course for students who have completed ITA 2200 and ITA 2201.

**ITA 3500 ITALIAN CIVILIZATION**  (4)
Readings and discussion on the cultural history of Italy.

**ITA 4241 CONVERSATION II**  (4)
PR: ITA 3240 or equivalent. Free and directed conversation in Italian on contemporary topics.

**ITA 4421 COMPOSITION II**  (4)
Continuation of Italian composition. This course is designed to follow ITA 3420.

**ITT 3110 See above—COURSES IN TRANSLATION**

**ITT 3488 See above—COURSES IN TRANSLATION**

**ITW 4100 SURVEY OF ITALIAN LITERATURE I**  (4)
Origins of Italian Literature, together with general aspects of the literature of the Middle Ages and the Renaissance.

**ITW 4101 SURVEY OF ITALIAN LITERATURE II**  (4)
The literature of the 17th through the 20th century, with special emphasis on the movements of the 19th and 20th centuries.

**ITW 4605 DANTE—DIVINE COMEDY I**  (4)
The allegorical, poetic, religious, historical, mythological, and classical aspects of the Inferno are read and discussed.

**ITW 4905 DIRECTED STUDY**  (1-4)
Departmental approval required.

**GRADUATE COURSES**

**ITA 6908 INDEPENDENT STUDY**  (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

**ITW 6910 DIRECTED RESEARCH**  (var.)
PR: GR. Master's level. Repeatable. (S/U only.)

**Latin**

**UNDERGRADUATE COURSES**

**LAT 1100 BEGINNING LATIN I**  (4)
An introductory course in Latin grammar with appropriate readings.

**LAT 1101 BEGINNING LATIN II**  (4)
PR: LAT 1100 or equivalent. An introductory course in Latin grammar with appropriate readings.

**LAT 1102 BEGINNING LATIN III**  (4)
PR: LAT 1101 or equivalent. An introductory course in Latin grammar with appropriate readings.

**LAT 2230 INTERMEDIATE LATIN I**  (4)
PR: LAT 1102 or equivalent. Review of grammar; readings in Vergil, Ovid, and Martial.

**LAT 2231 INTERMEDIATE LATIN II**  (4)
PR: LAT 1102 or equivalent. Review of grammar; readings in Vergil, Ovid, and Martial.

**LAT 2232 INTERMEDIATE LATIN III**  (4)
PR: LAT 1102 or equivalent. Review of grammar; readings in Vergil, Ovid, and Martial.

**LNW 4311 ROMAN COMEDY I: PLAUTUS**  (4)
PR: Basic knowledge of Latin. Readings of selected plays by Plautus; introduction to comedy—its theory and practice.

**LNW 4312 ROMAN COMEDY II: TERENCE**  (4)
PR: Basic knowledge of Latin. Readings of selected plays by Terence.

**LNW 4322 ROMAN ELEGiac POETs II: PROPERTIUS AND TIBULLUS**  (4)
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**  (4)
PR: Basic knowledge of Latin. Readings in the Satyricon of Petronius; Introduction to the nature of satire.

**LNW 4362 ROMAN SATIRE II**  (4)
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**  (4)
PR: Basic knowledge of Latin. Readings in the ideas and artistry of this Roman historian.

**LNW 4500 CICERO AND ROMAN PHILOSOPHY**  (4)
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**  (4)
PR: Basic knowledge of Latin. Readings in the philosophic writings of Lucius Annaeus Seneca, together with an examination of Stoic, Epicurean, and Eclectic thought.

**LNW 4660 ROMAN ELEGiac POETs I: CATULLUS**  (4)
PR: Basic knowledge of Latin. Readings in Catullus. Study of techniques and tradition in Roman lyric poetry.

**LNW 4665 CICERO**  (4)
PR: Basic knowledge of Latin. Readings in the epistles of Cicero.
Russian

UNDERGRADUATE COURSES

Courses in Translation

RUT 3110 RUSSIAN CLASSICS IN TRANSLATION (4)
Masterpieces of 19th century Russian literature in English. The major works of Pushkin, Lermontov, Gogol, Turgenev, Dostoevsky, Tolstoy, and Chekhov. Elective for all students in all departments.

RUT 3111 20TH CENTURY RUSSIAN LITERATURE IN TRANSLATION (4)
Masterpieces of 20th century Soviet literature in English. The major works of Bely, Olesha, Babel, Zamyatin, Bulgakov, Pasternak, and Solzhenitsyn. Elective for all students in all departments.

RUS 1100 BEGINNING RUSSIAN I (4)
The first course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking, and reading.

RUS 1101 BEGINNING RUSSIAN II (4)
PR: RUS 1100 or equivalent. A continuation of RUS 1100.

RUS 1102 BEGINNING RUSSIAN III (4)
PR: RUS 1101 or equivalent. A continuation of RUS 1101.

RUS 2200 INTERMEDIATE RUSSIAN (5)

RUS 3400 CONVERSATION AND COMPOSITION I (4)
PR: First year Russian or equivalent. Development of basic skills in conversation, composition, and reading.

RUS 3500 RUSSIAN CIVILIZATION (4)
A survey of the cultural history of Russia.

RUS 4401 CONVERSATION AND COMPOSITION II (4)
PR: Previous course in series or equivalent. Continuation of RUS 3400.

RUS 4900 SELECTED TOPICS (1-4)
Study of an author, movement, or theme.

RUS 4905 DIRECTED STUDY (1-4)
Departmental approval required.

RUT 3110 See above—COURSES IN TRANSLATION
RUT 3111 See above—COURSES IN TRANSLATION
RUTW 4110 SURVEY OF RUSSIAN LITERATURE I (4)
Russian literature from its origins with major emphasis on the first half of the 19th century.

RU&W 4101 SURVEY OF RUSSIAN LITERATURE II (4)
Late 19th and 20th century Russian literature to the present.

RUW 4614 TOLSTOY
Reading and discussion of the major works of Tolstoy.

RUW 4624 DOSTOEVSKY
Reading and discussion of the major works of Dostoevsky.

Spanish

UNDERGRADUATE COURSES

Courses in Translation

SPT 3110 SPANISH MASTERPIECES IN TRANSLATION (4)
Outstanding literary works of Spain, in English. Open to all non-majors.

SPT 3131 SPANISH AMERICAN LITERATURE IN TRANSLATION (4)
Outstanding works of Spanish America, in English. Open to all non-majors.

SPN 1100 BEGINNING SPANISH I (4)
The first course in the study of elementary Spanish. Emphasis on the development of basic skills in comprehension, speaking, and reading. This course is also available on WUSF/TV Channel 16 by the O.U. Program.

SPN 1101 BEGINNING SPANISH II (4)
PR: SPN 1100 or equivalent. A continuation of SPN 1100.

SPN 1102 BEGINNING SPANISH III (4)
PR: SPN 1101 or equivalent. A continuation of SPN 1101.

SPN 2200 INTERMEDIATE SPANISH I (4)
PR: SPN 1102 or equivalent. A review of the basic structure of spoken and written Spanish. May be taken concurrently with SPN 2201.

SPN 2201 INTERMEDIATE SPANISH II (4)
PR: SPN 1102 or equivalent. Readings in Spanish on the intermediate level. May be taken concurrently with SPN 2200.

SPN 2240 CONVERSATION I (4)
PR: SPN 1102. For development of basic conversational skills.

SPN 3241 CONVERSATION II (4)
PR: SPN 2240 or equivalent. To improve fluency in spoken Spanish.

SPN 3300 COMPOSITION I (4)
A fundamental composition course for students who have completed SPN 2200 or SPN 2201.
SPN 3470 OVERSEAS STUDY
PR: SPN 2240 and SPN 3300. An intensive study-travel program in a Spanish-speaking country. Prior departmental approval and early registration are required.

SPN 3500 SPANISH CIVILIZATION (4)
The culture and civilization of Spain.

SPN 3520 SPANISH-AMERICAN CIVILIZATION (4)
Readings and discussions on the culture and civilization of Spanish America. For majors and non-majors.

SPN 4301 COMPOSITION II (4)
PR: SPN 3300 or equivalent. A study of syntax, grammar, and stylistic devices of the Spanish language.

SPN 4410 ADVANCED CONVERSATION (4)
PR: SPN 2240 or equivalent. Intensive practice in the formulation and expression of ideas in standard Spanish.

SPT 3110 See above—COURSES IN TRANSLATION

SPT 3131 See above—COURSES IN TRANSLATION

SPW 3200 INTRODUCTION TO HISPANIC LITERATURE (4)
PR: SPN 2201 or equivalent. The nature and significance of Hispanic literature in its various forms: fiction, drama, poetry; emphasis on the techniques of reading literature for critical analysis.

SPW 4100 SURVEY OF SPANISH LITERATURE I (4)
PR: SPW 3200 or equivalent. From the origins through the 17th century.

SPW 4101 SURVEY OF SPANISH LITERATURE II (4)
PR: SPW 3200 or equivalent. From the 18th century to the present.

SPW 4130 SURVEY OF SPANISH-AMERICAN LITERATURE (4)
PR: SPW 3200 or equivalent. An introduction to the study of Spanish-American literature from the Colonial period to the present. Emphasis on modern writers since Dario.

SPW 4131 COLONIAL SPANISH-AMERICAN LITERATURE (4)
PR: SPW 3200 or equivalent. An introduction to the study of Colonial Spanish-American literature from the Discovery to Independence.

SPW 4132 19th CENTURY SPANISH-AMERICAN LITERATURE (4)
PR: SPW 3200 or equivalent. An introduction to the study of XIX century Spanish-American literature from the Romantics to the Modernists.

SPW 4133 20th CENTURY SPANISH-AMERICAN LITERATURE (4)
PR: SPW 3200 or equivalent. An introduction to the study of XX century Spanish-American literature.

SPW 4390 SELECTED TOPICS (1-4)
Study of an author, movement, or theme.

SPW 4900 DIRECTED STUDY (1-4)
Departmental approval required.

GRADUATE COURSES

SPN 5420 MODERN USAGE (4)
PR: SPN 4301, or equivalent. An analysis of Contemporary Spanish structure and usage, along with practical training in writing at the expository level.

SPN 5557 CONTEMPORARY SPAIN (4)
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 (4)
PR: SPN 3300. A study of the Spanish sound system.

SPN 6845 HISTORY OF THE SPANISH LANGUAGE (4)
Traces the development of Spanish from its Latin origins to the present.

SPN 6908 INDEPENDENT STUDY (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

SPN 6940 GRADUATE INSTRUCTION METHODS (1-5)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of five credits per student. (S/U only.)

SPW 5245 THE PICAESPIC NOVEL
Realistic prose-fiction of the Renaissance and Golden Age.

SPW 5313 GOLDEN AGE DRAMA
PR: SPW 4100. Lope de Vega, Alarcón, Tirso, Calderón, and others.

SPW 5400 MEDIEVAL LITERATURE
PR: SPW 4100 or equivalent. Course gives an in-depth study of principal works and authors of the period such as El Poema de mio Cid, Libro de Buen Amor and La Celestina.

SPW 5482 POST CIVIL WAR LITERATURE (4)
PR: SPW 4101. The cinema and novel since 1936.

SPW 5535 ROMANTICISM
PR: SPW 4101. Poetry and drama of the first half of the 19th century.

SPW 5555 REALISM

SPW 5605 THE QUIJOTE
PR: SPW 4100. Cervantes’ masterpiece Don Quijote de la Mancha.

SPW 5725 GENERATION OF 1898 (4)
PR: SPW 4101. The major figures of the period and their main followers.

SPW 5726 GENERATION OF 1927

SPW 5755 MEXICAN LITERATURE (4)
PR: SPW 4130. Major writers of all genres. Emphasis on modern writers.

SPW 5765 LITERATURE OF ARGENTINA AND URUGUAY (4)
PR: SPW 4130. Emphasis on the gaucho theme and contemporary prose fiction.

SPW 5775 CARIBBEAN LITERATURE (4)
PR: SPW 4130. Emphasis on contemporary Cuban and Puerto Rican literatures.

SPW 5934 SELECTED TOPICS (1-4)
PR: Upper-level or graduate standing. Study of an author, movement, or theme.

SPW 6313 SEMINAR ON GOLDEN AGE DRAMA
A specialized study of a major Golden Age theme or dramatist.

SPW 6910 DIRECTED RESEARCH
PR: GR. Master’s level. Repeatable. (S/U only.)

SPW 6934 SELECTED TOPICS (1-4)
Study of an author, movement, or theme.

SPW 6936 GRADUATE SEMINAR (4)
Topics vary. May be repeated.

SPW 6971 THESIS; MASTER’s (var.)
Repeatable. (S/U only.)

HUMANITIES—MASS COMMUNICATIONS 185

SPW 5937 JOURNALISM (4)
Preparation of written articles of short or extended length. Emphasis on the craft and techniques of the written word.

SPW 5941 WORLD LITERATURES (4)
An overview of the literature of the world, with consideration given to the major themes, movements, and writers of each period.

SPW 5942 GRADUATE WRITING (4)
Advanced study of the art and craft of writing for the purpose of helping students develop their own writing style.

SPW 5943 GRADUATE RESEARCH METHODS (4)
Advanced study of the methods and techniques of research in a specialized field.

SPW 5944 GRADUATE SEMINARS (4)
Specialized courses in which students engage in in-depth study of a particular subject.

SPW 5945 GRADUATE THESIS (4)
Independent investigation of a specialized topic under the direction of a faculty advisor.

SPW 5946 GRADUATE DISSERTATION (4)
Advanced work on a significant research project, culminating in the development of a comprehensive dissertation.

SPW 5947 GRADUATE INSTRUCTION METHODS (1-5)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of five credits per student. (S/U only.)

HUMANITIES—ARTS 185

HUMANITIES—ARTS 185

HUMANITIES—ARTS 185

HUMANITIES—ARTS 185

UNIVERSITY OF MICHIGAN

HUM 3024 THE HUMANITIES (4)
The Arts. Analyses of selected works of film, literature, music, and visual arts, including a variety of periods, nationalities and art forms, emphasizing artistic diversity. Especially recommended for students intending to take 4000 and 5000 level Humanities courses at a future date.

HUM 3214 THE HUMANITIES (4)
Studies in Culture: The classical and medieval periods. Analyses of selected works of classical and medieval ar-
HUM 3236 THE HUMANITIES (4)
Studies in Culture: The Renaissance and the 19th Century. Analyses of selected fiction, drama, painting, architecture, music, and other art forms. Typical course focus is on architecture, drama, and intellectual prose.

HUM 3251 THE HUMANITIES (4)
Studies in Culture: The 20th Century. Analyses of selected works of 20th Century art, primarily emphasizing film, with secondary emphasis on painting and fiction.

HUM 3271, 3272, 3273 HUMANITIES AND HUMAN VALUES (5,5,5)
Masterpieces of music, visual arts, theater, 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 is designed to bring students into direct contact with artists and their work and to establish an environment for the free exchange of ideas, reactions and direct contact with artists and others.

HUM 4433, 4434 CLASSICAL ARTS AND LETTERS (4,4)
PR: Sophomore standing or CI. Case studies in the arts and letters of the ancient world.

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

HUM 4437, 4438 RENAISSANCE ARTS AND LETTERS (4,4)
PR: Sophomore standing or CI. Case studies in the arts and letters of the Renaissance.

HUM 4440, 4441 THE ENLIGHTENMENT (4,4)
PR: Sophomore standing or CI. Case studies in the arts and letters of the Enlightenment.

HUM 4442, 4443 ARTS AND LETTERS OF THE ROMANTIC PERIOD (4,4)
PR: Sophomore standing or CI. Case studies in the arts and letters of the romantic period.

HUM 4444, 4445 NINETEENTH-CENTURY ARTS AND LETTERS (4,4)
PR: Sophomore standing or CI. Case studies in the arts and letters of the nineteenth century.

HUM 4471, 4473 TWENTIETH-CENTURY ARTS AND LETTERS (5,5)
PR: Sophomore standing or CI. Case studies in the arts and letters of the twentieth century.

HUM 4813 HUMANITIES: THEORY AND PRACTICE (3)
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 (1-5)
Specialized individual study determined by the student's needs and interests.

HUM 4906 SELECTED PROBLEMS IN HUMANITIES (4)
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 (1-5)
PR: Sophomore standing or CI. This course will deal with a recurring 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.

GRADUATE COURSES

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 philosophies-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 20th-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 20th-century Japanese arts and letters.

HUM 5422 AFRICAN ARTS AND LETTERS (4)
Examples from both the traditional and contemporary arts and letters of Africa. Africa as a subject in Western art.

HUM 5452,5454,5456 HUMANITIES IN AMERICA (4,4,4)
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 5485,5486 SELECTED NON-WESTERN HUMANITIES (4,4)
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 (4)
Concentration on major artists and recent trends.

HUM 6493 STUDIES IN CLASSICAL ARTS AND LETTERS (4)
PR: Graduate standing. Examples from the arts and letters of ancient Greece and their relationship to Aegean myths, religious and philosophies. Classical Greek influences on later cultures.

HUM 6494 STUDIES IN MEDIEVAL ARTS AND LETTERS (4)
PR: Graduate standing. Studies in medieval philosophies and their artistic and social expression. Concentrations on early Christian music and manuscript, the communal and monastic ideal (400-1000 A.D.); Romanesque architecture, neo-Platonism and emerging humanism (1000-1200 A.D.); Gothic visual arts—literature, and architecture in relation to philosophical determinism and political absolutism.

HUM 6495 STUDIES IN RENAISSANCE ARTS AND LETTERS (4)

HUM 6496 STUDIES IN ENLIGHTENMENT ARTS AND LETTERS (4)
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 (4)
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 (1-4)
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.
LIBERAL STUDIES

Director: J. B. Camp.

UNDERGRADUATE COURSES

IDS 3300 STRUCTURES OF KNOWLEDGE AND KNOWING (4)
The distinctive modalities of human knowledge and conscious-ness as reflected in the classic distinctions between: sensory/motor, qualitative/quantitative, logical/mathematical, normative/descriptive, ethical/physical, substance/function, etc., apart and in relation to non-rational knowledge.

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 socio-logically “progressive”—in relation to both utopic and dys-topic futures.

IDS 3320 FREEDOM AND THE SELF (4)
Analysis of the notion of the self in relation to the idea of freedom, involving comparative treatment of the variety of standpoints of conceiving the individual personality in relation to the social context.

IDS 4344 SEMINAR: MAN AND NATURE (4)
PR: Senior standing or CI. Examination of aspects of contemporary theories of nature and man deriving in the liberal arts, to the purpose of developing a general assessment of contemporary knowledge and methods of knowing.

IDS 4930 SELECTED TOPICS (2-5)
Course content determined by student's and instructor's interest and need.

LINGUISTICS—see Communication

MASS COMMUNICATIONS


UNDERGRADUATE COURSES

ADV 3000 INTRODUCTION TO ADVERTISING (4)
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 (4)
PR: ADV 3000, ECO 2023 or ECP 1001, MAR 3023, or CI. Study of laboratory experience in preparation of advertising copy for newspapers, magazines, radio, television, direct mail, outdoor displays, and special items.

ADV 3103 RADIO-TELEVISION ADVERTISING (4)
PR: ADV 3000 or CI. An intensive study and analysis of radio and television for advertising purposes, including copywriting, script and storyboard preparation, time buying and selling techniques, audience research methods, and basic production concepts.

ADV 3300 ADVERTISING MEDIA STRATEGY (4)
PR: ADV 3000 or CI. Problems, techniques, strategy of media research, planning, budgeting and effective utilization in advertising.

ADV 3700 RETAIL ADVERTISING PLANNING AND EXECUTION (4)
PR: ADV 3000 and ADV 3101 or CI. A study of retail advertising, including management decisions, processes, procedures, media planning, production techniques, and problems affecting the development of advertising to fulfill retail objectives.

ADV 4801 ADVERTISING CAMPAIGNS (4)
PR: ADV 3101, ADV 3000, MAR 3503. Advanced advertising course requiring planning and production of complete general advertising campaign, including research, production methods, budgeting, and media schedules.

ADV 4940 ADVERTISING PRACTICUM (1-2)
PR: Senior standing and CI. For selected Advertising Sequence major. Practical experience outside the classroom in a live advertising situation where the student works for academic credit under the tutelage of a professional practitioner.

ENG 3130 LITERATURE AND THE FILM (3)
PR: ENC 1135. A study of what happens when a novel is adapted for the movies; of the insights of modern writers and literary critics into the motion picture as an art form analogous to, yet distinct from, literature and of the impact of literature on film-making. Not open for credit to Mass Communication majors.

FIL 3004 THE FILM AS MASS COMMUNICATION I: SYNTAX (4)
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 3100 INTRODUCTION TO FILM WRITING (4)
PR: FIL 3004 or CI. An introduction to the techniques of writing for the film employing adaptations from fiction and examinations of scripts as models and as subjects for critical analysis. Special emphasis on learning the Language of the Camera.

FIL 3200 THE FILM AS MASS COMMUNICATION II: RHETORIC AND STYLISTICS (4)
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 (4)
PR: FIL 3200. Practical exercises, demonstrations, and experiences in applying material covered in FIL 3004 and FIL 3200.

FIL 3401 CLASSICS OF THE SILENT FILM (4)
Examples of the silent film studies from social, intellectual, historical, and artistic points of view.

FIL 3402 CLASSICS OF THE SOUN D FILM (4)
Examples of the sound film studies from social, intellectual, historical, and artistic points of view.

FIL 3502 PHILOSOPHY AND THE FILM (3)
A study of the philosophical implications of the motion picture as an art form; esthetics in general versus film esthetics; the connection between the world views of such modern philosophers as Bergson, Whitehead, and Bradley, and the world view expressed through the motion picture; the connections between “pure ideas” the ideas in the documentary film and the ideas in the fictional film. Not open for credit to Mass Communications majors.

FIL 4205 ADVANCED CAMERA TECHNIQUES (4)
PR: FIL 3004. Advanced camera technology, professional procedures, emulation selection, color control, studio and location shooting, laboratory methods, matte shooting, and special effects.

FIL 4206 ADVANCED FILM LIGHTING (4)
PR: FIL 4205 or CI. Advanced lighting of studio and location sets stressing professional procedures and standards from pre-production to post-production.

FIL 4207 SENSITOMETRY AND PHOTOMETRICS (4)
PR: FIL 3004. The materials and processes of cinema photography, response of materials to development and exposure.

FIL 4208 FILM DIRECTING (4)
PR: FIL 3004. Introduction to the techniques of film direction.
FIL 4209 CINEMA DYNAMICS (4)
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 (4)
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, critical analysis.

FIL 4403 SOCIAL HISTORY OF THE FILM TO 1945 (4)
PR: MMC 3100 and MCC 3602. The industrial, technological, philosophical, and social factors bearing on the rise and development of the motion picture as a popular art. Intensive study of a series of films through screenings and readings.

FIL 4404 SOCIAL HISTORY OF THE FILM, 1945 TO THE PRESENT (4)
PR: MMC 3100 and MCC 3602. A continuation of FIL 4403, covering the development of the film from 1945 to the present. (FIL 4403 is a prerequisite.)

FIL 4500 FILM CRITICISM (4)
PR: FIL 4300, FIL 4403, FIL 4404, JOU 3100, CI. The film as a mass communication aspect with other important aspects. Critical analysis of selected films and intensive readings in the theory of film. Literary, social, dramatic, philosophic, and historico-philosophical approaches to film criticism.

JOU 3006 MAGAZINES IN SOCIETY (4)
PR: MMC 3100 and MCC 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 (4)
PR: MMC 3100 and MC 3602. Basic instruction in news judgment, sources of news, gathering, and newswriting techniques. Typing ability is required.

JOU 3101 ADVANCED REPORTING (4)
PR: CCI 2030, JOU 3100, 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 (4)
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. Laboratory work.

JOU 3206 TYPOGRAPHY II (4)
PR: JOU 3205 or CI. 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 photocomposition including readability and legibility. Laboratory work.

JOU 3300 MAGAZINE ARTICLE AND FEATURE WRITING (4)
PR: ENC 3486, JOU 3100, or CI. 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, COLUMNS (4)
PR: JOU 3101, JOU 4200. Interpretive and opinion writing for the mass media. Analysis and discussion of current events as a basis for critical thinking and editorial writing; evaluation of editorial pages of leading newspapers. Study of journalistic techniques involved in writing art, drama, music, and book reviews and satire, sports, or personal columns.

JOU 3940 REPORTING PRACTICUM (1-2)
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.

JOU 4104 PUBLIC AFFAIRS REPORTING (4)
PR: JOU 3101 or RTV 3300, 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 (4)
PR: ECP 1001. JOU 3100, and SOC 1020 or CI. 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 (4)
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 4208 MAGAZINE EDITING AND PRODUCTION (4)
PR: JOU 3300, JOU 4200 or CI. A study of magazines in America: preparation of copy, photographs and art for printing; issue planning and design; examination of production methods, including printing, typography and mechanicals. Preparation of a detailed proposal and comprehensive for a hypothetical magazine.

JOU 4500 NEWSPIE ORGANIZATION AND MANAGEMENT (4)

JOU 4800 MASS MEDIA STUDIES (4)
PR: Junior standing. JOU 3100, MMC 3000 or CI. 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 (1-2)
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 newshour.

JOU 4944 MAGAZINE PRACTICUM (2)
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.

MMC 3000 SURVEY OF MASS COMMUNICATIONS (3)
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 for credit to Mass Communications majors.

MMC 3100 WRITING FOR THE MASS MEDIA (4)
PR: Sophomore standing. 2.5 GPR; grade of “C” in ENC 1102, ENC 1135, ENC 1168; typing proficiency. 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 (4)
PR: Sophomore standing. 2.5 GPR; grade of “C” in ENC 1102, ENC 1135, ENC 1168; typing proficiency. 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 (4)
A survey of the growth of the popular arts (motion pictures,
Courses designed to meet current or specific topics of interest to the instructor and students.

**MMC 4200 HISTORY AND PRINCIPLES OF COMMUNICATIONS LAW**
PR: MMC 3100 and MMC 3602. Historic and Constitutional backgrounds of freedom and control of expression, statutory enactments, major Supreme Court cases, court decisions and administrative rulings which have shaped legal control of communications.

**MMC 4201 GOVERNMENT AND THE MEDIA**
PR: MMC 4200. The relationships between government and the media, with emphasis on current activities of such regulatory agencies as the Federal Communications Commission, the Federal Trade Commission and other commissions; the courts, the Congress and the Executive; examination of 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 4900 DIRECTED READING IN MASS COMMUNICATIONS**
PR: Junior standing, CC and CI. Reading and directed study in special topics.

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

**MMC 4931 SENIOR SEMINAR: INTERCOMMUNICATION—THE MASS MEDIA IN PERSPECTIVE**
PR: Senior standing; open only to Mass Com. majors. The interrelationships among the mass media and institutions; their effect upon each other and upon contemporary society.

**MMC 4936 SELECTED TOPICS IN MASS COMMUNICATIONS STUDIES**
PR: Junior standing. Courses designed to meet current or specific topics of interest to instructors and students.

**PUR 3000 PRINCIPLES OF PUBLIC RELATIONS**
PR: ECP 1001 and MAR 3023, MMC 3100 and MMC 3602. The functions of public relations within corporate and institutional structures; ethical standards of practice, and relationships of the practice to the public media and other modes of contemporary communication.

**PUR 4000 ADVANCED PUBLIC RELATIONS**
PR: PUR 3000 and PUR 4100 or CI. As final course in PR sequence, it involves intensive study of counseling and problem solving techniques used in professional practice. Analysis of case studies and preparation of complete PR program. Extensive reading in the literature of contemporary practice.

**PUR 4100 WRITING FOR PUBLIC RELATIONS**
PR: JOU 3100, PUR 3000. Persuasive writing techniques unique to the practice of public relations; application of principles and ethical practices to problem-solving situations drawn from case studies; writing formats used in promotional and publicity literature.

**PUR 4601 PUBLIC INFORMATION**
PR: AMH 2010 or AMH 2020, POS 2041, POS 2112, and PUR 4100, or CI. The nature of government public information organization, practices, and criticisms thereof; the role of information specialists in reporting government at all levels to the public; conceptual differences in approach and techniques between governmental and private sector public relations.

**PUR 4700 PUBLIC RELATIONS PRACTICUM**
PR: Senior standing and CI. For selected Public Relations Sequence majors. Practical experience outside the classroom in a professional public relations situation where the student works for academic credit under the tutelage of a professional practitioner.

**RTV 3000 INTRODUCTION TO BROADCASTING**
PR: MMC 3100 and MMC 3602. A survey of the organization, structure, and function of the broadcasting industry.

**RTV 3100 WRITING FOR RADIO AND TV**
PR: ENC 3466 or ENC 3486, RTV 3000. The writing of radio and television scripts such as documentaries, children’s programs, commercials, dramas, talks, and demonstrations.

**RTV 3210 RADIO PRODUCTION AND DIRECTION**
PR: RTV 3000. Radio production and direction: laboratory and broadcast experiences.

**RTV 3230 BROADCAST ANNOUNCING**
PR: ORI 3000, RTV 3000, SPC 2023 or LIN 2200 or THE 2020. Development of skills required for effective announcing and other appearances before microphone and camera.

**RTV 3300 BROADCAST NEWS**
PR: JOU 3100, RTV 3000. The study and methods in gathering, writing, and editing newscasts for radio and television.

**RTV 3941 RADIO PRACTICUM**
PR: RTV 3210 and CI. The study, rehearsal, and production of radio programs and materials.

**RTV 4205 ADVANCED TV PRODUCTION AND DIRECTION**
PR: RTV 4220 and junior standing. Intensive study and practice of the techniques of TV production and direction with emphasis on both creative and experimental aspects of TV programming.

**RTV 4220 TV PRODUCTION AND DIRECTION**
PR: RTV 3000 and junior standing. A basic course in the techniques of producing and directing TV programs.

**RTV 4301 TV NEWS FILM**
PR: RTV 3300 or CI. Techniques in writing and filming for television news.

**RTV 4402 MEDIA CRITICISM: BROADCASTING**
PR: RTV 3000. A critical study of contemporary broadcast content.

**RTV 4500 THE BROADCAST PROGRAM**
PR: RTV 3000. Program concepts, resources, costs, selection and scheduling. Analysis of programming in terms of structures, appeals and strengths.

**RTV 4700 BROADCAST LAW**
PR: RTV 3000 or CI. A study of the broadcasting industry from the perspective of governmental regulation and the political process with special emphasis on how regulatory policy is determined.

**RTV 4942 TV PRACTICUM**
PR: RTV 4220 or CI. The study, rehearsal and production of television programs and materials.

**VIC 3000 INTRODUCTION TO VISUAL COMMUNICATIONS**
PR: MMC 3100 and MMC 3602. The survey of visual communication theory, techniques, and their contemporary application and social influences as applied to the visual media with emphasis on still photography, motion pictures, video tape, and graphics.

**VIC 3100 PHOTOJOURNALISM I**
PR: MMC 3100 and MMC 3602. Camera operation, darkroom techniques, picture composition; editing, ethics, history, and laws in connection with photojournalism.

**VIC 3102 PHOTOJOURNALISM II**
PR: VIC 3100 or CI. Advanced process and practice of photography for publication. Content includes advanced camera and laboratory techniques, publication requirements and theory of photochemical color separation used in magazine and newspapers. Emphasis is placed on student production.

**VIC 4103 COLOR PHOTOGRAPHY**
PR: VIC 3102 or CI. Development of knowledge and skills of color photography for publication and presentation. Emphasis...
is on the use of transparency and negative color materials in their application to the media. Laboratory required.

GRADUATE COURSES

ADV 6503 MEDIA AND MARKET ANALYSIS (4)
An advanced study of the demographic, geographic, and social-psychographic descriptions of media and markets to analyze mass media audiences, costs and uses to aid in solving marketing communications problems for advertisers.

ADV 6602 ADVERTISING MARKETING DECISIONS (4)
A study of managerial problems in planning, controlling, and evaluating advertising and marketing decisions with emphasis on the decisions concerning products, pricing, competitive positioning, distribution and promotion.

FIL 5504 FILM STUDIES (4)
PR: Senior standing. Not open for credit to Mass Communications majors. An intensive review of film theory and practice as they relate to content in secondary school subjects such as English, social studies, history of journalism, and research.

FIL 5601 FILM PRODUCTION MANAGEMENT (4)
PR: FIL 3201. The planning and management of motion picture productions.

JOU 6107 ADVANCED URBAN AFFAIR REPORTING (4)
Problems and methods of reporting urban affairs, including municipal government and politics: city, county and state. Research/analyses of current issues.

JOU 6191 SEMINAR: CONTEMPORARY NEWSPAPER PROBLEMS (4)
A study of the role of the free press in a democratic society and its efforts to fulfill its social and ethical responsibilities by analyses and discussions of the problems which face the reporter, the editor, and the publisher.

MMC 6303 INTERNATIONAL COMMUNICATIONS SEMINAR (4)
Mass Communications as national 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 (4)
The study of mass communications theories, structures, influences, and their relationships to institutions in American society.

MMC 6421 RESEARCH METHODS IN MASS COMMUNICATIONS (4)
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 (4)
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 (4)
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. May be repeated up to 4 credit hours.

MMC 6900 DIRECTED READINGS IN MASS COMMUNICATIONS (1-4)
PR: CI and graduate adviser. Readings in specialized areas of Mass Communications as agreed to by the instructor and the student by contract. (S/U only).

MMC 6910 INDIVIDUAL RESEARCH IN MASS COMMUNICATIONS (1-4)
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 4 credit hours. (S/U only).

MMC 6936 SELECTED TOPICS IN MASS COMMUNICATIONS (4)
Courses designed to meet current, specific topics of interest to students and instructors.

MMC 6945 PROFESSIONAL PRACTICUM (4)
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 quarters up to 8 credit hours. (S/U only).

PUR 6603 PUBLIC RELATIONS COUNSELING (4)
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 (4)
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 6400 HISTORY AND CRITICISM OF BROADCASTING (4)
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 (4)
An exploration of the emerging problems of telecommunication policy, especially the regulation of news systems of communication, and the development of communications policy in a post-industrial age.

VIC 6005 SEMINAR IN VISUAL COMMUNICATIONS (4)
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. Silver; Assistant Professors: R. N. Taylor, R. C. Weatherford; Instructor: Peter A. Ivanick; Courtesy Assistant Professor: M. Ferrandino.

UNDERGRADUATE COURSES

PHH 3000 INTRODUCTION TO PHILOSOPHICAL TRADITIONS (4)
An historical introduction to selected philosophical traditions through readings from representative thinkers.

PHH 3100 ANCIENT PHILOSOPHY (4)
A survey of philosophy from the pre-Socratics through Plotinus.
**PHH 3272 MEDIEVAL AND RENAISSANCE PHILOSOPHY** (4) A survey of Western philosophy from St. Augustine through Francis Bacon.

**PHH 3420 EARLY-MODERN PHILOSOPHY** (4) A survey of Western philosophy from Descartes through Thomas Reid.

**PHH 3440 RECENT PHILOSOPHY** (4) A survey of philosophy from Kant through nineteenth century philosophy.

**PHI 4600 CONTEMPORARY PHILOSOPHY** (4) 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** (4) Major traditions in American thought—Puritanism, the Enlightenment, Transcendentalism, Idealism, Pragmatism, and Analytic Philosophy—in relation to American culture.

**PHI 1000 GREAT PHILOSOPHERS OF THE WESTERN WORLD** (2) Lectures and discussions of the great philosophers since Plato, focusing on particular problems.

**PHI 1010 PHILOSOPHIC CONTROVERSIES** (2) A discussion of central controversies in philosophy such as the nature of love, violence, freedom, truth, morality, etc. This course is also available on WUSF/TV Channel 16 by the O.U. Program.

**PHI 1103 PRACTICAL LOGIC** (2) Elementary theory and application of logical fallacies, deductive and inductive logic. Not for majors.

**PHI 3011 INTRODUCTION TO PHILOSOPHICAL PROBLEMS** (4) An introduction to major philosophical problems through readings from representative thinkers.

**PHI 3100 LOGIC** (5) Language analysis and classical modern formal logic, including the logic of classes and propositions, and discussion of philosophical issues.

**PHI 3404 SCIENTIFIC METHOD** (4) Probability, inductive inference, the hypothetico-deductive method, experimentation, and selected topics in the philosophy of science.

**PHI 3600 ETHICS** (4) An examination of the writing of the philosophers: Plato, Aristotle, Kant, Sartre, etc., about moral problems and principles.

**PHI 3700 PHILOSOPHY OF RELIGION** (4) Analysis of religious experience and activity and examination of principal religious ideas in light of modern philosophy.

**PHI 3905 DIRECTED STUDY** (1-5) PR: CI. Individual study directed by a faculty member. Approval slip from instructor required.

**PHI 3930 SELECTED TOPICS** (1-5) PR: CI. Selected topics according to the needs of the student. Approval slip from instructor required.

**PHI 4320 PHILOSOPHY OF MIND** (4) 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 4360 THEORY OF KNOWLEDGE** (4) 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** (4) A study of traditional and contemporary aesthetic theories with emphasis on creative process, the nature of the art work, the aesthetic response, expressiveness, form and content as well as art and morality.

**PHI 4905 DIRECTED STUDY** (1-5) PR: CI. Individual study directed by a faculty member. Approval slip from instructor required.

**PHI 4930 SELECTED TOPICS** (1-5) PR: CI. Selected topics according to the needs of the senior students. Approval slip from instructor required.

**PHM 3100 SOCIAL PHILOSOPHY** (4) An analysis of rival theories of social order and their philosophical foundations.

**PHM 3222 PHILOSOPHIES OF THE CITY** (3) 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. For majors and non-majors.

**PHM 3400 INTRODUCTION TO PHILOSOPHY OF LAW** (4) A study of the fundamental concepts of law from a philosophic standpoint including crime, justice, punishment, free speech, insanity, etc.

**PHM 4322 ANCIENT AND MEDIEVAL POLITICAL PHILOSOPHY** (3) A survey of political philosophy from 6 B.C. until 1600 A.D., including an examination of the ethical, metaphysical, and epistemological bases of these philosophies.

**PHM 4331 MODERN POLITICAL PHILOSOPHY** (3) A survey of political philosophy from 1600 A.D. until 1900 A.D., including an examination of the ethical, metaphysical, and epistemological bases of these philosophies.

**PHM 4340 CONTEMPORARY POLITICAL PHILOSOPHY** (3) A survey of political philosophy in the twentieth century, including an examination of the ethical, metaphysical, and epistemological bases of these philosophies.

**PHP 3786 EXISTENTIALISM** (4) 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** (4) PR: Eight hours of philosophy or CI. The examination of Plato will include the dialogues Protagoras, Gorgias, Meno, Republic, etc.

**PHP 4010 ARISTOTLE** (4) PR: Eight hours of philosophy or CI. Study of Aristotle's philosophy.

**PHP 4410 KANT** (4) PR: Eight hours of philosophy or CI. Lecture and discussion of Kant's philosophy, especially The Critique of Pure Reason.

**PHP 4740 RATIONALISM** (4) A careful study of the epistemologies of Descartes, Spinoza, Leibniz, and Malebranche.

**PHP 4745 EMPIRICISM** (4) A careful study of the epistemologies of Locke, Berkeley, Hume, and Thomas Reid.

**PHP 4784 ANALYTICAL PHILOSOPHY** (4) 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** (4) PR: CI. A critical survey of Marxist philosophy from Marx and Engels to Mao Tse-Tung and Herbert Marcuse. Hegelian foundations of Marxist philosophy analyzed in detail.

**GRADUATE COURSES**

**PHH 6938 SEMINAR IN THE HISTORY OF PHILOSOPHY** (4) 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** (4) 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 (4)**
- 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 (1-5)**
- PR: CI. Individual research supervised by a faculty member. Approval slip from instructor required.

**PHI 5934 SELECTED TOPICS (1-5)**
- PR: CI. Selected topics according to the needs of the student. Approval slip from instructor required.

**PHI 6105 SEMINAR IN LOGIC (4)**
- 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 (4)**
- 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 (4)**
- PR: Graduate standing or CI. A study of the nature and status of scientific 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 ETHICS (4)**
- PR: Graduate standing and CI. Advanced study of the problems of moral philosophy. May be repeated up to 8 credit hours.

**PHI 6706 SEMINAR IN PHILOSOPHY OF RELIGION (4)**
- 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 (4)**
- PR: Graduate standing or CI. An analysis of fundamental special problems of aesthetics; value, perception, communication, technique, context. 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 (1-5)**
- PR: Graduate standing and CI. Selected topics according to the needs of the student. Approval slip from instructor required.

**PHI 6945 GRADUATE INSTRUCTION METHODS (1-5)**
- Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 3 credits per student. (S/U only.)

**PHI 6971 THESIS: MASTER'S (var.)**
- Repeatable. (S/U only.)

**PHM 5505 PHILOSOPHY OF HISTORY (4)**
- PR: Eight hours of philosophy, major in history, or CI. A systematic study of historical theories and of the methods of historical explanation. An examination of classical theories from Vico through Herder, Hegel, Marx down to Spengler and Toynbee, etc. Seminar format.

**PHM 6105 SEMINAR IN SOCIAL PHILOSOPHY (4)**
- 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 (4)**
- PR: 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 (4)**
- 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 (4)**
- 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.

**RELIGIOUS STUDIES**

**Chairperson:** W. C. Tremmel; **Coordinator of Ancient Studies:** A. M. Gessman; **Professors:** A. M. Gessman, W. C. Tremmel; **Associate Professor:** J. F. Strange; **Assistant Professors:** D. E. Bassuk, T. J. Burns; **Visiting Instructors:** L. T. Anderson, R. DeHainaut, R. Giannini, C. Kilgore, F. N. Sundheim; **Other Faculty:** J. S. Hatcher, E. E. Smith, S. A. Zylystra.

**UNDERGRADUATE COURSES**

**GRE 3040 NEW TESTAMENT GREEK I (4)**

**GRE 3041 NEW TESTAMENT GREEK II (4)**

**REL 3000 INTRODUCTION TO RELIGION (4)**
- An examination of the phenomenon of religion, which will include (1) an examination of why people do religion; (2) an examination of the character of theology, with special attention to certain basic theological concepts such as God, sin, salvation, liberation, reincarnation, immortality, theism, atheism; (3) an analysis of the character of religious ritual in its metatechnological, sacramental, and experimental forms; and (4) an examination of the place and character of moral systems in religion.

**REL 3045 DIALOGUES IN RELIGION (4)**
- A course designed to place in dialogic encounter various aspects of contemporary religious beliefs and practices for the purpose of enabling students to hear and participate in discussions concerning the claims and procedures of existing religions.

**REL 3120 RELIGION IN AMERICA (4)**
- To examine the movement from state church to pluralism in American religious institutions, the religious results of non-Protestant immigration; the Jewish factor; the effect of home missions and social concern programs upon American life; political entanglements and the concept of church/state separation.

**REL 3131 NEW RELIGIONS IN AMERICA (4)**
- A course designed to allow the student to survey the wide spectrum of contemporary sects and cults and learn what motivates their development.

**REL 3132 THE BLACK CHURCH (4)**
- A critical examination of the Black Church will be made in this course. The significance of religious development and the present condition of Black religious institutions and their relationships to modern movements will be examined.
Denominational, interdenominational, and international causes will also be examined for their particular religious, political, economic, social, and ideological significance.

**REL 3133 BLACK RELIGIOUS EXPERIENCE IN AMERICA**
A course designed to stimulate interest in the religious history, experience, and thinking of American Blacks.

**REL 3145 WOMEN AND RELIGION**
An analysis of the status and roles of women as compared to men in the Judeo-Christian tradition. Contemporary issues raised by feminist theologians and scholars and the controversies surrounding them, including the ordination of women; type of language and imagery used in religious literature; religious attitudes toward sex roles and female sexuality; implications of the religious tradition for men as well as women. (Also offered under Women’s Studies.)

**REL 3201 LAND OF THE BIBLE**
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 the time of Jesus.

**REL 3210 INTRODUCTION TO THE OLD TESTAMENT**
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**
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**
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—EASTERN**
An introduction to and a comparison of the ideas, the literature, the institutions of the major religions of the Eastern World, especially Buddhism (Theravada, Mahayana, Zen), Hinduism, Jainism, Taoism, Confucianism, Shinto.

**REL 3320 WORLD RELIGIONS—WESTERN**
An introduction to and a comparison of the ideas, the literature, the institutions of the major religions of the Western (Near Eastern origin) World—Judaism, Zoroastrianism, Christianity, and Islam. And a general comparison of Western religious ideas with Eastern religious ideas.

**REL 3332 BUDDHISM**
The study and comparison of Theravada and Mahayana Buddhism in their philosophical and psychological dimensions.

**REL 3335 RELIGIONS OF CHINA AND JAPAN**
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**
The sources of Hindu philosophic thought, an understanding of the philosophy 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**
An examination of the central ideas of recent theological thinkers; such men as Barth, Brunner, Bultmann, Bonhoeffer, Rahner, Tillich, Cox, Altsizer, Buber, Niebuhr.

**REL 3501 HISTORY OF CHRISTIANITY I**
The historical development of Christianity, its ideas and institutions, from the first century to the sixteenth century.

**REL 3502 HISTORY OF CHRISTIANITY II**
The historical development of Christianity, its ideas and institutions from the work of John Wycliff to the rise of "religious modernism" in the 19th century.

**REL 3508 SOURCES OF CHRISTIANITY**
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**
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 3610 HISTORY OF JUDAISM**
The historical development of Judaism and Jewish concepts from Biblical times to the modern era with emphasis on the formative years from the Prophets to the close of the Talmud.

**REL 3612 MODERN JUDAISM**
A study of Jewish life in the West since 1789, emphasizing Jewish beliefs, practices, and institutions.

**REL 3900 DIRECTED READINGS**
PR: CI. Individual guidance in concentrated reading on a selected topic.

**REL 3936 SELECTED TOPICS**
PR: CI. Course contents depend on students' needs.

**REL 4141 RELIGIOUS BEHAVIOR AND INSTITUTIONS**
PR: One course in sociology or social psychology or CI. The sources of religious social thought, an understanding of the historical evolution of religious thought about society, and an analytical grasp of the way in which religious insights and values relate to human societal life are the three main objectives of this course.

**REL 4158 RELIGION AND DEPTH PSYCHOLOGY**
PR: One psychology course or CI. This course is designed to enhance the student's understanding of human existence by investigating the interrelationships between human dynamics and religion.

**REL 4182 COMPARATIVE MYSTICISM**
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: LAW**
An examination of the Pentateuch or Torah from the point of view of its literary development, internal traditions, historical background, Law, covenant theology, and Hebrew religion.

**REL 4224 BIBLE II: PROPHETS**
PR: REL 3210 or REL 4221 or CI. An investigation of the Prophetic literature of the Hebrew Scriptures including the emergence of mantic prophecy in Elijah and Elishah, classical prophecy in Jeremia, Micah, Amos, and Isaiah, the later twelve prophets, and the role of Samuel and the Book of Kings.

**REL 4228 BIBLE III: WRITINGS**
PR: REL 3210 or REL 4221 or CI. An exploration of the poetic and historical writings in the Hebrew canon including the Psalms, Wisdom Literature, Job and the problem of evil, the Five Scrolls, Daniel and apocalypticism, and the religious views of the Chronicler.

**REL 4244 NEW TESTAMENT STUDIES I (Gospels)**

**REL 4250 JESUS’ LIFE AND TEACHINGS**
PR: CI. An examination of the various historical studies made in the quest of identifying Jesus as an historical figure. The concern is to make a reasonable assessment of who Jesus was and what he was saying to the Jews in Palestine at the beginning of the common era.

**REL 4252 NEW TESTAMENT STUDIES II (Pauline Letters)**
An investigation of earliest Christianity in its Jewish and Gen-
tile forms, the historical Paul, his proclamation, and his letters as preserved in the New Testament.

**REL 4256 NEW TESTAMENT STUDIES III (Later Letters and Revelation)**  
An examination of the emergence of institutional Christianity in the New Testament, particularly in churchly theology, the Pastoral Epistles, the catholic Epistles, the letters of James and John, and finally Christian apocalypticism in the book of Revelation (Apocalypse).

**REL 4295 DEAD SEA SCROLLS**  

**REL 4910 UNDERGRADUATE RESEARCH**  
PR: Junior standing and CI. Individual investigations with faculty supervision.

**REL 4931 SEMINAR IN RELIGION**  
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**  
PR: Junior standing and CI. Individual investigations with faculty supervision.

**GRADUATE COURSES**

**CLA 3000 ANCIENT CIVILIZATIONS**  
Study of the character, ideas, and cultural achievements of the peoples of the Ancient Middle East and Mediterranean and their relevance for modern Western civilization.

**CLA 3801 HISTORY OF ALPHABET**  
Study, in reasonable detail, of the evolution of our 'Roman' alphabet, as well as of other ancient and modern alphabets, from the writing system of ancient Egypt.

**CLA 3851 MID-EASTERN MYTHOLOGY**  
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**  
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**  
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**  
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**  
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**  
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**  
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), The Bible as History (4), Basic Sanskrit (3,3,3) and Old Church Slavonic (5).

**HEB 3100, 3101, 3102 BASIC HEBREW I, II, III**  
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, 4252 ADVANCED HEBREW I, II, III**  
PR: HEB 3100, HEB 3101, HEB 3102 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**  
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**  
(2-5) Specialized individual work in particular areas of student's interest.

**CLA 5930 SELECTED TOPICS**  
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.

**SPEECH COMMUNICATION**  
—see Communication

---

**COLLEGE OF BUSINESS ADMINISTRATION**

**ACCOUNTING**


**UNDERGRADUATE COURSES**

**ACC 2001 ELEMENTARY ACCOUNTING I**  
Study of basic accounting principles including the recording and reporting of financial activity. The preparation and interpretation of financial statements.

**ACC 2021 ELEMENTARY ACCOUNTING II**  

**ACC 3101 INTERMEDIATE ACCOUNTING I**  
PR: ACC 3301 or CR in ACC 3301. Measurement theory and
methodology underlying income measurement and reporting of financial position. The study of cash, time value analysis, receivables, and inventories.

ACC 3121 INTERMEDIATE ACCOUNTING II
PR: ACC 3101. Continuation of theory and principles underlying financial statements, current and long term liabilities, plant and equipment, investments, intangible, leases and pensions, and owner's equity.

ACC 3141 INTERMEDIATE ACCOUNTING III
PR: ACC 3121. Required for Accounting majors. Continuation of theory and principles underlying financial statements, earnings per share, income tax allocation, price-level changes, accounting changes, statements from incomplete records, statements of change in financial position, and contemporary accounting issues.

ACC 3301 ACCOUTNING FOR MANAGEMENT CONTROL
PR: ACC 2021. Study of accounting from user's point of view. Includes measurement theory, use of financial statements, and accounting measurement in planning and control.

ACC 3401 COST ACCOUNTING AND CONTROL I
PR: FIN 3403, GEB 3121. Deals with relevant costs for decision making; standards and job order costing, flexible budgeting, direct and absorption costing, regression analysis and decision models.

ACC 3730 ACCOUNTING INFORMATION SYSTEMS
PR: ACC 3401 and COC 2201, Computers in Business I. 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 4201 ADVANCED ACCOUNTING
PR: ACC 3121: MAC 2242 or College Algebra. Partnerships, governmental accounting, and price-level changes.

ACC 4221 CONSOLIDATED FINANCIAL STATEMENTS
PR: ACC 3121. Accounting for business combinations, preparation of consolidated financial statements, home office and branch operations, reporting by multinational companies and segments of a business enterprise.

ACC 4421 COST ACCOUNTING AND CONTROL II
PR: ACC 4401. A continuation of ACC 4401. The study of cost allocation, capital budgeting, inventory planning and control, joint products, process costing, performance measurement, and transfer pricing.

ACC 4501 FEDERAL TAXES
PR: ACC 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
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
PR: ACC 3121 and GEB 3121. Principles and procedures of internal and public auditing. The ethics, responsibilities, standards, and reports of professional auditing.

ACC 4905 INDEPENDENT STUDY
PR: CI. Specialized independent study determined by the students' needs and interests. May be repeated up to 8 credit hours. (S/U only.)

ACC 4906 INDEPENDENT RESEARCH
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 10 hours.

ACC 4934 SELECTED TOPICS IN ACCOUNTING
PR: CI. The course content will depend on student demand and instructor's interest.

ACC 5031 ACCOUNTING CONCEPTS AND METHODOLOGY I
PR: ACC 5031. A continuation of ACC 5031. Consideration is given to budgeting and cost accounting. Emphasis is placed upon the analysis of financial condition and business operations through an understanding of accounting statements and reports. May not be taken by business administration graduate students.

ACC 5051 ACCOUNTING CONCEPTS AND METHODOLOGY II
PR: ACC 5031. A continuation of ACC 5031. Consideration is given to budgeting and cost accounting. Emphasis is placed upon the analysis of financial condition and business operations through an understanding of accounting statements and reports. May not be taken by business administration graduate students.

ACC 5315 FINANCIAL/MANAGERIAL ACCOUNTING
This course is designed to provide students in the M.S. degree in Management, in Health Care and Urban Management sections, with a basic knowledge of financial and managerial accounting in both the public and private sectors. The course is non-technical in nature, and concentrates on the uses and limitations of accounting data for planning, control, and other decision-making activities.

ACC 5805 CONTEMPORARY ACCOUNTING THOUGHT
PR: Intermediate Accounting III 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 5935 SELECTED TOPICS IN ACCOUNTING
PR: CI. To allow advanced undergraduate students and graduate students to research and study contemporary and emerging topics in the field. May be repeated up to 10 credit hours.

ACC 6412 MANAGEMENT ACCOUNTING AND CONTROL
PR: Financial Accounting for Managers. The relevancy and limitation of cost information in business decision making. Emphasis is oriented towards the role of cost accounting measurements 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 6451 MANAGEMENT COST ANALYSIS AND CONTROL
PR: 24 quarter hours of accounting or CI. Measurement, interpretation, planning, and control of costs by means of predetermined standards and variance analysis. Use of accounting and statistical information in preparing budgets and controlling operations.

ACC 6511 FEDERAL TAX RESEARCH AND PLANNING
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 6691 ETHICS AND RESPONSIBILITIES IN PROFESSIONAL ACCOUNTANCY
PR: ACC 4601 or equivalent. The study of elements of public accounting practice, professional conduct, auditing principles and reporting standards. The relationship of the field of public accounting to federal and state agencies.

ACC 6745 SYSTEMS THEORY AND QUANTITATIVE APPLICATIONS
PR: ACC 4730 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 6805 CONTEMPORARY ACCOUNTING THOUGHT
PR: ACC 6811 or CI. Concentrated study of current problem areas in the field of accountancy.
ACC 6811 DEVELOPMENT OF ACCOUNTING THOUGHT (3)
PR: 24 quarter hours in 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 (1-6)
PR: CC. The course content will depend on student demand and instructor's interest. May be repeated up to 6 hours.

ECONOMICS


UNDERGRADUATE COURSES

ECO 2013 ECONOMIC PRINCIPLES (MACROECONOMICS) (4)
An introduction to the modern theory of income determination with emphasis upon the application of monetary and fiscal policy oriented toward the accomplishment of the macroeconomic objectives of full employment, economic growth, and balance of payments stability.

ECO 2023 ECONOMIC PRINCIPLES (MICROECONOMICS) (4)
The fundamental economic concept of scarcity, alternative courses of action and the problem of choice. How an economy decides what to produce, how to produce and how to reward participants in the economy. Attention is focused on factors affecting consumer wants and on the behavior of price in different types of markets.

ECO 3101 INTERMEDIATE PRICE THEORY (5)
PR: ECO 2013, ECO 2023. Advanced analysis of supply and demand as related to competition and monopoly; application of economic theory to product pricing and resource pricing.

ECO 3203 INTERMEDIATE INCOME AND MONETARY ANALYSIS (5)
PR: ECO 2013, ECO 2023. An advanced exposition of the neo-Keynesian analysis explaining the determination of income, employment, prices, and the interest rate. Emphasis is placed upon the interaction of aggregate demand, as determined by consumption, investment, money, and the government budget, and aggregate supply.

ECO 3431 BUSINESS FLUCTUATION AND ECONOMIC FORECASTING (5)

ECO 3623 AMERICAN ECONOMIC HISTORY (4)
The growth and evolution of American economic institutions from Colonial times to the present.

ECO 3703 INTERNATIONAL ECONOMICS (4)

ECO 4213 MONETARY THEORY (5)
PR: ECO 3101, ECO 3203. An examination of the impact of the financial sector upon real economic magnitudes. The course approaches its subject matter through the theory of portfolio and capital adjustments with emphasis upon the contributions of Pigou, Fisher, Keynes, Patinkin, Friedman and Tobin.

ECO 4264 THEORY OF ECONOMIC DYNAMICS (4)
PR: ECO 3203. An examination of macroeconomic processes as they occur through time. The determination and characteristics of long run growth paths based upon both Keynesian and Neo-classical models are discussed and business cycles are then treated as short run deviations from these growth paths. Empirical studies, forecasting, and policy issues are also considered.

ECO 4303 HISTORY OF ECONOMIC THOUGHT (5)
PR: ECO 2013, ECO 2023, ECO 3101, or CI. The development of the economic schools (Scholasticism, Mercantilism, Physiocratic, Classicism, Utopia Socialism, Anarchism, Marxism, Historicism, Marginalism, Neo-Classicism, Institutionalism, and Keynesianism) in connection with their philosophical and political convictions in relation to their times.

ECO 4323 MARXIST POLITICAL ECONOMY (4)
PR: ECO 2013 and ECO 2023 or CI. An examination of the Marxist tradition and other "left" perspectives in economics. Application of Marxist economic theory to problems of advanced capitalist and socialist societies.

ECO 4401 INTRODUCTION TO MATHEMATICAL ECONOMICS (4)
PR: ECO 2013, ECO 2023 and GEB 3121, MAC 2243 or CI. Economic processes expressed as equations and economic systems as mathematical models. Investigation of their static and dynamic properties by mathematical analysis and computer simulation.

ECO 4402 SELECTED TOPICS IN QUANTITATIVE ECONOMICS (4)
PR: GEB 3121, MAC 2243 or CI. Analysis of relevant problems of social policy by application of economic criteria and econometric methods. Survey of contemporary research.

ECO 4504 PUBLIC FINANCE (5)
PR: ECO 3101. An examination of the public sector and its contribution to economic welfare. Government expenditures and revenues are examined in relation to their impact on resource allocation, income distribution, stabilization, and economic growth.

ECO 4723 INTERNATIONAL COMMERCIAL POLICIES (5)

ECO 4905 INDEPENDENT STUDY (1-4)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated up to 8 credit hours. (S/U only.)

ECO 4914 INDEPENDENT RESEARCH (1-5)
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 10 hours.

ECO 4935 SELECTED TOPICS IN ECONOMICS (1-5)
PR: Senior standing and CI. Topics to be selected by the instructor or instructors on pertinent economic issues.

ECP 1001 CONTEMPORARY ECONOMIC PROBLEMS (5)
An introduction to economics in the context of contemporary social issues. The problem of economic scarcity, the role of ethical value in economics, economic processes and the economic analysis of social issues.

ECP 3203 LABOR ECONOMICS (4)
PR: 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 3423 ECONOMICS OF PUBLIC UTILITIES (4)

ECP 3433 ECONOMICS OF TRANSPORTATION (4)
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 (5)
PR: CI. Economic analysis of the phenomena of cities as well as urban social problems including poverty, discrimination, housing, transportation, pollution, crime and fiscal considerations.

ECP 3703 MANAGERIAL ECONOMICS (5)

ECP 4003 BUSINESS-GOVERNMENT RELATIONSHIPS (4)
Analysis of the three public policy approaches; competitive, regulatory, and ownership; evaluation of each 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 4232 COLLECTIVE BARGAINING AND PUBLIC POLICY (5)
PR: Labor Economics or CI. The administration of labor management agreements, etc. The impact of the government role in collective bargaining and labor relations will be examined in light of current labor laws and judicial interpretations.

ECS 4003 COMPARATIVE ECONOMIC SYSTEMS (4)
Analysis of the major types of economies in industrially developed countries: competitive capitalism (e.g., West Germany), regulated capitalism (e.g., France), "command" communism (e.g., the Soviet Union), and "worker-controlled" communism (e.g., Yugoslavia). Each is subject to economic evaluation with particular reference to their ability to meet changing consumer demands and technological innovations.

ECS 4013 THEORY OF ECONOMIC DEVELOPMENT (4)
PR: ECO 3203 or CI. Problems, policies, and dynamics of economic growth in emerging nations. The benefits and relevance of the theory of economic development is examined within the context of the social and political milieu of today's underdeveloped areas.

GEB 2111 BUSINESS AND ECONOMIC STATISTICS I (3)
PR: MAC 2242. College Algebra or equivalent. Description of sample data; calculation of probabilities; frequency functions of random variables; the binomial and normal distributions; sampling theory and estimation; tests of hypotheses; elements of Bayesian decision theory.

GEB 3121 BUSINESS AND ECONOMIC STATISTICS II (5)
PR: MAC 2242. College Algebra or equivalent and GEB 2111. Theory and use of statistical inference for decision and prediction. Point and interval estimation; criteria for choosing estimators and decision rules; hypotheses tests and prob values; analysis of variance; correlation and regression.

GRADUATE COURSES

ECO 5062 MICROECONOMICS (3)
An accelerated introduction to the price system as a mechanism for allocating scarce resources. Models are developed to explain the workings of both product and resource markets. This course is intended for students with no previous courses in economics and no credit towards degrees will be received in the graduate programs of the College of Business Administration.

ECO 5063 MACROECONOMICS (3)
PR: ECO 5062. An accelerated introduction to the understanding of the post-Keynesian system through the development of a theoretical supply and demand model and the application of the model to the fiscal and monetary possibilities inherent within it. This course is intended for students with no previous study in economics and no credit towards degrees will be received in the graduate program of the College of Business Administration.

ECO 5404 ECONOMIC PROGRAMMING AND CONTROL (5)

ECO 5424 ECONOMETRICS (5)
PR: ECO 3101, ECO 3203, GEB 3121, or CI. Theory and use of multiple regression to explain, forecast, and influence economic behavior. Applications to demand, cost, and production functions. Model specification. Ordinary least squares and instrumental variables methods. Analysis of errors. BMD and TSP computer programs. Design and conduct of individual econometric research projects.

ECO 6115 MICROECONOMICS (3)
PR: GEB 6716. An intensive study of microeconomics examining the behavior of consumers and producers. Topics covered include the general concept of scarcity and conceptual models in the areas of demand, production, cost, and the firm and market organization. Advanced reading in theoretical and applied microeconomics will be emphasized.

ECO 6206 AGGREGATE ECONOMICS (3)
PR: GEB 6717. An analysis of the macroeconomic interrelationships determining the level of income, employment, prices, and interest rates over time and the impact of government policy upon these variables.

ECO 6216 MONETARY THEORY (5)
PR: GEB 6716, GEB 6717. Advanced discussion of the impact of the financial sector upon real economic magnitudes. The course emphasizes theoretical and empirical contributions found in the current literature as an extension of earlier work done in the field on monetary theory.

ECO 6305 HISTORY OF ECONOMIC THOUGHT (5)
PR: GEB 6716. An intense analysis of the main currents of modern economic thought during the last one hundred years.

ECO 6414 MANAGERIAL STATISTICS (3)

ECO 6435 APPLIED FORECASTING (3)

ECO 6436 ADVANCED BUSINESS FLUCTUATION AND ECONOMIC FORECASTING (3)
PR: GEB 6717, GEB 6756. May be waived by instructor. 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 I (4)
PR: ECO 2013, ECO 2023. An 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 PUBLIC FINANCE II (4)
PR: ECO 6506. Topics in public economics including cost
functions for public goods, redistributive techniques, fiscal federalism, major issues in government expenditures, environmental policies, stabilization, growth and debt policy.

**ECO 6706 INTERNATIONAL ECONOMICS** (4)  
PR: ECO 3101 or equivalent. Fundamental economic relationships which create mutual gain through international trade are examined in detail. The basic determinants of trade are examined with special emphasis on factors which create gainful trade opportunities and the obstacles to the attainment of full exploitation of these opportunities by trading entities. International financial and monetary systems and their influence on micro and macro economic activity are studied. Topics covered include trade policy, economic integration and multinational corporations.

**ECP 6906 INDEPENDENT STUDY** (var.)  
Independent study in which student must have a contract with an instructor. Repeatable (S/U only.)

**ECO 6916 RESEARCH METHODOLOGY** (3)  

**ECO 6917 DIRECTED RESEARCH** (var.)  
PR: GR. Master's level. Repeatable. (S/U only.)

**ECO 6936 SELECTED TOPICS IN ECONOMICS** (1-6)  
PR: Graduate standing and CC. The course content will depend on student demand and instructor's interest.

**ECO 6971 THESIS: MASTER'S** (var.)  
Repeatable. (S/U only.)

**ECP 5403 INDUSTRIAL ORGANIZATION I-STRUCTURE** (4)  
PR: ECO 2013 and ECO 2023, or equivalent. Extent, level, trends, and dimensions of economic concentration; competitive conduct of large enterprises; factors underlying changes in industrial structure; technology, managerial economics and diseconomics, invention and innovation, and mergers.

**ECP 5404 INDUSTRIAL ORGANIZATION II-CONDUCT AND BEHAVIOR** (4)  
PR: Either ECO 3101 or GEB 6716 and ECP 5403. Non-price competition, predatory practices, government intervention; oligopolistic pricing; differences from competitive pricing; standards of constraints upon effects on income distribution, production and governmental policy.

**ECP 5614 URBAN ECONOMICS** (4)  
PR: ECO 2013, ECO 2023. The economics of urban areas integrated analysis of their growth and development as well as intraregional location patterns. Economic analysis at an advanced level of urban social problems.

**ECP 6006 APPLIED ECONOMIC ANALYSIS** (3)  
PR: GEB 6716, GEB 6717. Application of micro and macro economic analysis to problems of policy and procedure in business and government.

**ECP 6206 MANPOWER ECONOMICS SEMINAR** (5)  
PR: ECO 2013, ECO 2023. This course is designed to provide the student with a background in labor force statistics, labor institutions, and problems of employment and unemployment. This background then allows for further study of the causes and remedies for unemployment and under-employment.

**ECP 6230 LABOR RELATIONS LAW** (3)  
PR: CI. Analysis of the legal constraints on employer and employee relationships; their economic consequences and implications to the division of rights between employer and employee. Included are such areas as collective bargaining, civil rights, fair labor standards, and regulations to improve the work environment.

**ECP 6705 ADVANCED MANAGERIAL ECONOMICS** (3)  
PR: GEB 6716, GEB 6756. Advanced study of decision-making in households, firms and not-for-profit institutions. The study of consumer, production and cost, organizational goals, efficiency vs. effectiveness, environmental influences on decision-making. Both problems of analysis and measurement are emphasized.

**FINANCE**


**UNDERGRADUATE COURSES**

**FIN 2100 PERSONAL FINANCE** (5)  
Survey of the problems and techniques of family 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** (4)  
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** (4)  
PR: ECO 2013. Examines the structure and operations of our monetary system, commercial banking, central banking, money, and capital markets, and provides an introduction to monetary theory and policy.

**FIN 3403 PRINCIPLES OF FINANCE** (5)  
PR: ACC 3301 and ECO 2023. The study of the 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 under both certain and risky situations and considering the problems of time and the decision makers preferences. The financial decision process will include and recognize the international as well as domestic aspects of financial management.

**FIN 3604 INTERNATIONAL FINANCE** (5)  
PR: ECO 2013 or CI. Factors affecting international business: assessment of risk; international managerial finance; institutions and instruments of international business finance.

**FIN 4303 FINANCIAL INSTITUTIONS** (4)  
PR: FIN 3233. A study of financial institutions and their roles in the capital market in the savings allocation, investment, and financial decision making process.

**FIN 4414 ADVANCED CORPORATION FINANCE** (4)  
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** (3)  
PR: FIN 4414. Senior seminar for majors in finance. Quantitative and qualitative analysis of financial policies based on independent readings and empirical research.

**FIN 4504 PRINCIPLES OF INVESTMENTS** (4)  
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 PORTFOLIO MANAGEMENT** (3)  
PR: FIN 4504. Study of portfolio policies and strategies of individual and institutional investors. This course utilizes both quantitative and case study approaches to problem solving.

**FIN 4834 FEDERAL RESERVE SYSTEM AND MONETARY POLICY** (4)  
PR: ECO 3202 or FIN 3233. An analysis of the Federal Reserve System, with special emphasis on the formulation and administration of monetary policy and on monetary theory.

**FIN 4905 INDEPENDENT STUDY** (1-4)  
PR: CI. Specialized independent study determined by the stu-
dent's needs and interests. May be repeated up to eight credit hours. (S/U only.)

FIN 4915 INDEPENDENT RESEARCH (1-5)
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 10 hours.

FIN 4934 SELECTED TOPICS IN FINANCE (1-5)
PR: CI. Topics to be selected by instructor and department chairperson on pertinent Finance issues.

REE 3040 PRINCIPLES OF REAL ESTATE (5)
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 4204 REAL ESTATE FINANCE (4)
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. The course is not restricted to Finance majors.

REE 4310 REAL ESTATE INVESTMENT ANALYSIS (4)
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 of 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 (5)
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 concept, contracts, and institutions involved in insurance are examined in relationship to the socioeconomic environment.

RMI 4110 LIFE, HEALTH, & DISABILITY INSURANCE (5)
PR: GEB 3121, RMI 3010. 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 (4)
PR: RMI 3010. A discussion/lecture course dealing with recognition of personal and business casualty risks, coverages which may be used in dealing with these risks, and understanding the underwriting, marketing, and social problems associated with these coverages. Topics include workers' compensation, public liability, automobile liability, suretyship and crime insurances. Not limited to Finance majors.

RMI 4210 PROPERTY INSURANCE (4)
PR: RMI 3010. A discussion/lecture course dealing with recognition of personal and business property risks, coverages which may be used in dealing with these risks, and understanding 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 (3)
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 (5)
PR: Financial/Managerial Accounting. An examination of the tools and techniques of financial management in the administration of Health Care organizations. Cannot be taken for credit by students that have taken GEB 6725.

FIN 6446 FINANCIAL POLICY (3)
PR: Financial Management. 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 (4)
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 (5)
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 (3)
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 (3)
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.)
PR: GR. Master's level. Repeatable. (S/U only.)

FIN 6934 SELECTED TOPICS IN FINANCE (1-6)
PR: Graduate standing and CI. A variable credit course depending upon the scope and magnitude of the work required. Includes special lecture series.

FOUNDATIONS COURSES IN BUSINESS

GRADUATE COURSES

GEB 6705 FINANCIAL ACCOUNTING FOR MANAGERS (4)
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 related to income determination and asset valuation. Discussion of internal and external influences on accounting decisions.

GEB 6716 MICROECONOMIC ANALYSIS (4)
PR: Graduate standing. To present theories of economic behavior in our modern market system and an appreciation of the role of economic organizations in achieving private and societal goals. More specifically, consumer behavior and demand analysis for business decisions, theories of production and cost, and the significance of market prices are developed.
Special problems faced by business and not-for-profit organizations under different conditions and market structures are treated at length.

**GEB 6717 MACROECONOMIC ANALYSIS** (4)
**PR:** GEB 6716. A study of the influence of aggregate demand and supply in the determination of output, employment, prices, wages, and interest rates. Also a treatment of inflation, growth, fluctuations, and the influences of world markets and the macroeconomic policies of government.

**GEB 6725 FINANCIAL MANAGEMENT** (4)
**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 under 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 of financial management.

**GEB 6745 MARKETING** (4)
**PR:** GEB 6716. A study of the problems and decisions confronting marketing managers, including an analysis of the social, technical, economic, legal, and political environment; and the development of strategic marketing plans. Includes topics on consumer and buyer behavior, market segmentation, marketing information systems, product selection and development, pricing policies, distribution, advertising and sales force decisions. Lec.-dis.

**GEB 6756 STATISTICAL METHODS FOR MANAGEMENT** (4)
**PR:** Graduate standing; college algebra. A study of probability and statistics as applied to administrative problems of choice, estimation and prediction under conditions of uncertainty. Topics include: Basic probability concepts, measures of central tendency and dispersion, statistical decision theory, probability distributions, sampling and interval estimation, classical hypothesis testing, chi square tests, correlation, regression, and analysis of variance. Lec.-dis.

**GEB 6757 QUANTITATIVE METHODS FOR OPERATIONS MANAGEMENT** (4)
**PR:** Graduate standing, college algebra. The study and application of management science techniques to business operations. Techniques include differential calculus, linear algebra, linear programming, queuing theory and simulation as applied to problems in resource allocation, scheduling, inventory control, and facility location. Lec.-dis.

**GEB 6775 INFORMATION SYSTEMS FOR MANAGEMENT** (4)
**PR:** Statistical Methods for Management. A study of (1) the analysis and application of management information systems; (2) the impact of computers on decision making and organizational structure; and (3) the utilization of computer languages, statistical packages and other program libraries for problem solving and research analysis. Interface with the computer will be an integral part of the course.

**MAN 6065 THE MANAGEMENT PROCESS** (4)
**PR:** Graduate standing. An examination of the theory and practice of management, including the study of goals and means, the functions of management, and the administrative process in general. A review of the beginning of modern management and the analysis of basic concepts of management will also be included.

**MAN 6715 SOCIAL, LEGAL AND POLITICAL ENVIRONMENT OF BUSINESS** (3)
**PR:** Graduate standing. A study of the influence of social, cultural, legal and political environment on 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.

**GENERAL BUSINESS ADMINISTRATION**

**UNDERGRADUATE COURSES**

**BUL 2111 LAW AND THE INDIVIDUAL** (5)
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.

**BUL 3112 BUSINESS LAW I** (5)
The nature of legal institutions, essentials of binding contract, remedies granted in event of breach of contract, and rights acquired by assignment of contracts.

**BUL 3122 BUSINESS LAW II** (5)
**PR:** BUL 3112. Legal problems in marketing of goods, nature of property, sales of personal property, securing of credit granted, nature and use of negotiable instruments.

**BUL 3659 THE LAW OF BUSINESS ASSOCIATIONS** (5)
**PR:** BUL 3112. A study of the law of corporations, the law of partnerships, and the law of agency.

**COC 2201 COMPUTERS IN BUSINESS I** (3)
An introductory interdisciplinary examination of the impact of computers on all areas of business decision-making. Problems are reduced to schematic logic, programmed, and tested using the computer. Computer hardware, software, history, and terminology are introduced.

**GEB 3211 BUSINESS COMMUNICATIONS** (4)
Analysis and application of the principles of organizational behavior in letters, memorandums, and reports. Identification and use of inference and assumption, roleplaying, and conventions which affect interpersonal and organizational communications.

**GEB 3612 COMPUTERS IN BUSINESS II** (5)
**PR:** GEB 3211. An advanced interdisciplinary examination of the impact of computer systems in the business enterprise. Concepts of data collection, information theory, business systems analysis, free maintenance, and update systems are developed.

**GEB 4901 INDEPENDENT STUDY** (1-4)
**PR:** Cl. Specialized independent study determined by the student's needs and interests. May be repeated up to eight credit hours. (S/U only.)

**GEB 4911 INDEPENDENT RESEARCH** (1-5)
**PR:** Cl. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 10 hours.

**GEB 4935 SELECTED TOPICS IN BUSINESS ADMINISTRATION** (1-6)
The content and organization of this course will vary according to the current interests of the faculty and needs of students.

**MAN 4720 SENIOR SEMINAR IN ADMINISTRATION** (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.

**GRADUATE COURSES**

**GEB 6895 BUSINESS POLICY** (4)
**PR:** All MBA Foundation Courses. Advanced study of business decision-making processes under conditions of risk and uncertainty, including integrating analysis and policy formulation at the general management level. Lectures, readings, case analysis and experiential learning are included. This course must be taken toward the end of the program, preferably in the last quarter.

**GEB 6905 INDEPENDENT STUDY** (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)
GENERAL BUSINESS—MANAGEMENT 201

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 (2-4)
Small business management consulting in an on-going firm. Field application of various aspects of business administration in analyzing strengths and weaknesses, development of recommendations for improvement, and initiation of steps to assist business principal in evaluation and implementation. Emphasis on developing management consulting skills and recognizing implications of small business owner-manager's capabilities and attitudes for success in implementing recommendations.

MAN 5925 CBA WORKSHOP (1-6)
Professional applications workshop in various areas of finance, marketing, economics, accounting, management. May be repeated when subjects differ.

MAN 6721 INTEGRATIVE SEMINAR (3)
PR: CI. The integration of analysis and policy for the decision-making process in administration. This course should be taken at the end of a student's program.

QM 6656 QUANTITATIVE METHODS II (3)
PR: College Algebra, GEB 3121, or equivalents. Probability and sampling, Bayesian decision theory, and the design of experiments, as applied to administrative problems.

MANAGEMENT


UNDERGRADUATE COURSES

MAN 3010 PRINCIPLES OF MANAGEMENT (5)
Study of the fundamentals of management. It treats topics in organizational theory, organizational behavior and interpersonal communications which are relevant to effective management performance.

MAN 3150 ORGANIZATIONAL BEHAVIOR ANALYSIS (4)
The course covers the behavior and research literature relevant to organizational functioning. Topics include hierarchy and authority, the informal organization, structural variation in organizations, leadership and supervision, motivation, and communication and control processes. The course requires participation in elementary exercises in the management laboratory. Required course for Management majors.

MAN 3301 PERSONNEL MANAGEMENT (3)
A study of the major functions in personnel including manpower planning, recruiting, selection, performance evaluation, wage and salary administration, training and development. Focus is on the integration of government and organizational manpower programs.

MAN 3401 INDUSTRIAL RELATIONS (4)
A conceptualization of the administrative problems arising from unionization. Emphasis on the relationship between management and employee representatives in private and public employment, and on the historical and legal framework of industrial relations. Required course for Management majors.

MAN 3810 INTRODUCTION TO MANAGEMENT SCIENCE (4)
A survey of management science techniques and their application to problem solving and decision making. Required course for Management majors.

MAN 4120L MANAGERIAL BEHAVIORAL LABORATORY (3)
PR: Organizational Analysis or CI. The development of first hand understanding of the personal, interpersonal, and intergroup factors involved in social interaction. A general knowledge of the literature in the field of organizational behavior and social psychology is assumed. Emphasis is on experimental exercises in a laboratory setting.

MAN 4125 LABORATORY IN THE RESOLUTION OF GROUP CONFLICT (3)
An application of conflict resolution theory to a variety of social and organizational settings, including ethnic and intercultural conflict. The principles acquired are then applied to the resolution of conflict in industry. This course assumes a general understanding of interpersonal and group behavior. Three hours laboratory under instructor supervision.

MAN 4201 ADVANCED ORGANIZATIONAL BEHAVIOR ANALYSIS (3)
PR: Organizational Analysis or CI. Methods of analyzing complex organizational functioning and performance are studied using selected behavioral models. The course assumes a familiarity with the literature in the field of organizational behavior and its general implications for management.

MAN 4210 CHANGING ORGANIZATIONS (3)
PR: Organizational Analysis or CI. Theory and research related to social-organizational change and resistance to change is considered along with its implications for the design of conditions and their differential effects on organizational climate. The unifying concept is the role of the Change Agent.

MAN 4410 LABOR RELATIONS LAW (3)
A survey of the various legal constraints applicable to labor-management relations. Includes practice in use of library resources for discovering statutes, cases or administrative rulings. This course assumes a general understanding of the organizations of management and union, the role of each in collective bargaining, and traditional methods for resolving industrial conflict. One and one-half hours lecture, one and one-half hours case analysis and research.

MAN 4430 SEMINAR IN NEGOTIATIONS AND ADMINISTRATION OF LABOR AGREEMENTS (3)
An application of industrial relations theory to cases provided by the instructor. Includes exercises in contract negotiation, administration, grievance settlement, and arbitration. This course assumes a general understanding of the organizations of management and union, the role of each in collective bargaining, and traditional methods of resolving industrial conflict. Three hours laboratory under supervision of instructor.

MAN 4504 OPERATIONS MANAGEMENT: A SYSTEMS APPROACH (3)
PR: Management Science or CI. A systems approach to the study of effective operations management tools and concepts. Computerized approaches to problem solving are introduced and an emphasis is placed on interpretation of output for decision making purposes. A knowledge of the basic tools and techniques of management science is required.

MAN 4802 ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT (4)
PR: ACC 2001, ACC 2021, MAR 3023; or CI. Study of the factors involved in starting and managing a small to medium-size business. Emphasis on conduct of pre-business feasibility study, selection of business field and organization structure, and successful management of marketing, personnel, production, accounting, finance, and related areas.

MAN 4804 SMALL BUSINESS MANAGEMENT COUNSELING (4)
PR: MAN 4802 or CI. Field application of various aspects of business administration in analyzing strengths and weaknesses of an on-going small business. Development of recommendations for improvement and initiation of steps to assist business principal in evaluation and implementation. Emphasis on developing management consulting skills and recognizing implications of small business owner-manager's capabilities and attitudes for success in implementing recommendations.

MAN 4905 INDEPENDENT STUDY (1-4)
PR: CI. Specialized independent study determined by the students' needs and interests. May be repeated up to 8 credit hours. (S/U only.)
MAN 4930 SELECTED TOPICS IN MANAGEMENT (1-5)
PR: Cl. Topics to be selected by instructor and department chairperson for pertinent Management issues.

MAN 4931 INDEPENDENT RESEARCH (1-5)
PR: Cl. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 10 hours.

MAN 4933 INTEGRATIVE SEMINAR IN MANAGEMENT (3)
PR: One of the following groups: MAN 3150, MAN 3401, MAN 3810 and two additional upper level Management courses and senior standing or Cl. A capstone course intended to integrate the concepts, generalizations, principles, and skills learned previously in more specialized courses in Management and Administration. Emphasis, decision-making, action planning, and implementation.

QMB 4600 MANAGEMENT SCIENCE APPLICATIONS (3)
PR: MAN 3810 or Cl. A study of the application of management science models to typical organizational problems. Emphasis is on (1) problem formulation (2) data collection and (3) interpretation and implementation of solutions. A laboratory using decision science problems of organizations is a major part of this course. A knowledge of the basic tools and techniques of management science is required.

QMB 4654 MANAGEMENT SCIENCE MODELS (3)
PR: MAN 3810 or Cl. A study of the theoretical basis of various management science models. These include linear, integer, dynamic, quadratic, and geometric programming; plus, gradient methods and branch and bound. A knowledge of the basic tools and techniques of management science is required.

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.

MAN 5714 URBAN MANAGEMENT (3)
The applicability of business management theories and practices to problem solving in the public sector. A formal theory of urbanization is used to compare and contrast private and public sector decision environments.

MAN 6055 MANPOWER MANAGEMENT (3)
A study of the major factors involved in the development of an effective manpower management strategy including manpower planning, selection, organization and job design, performance of evaluation, career advancement, employer benefits, rights and compensation. Emphasis is on an open-system view recognizing the need to operate within the complex external legal and societal environment while reducing internal conflict.

MAN 6061 PLANNING, CONTROL AND HUMANISM IN MANAGEMENT (4)
A study of an increasing dilemma which is central to the role of all those in supervisory or managerial roles—the conflict between the need to exercise increasingly efficient controls through behavior, planning and budgets and the need for more humanistic management. The dilemma will be considered in a framework of stages of organizational development showing how stages occur in a particular order, how control is managed at each stage and how the conflict between control and humanism decreases with progression. Methods for accomplishing more rapid organizational progression through stages will be presented.

MAN 6107 MANAGERIAL BEHAVIOR (3)
A laboratorystudy to the understanding of patterns of interpersonal and inter-group behavior which are significant for the managerial role. Topics include perception expecta-

MAN 6135 MANAGEMENT OF COMMUNICATIONS (3)
The analysis, organization and presentation of verbal and written communications and reports. Students will select and define a problem area, construct an annotated bibliography in that area, develop a research design for collection and analysis of appropriate data, and write a report on the proposed program in a form acceptable to the organizational and academic community. This work should represent a first step in selecting and developing a thesis (MAN 6971).

MAN 6157 MANAGEMENT OF PROFESSIONALS (4)
PR: The Management Process or Cl. Organizational behavior of professional employees (e.g., engineers, nurses, accountants, scientists, teachers, etc.) 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 6206 ORGANIZATIONAL THEORY AND ITS IMPLICATIONS FOR THE MANAGER (1-3)
The course covers the major theories of organization and a comparative analysis of the differential options these theories provide for managerial strategy. It deals with the design of managerial environments for accomplishing different goals, the research literature in this field and the implication of this research for prediction and design of environmental change.

MAN 6219 THE MANAGEMENT OF ORGANIZATIONAL CHANGE (1-3)
An experiential learning course utilizing real data from profit and not-for-profit organizations. The course is designed to provide students with direct experience in the systematic planning, implementation and control of change. By actually collecting and analyzing real data each student develops an operationally viable model for the changes inevitable in any ongoing 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.

MAN 6409 MANAGEMENT OF CONFLICT (3)
A survey of the literature on social conflict with emphasis on the causes of conflict within and between various types of organizations. The course will examine and evaluate traditional, as well as innovative methods for conflict resolution. Particular attention is given to conflict and its resolution as perceived through the collective bargaining process.

MAN 6569 THE MANAGEMENT OF OPERATIONS (3)
PR: GEB 6757. A study of the development of systematic planning and control systems at the operational level in organizations. Topics include, but are not limited to: quality control, materials management, cost control, work measurement and work flow, inventory management, production control, and project management and control.

MAN 6601 INTERNATIONAL MANAGEMENT (3)
PR: MAN 6055. The Management Process or Cl. The course emphasizes the characteristics of the international and multinational company, environmental constraints, personnel and labor relations factors, selection and training of managers for international careers, strategic planning and policies for corporate growth, and organization structure for effective multinational operation.

MAN 6726 THE PRACTICE OF MANAGEMENT (1-4)
The course offers the student the opportunity to focus on an overall organization and to gain an understanding of the interaction between various components which the manager must integrate—the economic, financial, social, political, and technological. The aim is to provide students with experience in integrative skills—organizational design, planning and control, communication and leadership. To be taken during the last two quarters of study: preferably the final quarter.
MAN 6851 SIMULATION OF ADMINISTRATIVE SYSTEMS (3)
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 testing and implementation problems. A computer language, such as GPSS or SIM-SCRIPT, is used for model construction.

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.)
Repeatable. (S/U only.)

MAN 6930 SELECTED TOPICS (1-6)
This course is designed to be taken either: in a tutorial format under the general guidance of a faculty member on some facet of management not regularly offered in a regular course; or, in conjunction with any regularly scheduled graduate course where a more in-depth study of the subject is mutually deemed to be beneficial to the student's program. Topics would include, but not be limited to: management of health care, managing governmental systems, managing educational systems, entrepreneurial management, managing not-for-profit organizations, managing motivation development. May be retaken for credit providing topic selected is different.

MAN 6971 THESIS: MASTER'S (var.)
Repeatable. (S/U only.)

QMB 6651 QUANTITATIVE ANALYSIS OF MANAGEMENT DECISIONS (1-3)
PR: GEB 3121, MAR 3503 or Cl. A study of the development and application of Operations Research tools for administrative problem solving. Using a decision science lab and case approach, the course emphasizes: systematic data collection for problem analysis; identification of appropriate tools for various types of problems; implementation difficulties; and, analysis and interpretation of results.

QMB 6691 COMPUTERS AND MANAGEMENT: THE EXECUTIVE VIEWPOINT (1-3)
A study of the use and impact of computers in modern organizations. The course emphasizes: current practices and future trends; the extended use of computers for broader planning and decision making systems; the development of Data Based Management Systems and MIS; and, the behavioral problems associated with computerization. Students desiring "hands-on" computer experience may register for an additional special topics course to be taken concurrently with this course.

MARKETING

UNDERGRADUATE COURSES
MAR 3023 BASIC MARKETING (5)
PR: ACC 2001, ECO 2023; CR: ECO 2013 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 3153 RETAILING MANAGEMENT (3)
PR: MAR 3023. A comprehensive analysis of the retailing structure, institutions and environment. Includes pertinent management theories and practices in organizing, planning and controlling retail operations.

MAR 3303 PRINCIPLES OF ADVERTISING AND SALES PROMOTION (3)
PR: MAR 3023. A comprehensive coverage of advertising, stressing purposes, techniques, organization, research, and media selection including relationships with other marketing mix components. Consideration given to economic and social aspects of advertising and total promotional strategies.

MAR 3403 PRINCIPLES OF SALESMANSHIP AND SALES MANAGEMENT (3)
PR: MAR 3023. Personal selling and sales management as basic elements in the marketing strategy of firms. Includes the scientific management of resources and the dynamics of interpersonal and small group behavior and decision processes.

MAR 3503 CONSUMER BEHAVIOR (3)
PR: MAR 3023; CR: MAR 3613 or Cl. An investigation and application of the behavioral factors affecting consumer demand. Consideration given to industrial, governmental, and ultimate consumers.

MAR 3603 MARKETING MODELS AND MARKETING SYSTEMS (3)
PR: GEB 3201, GEB 3212, MAR 4203. An investigation of the utility of formal, logical, mathematical, and other quantitative methods and models as these might be applied to marketing management.

MAR 3613 MARKETING RESEARCH (4)
PR: GEB 3212, 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 4203 MARKETING INSTITUTIONS AND CHANNELS (4)
PR: MAR 3023. A detailed study of marketing channels as a functional area of marketing management responsibility and as a part of marketing strategy. Attention is given to wholesaling and retailing and their structural, dynamic interrelationships including distribution logistics.

MAR 4213 MARKETING LOGISTICS (3)
PR: GEB 3201, GEB 3212, MAR 4203 or Cl. Analysis of the logistics of marketing systems for firms engaged in the marketing of goods and services. Component parts of each system are studied and analytical tools are presented for selecting those alternatives which will attain the goals of the firm.

MAR 4243 INTERNATIONAL MARKETING (3)
PR: MAR 3023. A study of the procedures and problems associated with establishing marketing operations in foreign countries. The institutions, principles and methods involved in the solution of these business problems will be treated as well as effects of national differences on business practices.

MAR 4343 MANAGEMENT OF ADVERTISING AND SALES PROMOTION (3)
PR: MAR 3303, MAR 3503 or Cl. Discussion and analysis of cases bearing on managerial aspects of advertising and sales promotion including research, budget determination, strategy, tactics, and evaluation of results.

MAR 4353 PUBLIC RELATIONS AND THE MARKETING PROCESS (3)
PR: MAR 3303, MAR 3503 or Cl. Principles, practices, and problems in public relations as an integrated part of and supplement to marketing management responsibilities and decisions.

MAR 4453 INDUSTRIAL MARKETING (3)
PR: MAR 3403, MAR 4203 or Cl. Problems of marketing industrial goods. Characteristics of markets, channels, industrial sales, promotional practices, research and marketing policies.

MAR 4504 SEMINAR IN APPLIED STUDIES IN MARKETING (3)
PR: MAR 3503 and three Marketing courses at the 4000 level and Cl. In-depth discussion, formulation, application, and evaluation of advanced research techniques and practices as currently applied to facilitate marketing decisions.

MAR 4713 MARKETING MANAGEMENT PROBLEMS (4)
PR: MAR 3503, MAR 3613, and three other Marketing courses or Cl. The integration of marketing knowledge applied to decision roles in managing the total marketing effort of firms, and coordination with other major functional areas on specific problems.
MAR 4903 INDEPENDENT RESEARCH (1-5)
PR: C1. 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 10 hours.

MAR 4905 INDEPENDENT STUDY (1-4)
PR: C1. Specialized independent study determined by the students' needs and interests. May be repeated up to 8 credit hours. (S/U only.)

MAR 4923 SELECTED TOPICS IN MARKETING (1-5)
PR: C1. Topics to be selected by instructor and department chairperson.

GRADUATE COURSES

MAR 6216 MARKETING CHANNELS AND PHYSICAL DISTRIBUTION MANAGEMENT (3)
PR: MAR 6506, MAR 6708 or CI. An analysis of the development of integrated distribution systems. Channel alternatives, including the institutions involved and physical flow, as a part of marketing strategy.

MAR 6257 INTERNATIONAL MARKETING MANAGEMENT (3)
PR: GEB 6745 or equivalent. Emphasis is placed on introducing a conceptual framework that enables the student to identify and better understand the dimensions which are operative within a global environment; i.e., cultural factors, competitive factors, economic factors, legal/political factors, etc. In addition, the course attempts to explore the relationship between these dimensions and specific elements of a marketing program. While the course does not dwell on exporting per se, reasonable coverage is given to the factors affecting the development of exporting activities. In addition to a series of lectures, this course will incorporate the use of case materials and computer simulation gaming.

MAR 6346 SEMINAR IN PROMOTIONAL POLICY AND STRATEGY (3)
PR: MAR 6506 or CI. Analysis of theories and practices of advertising, selling and sales management, and sales promotion as they relate to the total marketing program of firms. Emphasis upon the coordination of promotional policy and strategy.

MAR 6455 INDUSTRIAL MARKETING MANAGEMENT (3)
PR: GEB 6745 or equivalent. A study of the process of marketing goods and services to businesses and other organizations. Techniques of planning, organizing, evaluating and controlling industrial marketing activities. Emphasis is upon developing analytic processes and strategic approaches to problem-solving and decision-making.

MAR 6506 BEHAVIORAL CONCEPTS IN MARKETING DECISION MAKING (3)
PR: MAR 6706 or CI. The application and techniques of the behavioral sciences to the understanding and improvement of the marketing process and decision making concerning consumer behavior.

MAR 6616 MARKETING RESEARCH AND INFORMATION SYSTEMS (3)
PR: MAR 6708, or CI. A study of the marketing research process, methods, and techniques and the need and applicability of information systems.

MAR 6706 ADVANCED MARKETING PROBLEMS (3)
PR: GEB 6705, GEB 6717, GEB 6745 or equivalent. A study of the marketing problems of the firm approached from a management point of view. Emphasis is placed upon the development of the students' ability to analyze marketing situations, identify problems, determine solutions, implement corrective action, and plan marketing strategy.

MAR 6708 ANALYSIS FOR MARKETING MANAGEMENT (3)
PR: GEB 6745, GEB 6756 or equivalents. The use of quantitative techniques and analytical concepts in marketing decision making; marketing research, model building and simulation; selected statistical decision techniques and computer applications.

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 (1-6)
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. Repeatable to a maximum of six hours.

MAR 6939 SEMINAR IN MARKETING (3)
PR: CI. The study of contemporary marketing thought, advanced marketing concepts, and recent developments in the field of marketing. Readings, discussions, and individual investigation.

COLLEGE OF EDUCATION

ADULT AND VOCATIONAL EDUCATION

ART AND MUSIC EDUCATION
Chairperson: P. V. Czyzewski; Professors: V. A. Bridges, R. L. Lovelace; Associate Professors: H. C. Bryant, J. E. Croft, P. V. Czyzewski, B. W. Kazanis, A. Unruh; Assistant Professors: B. LeBaron, C. Yoder.

CHILDHOOD/LANGUAGE ARTS EDUCATION

COUNSELOR EDUCATION
Chairperson: V. J. Drapela; Professors: W. K. Bott, V. J. Drapela, D. G. Ferguson; Associate Professors: E. E. Panther, C. M. Story.

EDUCATIONAL LEADERSHIP EDUCATION

EDUCATIONAL MEASUREMENT AND RESEARCH

EXCEPTIONAL CHILD EDUCATION

LIBRARY, MEDIA, AND INFORMATION STUDIES
Chairperson: J. A. McCrossan; Professor: A. G. Smith; Associate Professor: J. K. Gates, S. P. Harter, J. M. Kneg, J. A. McCrossan, F. C. Pfister, T. C. Wilson; Assistant Professor: G. R. Barkholz, L. G. Chrisman, M. S. Lary.
MATHEMATICS EDUCATION

PROFESSIONAL PHYSICAL EDUCATION
Chairperson: L. E. Bowers; Professor: L. E. Bowers, H. A. Hoffman, S. E. Kleistus; Associate Professor: B. L. Beasley, C. D. Smith, H. Weinberg; Assistant Professor: S. J. Bratt, W. D. Hall, J. F. Young; Visiting Instructor: W. T. Price.

PSYCHOLOGICAL AND SOCIAL FOUNDATIONS

READING EDUCATION
Chairperson: A. J. Lowe; Professor: M. L. Austin, A. J. Lowe, D. D. Neville; Associate Professors: F. W. Freshour, H. P. Pfoest, E. F. Searls, G. M. Towery; Assistant Professor: B. K. Clark; Instructor: J. P. Klesis; Visiting Assistant Professor: S. P. Homian.

SCIENCE AND HEALTH EDUCATION
Chairperson: H. E. Steiner, Jr.; Professor: J. T. Bullock, L. E. Monley; Associate Professor: F. D. Breit, R. G. Bruce, F. L. Prince, H. E. Steiner.

SOCIAL SCIENCE/LETTERS
Chairperson: R. E. Johnson; Professor: R. E. Johnson, M. Kleg, P. J. Newcombe, W. W. West; Associate Professor: H. G. Karl, J. B. Kase, J. W. Levy, D. J. Puglisi, V. W. Whitney; Assistant Professor: M. S. Holland.

ADMINISTRATION/SUPERVISION

GRADUATE COURSES
EDA 6061 PRINCIPLES OF EDUCATIONAL ADMINISTRATION
(5)
Educational administration as a profession. Consideration is given to organization, control, and support of the educational system.

EDA 6106 ADMINISTRATIVE 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 upon the study of Florida State Statutes as they pertain to the question of Florida public schools.

EDA 6242 SCHOOL FINANCE
(4)
PR: EDA 6061 or CI. Support of public education by local, state, federal sources, with emphasis on Florida; foundation program models; introduction to educational budgeting.

EDA 6243 SCHOOL FISCAL RESOURCE ALLOCATION
(4)
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. Study of problems in the planning, construction, and utilization of educational facilities. Visitation and/or evaluation of selected school plants.

EDA 6910 DIRECTED RESEARCH
(PR: GR. Master’s level. Repeatable. (S/U only.)

EDA 6931 CASE STUDIES IN SCHOOL ADMINISTRATION
(4)
PR: Consent of the program and/or EDA 6061. Case studies presented are designed to help prospective administrators think through various administrative problems, identify feasible solutions, and critically examine the decisions that are made. The skill of decision making is an integral focus of the course.

EDA 6945 ADMINISTRATION PRACTICUM
(4-10)
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 7232 ADMINISTRATION OF SCHOOL PERSONNEL POLICIES AND PRACTICES
(5)
PR: Certification in Administration/Supervision and/or CI. The administration of personnel policies and practices in school systems as they relate to the professional staff, supporting staff, and students.

EDA 7233 LEGAL DIMENSIONS OF SCHOOL ADMINISTRATION
(4)
PR: CI or for advanced graduate students who have completed EDA 6232, School Law, or equivalent recent course at another university. The course provides a historical perspective to law and education and includes in-depth reviews of case law to enable the student to trace the evolution of the courts as educational policy makers.

EDA 7247 ADVANCED SCHOOL FINANCE
(4)
PR: EDA 6422 or CI. Advanced treatment of principles and practices in obtaining and allocating financial resources for school programs. The use of systems concepts in development, implementation, and evaluation of district and school resource allocation systems. Treatment of alternatives for education tax revenue and state school finance support models. Emphasis is on intra-district allocation and includes some field work.

EDA 6050 PRINCIPLES OF EDUCATIONAL SUPERVISION
(5)
PR: Courses in general curriculum. Instructional leadership with emphasis on organization for curriculum improvement and inservice growth for professional school personnel.

EDA 6239 PROBLEMS IN SUPERVISION: SECONDARY
(4)
PR: Consent of the program and/or EDS 6250. The analysis of instructional problems in schools. Emphasis of the course is directed to supervisory tasks, case studies, and the application of problem solving techniques and strategies.

EDA 7130 TEACHER EVALUATION: PROCESS AND INSTRUMENTS
(5)
PR: Certification in Educational Administration/Supervision and/or CI. The course is designed to study the development of theory and the application of theory to the practice of teacher evaluation: legal dimensions, planning for instruction, teacher effects on student learning, measurement issues, teacher verbal and non-verbal behavior and noninstructional activities.

ADULT EDUCATION

UNDERGRADUATE COURSES
ADE 4360 METHODS OF TEACHING: ADULT EDUCATION
(4)
Methods, techniques, and materials for instruction.

ADE 4361 SPECIAL TEACHING METHODS: ADULT EDUCATION
(4)
Methods, techniques, and materials for skill development.
ADE 4945 SUPERVISED FIELD EXPERIENCE: ADULT EDUCATION (1-8)
PR: CI. Planned supervised functions in the area of specialization and coordinated with selected schools, government, offices, social agencies, businesses and industries on site.

GRADUATE COURSES

ADE 5160 PROGRAM MANAGEMENT: ADULT EDUCATION (4)
Organization, coordination, and budgeting of adult, cooperative, and special programs.

ADE 5161 CURRICULUM CONSTRUCTION: ADULT EDUCATION (4)
Curriculum scope, the process of planning and organizing instructional programs with emphasis on task analysis and process evaluation.

ADE 5385 THE ADULT LEARNER (4)
PR: EDF 3214 or equivalent. Physiological and psychological changes in individuals throughout the adult life span and the implications which these changes have in learning capabilities of adults. A review of recent research on adult learning is also emphasized.

ADE 6080 ADULT EDUCATION IN THE UNITED STATES (4)
PR: ADE 5385, The Adult Learner or equivalent. A study of the adult education movement in the United States from its beginnings to the present life long learning enterprise it has become. Economic and cultural factors of the past are examined with a view toward implications for the future. The course is available to major and non-major master's, and advanced graduate students.

ADE 6197 ADULT BASIC EDUCATION (4)
An overview of adult basic education with emphasis on current issues and problems of curriculum and instruction in program development for culturally different adults.

ADE 6380 ADMINISTRATION OF LOCAL PROGRAMS: ADULT EDUCATION (4)
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.

ADE 6387 SUPERVISION OF LOCAL PROGRAMS: ADULT EDUCATION (4)
PR: CI. 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.

ADE 6946 PRACTICUM: ADULT EDUCATION (4-8)
A problem-centered field study in the local community, school, government, office, social agency, business or industry.

ADE 7185 COMMUNITY EDUCATION AND PROGRAM DEVELOPMENT (4)
PR: EVT 5190, School-Community Development or equivalent. This course examines the sociological and economical forces affecting community education programs and activities. It also considers various aspects of the structure of the community and its relationship to the development of procedures useful in community education programming.

ADE 7388 ADULT DEVELOPMENT AND LEARNING (4)
PR: ADE 5385, The Adult Learner, or equivalent. This is an advanced graduate course which provides an in-depth study of the distinctive characteristics of adult life and adult learning. The interrelationships of physiological, psychological and sociological factors in individual development throughout the adult life span and their implications for adult learning are considered. Recent literature concerning transitional phases with research implications are also emphasized.

ART EDUCATION

UNDERGRADUATE COURSES

ARE 3044 EXPERIENTIAL BASIS IN ART EDUCATION (4)
PR: Admission to College of Education. Designed to help the individual student discover and develop meanings and values in art and education with emphasis on communicative skills, both verbal and visual. Focus will be on the individual and potential alternatives in the teaching of art.

ARE 3354 ART TEACHING STRATEGY AND MEDIA WORKSHOP I (5)
PR: Admission to College of Education and ARE 3044. A combination of theory, philosophy and practice in both public and private learning centers to provide the student with a variety of teaching concepts and media exploration in art education and to further enable the student to understand stages of young people, three to eighteen.

ARE 4112 ART MEDIA FOR CHILDREN (5)
An in-depth study of arts and craft media for children. Emphasis will be placed on innovative use of new materials.

ARE 4260 SEMINAR IN ART EDUCATION ADMINISTRATION (2)
PR: Admission to College of Education and ARE 3044. The concepts and areas of skill essential to successful practice in art education administration. To include understanding of how art programs are funded, art facility planning, art curriculum development, art exhibition techniques, public relations promotion and supply and equipment requirements.

ARE 4411 EXPERIMENTAL FILMMAKING FOR CHILDREN (5)
A study of basic experimental film techniques and laboratory experiences with children in the public schools, community centers, and non-school arts programs.

ARE 4440 ART TEACHING STRATEGIES AND MEDIA WORKSHOP II (5)
PR: Admission to College of Education and ARE 3044. Media and the learning process as a means of self-expression will be explored. Media experience in sound exploration, visual exploration through photographic arts, cinematography and video-television systems. Exploration of local business and industrial technology for developing experimental media forms. Designing of teaching strategies for creative media experiences as well as skills in media criticism to include application at elementary and secondary levels.

ARE 4443 CRAFTS WORKSHOP IN ART EDUCATION (5)
PR: Admission to College of Education and ARE 3044. The study of processes and media involved in the expression of individual ideas through crafts. Emphasis placed on crafts in a contemporary society with skills in metals, weaving, fibers, and ceramics and their application in a public school curriculum.

ARE 4642 URBAN ENVIRONMENT ARTS WORKSHOP (5)
PR: Admission to College of Education and ARE 3044. Identification, exploration, and experimentation with unique urban spaces and populations as potential new environments for teaching and learning in arts.

ARE 4905 INDEPENDENT STUDY: ART EDUCATION (1-5)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

ARE 4908 DIRECTED STUDY: ART EDUCATION (1-4)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

ARE 4936 SENIOR SEMINAR IN ART EDUCATION (3)

ARE 4940 INTERNSHIP: ART EDUCATION (1-12)
One full quarter 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 quarters, students will be registered for credit which accumulates from 9 to 12 quarter hours. (S/U only.)

GRADUATE COURSES

ARE 6262  ADMINISTRATION AND SUPERVISION OF ART EDUCATION (4)
Principles of administration and supervision of art programs in the school.

ARE 6706  RESEARCH SEMINAR IN ART PROGRAM (4)
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  HISTORICAL AND PHILOSOPHICAL FOUNDATION OF ART EDUCATION (4)
Past and contemporary philosophies and practices in art education.

ARE 6944  FIELD WORK IN ART EDUCATION (2-6)
For students with degree-seeking status. Supervised participation in activities related to art education in community centers, non-school arts program, planned workshop and research.

BUSINESS AND OFFICE EDUCATION

UNDERGRADUATE COURSES

BTE 3363  BUSINESS AND OFFICE MACHINES (5)
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 (5)
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 4360  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 (5)
PR: Speech Improvement and Phonetics, satisfactory competencies in Office Technology Concentration, or CI. Methods, techniques, and materials for skill development.

BTE 4369  OFFICE OCCUPATIONS PROCEDURES (5)
PR: Successful completion of all basic competency exams required by the program area, or consent of program coordinator. This course is designed to integrate learnings from preceding business and office education courses.

BTE 4905  INDEPENDENT STUDY: BUSINESS EDUCATION (1-5)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

BTE 4909  DIRECTED STUDY: BUSINESS EDUCATION (1-4)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

BTE 4936  SENIOR SEMINAR IN BUSINESS AND OFFICE EDUCATION (3)

BTE 4940  INTERNSHIP: BUSINESS EDUCATION (1-12)
One full quarter 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 quarters, students will be registered for credit which accumulates from 9 to 12 quarter hours. (S/U only.)

BTE 4948  FIELD-BASED SEMINAR IN BUSINESS EDUCATION (3)
CR: BTE 4360 and BTE 4364. A seminar and supervised field experience providing orientation to the broad field of business education in public middle or senior high schools. It is specifically designed to be preparatory for the internship which occurs in the following term in the same setting. The ten-hour weekly field experience is programmed to provide full exposure to the responsibilities of the cooperating classroom teacher. (S/U only.)

GRADUATE COURSES

BTE 5171  CURRICULUM CONSTRUCTION: BUSINESS EDUCATION (4)
Curriculum scope, the process of planning and organizing instructional programs with emphasis on task analysis and process evaluation.

BTE 5245  PROGRAM MANAGEMENT: BUSINESS EDUCATION (4)
Organization, coordination, and budgeting of adult, cooperative, and special programs.

BTE 6385  IMPROVEMENT OF METHODS OF TYPEWRITING INSTRUCTION (4)
PR: EDF 6431 and EDF 6481 or CI. This course contains a research-based study of the philosophy and psychology of the teaching of typewriting. It also examines the status of typewriting in the public schools, postsecondary schools, and business organizational settings. Techniques for developing specialized instructional materials, in accordance with psychomotor principles of learning, are included. Action research projects are pursued. The course is available for majors and qualified non-majors. It may also be available for credit and non-credit workshops and seminars.

BTE 6386  THEORIES OF BASIC BUSINESS & ACCOUNTING INSTRUCTION (4)
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 (4)
PR: Special Teaching Methods, EDF 6481 or CI. This course contains a research-based study of methodology and prognosis in the teaching of shorthand. It also compares various shorthand systems. Techniques for applying psychological principles of learning to shorthand instruction are included. Action research projects are pursued. The course is available for majors and non-majors and for credit and non-credit workshops and seminars.

BTE 6944  PRACTICUM: BUSINESS EDUCATION (4-8)
A problem-centered field study in the local community, school, government, office, social agency, business or industry.

COMMUNICATION—SPEECH COMMUNICATION EDUCATION

GRADUATE COURSES

EDG 7365  RESEARCH IN COMMUNICATION EDUCATION (4)
CURRICULUM

UNDERGRADUATE COURSES

EDG 1300 INTRODUCTION TO TEACHING (4)
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 4200 CURRICULUM AND INSTRUCTION (5)
Pr: EDF 3214 and EDF 3604, and admission to a teacher education program. Structure and purposes of curriculum organization with special emphasis on the quality of curriculum. Students enrolled in EDG 4200 are required to spend six hours a week in public schools as pre-interns in addition to regular class hours.

EDG 4901 DIRECTED READINGS (1-4)
May be repeated for a total of 4 quarter hours.

EDG 4905 INDEPENDENT STUDY (1-5)
Pr: CI. Specialized independent study determined by the students' needs and interests. May be repeated when subjects vary. (S/U only.)

EDG 4909 DIRECTED STUDY (1-4)
Pr: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

EDG 4910 INDIVIDUAL RESEARCH (1-4)
Pr: Senior standing and consent of program coordinator.

EDG 4936 SENIOR SEMINAR IN EDUCATION (3)

EDG 4940 INTERNSHIP (1-12)
One full quarter 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 quarters, students will be registered for credit which accumulates from 9 to 12 quarter hours. (S/U only.)

GRADUATE COURSES

EDG 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.

EDG 6205 SCHOOL CURRICULUM: ELEMENTARY (4)
Pr: EDG 4200 or equivalent. This course is designed to examine the organization, curriculum, and instruction within various levels of schooling with special emphasis on the nature of the elementary school program, the nature of the student served in the elementary school, organizational patterns of elementary schools, and program evaluation of the elementary schools. Open to all education graduate students.

EDG 5206 CURRICULUM AND INSTRUCTION: ELEMENTARY OR SECONDARY (5)
Curriculum scope, sequence and interrelationships, with a critical evaluation of current trends.

EDG 5925 EDUCATION WORKSHOP (1-5)
Professional in-service workshop in various areas of education. May be repeated when subjects differ. Not normally used in degree programs. (S/U only.)

EDG 6251 SCHOOL CURRICULUM IMPROVEMENT (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 6667 ANALYSIS OF CURRICULUM AND INSTRUCTION (4)
Provides for a study of various theoretical frameworks which can be used to analyze curriculum and instruction. Current educational policies are examined with the conceptual tools developed in the course. Students apply a systematic approach to formulating objectives and developing instructional strategies.

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 (1-5)
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 THE ANALYSIS OF TEACHING (4)
Pr: CI. Designed to develop skills in the analysis of teaching through an analytical study of related literature, the development of skills in systematic observation, and the study and development of related research design models.

EDG 7692 ISSUES IN CURRICULUM AND INSTRUCTION (4)
Pr: For degree-seeking graduate students who have completed the course EDG 6667 or equivalent work. Identification, analysis, and discussion 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 (1-5)
Pr: CC. Selected topics in advanced Education. May be repeated for credit to a maximum of 15 hours.

EDG 7937 GRADUATE SEMINAR (1-5)
Pr: CC. Seminar in advanced Education. May be repeated for credit to a maximum of 15 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 within various levels of schooling with special emphasis on the nature of the middle school program, the nature of the student served in the middle school, organizational patterns of middle schools, and program evaluation of 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 within various levels of schooling with special emphasis on the nature of the secondary school program, the nature of the student served in the secondary school, organizational patterns of secondary schools, and program evaluation of the secondary school. Open to all education graduate students.

ESE 6306 SUBJECT SPECIALIZATION PLANNING SECONDARY (4)
Individually planned course in a secondary school subject area for in-service teachers.
CURRICULUM—ELEMENTARY EDUCATION 209

ELEMENTARY EDUCATION

UNDERGRADUATE COURSES

ARE 4313  ART FOR THE CHILD  (4)
PR: Admission to College of Education. Art and the intellectual, creative, emotional, and esthetic growth of children.

EDE 4301  TEACHING METHODS IN THE  (4)
ELEMENTARY SCHOOL
PR: Admission to the College of Education. Suggested corequisite: EDC 4200. Process of teaching elementary school subjects. To be taken quarter prior to internship. Six hours per week as pre-intern in public schools required.

EDE 4905  INDEPENDENT STUDY: ELEMENTARY  (1-5)
EDUCATION
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  (1-4)
EDUCATION
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

EDE 4936  SENIOR SEMINAR IN ELEMENTARY  (3)
EDUCATION
PR: Senior standing. Synthesis of teacher candidate’s courses in complete college program. Required concurrently with internship.

EDE 4940  INTERNSHIP: ELEMENTARY EDUCATION  (1-12)
One full quarter 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 quarters, students will be registered for credit which accumulates from 9 to 12 quarter hours. (S/U only.)

EDE 4941  CHILDHOOD EDUCATION PRACTICUM  (2)
PR: Application for Admission to the Elementary or Elementary/Early Childhood programs. A two-quarter sequence of supervised practicum experience with children in educational settings. Students spend 6 hours per week in each of the consecutive quarters assisting teachers and performing teaching tasks. Seminars are held in conjunction with the practicum experience. Students must be enrolled in EDE 4941 in 2 consecutive quarters for a total of 4 hours. (S/U only.)

EDE 4942  CHILDHOOD EDUCATION PRACTICUM  (2)
PR: Successful completion of EDE 4941. Supervised practicum experience in classroom settings over a two-quarter period. Students are responsible for formulating and implementing teaching strategies with children. Seminars are held in conjunction with the 6 hour per week practicum experience. Students must enroll in EDE 4942 in 2 consecutive quarters for a total of 4 hours. (S/U only.)

EDE 4943  CHILDHOOD EDUCATION  (3)
PRE-INTERNSHIP PRACTICUM
PR: Successful completion of EDE 4942. A one-quarter supervised practicum. Students will spend a minimum of 2 hours daily working with children in the same classroom in which the full-day internship takes place in the following quarter. Seminars are held in conjunction with the practicum. May be repeated up to 3 credit hours. (S/U only.)

ECC 2003  INTRODUCTION TO EARLY CHILDHOOD  (4)
EDUCATION
An overview of early childhood education with emphasis on its historical development, current theories, and practices.

ECC 4203  PROGRAMS IN EARLY CHILDHOOD  (5)
EDUCATION
PR: Admission to College of Education. A study of school programs for children ages 3-8. Analysis and evaluation of these programs in the light of the most effective current classroom practices. Observation and participation included.

ECC 4303  CREATIVE EXPERIENCES IN EARLY  (4)
CHILDOHOOD EDUCATION
PR: Admission to College of Education. The development of the child’s creative expression through art, music, dance, play,
and drama; included are the materials content, and teaching techniques.

**ECE 4706 LANGUAGE AND LEARNING IN EARLY CHILDHOOD**

PR: Admission to College of Education. The study of the acquisition of language in young children and the development of basic communications skills in the Language Arts Curriculum, infancy through age 8 years.

**ECE 4905 INDEPENDENT STUDY:**

**ELEMENTARY-EARLY CHILDHOOD EDUCATION** (1-5)

PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

**ECE 4909 DIRECTED STUDY:**

**ELEMENTARY-EARLY CHILDHOOD EDUCATION** (1-4)

PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

**ECE 4936 SENIOR SEMINAR IN ELEMENTARY-EARLY CHILDHOOD EDUCATION** (3)


**ECE 4940 INTERNSHIP: ELEMENTARY-EARLY CHILDHOOD EDUCATION** (1-12)

One full quarter 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 quarters, students will be registered for credit which accumulates from 9 to 12 quarter hours. (S/U only.)

**HLP 4460 HEALTH AND PHYSICAL EDUCATION FOR THE CHILD**

PR: Admission to the College of Education. A study of the importance of movement competency and its contribution to the development of a positive self-concept in children; content and methodology for developing appropriate movement experiences for children; content and methodology for teaching elementary health science.

**LAE 4314 LANGUAGE ARTS IN CHILDHOOD EDUCATION**

PR: Admission to the College of Education. The exploration of the content, organization and instruction of oral communication and written expression in Childhood Education.

**LAE 4414 LITERATURE IN CHILDHOOD EDUCATION**

PR: Admission to College of Education. The selection, evaluation and use of fiction, nonfiction and poetry for instructional, informational, and recreational purposes in Childhood Education.

**MAE 4310 TEACHING ELEMENTARY SCHOOL MATHEMATICS I**

PR: Admission to College of Education, Number Systems, Basic Algebraic Concepts, Informal Geometry, or equivalent, and a passing score on the College of Education Test of Mathematical Competencies. Methods for teaching number ideas, computational skills, and mathematical reasoning.

**MAE 4311 TEACHING ELEMENTARY SCHOOL MATHEMATICS II**

PR: MAE 4310. Methods for teaching informal geometry, measurement, and probability and statistics.

**MAE 4545 DIAGNOSIS AND TREATMENT OF LEARNING DISABILITIES IN SCHOOL MATHEMATICS**

PR: MAE 4310 or equivalent. Presentation and analysis of teaching methods and models appropriate for use with students experiencing learning disabilities in mathematics; supervised conduct of a case study.

**MUE 4313 MUSIC FOR THE CHILD: SKILLS**

PR: Admission to College of Education. Voice production, music reading, creative composition and some instrumental experience. School song materials used to support this work.

**MUE 4315 MUSIC FOR THE CHILD: METHODS**

PR: Admission to College of Education & MUE 4313. Music Literature and teaching aids for children including singing, rhythm, creative, instrumental and listening experiences and their presentation.

**RED 4310 READING FOR THE CHILD**

PR: Admission to College of Education. Prereading, word recognition, comprehension and basic study skills and various reading approaches and reading interests; in-school work required.

**SCE 4310 SCIENCE FOR THE CHILD**

PR: Admission to College of Education and completion of General Distribution Requirement in the Natural Science area. Techniques and materials for teaching science in the elementary school.

**SSE 4313 SOCIAL STUDIES FOR THE CHILD**

PR: Admission to College of Education and completion of General Distribution Social Science sequence. Significant concepts in the subjects concerned with human relationships. Emphasis upon teaching pupils to solve rather than be engulfed by social problems.

**GRADUATE COURSES**

**ARE 6358 ART FOR THE ELEMENTARY SCHOOL TEACHER**

Exploration of various materials and techniques in relationship to current theories about art and the intellectual, creative, emotional and esthetic growth of children.

**EDE 6305 CREATIVE TEACHING IN THE ELEMENTARY SCHOOL**

Creative processes in the teaching of visual arts, music, dance, and drama to elementary school pupils.

**EDG 6935 SEMINAR IN CURRICULUM RESEARCH**

PR: EDF 6481. Critical evaluation of current research and curriculum literature, design and analysis of individual research topics leading to satisfaction of research requirements.

**EDS 6930 PROBLEMS IN SUPERVISION**

PR: EDF 6481 or equivalent and EDS 6050. Problems in supervising for curriculum improvement within the elementary school.

**EEC 5406 SOCIAL GROWTH IN CHILDHOOD**

PR: Admission to College of Education. A study of the principal factors which influence the social development of young children with particular emphasis upon those cultural influences which affect both child development and the educational programs for the young child.

**EEC 5705 DEVELOPMENTAL PROCESSES IN EARLY CHILDHOOD**

PR: Admission to College of Education. The normal processes of development among children ages 3-8, the relationship between these characteristics and the curriculum: child study through observation required.

**EEC 5926 WORKSHOP IN EARLY CHILDHOOD EDUCATION**

PR: Admission to College of Education. Individual problems and innovations related to methods and materials of instruction in the early childhood grades.

**EEC 6261 ADVANCED PROGRAMS IN EARLY CHILDHOOD EDUCATION**

PR: EDF 6431, EEC 4203 or CI. A study of innovative curriculum designs in Early Childhood Education, with emphasis given to related research.

**EEC 6405 HOME-SCHOOL-COMMUNITY INTERACTION IN EARLY CHILDHOOD EDUCATION**

PR: EDF 6431, EEC 4203 or CI. An intensive study of the roles of parents, teacher aides, and community agencies involved in the education of the young child.

**LAE 5325 TEACHING METHODS IN THE MIDDLE SCHOOL—ENGLISH LANGUAGE ARTS**

PR: CI. Analysis of nature and communication needs of stu-
dents in grades 5-8 with emphasis on laboratory methods of teaching language.

LAE 6301 LANGUAGE LEARNING IN CHILDHOOD (4)
PR: Graduate standing in the College of Education. The study of research which has been used to assess the language behavior of normal children. Attention will also be given to the application of selected research methodology to understanding linguistic behavior of children.

LAE 6415 LITERATURE AND THE LEARNER (4)
This course is designed to acquaint adults with the nature, scope and uses of literature for instructional, information and recreational purposes. The implication of current theory, significant research and issues in literature study will be investigated and examined as they relate to the learner.

LAE 6616 TRENDS IN LANGUAGE ARTS INSTRUCTION (4)
PR: LAE 4314 or equivalent or CI. A study of significant concepts, emerging trends, research and instructional techniques for implementation and utilization of language arts in all areas of the curriculum.

LAE 7617 THEORIES AND PATTERNS OF ADVANCED LANGUAGE ARTS INSTRUCTION (4)
PR: LAE 6616 or equivalent. This course is organized to present new research findings and theories relating to language patterns and contemporary programs designed for teaching language arts.

LAE 7746 APPLICATIONS OF THEORIES TO THE DEVELOPMENT OF LANGUAGE ARTS PROGRAMS (4)
PR: LAE 6616 or equivalent; and LAE 7617. This course is designed to apply research finding and theories for developing and organizing instructional improvement of the language arts.

LAE 7747 LITERATURE PROGRAM DESIGN (4)
PR: EDF 6481, Foundations of Educational Research or equivalent; LAE 6415, Literature and the Learner; or LAE 6336, New Perspectives on the Teaching of Literature in Secondary Schools, or equivalent, or CI. Advanced graduate standing. Investigation and analysis of the research in literature instruction and the application of the findings to the development of literature programs.

MAE 6116 CURRENT TRENDS IN ELEMENTARY MATHEMATICS EDUCATION (4)
PR: MAE 4310 or equivalent. Philosophy, content and process of qualitative instruction in modern mathematics in elementary school programs.

MAE 6548 ADVANCED DIAGNOSIS AND TREATMENT OF LEARNING DISABILITIES IN SCHOOL MATHEMATICS (4)
PR: MAE 4310 or equivalent. Study of the symptoms, etiologies and consequences of children's learning disabilities in mathematics; study and guided application of theoretical models used in diagnosis and treatment; supervised conduct of a case study.

MAE 6549 ADVANCED PRACTICUM IN DIAGNOSIS AND TREATMENT OF LEARNING DISABILITIES IN SCHOOL MATHEMATICS (1-8)
PR: MAE 6548. Supervised conduct of a case study with a student experiencing learning difficulties in mathematics. Procedures used and reporting practice employed developed in MAE 6548 reviewed and extended.

RED 6116 FOUNDATIONS OF ELEMENTARY READING INSTRUCTION (4)
PR: RED 4310 or equivalent course. Study of approaches, materials, and procedures in Elementary Reading instruction, with emphasis on pertinent research. Not for undergraduate nor to be used as a first course in Reading.

SCE 6616 TRENDS IN SCIENCE INSTRUCTION (4)
PR: SCE 4310. Topics in the biological and physical sciences appropriate for teaching in excellent elementary school programs. Analysis of modern curriculum materials used in presenting science as a process of inquiry.

SSE 6617 TRENDS IN SOCIAL STUDIES INSTRUCTION (4)
PR: SSE 4313. Crucial concepts drawn from the social sciences. Analysis of the problems approach. Students will select an area of independent study on an advanced level.

EMOTIONAL DISTURBANCE EDUCATION

UNDERGRADUATE COURSES

EED 4011 BEHAVIOR DISORDERS IN THE SCHOOLS (4)
PR: EDF 3214, EEX 3010, or CI. Survey of emotional and social disorders in children and youth manifested as behavior problems in the classroom; definitions, State Guidelines for educational service, service delivery models, intervention philosophies and techniques, implications for management techniques in educational programs and the history and trends of the field.

EED 4321 EDUCATIONAL PROGRAMMING FOR CHILDREN AND YOUTH WITH BEHAVIOR DISORDERS (5)
PR: EDF 3214, EEX 3010, EED 4011, acceptance in the Program for Emotional Disturbance. Methods and techniques for teaching children and youth with behavior disorders; individualization of instruction; planning and implementation of educational programs; Precision Teaching and behavior modification techniques as applied to the education of children and youth with behavior disorders.

EED 4905 INDEPENDENT STUDY: EMOTIONAL DISTURBANCE (1-5)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

EED 4909 DIRECTED STUDY: EMOTIONAL DISTURBANCE (1-4)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

EED 4936 SENIOR SEMINAR IN EMOTIONAL DISTURBANCE (3)

EED 4940 INTERNSHIP: EMOTIONAL DISTURBANCE (1-12)
One full quarter of internship in a public or a private school. Intern takes Senior Seminar in Education concurrently. In special programs where the intern experience is distributed over two or more quarters, students will be registered for credit which accumulates from 9 to 12 quarter hours. (S/U only.)

EED 4941 UNDERGRADUATE SUPERVISED PRACTICUM IN BEHAVIOR DISORDERS (4)
PR: Acceptance in the undergraduate program for Emotional Disturbance. Exceptional Children and Youth and Behavior Disorders in the Schools may be taken concurrently. Supervised undergraduate practicum experiences with children and youth with behavior disorders. A one hour per week seminar is required concurrent with practicum. May be repeated up to 12 hours.

GRADUATE COURSES

EED 6201 EDUCATIONAL IMPLICATIONS OF PATHOLOGICALLY DISTURBED CHILDREN AND YOUTH (4)
In-depth survey of mild, moderate and severe behavioral pathologies of children and youth. Includes such topics as autism, schizophrenia, neurotic and other psychotic disorders: social, cultural, and behavioral deviations, and the educational implications of each.
EED 6211 EDUCATIONAL PROGRAMMING FOR EMOTIONALLY DISTURBED CHILDREN (4)
PR: EED 6201, EED 6221, EEX 6201. Advanced methods and materials in planning, implementing, and evaluating educational interventions with disturbed students.

EED 6221 MANAGEMENT METHODS AND TECHNIQUES FOR DISTURBED CHILDREN IN AN EDUCATIONAL SETTING (4)
PR: EDF 6217 or EED 6201, graduate standing. Management methods with disturbed children in an ongoing educational setting. Includes behavior modification, reality therapy, psychodynamic interventions, and humanistic approaches. Basic evaluation techniques of intervention strategies, including Precision Teaching, are covered. Practical applications are stressed.

EED 6222 PROCEDURES FOR EDUCATING DISTURBED AND DISRUPTIVE ADOLESCENTS AND YOUTH (4)
PR: EDF 5136, EED 6201, EED 6221, or CI. Procedures in implementing educational programs for the disturbed and disruptive adolescent and youth including educational programming, alternative programs, community resource coordination, and advocacy.

EED 6943 SUPERVISED PRACTICUM IN EMOTIONAL DISTURBANCE (4)
PR: EED 6201 (may be taken concurrently), and acceptance in Master's Degree Program in Emotional Disturbance. Supervised graduate practicum experiences with emotionally disturbed children. A one hour per week seminar is required concurrent with practicum. May be repeated up to 12 hours.

ENGLISH EDUCATION

UNDERGRADUATE COURSES

EDG 4451 EDUCATION THROUGH DRAMA (4)
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 PRODUCTION PROCESS (4)
Experiential study of the play production process as it applies to theatre for school audiences. Students will produce a play to be performed the following quarter. Each student will participate in decision-making aspects of production from play selection through dress rehearsal. Students are expected to perform the play during the following quarter as a project of EDG 4453. May be repeated for elective credit two times; once for major credit.

EDG 4453 THEATRE FOR PRE-SECONDARY SCHOOLS: THE PERFORMANCE PROCESS (4)
PR: Completion of EDG 4452 in the quarter immediately preceding this course or permission of the instructor. An experiential study of the artistic process of performing for various school audiences and the practice of conducting in-class workshops related to the performance. Techniques of preparing preperformance and postperformance teacher guidelines and workshop materials will be studies. May be repeated for elective two times; once for major credit.

EDG 4454 METHODS OF TEACHING THEATRE FOR ADOLESCENTS (4)
Methods of effective drama and theatre instruction in middle-school, junior high, and senior high school environments both in and outside the classroom. The course is designed to assist teachers who are assigned to direct the school play as well as those wishing to develop supplementary skills in the use of drama and theatre in classes such as English, social studies, speech, mass communications, art and music. Not restricted to education majors.

LAE 4335 METHODS OF TEACHING ENGLISH—LITERATURE AND READING (4)
CR: EDG 4200, LAE 4335, and LAE 4642 are typically taken concurrently. A survey of materials available to adolescent readers plus an overview of organizational strategies for teaching literature and reading.

LAE 4530 READING SKILLS IN ENGLISH EDUCATION (2)
PR: RED 4360 or CI. Methods of dealing with reading problems and application of general reading concepts in English Education. Required of all undergraduate majors in English Education.

LAE 4642 CURRENT TEACHING OF ENGLISH LANGUAGE AND MEDIA (4)
PR: Acceptance into College of Education. CR: EDG 4200, LAE 4335, and LAE 4642 are typically taken concurrently. Methods of teaching language and media. Includes current findings on teaching usage, dialect, grammar, and semantics, as well as approaches to media in English.

LAE 4905 INDEPENDENT STUDY: ENGLISH EDUCATION (1-5)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

LAE 4909 DIRECTED STUDY: ENGLISH EDUCATION (1-4)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

LAE 4936 SENIOR SEMINAR IN ENGLISH EDUCATION (3)

LAE 4940 INTERNSHIP: ENGLISH EDUCATION (1-12)
One full quarter 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 quarters, students will be registered for credit which accumulates from 9 to 12 quarter hour. (S/U only.)

GRADUATE COURSES

EDG 6455 EDUCATION THROUGH ADVANCED DRAMA (4)
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.

LAE 5932 SELECTED TOPICS IN THE TEACHING OF ENGLISH (4)
PR: Certification in English and/or Mass Communications and approval of graduate adviser. Investigation of topics which are of special interest to the student and are related to the teaching of English in the secondary school. Topics will be selected by the student in accordance with his particular goals and will be approved by the student's graduate adviser.

LAE 6336 NEW PERSPECTIVES ON THE TEACHING OF LITERATURE IN SECONDARY SCHOOLS (4)
PR: Certification in English or Mass Communications. Survey of recent investigation into adolescents' perception of and responses to literature and implications for organization and presentation of literature curricula.

LAE 6637 CURRENT TRENDS IN SECONDARY ENGLISH EDUCATION (4)
Curricular patterns and instructional practices in secondary English.

LAE 6644 CURRENT TEACHING OF THE ENGLISH LANGUAGE (4)
Application of recent techniques of language study to classroom teaching of English, especially in relation to current textbooks.
EXCEPTIONAL CHILD EDUCATION

UNDERGRADUATE COURSES

EEX 3010 EXCEPTIONAL CHILDREN AND YOUTH (4)

EEX 4070 EXCEPTIONAL STUDENTS AND THEIR EDUCATION (4)
Basic understanding of exceptional students and their education for those not majoring in exceptional child education. Course includes: the basics of PL 94-142 and other pertinent laws, Individual Educational Program (IEP) preparation, the assessment process, teacher-parent-student rights and roles, and the education of exceptional students in a regular educational setting.

EEX 4221 EDUCATIONAL ASSESSMENT OF EXCEPTIONAL CHILDREN (4)
PR: EDF 3214, EEX 3010, EMR 3011 or EED 4011 or ELD 4011 and an Exceptional Child Education major. Introduction to and familiarization with formal and informal techniques used to measure and evaluate all exceptional children. The interpretation of information so derived for utilization in educational programming and individualization of instruction. Lec-lab.

EEX 4905 INDEPENDENT STUDY: EXCEPTIONAL CHILD EDUCATION (1-5)
PR: CI. Specialized independent study determined by the student’s needs and interests. May be repeated when subjects vary. (S/U only.)

EEX 4909 DIRECTED STUDY: EXCEPTIONAL CHILD EDUCATION (1-4)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

EEX 4936 SENIOR SEMINAR IN EXCEPTIONAL CHILD EDUCATION (3)
PR: Senior standing. Synthesis of teacher candidate’s courses in complete college program. Required concurrently with internship.

EEX 4940 INTERNSHIP: EXCEPTIONAL CHILD EDUCATION (1-12)
One full quarter 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 quarters, students will be registered for credit which accumulates from 9 to 12 quarter hours. (S/U only.)

GRADUATE COURSES

EEX 6201 PSYCHO-EDUCATIONAL APPRAISAL OF EXCEPTIONAL CHILDREN (4)
PR: EEX 3010 or EEX 6936, EDF 6431, EEX 4221. Educational planning for exceptional children based on diagnostic information. Includes both lectures and practicum experiences in evaluative and instructional techniques for exceptional children.

EEX 6511 ADMINISTRATION OF EXCEPTIONAL CHILD PROGRAMS (4)
PR: CI. Procedure which local, state, and national administrators may use to implement services for exceptional children.

EEX 6732 GUIDANCE AND COUNSELING OF EXCEPTIONAL CHILDREN AND THEIR PARENTS (5)
PR: EEX 6936 and CI. Investigation of the guidance needs of exceptional children and parents. Through child study techniques, opportunities will be provided for the development of skills in guiding parents of exceptional children in providing assistance/support in their total development and use of potential.

EEX 6934 CURRENT TRENDS AND ISSUES IN THE EDUCATION OF EXCEPTIONAL CHILDREN (4)
Survey of current trends and issues related to the education of exceptional children.

EEX 6936 SEMINAR IN EXCEPTIONAL CHILD EDUCATION (4)
A critical survey of the literature related to the psychological, sociological, and education problems of exceptional children.

EEX 7203 EDUCATIONAL IMPLICATIONS OF PSYCHOSOCIAL ASPECTS OF EXCEPTIONAL CHILDREN (1-8)
PR: CI. This course will be concerned with the identification of the psycho-social needs and characteristics of exceptional children. Opportunity will also be given to the analysis of the educational implications of these needs and characteristics. May be repeated for a maximum of 8 hours.

EEX 7301 SELECTED TOPICS IN EXCEPTIONAL CHILD EDUCATION (1-12)
PR: EEX 7341 or CI. Identification and specifications of a research problem in special education. Opportunity will be provided for the student to gather and process data, culminating in a written report and/or oral presentation to fellow student researchers. May be repeated for a maximum of 12 hours.

EEX 7341 RESEARCH STUDIES AND THEIR IMPLICATIONS IN THE EDUCATION OF EXCEPTIONAL CHILDREN (5)
PR: EDF 6431, EDF 6481 or equivalent CI. This course will involve a study of current research in exceptional child education. The transition from theory into practice will be made through the examination and discussion of implications to the field of special education that can be drawn from the research.

EEX 7741 PHILOSOPHY AND PROCESS IN THE PREPARATION OF SPECIALISTS IN EXCEPTIONAL CHILD EDUCATION (4)
PR: Admission in the Program for Ed.S. and Ph.D. in Education. In-depth exploration of the philosophy and theory in special education. A theoretical basis for the preparation of specialists in the field of exceptional child education.

EEX 7841 FIELDWORK WITH EXCEPTIONAL CHILDREN (1-8)
PR: CI. Practical field experience in curriculum development, classroom teaching, supervision and/or administrative areas in special education. May be repeated for a maximum of 8 hours.

EEX 7911 SPECIALIZED STUDY IN: MENTAL RETARDATION, EMOTIONAL DISTURBANCE, SPECIFIC LEARNING DISABILITIES, AND GIFTED EDUCATION (1-12)
PR: CI. Exploration and demonstration of knowledge in an area of interest to the student in special education. The specialized study may also include areas for which the student needs to demonstrate a higher level of competency. May be repeated for a maximum of 12 hours.

EEX 7930 SEMINARS IN EXCEPTIONAL CHILD EDUCATION (1-10)
PR: Preliminary admission to the Graduate Program and CI. Seminar Topics will vary to include neurophysiological mechanisms, current trends, issues, and curriculum development in Special Education. May be repeated for a maximum of 10 hours.

FOREIGN LANGUAGE EDUCATION

UNDERGRADUATE COURSES

FLE 4164 FOUNDATIONS OF BILINGUAL EDUCATION (3)
PR: Demonstrated proficiency in two languages, one of which must be English. An introduction to Bilingual Education which provides an analysis of the national and state laws relating to bilingual/bicultural education programs which meet the educational and language development needs of minority group
students who are of limited English speaking ability. Emphasis is placed on teaching situations in bilingual education programs.

FLE 4333 TEACHING METHODS IN THE SECONDARY SCHOOL-FOREIGN LANGUAGE (4)
PR: EDF 4200 or CR in EDF 4200. Techniques and materials of instruction in foreign languages. To be taken in the quarter prior to internship.

FLE 4905 INDEPENDENT STUDY: FOREIGN LANGUAGE EDUCATION (1-5)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

FLE 4909 DIRECTED STUDY: FOREIGN LANGUAGE EDUCATION (1-4)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

FLE 4936 SENIOR SEMINAR IN FOREIGN LANGUAGE EDUCATION (3)

FLE 4940 INTERNSHIP: FOREIGN LANGUAGE EDUCATION (1-12)
One full quarter 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 quarters, students will be registered for credit which accumulates from 9 to 12 quarter hours. (S/U only.)

GRADUATE COURSE

FLE 6665 CURRENT TRENDS IN SECONDARY FOREIGN LANGUAGE EDUCATION (4)
PR: Consultation with instructor, plus foreign language fluency. Curricular patterns and instructional practices in the teaching of secondary foreign languages.

FOUNDATIONS

UNDERGRADUATE COURSES

EDF 3210 EDUCATIONAL PSYCHOLOGY (4)
PR: Upper level standing. The application of behavioral principles to human behavior in educational institutions, home and community settings. May not be counted for EDF 3214. (For non-education majors only.)

EDF 3214 HUMAN DEVELOPMENT AND LEARNING (4)
PR: General Psychology and admission to College of Education or CC. Application of respondent and operant learning principles to classroom learning, teaching models for different instructional goals, analysis of teacher behavior, micro-teaching.

EDF 3228 BEHAVIOR MODIFICATION TECHNIQUES (5)
PR: EDF 3214. Special techniques in behavior modification for children with learning difficulties. Minimum of two hours field experience per week required in addition to regular class hours.

EDF 3542 PHILOSOPHY OF EDUCATION (4)
PR: Upper level standing. A critical analysis of selected philosophies of education in terms of their beliefs about the nature of man and society and their related assumptions about the nature of reality, knowledge and value.

EDF 3554 VALUES CLARIFICATION FOR TEACHERS (4)
PR: Junior standing recommended. Techniques for teachers in identifying and analyzing values and value orientations of individuals and groups of students in the school.

EDF 3604 SOCIAL FOUNDATIONS OF EDUCATION (4)
PR: Admission to College of Education. Social, economic and political context within which schools function and the values which provide direction for our schools; the culture as a motivating influence in instruction. Should not be taken concurrently with EDF 3214.

EDF 3710 COMPARATIVE EDUCATION (4)
PR: Upper level standing. A comparison of contemporary educational systems of selected countries with that of the United States.

EDF 4801 WOMEN AND THE EDUCATIONAL PROCESS (4)
PR: Junior standing recommended. Covers both the role women played in education in the U.S. and the way schools have helped to shape the role women play in American society. Topics include development of sex-role stereotypes through classroom interactions and curriculum materials, the status of women in public and higher education and laws affecting it, and the role of the schools in forming educational and career aspirations of girls and women. Emphasis will be placed on ways parents and teachers may counteract the sex-typing which schools, as they are currently structured, perpetuate. (Also offered under Women's Studies.)

EDF 4905 INDEPENDENT STUDY: EDUCATIONAL FOUNDATIONS (1-5)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

EDF 4909 DIRECTED STUDY: EDUCATIONAL FOUNDATIONS (1-4)
PR: Senior Standing. To extend competency in teaching field. Offered only as a scheduled class.

GRADUATE COURSES

EDF 5136 ADOLESCENCE (4)
A study of the educational, intellectual, personality, physical, social and vocational factors in adolescence.

EDF 5285 PROGRAMMED INSTRUCTION AND TEACHING MACHINES (4)
Principles for programming in the several academic subjects.

EDF 5672 AMERICAN DEMOCRACY AND PUBLIC EDUCATION (4)
Interdependence of the public school and democracy in the United States and the responsibility of the school in fostering and strengthening basic democratic principles.

EDF 6120 CHILD DEVELOPMENT (4)
PR: EDF 6211 or CI. Educational, emotional, hereditary, intellectual, social and physical factors influencing child growth and development.

EDF 6143 MEASUREMENT OF INDIVIDUAL INTELLIGENCE (5)
PR: EDF 3214 or EDF 6431 or equivalent and a course in educational measurement or statistics. Administration and interpretation of individual measures of intelligence.

EDF 6211 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION (4)
Selected topics in psychology of human development and learning.

EDF 6213 BIOLOGICAL BASES FOR LEARNING AND BEHAVIOR (5)
PR: One course in Educational Psychology. A study of human biological development and its influence upon learning and behavior.

EDF 6215 PRINCIPLES OF LEARNING (5)
A consideration of several theories of learning and related research studies in regard to classroom application.

EDF 6217 BEHAVIOR THEORY AND CLASSROOM LEARNING (4)
PR: EDF 6215 or CI. Theoretical and practical application of behavior modification. Will cover: Introduction into experimental methods, e.g., independent, dependent variables; and internal validity; principles of positive reinforcement, shaping and successive approximations; application of reinforcement (parameters); operant behavior under extinction; operand
methods in behavior and development; readings in behavior modification—critical analysis; field work.

EDF 6354 THEORIES OF PERSONALITY FOR SCHOOL PERSONNEL
A comparative and integrated study of personality development according to major psychological theories. Application of the theoretical constructs to education and guidance.

EDF 6431 FOUNDATIONS OF MEASUREMENT
Fundamental descriptive statistics, basic measurement concepts, role of measurement in education, construction of teacher-made tests and interpretation of standardized tests.

EDF 6481 FOUNDATIONS OF EDUCATIONAL RESEARCH
PR: EDF 6431. Major types of educational research, with emphasis upon understanding the experimental method.

EDF 6517 HISTORICAL FOUNDATIONS OF AMERICAN EDUCATION
Historical and comparative problems in American education which are relevant to contemporary issues.

EDF 6544 PHILOSOPHICAL FOUNDATIONS OF AMERICAN EDUCATION
Major philosophies of education which are relevant to an understanding of contemporary educational issues.

EDF 6606 SOCIO-ECONOMIC FOUNDATIONS OF AMERICAN EDUCATION
Significant sociocultural factors as they relate to major problems facing American education.

EDF 6712 PROSEMINAR IN COMPARATIVE EDUCATION
Contemporary policies and practices in education in selected countries of the world. Methodology in Comparative Education. Consideration will be given to needs and interests of individual students.

EDF 6805 WOMEN AND EDUCATION
Course is designed to enable public school personnel, teachers, counselors, administrators and other professionals, to identify those aspects of public education which perpetuate sex role stereotyping. Emphasis will be placed on how the law and formal and informal affirmative action activities can be employed to correct sexism in schools.

EDF 6860 SCHOOLS AND THE FUTURE
PR: Admission to a College of Education Master's Program or CI. An examination of recent and current estimates of future demands upon and roles for schools. Topics include advantages and limitations of various techniques employed in futuristics, particularly as applied to schools; primary social forces affecting schools; probable emergence of new social forces; and probable diminution of past and present social forces and demands; the dynamics of social change and effects of various institutions such as schools; the differing effects of various paradigms employed as models for estimating alternative school figures; analysis of seminal documents describing future scenarios for schools; and the development of alternative future scenarios for schools from course materials.

EDF 6938 SELECTED TOPICS
PR: CI. Exploration and demonstration of knowledge in an area of special interest to the student and/or in an area for which the student needs to demonstrate a higher level of competence. Defined to fit the needs of each student.

EDF 6944 FIELD EXPERIENCE
PR: CI. Demonstrate skills in the practice of the student's specialty. Specific objectives will be defined according to the needs of the individual student.

EDF 7586 CLASSICS IN EDUCATIONAL RESEARCH
PR: Graduate standing; EDF 6517, EDF 6544, or EDF 6606 or CI. An examination of the context, methodology, and impact of significant research studies in education. Topics will include studies of the Herbartians, J.M. Rice, E.L. Thorndike, G.S. Hall, L.P. Ayers, Willard Waller, the Reading Studies, the Eight Year Study, and School Surveys.

EDF 7610 SCHOOL REFORM
PR: Graduate standing; EDF 6517, EDF 6544, or EDF 6606 or CI. An examination of the history, background, sources, dynamics, and effects of attempts at school reform. Topics will include role of individuals, foundations, legislation, geography, politics, media, and technology as they relate to reform aims and strategies; distinctions between short-term planning for change and the preparation of long-term future strategies.

EDF 7649 ANALYSIS OF EDUCATIONAL ISSUES
PR: Graduate standing; EDF 6517, EDF 6544 or CI, or EDF 6606. An examination and analysis of selected critical issues in public schooling in terms of their axiological, historical, and socio-cultural bases. Includes such topics as: problems of curriculum reform, influence of legislation and court ruling on school teaching and administration, teachers' organizations and problems of educational support. Emphasis will be placed on ways of conceptualizing and evaluating problems and issues.

EDF 7655 ORGANIZATION DEVELOPMENT IN EDUCATIONAL INSTITUTIONS
PR: Graduate standing; EDF 6517, EDF 6544 or CI, or EDF 6606. The application of social and behavioral science theory to the developmental problems of schools and school systems. Topics include: theory of organization development, concepts of systems analysis, action research techniques, intervention and change concepts and strategies, consultant-client relationships, organization problem diagnosis and solution, plus a survey of resources available for organization development.

EDF 7682 EDUCATION IN METROPOLITAN AREAS
PR: Graduate standing; EDF 6517, EDF 6544, or CI, or EDF 6606. Examination of the school as a formal, socializing institution in relationship to the residential populations found within the metropolitan structure with specific reference to methodologies useful for educational planning. Topics will include an identification of the metropolitan concept; an analysis of metropolitan forms, functions, and dynamics; a study of socio-economic structure and ethnic composition of residential populations; and a discussion of the school as a metropolitan institution interacting with a spectrum of socio-economic and ethnic groups.

SPS 6197, 6198, 6199 PSYCHOEDUCATIONAL DIAGNOSIS AND PRESCRIPTION I, II, III
PR: Acceptance to graduate program in School Psychology. Content covers comprehensive diagnosis and prescription in school psychology, including critical reviews of relevant research literatures, the professional-client relationship, interviewing, client histories, pluralistic psychoeducational assessment, assessment of educational environments, synthesis and dissemination of diagnostic data, and referral procedures. Appropriate field experiences will be provided. This course must be taken during three consecutive quarters, and the grade will be awarded at the end of the sequence. The student will be provided continuous feedback.

SPS 6806 ISSUES IN DEVELOPMENTAL AND CULTURAL DIVERSITY: EDUCATIONAL IMPLICATIONS
PR: Acceptance to graduate studies in School Psychology or CI. Course deals with some of the major social and educational policy concerns posed by developmental and cultural diversity in our society. Course offers a framework for understanding the current and potential status and role of diverse individuals in our society, particularly in education, and of the attitudes and processes underlying social change and program development.

SPS 6936 GRADUATE SEMINAR IN SCHOOL PSYCHOLOGY
PR: Admission to School Psychology Program or CI. Seminars to explore current matters of professional concern in school psychology such as trends, problems, legal and ethical issues, empirical bases of techniques. Individual seminars will be designed to encourage critical thinking, problem solving,
and leadership in the profession. May be repeated up to 15 credit hours (with different subject matter).

GIFTED CHILD EDUCATION

UNDERGRADUATE COURSES

EGI 3011 INTRODUCTION TO GIFTED CHILDREN (4) PR: Junior class standing. Diagnosis, characteristics, and educational provision of the gifted and talented.

EGI 3941 FIELD WORK WITH GIFTED CHILDREN (1-6) Organized, supervised experiences with gifted children. Specific experiences may be either a combination of observation and assistance with gifted children or individualized projects.

GRADUATE COURSES

EGI 5051 NATURE AND NEEDS OF THE GIFTED (4) Characteristics and educational needs of gifted children and youth.

EGI 5232 EDUCATIONAL PROCEDURES FOR THE GIFTED (4) PR: EGI 5051 or Cl. Curriculum adjustments, methods and techniques, classroom organization necessary for teaching the gifted.

EGI 5942 SUPERVISED PRACTICUM FOR THE GIFTED (1-14) Planned supervised participation in activities related to specific areas of the gifted.

EGI 6936 SEMINAR IN EDUCATION OF THE GIFTED: RECENT RESEARCH (4) A critical survey of the literature related to the psychological and educational problems of gifted children.

EGI 6937 SEMINAR IN EDUCATION OF THE GIFTED: PROGRAMS (4) A survey of existing programs for the gifted and evaluation of relevant literature. Individual students will plan and present a model program for the gifted.

GUIDANCE AND COUNSELING EDUCATION

UNDERGRADUATE COURSES

EGC 4001 INTRODUCTION TO GUIDANCE (5) 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 4053 INTRODUCTION TO STUDENT PERSONNEL WORK IN HIGHER EDUCATION (5) PR: Cl. Study of student personnel services in institutions of higher education. Identification of the needs of students and of the ways to respond to meet these needs. Survey of service units on a campus in terms of structure, organization, funding, and evaluation of each unit.

EGC 4905 INDEPENDENT STUDY: GUIDANCE AND COUNSELING EDUCATION (1-5) PR: Cl. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

GRADUATE COURSES

EGC 5034 GUIDANCE IN VOCATIONAL EDUCATION (4) PR: Cl. Application of guidance theories and skills to the work of vocational educators. The guidance role of teachers and their relationships with counselors in providing guidance services.

EGC 5105 COMPARATIVE GUIDANCE (4) PR: Cl. 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 6005 PRINCIPLES OF GUIDANCE (5) PR: Cl. Required first course in specialization sequence for all guidance majors. Guidance as a profession; philosophic framework of the guidance program, its scope and place in the total educational context.

EGC 6225 APPRAISAL PROCEDURES IN GUIDANCE (5) PR: EDF 6341, 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 6305 THE INFORMATION SERVICE IN GUIDANCE (4) PR: EGC 6005. Study of the information service as it relates to a total human services program. Emphasis on career development theories and the use of vocational, educational, and personal-social informational resources.

EGC 6435 COUNSELING THEORIES AND PRACTICES (5) 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 (5) 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 6506 GROUP PROCEDURES IN GUIDANCE IN ELEMENTARY SCHOOLS (3) PR: EDF 6354, EGC 6005, EGC 6464. Nature and dynamics of the group process and leadership skills applied to group activities in elementary school settings, in working with children, parents, and teachers.

EGC 6507 GROUP PROCEDURES IN GUIDANCE IN SECONDARY SCHOOLS (3) PR: EDF 6354, EGC 6005, EGC 6464. Nature and dynamics of the group process, leadership skills, major theoretical orientations; practical applications to group work with adolescents and adults.

EGC 6625 ORGANIZATION AND ADMINISTRATION OF GUIDANCE SERVICES IN ELEMENTARY SCHOOLS (3) PR: EGC 6005. A study of the counselor's responsibility for planning and operation of guidance programs in elementary schools. Discussion of the problems and issues involved, the guidance program's relationship to instruction and administration, and the guidance roles of members of the school staff.

EGC 6830 PRACTICUM IN ELEMENTARY GUIDANCE COUNSELING AND CONSULTING (6) PR: All EGC courses except EGC 6506 and EGC 6935; an overall "B" average or higher; a grade of "B" or higher in each EGC course; removal of incomplete ("I") grades; CC. Supervised counseling experiences which provide for the integration and application of knowledge and skills gained in didactic study. Focus is upon working with elementary age children, their parents and teachers in individual counseling and consulting relationships. (S/U only.)

EGC 6835 PRACTICUM IN SECONDARY SCHOOL GUIDANCE COUNSELING (6) PR: All EGC courses except EGC 6507 and EGC 6935; an overall "B" average or higher; a grade of "B" or higher in all EGC courses; removal of incomplete ("I") grades; CC. Supervised counseling experiences which provide for the inte-
education and application of knowledge and skills gained in didactic study. Focus is upon working with adolescents and adults in individual counseling relationships. (S/U only.)

**EGC 7446 ADVANCED COUNSELING PRACTICUM**

PR: EGC 7437 and admission to Counselor Education Advanced Graduate program. Supervised experience in individual and group counseling and consulting.

**EGC 7455 SUPERVISION OF COUNSELING**

PR: Advanced Counseling Practicum (EGC 7446) and admission to Counselor Education Advanced Graduate program. Procedures and supervised experience in the supervision of counselors and counselor trainees.

**EGC 7935 ADVANCED SEMINAR IN COUNSELOR EDUCATION**

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 three additional credit hours. (S/U only.)

**HEALTH EDUCATION**

**UNDERGRADUATE COURSES**

**HES 2000 CONTEMPORARY HEALTH SCIENCE**

A comprehensive approach to health concerns and problems in contemporary society, including methods of assessing individual health needs. (S/U only.)

**HES 3122 HUMAN STRUCTURE AND FUNCTION I**

PR: BSC 2010C. Fundamentals of Biology I and admission to the Health Education Program or CI. A study of major concepts of the structure and function of human body systems and methods by which these concepts may be taught. Study of curriculum materials and their applications for teaching these concepts are included. This course includes the following areas: skeletal, muscular, nervous, respiratory, and circulatory systems. (S/U only.)

**HES 3123 HUMAN STRUCTURE AND FUNCTION II**

PR: HES 3122. A continuation of HES 3122. Course includes the following areas: cardiovascular, digestive and urinary systems balance and stress; metabolism; human inheritance. (S/U only.)

**HES 3140 HEALTH EDUCATION AND RELATED HEALTH SCIENCE CONTENT: CHILDREN**

PR: Admission to the Health Education Program or CI. Programs, curriculum, health services, and health education related to health needs and interests of children. (S/U only.)

**HES 3141 HEALTH EDUCATION AND RELATED HEALTH SCIENCE CONTENT: PUBESCENCE**

PR: Admission to the Health Education Program or CI. Programs, curriculum, health services, and health education related to health needs and interest of pubescence. (S/U only.)

**HES 3244 HEALTH COUNSELING**

PR: Admission to the Health Education Program or CI. A study and application of theory and methods of health counseling. (S/U only.)

**HES 3300 PROCESSES AND PROGRAMS IN HEALTH EDUCATION**

PR: Admission to the Health Education Program or CI. Survey of programs in Health Education in the schools and community. Processes in programs and curriculum development will also be emphasized. (S/U only.)

**HES 3510 CONSUMER HEALTH**

PR: Admission to the Health Education Program or CI. An investigation of advertising and consumer practices in relation to health care. (S/U only.)

**HES 3730 HEALTH ASSESSMENT LABORATORY**

PR: Admission to the program or CI. Observation, screening and assessment of common health problems and introduction to resources for health education. (S/U only.)

**HES 4142 HEALTH EDUCATION AND RELATED HEALTH SCIENCE CONTENT: ADOLESCENTS AND YOUNG ADULTS**

PR: Admission to the Health Education Program or CI. A study of health needs, programs, services, and health content areas of adolescents and young adults. (S/U only.)

**HES 4143 HEALTH EDUCATION AND RELATED HEALTH SCIENCE CONTENT: ADULTS**

PR: Admission to the Health Education Program or CI. A study of current health problems, programs, and research methods. (S/U only.)

**HES 4276 HEALTH CARE DELIVERY SYSTEMS**

PR: Admission to the Health Education Program or CI. An investigative study and evaluation of health care delivery systems in the U.S. and other countries. (S/U only.)

**HES 4722 CURRENT PROBLEMS IN HEALTH**

PR: Admission to the Health Education Program or CI. An investigation of current health problems, programs, and research methods. (S/U only.)

**HES 4905 INDEPENDENT STUDY: HEALTH EDUCATION**

PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

**HES 4909 DIRECTED STUDY: HEALTH EDUCATION**

PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class. (S/U only.)

**HES 4940L INTERNSHIP IN HEALTH EDUCATION**

PR: Admission to the Health Education Program. Supervised internship in the schools with scheduled seminars. (S/U only.)

**HES 4943 SEMINAR AND FIELD EXPERIENCE: ADULT HEALTH**

PR: Admission to the Health Education Program. Supervised field experiences in adult health programs in schools and the community. (S/U only.)

**HES 4944 SEMINAR AND FIELD EXPERIENCE: CURRENT HEALTH PROBLEMS**

PR: Admission to the Health Education Program. Supervised field experience in selected health program. (S/U only.)

**GRADUATE COURSE**

**HES 5328C HEALTH PROBLEMS OF SCHOOL AGE POPULATION**

A study of health problems and needs of school age students including a health status screening laboratory.

**HIGHER EDUCATION**

**GRADUATE COURSES**

**EDH 6061 THE JUNIOR COLLEGE IN AMERICAN HIGHER EDUCATION**

History of higher education, philosophical and cultural bases for definition of its role, and contemporary issues, such as control, financing, and curricular patterns. The place and problems of the community junior college will be central concerns of this course.
EDH 6938 SEMINAR IN COLLEGE TEACHING (5)
Implications of learning theory and student characteristics for teaching at the college level. Types of teaching procedures, innovation, evaluation, student freedom and responsibility for learning.

HUMANITIES EDUCATION

UNDERGRADUATE COURSES

HUM 4870 CURRENT TRENDS IN THE TEACHING OF HUMANITIES (4)
Curricular patterns, materials, and instructional practices in the teaching of humanities.

HUM 4909 DIRECTED STUDY: HUMANITIES EDUCATION (1-4)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

HUM 4936 SENIOR SEMINAR IN HUMANITIES EDUCATION (3)
PR: Senior standing. Synthesis of teacher candidate’s courses in complete college program. Required concurrently with internship.

HUM 4940 INTERNSHIP: HUMANITIES EDUCATION (1-12)
One full quarter 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 quarters, students will be registered for credit which accumulates from 9 to 12 quarter hours. (S/U only.)

INDUSTRIAL/TECHNICAL EDUCATION

UNDERGRADUATE COURSES

EIV 4314 METHODS OF TEACHING: DIVERSIFIED COOPERATIVE TRAINING (4)
Methods, techniques, and materials for instruction. This course specializes in Diversified Cooperative Training.

EVT 4364 METHODS OF TEACHING: INDUSTRIAL-TECHNICAL EDUCATION (4)
Methods, techniques, and materials for instruction.

EVT 4365 SPECIAL TEACHING METHODS: INDUSTRIAL-TECHNICAL EDUCATION (5)
Methods, techniques, and materials for skill development.

EVT 4367 ASSESSING STUDENT SKILL IN INDUSTRIAL-TECHNICAL EDUCATION (4)
Designed to give the participant an understanding of the importance of assessing student’s mastery of skills in industrial-technical education. Emphasis is placed on student skill assessment in performance based programs utilizing the criterion-referenced testing approach. The course focuses on specific competencies in several areas including developing and administering performance tests, monitoring student progress, and others.

EVT 4370 READING SKILLS IN ADULT AND VOCATIONAL EDUCATION (2)
PR: RED 4360, or CR in RED 4360. Students will study reading and communication skills as they relate to their particular content areas in Adult and Vocational-Technical Education. This course, along with RED 4360, satisfies State certification requirement pertaining to secondary reading.

EVT 4385 FACILITY DESIGN AND MANAGEMENT (4)
Design and develop instructional facility floor plans consistent with modern and efficient methods of instruction as well as evaluate existing classrooms, laboratories, and shops. Selection and location of equipment. Review and prepare operational plans for the management of equipment, furniture, tools, and supplies as they relate to effective student learning.

EVT 4905 INDEPENDENT STUDY: INDUSTRIAL-TECHNICAL EDUCATION (1-5)
PR: CI. Specialized independent study determined by the student’s needs and interests. May be repeated when subjects vary. (S/U only.)

EVT 4909 DIRECTED STUDY: INDUSTRIAL-TECHNICAL EDUCATION (1-4)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

EVT 4936 SENIOR SEMINAR IN INDUSTRIAL-TECHNICAL EDUCATION (3)
PR: Senior standing. Synthesis of teacher candidate’s courses in complete college program. Required concurrently with internship.

EVT 4940 INTERNSHIP: INDUSTRIAL-TECHNICAL EDUCATION (1-12)
One full quarter 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 quarters, students will be registered for credit which accumulates from 9 to 12 quarter hours. (S/U only.)

EVT 4945 SUPERVISED FIELD EXPERIENCE: BUSINESS EDUCATION (1-8)
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.

EVT 4946 SUPERVISED FIELD EXPERIENCE: INDUSTRIAL-TECHNICAL EDUCATION (1-8)
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.

GRADUATE COURSES

EIV 5315 PROGRAM MANAGEMENT: DIVERSIFIED COOPERATIVE TRAINING (4)
Organization, coordination, and budgeting of adult, cooperative, and special programs.
EVT 5176 CURRICULUM CONSTRUCTION: INDUSTRIAL-TECHNICAL EDUCATION (4)
Curriculum scope, the process of planning and organizing instructional programs with emphasis on task analysis and process evaluation.

EVT 5190 SCHOOL-COMMUNITY DEVELOPMENT (4)
An approach to identifying, assessing, and analyzing individual, institutional, and community needs, for the purpose of cooperative program planning, community involvement, and public support.

EVT 5280 OCCUPATIONAL SAFETY AND HEALTH (OSHA) (4)
Planning and organizing safety and health course content to be included in occupational education programs in Florida. Content to be identified in and selected from Federal Registers, Department of Labor, Occupational Safety and Health Standards.

EVT 5366 PREPARATION AND DEVELOPMENT FOR TEACHING (4)
The development of selected instructional materials, use of new educational media, performance evaluation instruments, and counseling techniques.

EVT 5817 PROGRAM MANAGEMENT: INDUSTRIAL-TECHNICAL EDUCATION (4)
Organization, co-ordination, and budgeting of adult, cooperative, and special programs.

EVT 6191 PLACEMENT OF SEVERELY HANDICAPPED PEOPLE (4)
A study of the purposes, methods, processes and procedures used to plan, implement and operate a Vocational Rehabilitation Cooperative School Counseling Program.

EVT 6300 INDIVIDUALIZED INSTRUCTION (4)
Attention is given to individualized instruction to include the special needs student, the slow learner, and the more capable student.

EVT 6385 ADMINISTRATION OF LOCAL PROGRAMS: VOCATIONAL EDUCATION (4)
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.

EVT 6386 SUPERVISION OF LOCAL PROGRAMS: VOCATIONAL EDUCATION (4)
PR: CI. 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.

EVT 6563 CURRENT TRENDS (4)
Historical information, issues, current trends, new dimensions and problems in the area of specialization.

EVT 6769 METHODS, PROCEDURES, AND PROCESSES OF VOCATIONAL EVALUATION (4)
A study of the purposes, methods, processes and procedures used to plan, implement and operate a vocational evaluation program.

EVT 6920 STAFF DEVELOPMENT (1-4)
Implementation of new procedures addressed to discreet developmental needs of the staff as identified by an educational agency.

EVT 6930 SEMINAR (4)
PR: EDG 6431 and EDG 6481. Applied research techniques and investigation of important current issues of theses in the area of specialization.

EVT 6948 PRACTICUM: INDUSTRIAL-TECHNICAL EDUCATION (4-8)
A problem-centered field study in the local community, school, government, office, social agency, business or industry.

EVT 7066 FOUNDATIONS AND PHILOSOPHY OF VOCATIONAL, TECHNICAL, AND ADULT EDUCATION (4)
PR: Preliminary admission to the advanced graduate program and/or CI. This course focuses on the historical development and contemporary philosophies, cultural bases and practices of Vocational, Technical and Adult Education.

EVT 7155 CAREER DEVELOPMENT IN VOCATIONAL, TECHNICAL, AND ADULT EDUCATION (4)
PR: Preliminary admission to the Graduate Program and CI. Course involves the development of a career model. The model will be designed to facilitate career development of students, articulate vocational education and career guidance; integrate the world of work with the world of education and involve students in the dissemination of career information and in the facilitation of career development.

EVT 7162 VOCATIONAL AND ADULT EDUCATION PROGRAM PLANNING AND IMPLEMENTATION (4)
PR: EVT 5176, Curriculum Construction, or equivalent. Designed to equip students with the knowledge and skills necessary to participate in the initial determination, planning, organization, and the implementation of new or expanded vocational and technical education programs.

EVT 7168 INSTRUCTIONAL DEVELOPMENT FOR VOCATIONAL, TECHNICAL, AND ADULT EDUCATION (4)
PR: EDG 5206 or CI. The course is designed to develop competencies in a systematic approach to vocational, technical, and adult education curriculum improvement and instructional development. Students will apply an instructional systems approach to the development of practical solutions to critical teaching and learning problems.

EVT 7760 RESEARCH SEMINAR IN VOCATIONAL, TECHNICAL, AND ADULT EDUCATION (4)
PR: Completion of program requirements in measurement and research or CI. Examination and critical evaluation of research in a particular specialization area of Vocational, Technical, or Adult Education. Preparation of an individual research prospectus. Available to majors only. Repeatable up to 8 credit hours.

LIBRARY, MEDIA, AND INFORMATION STUDIES

UNDERGRADUATE COURSES

LIS 2001 USE OF THE LIBRARY (2)
An introduction to the resources of the University of South Florida Library. Emphasis will be placed upon library materials germane to the course work of the undergraduate (S/U only.)

LIS 2010 PRODUCING AUDIOVISUAL MATERIALS (2)
PR: Upper level standing or CI. Provides basic skills in designing and preparing audiovisual materials for a wide variety of instructional and communicative purposes in accord with Florida's Essential Generc Competencies 10 and 12, as follows: (10) Select, adapt, and/or develop instructional materials for a given set of instructional objectives and student learning needs; and (12) Establish rapport with students in the classroom by using verbal and/or visual motivational devices.

LIS 4802 AUDIOVISUAL EQUIPMENT AND MATERIALS (2)
PR: Upper level standing or CI. Provides basic skills in selecting, presenting, and evaluating audiovisual programming in accord with Florida's Essential Generc Competencies Ten and Twelve, as follows: (10) Select, adapt, and/or develop instructional materials for a given set of instructional objectives and student learning needs; and (12) Establish rapport with students in the classroom by using verbal and/or visual motivational devices.

GRADUATE COURSES

COP 6242 COMPUTER PROGRAMMING FOR LIBRARIES AND INFORMATION CENTERS (4)
Programming of library-oriented computer applications using
LIS 5215 INSTRUCTIONAL GRAPHICS (4)  
PR: CL. Theoretical aspects, planning and production of instructional graphic material. The theory of graphic communications. Interpreting needs for instructional materials appropriate for given behavioral objectives.

LIS 5321 PREPARING SINGLE CONCEPT FILMS (4)  
PR: CL. Techniques and procedures in the preparation of educational films. Ascertaining concepts, script writing, graphics, lighting, filming, editing.

LIS 6202 TECHNIQUES FOR TEACHING UTILIZATION OF LIBRARIES AND MEDIA CENTERS  
Methods pertinent to work with users in all types of libraries.

LIS 6203 READING GUIDANCE PROGRAMS IN LIBRARIES AND CLASSROOMS  
Working with factors and forces influencing reading habits of children and youth; programs for teaching investigative and library skills; materials and methods for guidance of reading, listening and viewing.

LIS 6206 ADULT SERVICES IN LIBRARIES (4)  
PR: LIS 6250 or CL. Consideration of traditional and innovative services for adults in libraries with emphasis on public libraries and institutional libraries. Study of library community analysis and methods of planning and evaluation of groups, such as the aging, the institutionalized, the handicapped, students and faculty, and users of information about business and labor.

LIS 6225 STORYTELLING  
PR: C1 or LIS 6586. Building storytelling programs for school and public libraries or other educational institutions. Analysis of historical aspects, material suitable for use and audience reaction.

LIS 6260 INFORMATION SCIENCE IN LIBRARIANSHIP  
Historical overview of the emergence of information science as a discipline. The fundamental concepts of information retrieval systems and subsystems, related information technologies, and their applications to the field of librarianship.

LIS 6262 LIBRARY SYSTEMS PLANNING  
Application of systems planning and data processing technology to library files. Emphasis on analysis of selected library subsystems.

LIS 6263 SEMINAR IN LIBRARY AUTOMATION  
PR: LIS 6260. Seminar in library automation. Representative library automation projects and networks will be studied.

LIS 6271 RESEARCH METHODS IN LIBRARIANSHIP (4)  
Overview of present status of research in library and information science; introduction to research methods and their application to librarianship; designed to prepare students to plan, conduct, and evaluate research relating to the acquisition, classification, cataloging, retrieval, and dissemination of information. Open to both majors and non-majors in library-audiovisual education.

LIS 6312 PREPARING INSTRUCTIONAL MEDIA (4)  
Fundamentals of preparing and using audiovisuals as they relate to the communication process.

LIS 6409 INTRODUCTION TO LIBRARY ADMINISTRATION (4)  
Behavioral approach to planning, organizing, staffing and controlling libraries as organizations; identification of administrative principles, theories, and problems of all types of libraries; critical examination of methods of administration supporting library functions, programs, and services; fiscal and legal responsibilities of libraries.

LIS 6428 AUDIOVISUAL ADMINISTRATION (5)  
PR: LIS 6312 and LIS 6508 or CL. Audiovisual administrative practices in school systems and junior colleges.

LIS 6441 SEMINAR IN ACADEMIC LIBRARIES (4)  
PR: LIS 6409. Identification of problems and critical examination of methods in administrative areas of technical, student, and teaching staff services, fiscal and legal responsibilities, staff organization and supervision in academic libraries.

LIS 6445 SEMINAR IN PUBLIC LIBRARIES (4)  
PR: LIS 6409. Identification of problems and critical examination of methods in administrative areas of technical, children, and adult services, fiscal, and legal responsibilities, staff organization and supervision in public libraries.

LIS 6455 THE ORGANIZATION AND ADMINISTRATION OF THE SCHOOL MEDIA CENTER  
PR: General Program Requirements or C1. Media quarters, facilities and equipment. Basic principles of organization and administration of media programs in elementary and secondary schools.

LIS 6463 LIBRARY NETWORKS AND SYSTEMS (4)  
PR: LIS 6409 or LIS 6428 or LIS 6455. Development of library networks at the local, state, regional, and national levels with consideration of organization, administration, services, funding and legislation. Includes public library systems and networks, intrastate interlibrary cooperative networks, state library agencies and statewide library development: interstate cooperation, and the role of federal agencies in library development.

LIS 6472 SEMINAR IN SPECIAL LIBRARIES (4)  
PR: LIS 6409. Identification of problems and critical examination of methods in administrative areas of technical and special service clientele; fiscal and legal responsibilities, staff organization and services in special libraries.

LIS 6473 LAW LIBRARIANSHIP (4)  
PR: LIS 6608, LIS 6735, or CL. Course designed to give students an understanding of all aspects of law librarianship, including selection, acquisition, organization, and use of information resources of the law researcher. Emphasis on books, microforms, and computerized legal systems used for legal research, and on work products of lawyers.

LIS 6475 HEALTH SCIENCES LIBRARIANSHIP (4)  
PR: LIS 6260, LIS 6409, LIS 6608, LIS 6735, or CC. All aspects of health science librarianship, including administration, acquisition, organization, and use of information resources for persons in the health fields such as physicians, medical students, nursing students, allied health personnel and students, and researchers. Field trip may be required.

LIS 6506 AUDIOVISUAL UTILIZATION (4)  
Examination (and utilization) of non-print media. Characteristics of media equipment and paradigms of use.
LIS 6507 FOUNDATIONS OF EDUCATIONAL TECHNOLOGY
Traces historical development and the application of educational technology to school media services.

LIS 6508 THE CURRICULUM AND INSTRUCTIONAL TECHNOLOGY
Effective utilization of instructional materials as they relate to specific areas of the curriculum in elementary and high school programs.

LIS 6520 SELECTION OF LIBRARY MATERIALS
Bibliographical sources, evaluative criteria for books and principles of book selection for libraries.

LIS 6572 BOOKS AND RELATED MATERIALS FOR YOUNG ADULTS
Young adult materials for use in secondary school libraries, young adult sections of public libraries and other institutions serving youth. Equal emphasis upon 1) selection principles and bibliographical sources as well as upon 2) utilization in terms of service to the young adult.

LIS 6586 MATERIALS FOR CHILDREN
Examination of materials for all institutions in which children are served: school media centers, public libraries, kindergartens, etc. Stress on selection aids, reviewing techniques, utilization.

LIS 6605 ADVANCED INFORMATION SOURCES AND SERVICES
PR: LIS 6608. Reference materials in the humanities, social sciences, science and technology.

LIS 6606 BASIC INFORMATION SOURCES AND SERVICES
An in-depth examination of the basic sources of information in the general library; discussion of bibliographical control of all communication media, with emphasis on those tools which are of most value to general reference services; and the provision of various types of reference services.

LIS 6609 AUTOMATED INFORMATION SOURCES AND SERVICES
PR: Basic Information Sources and Services, Information Science in Librarianship or CI. Principles of on-line searching and characteristics of machine-readable bibliographic data bases. Includes two credit hours of laboratory providing hands-on searching experience. (S/U only.)

LIS 6610 INFORMATION SOURCES AND SERVICES IN THE HUMANITIES
PR: LIS 6608 or CI. Detailed consideration of the bibliographical and reference materials in the humanities with training and practice in their use for solving problems arising in the reference service.

LIS 6620 INFORMATION SOURCES AND SERVICES IN THE SOCIAL SCIENCES
PR: LIS 6608. Detailed consideration of the bibliographical and reference materials in the social sciences with training and practice in their use for solving problems arising in reference service.

LIS 6630 INFORMATION SOURCES AND SERVICES IN SCIENCE AND TECHNOLOGY
PR: LIS 6608 or CI. Study of representative reference sources in pure and applied sciences with equal attention given to typical problems encountered in scientific and technological reference service.

LIS 6633 NON-TRADITIONAL SCIENTIFIC INFORMATION MANAGEMENT
PR: LIS 6630 or CI. Explores alternatives to traditional systems of handling biological, pharmaceutical, medical, toxicological, environmental, as well as chemical information. Selected systems not based on words are studied. Topics include fragmentation schemes, connectivity tables, linear notations, and other new developments such as substructure searching, screening devices, direct input and composite systems.

LIS 6651 BOOKS AND RELATED MATERIALS OF LATIN AMERICAN COUNTRIES SUITABLE FOR CHILDREN AND YOUNG PEOPLE
Bibliographic sources, aids and tools for the selection and utilization of Latin American books and related materials suitable for children and young people. Examination of representative materials in terms of the basic principles and criteria of selection for libraries.

LIS 6661 GOVERNMENT DOCUMENTS
The nature of state, federal, United Nations, and international documents, their reference and research value; the techniques of acquisition, organization and reference use.

LIS 6724 CLASSIFICATION AND CATALOGING OF SERIALS AND NON-BOOK MATERIALS

LIS 6735 TECHNICAL SERVICES IN LIBRARIES
Principles of general library practice in technical services operations. Emphasis on descriptive cataloging and use of unabridged Dewey Decimal Classification.

LIS 6745 ADVANCED CATALOGING
PR: LIS 6735. Introduction to L.C. Classification System: changing policies and procedures in cataloging; and analysis of system.

LIS 6906 INDEPENDENT STUDY
PR: 20 hours earned in program and consent of adviser.

LIS 6946 SUPERVISED FIELD WORK
PR: CI. A minimum of 80 hours of supervised experience in an approved cooperating library, media center, or other approved agency during the student’s last quarter of studies. This includes practice work, seminar sessions, individual conferences, and a summary report interpreting and evaluating the field experience.

MATHEMATICS EDUCATION

UNDERGRADUATE COURSES

CAP 4100 COMPUTING DEVICES IN THE EDUCATIONAL PROCESS
PR: CI. This course will explore the use of minicalculators, programmable calculators, and microcomputers. Characteristics of computing devices, flow charting, programming, classroom management techniques, teaching materials, and applications will be discussed.

MAE 4320 TEACHING JUNIOR HIGH SCHOOL MATHEMATICS
PR: 24 quarter hours of mathematics or CC. Techniques and materials of instruction in junior high school mathematics.

MAE 4330 TEACHING SENIOR HIGH SCHOOL MATHEMATICS
PR: EDG 4200 or CR in EDG 4200 and admission to teacher education program in mathematics. Techniques and materials of instruction in mathematics.

MAE 4885 INTERPRETING MATHEMATICAL SYMBOLISM
PR: Reading in Secondary Content Areas, Teaching Senior High School Mathematics, or CR in Teaching Senior High School Mathematics. Methods of teaching students to read the language of mathematics.

MAE 4905 INDEPENDENT STUDY: MATHEMATICS EDUCATION
PR: CI. Specialized independent study determined by the student’s needs and interests. May be repeated when subjects vary. (S/U only.)

MAE 4909 DIRECTED STUDY: MATHEMATICS EDUCATION
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

MAE 4936 SENIOR SEMINAR IN MATHEMATICS EDUCATION
PR: Senior Standing. Synthesis of teacher candidate’s courses
in complete college program. Required concurrently with internship.

MAE 4940 INTERNSHIP: MATHEMATICS
EDUCATION (1-12)
One full quarter 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 quarters, students will be registered for credit which accumulates from 9 to 12 quarter hours. (S/U only.)

GRADUATE COURSES

MAE 5636C THE UTILIZATION OF LABORATORY
TECHNIQUES IN THE TEACHING OF
MATHEMATICS
PR: 18 quarter hours of mathematics or Cl. In this course students will make an examination of a variety of sample laboratory lessons along with methods for creating and evaluating such lessons.

MAE 6136 CURRENT TRENDS IN SECONDARY
MATHEMATICS EDUCATION
PR: MAE 4330 or Cl. Curricular patterns and instructional practices in secondary mathematics.

MAE 6337 TOPICS IN TEACHING ALGEBRA
PR: Undergraduate degree in mathematics or certification in secondary school mathematics. Topics in algebra, philosophy, new trends, and methods of teaching secondary school algebra. May be repeated for a maximum of five hours.

MAE 6338 TOPICS IN TEACHING GEOMETRY
PR: Undergraduate degree in mathematics or certification in secondary school mathematics. Topics in geometry, philosophy, new trends, and methods of teaching secondary school geometry. May be repeated for a maximum of five hours.

MAE 6356 TEACHING OF PRE-SECONDARY
SCHOOL MATHEMATICS
PR: 18 quarter hours of mathematics or Cl. Development of strategies and materials for teaching mathematical concepts and skills appropriate to pre-secondary school years. May be repeated for credit up to 15 hours.

MEASUREMENT-RESEARCH

UNDERGRADUATE COURSES

EDF 4400 ELEMENTARY DATA ANALYSIS
PR: EDF 4430. The application of graphic and statistical techniques to organize, simplify and summarize test performance, survey data, questionnaires and similar measures.

EDF 4430 BASIC CONCEPTS OF EDUCATIONAL
MEASUREMENT
PR: Senior or graduate standing. An introduction to the basic concepts of measurement in education, and the role of measurement in education.

EDF 4439 NON-COGNITIVE MEASURES IN
EDUCATION
PR: EDF 4430. The development, validation and application of instruments that can be used to measure performance, attitudes, preferences, values and temperament.

EDF 4440 TEACHER MADE TESTS: OBJECTIVE
EXAMS AND OTHER STRUCTURED RESPONSE
ASSESSMENTS
PR: EDF 4430. The planning, design and development of objective type tests for school courses. Emphasis will be on writing of test items that measure knowledge and the complex intellectual skills, and on procedures for evaluating the quality of individual questions and tests as a whole.

EDF 4445 CRITERION REFERENCED TESTS

EDF 4446 ESSAY EXAMS AND OTHER
FREE-RESPONSE ASSESSMENT PROCEDURES
PR: EDF 4430. Techniques of writing essay exams; techniques for eliciting a sample of student's work and writing for assessment purposes; appropriate use of unstructured tasks for student assessment; scoring methods for unstructured student responses.

EDF 4447 STANDARDIZED TESTS
PR: EDF 4430, EDF 4400. The procedures for distribution, uniform administration and interpretation of results for various standardized, norm-referenced, group tests in schools. Aptitude, achievement and non-cognitive tests are included.

EDF 4487 ASSESSMENT OF CLASSROOM
BEHAVIOR: STUDENT PERFORMANCE
PR: EDF 4430. The development of valid and reliable observational techniques and procedures to evaluate student's attainment of educational objectives.

GRADUATE COURSES

EDF 7407 STATISTICAL ANALYSIS FOR
EDUCATIONAL RESEARCH I
PR: Cl. Theory of and application of descriptive statistical procedures to problems in educational research: symbolization of data and statistical operations; tabulation and depiction of data; measures of central tendency and variability. Introduction to probability: Binomial Distribution; the normal probability distribution. Inferential statistics theory and application: t tests; confidence interval estimation; introduction to analysis of variance theory. Coordinated use of computer as data processing resource.

EDF 7408 STATISTICAL ANALYSIS FOR
EDUCATIONAL RESEARCH II
PR: EDF 7407 or Cl. Theory and application of inferential statistical procedures to problems in educational research: one-way analysis of variance; factorial analysis of variance; and multiple comparison procedures. Simple regression and correlation, and appropriate tests of significance. NON-parametric statistical inference. Coordinated use of computer as a data processing resource.

EDF 7409 STATISTICAL ANALYSIS FOR
EDUCATIONAL RESEARCH III
PR: EDF 7408 or Cl. Theory of and application of experimental design and linear modeling to problems in educational research. Multiple correlation and regression—a specific technique and a general approach to statistical inference (analysis of variance and co-variance). Elements of matrix algebra. Coordinated use of computer as a data processing resource.

EDF 7437 ADVANCED MEASUREMENT I
PR: EDF 7407 or equivalent and EDF 6431 or equivalent. A first advanced graduate course in the nature and theory of measurement. Alternative statistical theories of measurement. Logical, empirical, and statistical models of measurement processes. Measurement scales and levels of measurement. Reliability of educational measurement. Critique of commercially available instruments for measurements in education.

EDF 7438 ADVANCED MEASUREMENT II

EDF 7469 CRITICAL ISSUES IN EDUCATIONAL
MEASUREMENT AND EVALUATION
A consideration of major issues relevant to the theory and application of measurement and evaluation. Topics include: culture-fair testing, accountability, normative vs. criterion measures and socio-political issues.

EDF 7484 STATISTICAL ANALYSIS FOR
EDUCATIONAL RESEARCH IV
PR: EDF 7409 or Cl. Fundamentals and applications of the
following multivariate statistical procedures to problems in educational research: Commonality analysis, path analysis, factor analysis, canonical variate analysis, discriminant analysis. Use of packaged computer programs with various multivariate analysis procedures.

EDF 7485 EVALUATION IN EDUCATION: THEORY AND PRACTICE
PR: EDF 7408, EDF 7493 or CI. Application of evaluation theory and practice to the systematic study of problems and programs in education. Review and synthesis of students' prior knowledge. Update of most recent developments in evaluation. Development of a defensible, coherent approach to evaluation. Formal application of evaluation approach to an educational problem or program.

EDF 7488 APPLICATION OF COMPUTER LANGUAGE AND PROCEDURES IN EDUCATION
Development of understanding and technical skill in relation to computer and data processing approaches to solution of educational research, and administrative problems. Training in use of Fortran as a programming language.

EDF 7493 RESEARCH-BASED PLANNING EVALUATION AND DEVELOPMENT IN EDUCATION
Introduction to systematic planning and development procedures including needs assessment, proposal development, evaluation design and process engineering. Emphasis placed on analysis of evaluation models and theory.

EDF 7494 SYSTEMS APPROACHES IN EDUCATION

EDF 7940 PRACTICUM IN EDUCATIONAL PLANNING, EVALUATION, AND DEVELOPMENT
PR: EDF 7407, EDF 7408, EDF 7409, EDF 7493. Supervised practicum in which the student assumes major responsibility for a significant planning, evaluation, or development activity. May be repeated up to 12 credit hours. (S/U only.)

MENTAL RETARDATION EDUCATION

UNDERGRADUATE COURSES

EMR 3011 INTRODUCTION TO MENTAL RETARDATION
PR: EEX 3010. Introduction to the classification, diagnosis, characteristics, and treatment of the mentally retarded.

EMR 3800 UNDERGRADUATE SUPERVISED PRACTICUM IN MENTAL RETARDATION
PR: EMR 3011 and major in Mental Retardation. Supervised Practicum experiences in the educational, social and vocational programming for mentally retarded individuals. A one hour per week seminar is required concurrently.

EMR 4310 PROCEDURES AND MATERIALS FOR ELEMENTARY AGE EDUCABLE MENTALLY RETARDED CHILDREN
PR: EMR 3011, RED 4310, a current major in an Exceptional Child program, EMR 3800 either previously or concurrently. Special class organization, curriculum development, procedures and materials for elementary aged educable mentally retarded children.

EMR 4313 PROCEDURES AND MATERIALS FOR SECONDARY AGE EDUCABLE MENTALLY RETARDED YOUTH AND ADULTS
PR: EMR 3011 and Exceptional Child Education major. Special class organization, curriculum development, procedures and materials for secondary age educable mentally retarded youth and adults.

EMR 4321 EDUCATIONAL PROCEDURES FOR THE TRAINABLE MENTALLY RETARDED
PR: EMR 3011 and an Exceptional Child Education major. Special class organization, curriculum development, methods and techniques of teaching the trainable retarded.

EMR 4905 INDEPENDENT STUDY: MENTAL RETARDATION
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

EMR 4909 DIRECTED STUDY: MENTAL RETARDATION
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

EMR 4936 SENIOR SEMINAR IN MENTAL RETARDATION

EMR 4940 INTERNSHIP: MENTAL RETARDATION
One full quarter 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 quarters, students will be registered for credit which accumulates from 9 to 12 quarter hours. (S/U only.)

GRADUATE COURSES

EEX 6303 ADVANCED EDUCATIONAL PROCEDURES FOR THE MENTALLY RETARDED
PR: EMR 4310 or EMR 4321. Specific curriculum and methodological problems in teaching the retarded.

EMR 5012 THE SLOW LEARNER IN THE SCHOOL
Characteristics, needs and educational planning for the slow learning child. Appropriate for special class teachers and regular class teachers.

EMR 5803 GRADUATE SUPERVISED PRACTICUM IN MENTAL RETARDATION
Supervised graduate practicum encompassing teaching and supervising experiences in public school classes for the mentally retarded.

EMR 6932 BIOLOGICAL ASPECTS OF MENTAL RETARDATION
PR: EMR 3011 or CI. The contribution of biological factors towards the causation of mental deficiency; implications for casefinding, care, and education.

EMR 6934 SOCIOLOGICAL AND EDUCATIONAL ASPECTS OF MENTAL RETARDATION
PR: EEX 3010 or EEX 6936. Evaluation of relevant literature.

MUSIC EDUCATION

UNDERGRADUATE COURSES

MUE 2420 THEORETICAL BASES OF MUSIC EDUCATION
The course is designed to investigate music education practices in the schools. It provides the student with experiences and information early in his academic career which will enable him to determine his commitment to professional music education.

MUE 3411 CHORAL MATERIALS PRACTICUM
PR: CI. A study of choral materials in a laboratory setting, appropriate to elementary and secondary school music programs. Course content will change each quarter. May be repeated for a total of 3 credit hours.

MUE 3413 BAND MATERIALS PRACTICUM
PR: CI. A study of band materials, in a laboratory setting, appropriate to elementary and secondary school music programs. Course content will change each quarter. May be repeated for a total of 3 credit hours.

MUE 3414 ORCHESTRA MATERIALS PRACTICUM
PR: CI. A study of orchestra materials, in a laboratory setting, appropriate to elementary and secondary school music programs. Course content will change each quarter. May be repeated for a total of 3 credit hours.
MUE 4050 FOUNDATIONS OF INSTRUMENTAL MUSIC 
PR: CI. Junior standing. Introduction to the foundations of instrumental music instruction in the elementary and middle school.

MUE 4130 CLASSROOM MUSIC IN THE SECONDARY SCHOOL 
PR: CI. Development and implementation of methods and techniques for teaching music to the student not participating in secondary school music performing groups.

MUE 4314 MUSIC IN THE ELEMENTARY SCHOOL 
A study of principles, techniques, materials, and activities as they relate to a comprehensive music curriculum in Grades K-6.

MUE 4331 CHORAL METHODS IN THE SECONDARY SCHOOL 

MUE 4332 INSTRUMENTAL MUSIC IN THE SECONDARY SCHOOL 

MUE 4480 BAND PAGEANTRY 
This course is designed as an elective offering for instrumental music majors who expect to direct band activities in a secondary school. It will provide the student with skills in creating half-time shows, an integral part of the band teacher's responsibilities.

MUE 4905 INDEPENDENT STUDY: MUSIC EDUCATION 
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

MUE 4909 DIRECTED STUDY: MUSIC EDUCATION 
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

MUE 4936 SENIOR SEMINAR IN MUSIC EDUCATION 

MUE 4940 INTERNSHIP: MUSIC EDUCATION 
One full quarter 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 quarters, students will be registered for credit which accumulates from 9 to 12 quarter hours. (S/U only.)

GRADUATE COURSES

MUE 6080 FOUNDATIONS AND PRINCIPLES OF MUSIC EDUCATION 
PR: Acceptance into Music Education Graduate Program or CI. Investigation of historical, philosophical and psychological foundations of music education.

MUE 6116 ADVANCED ELEMENTARY SCHOOL MUSIC 
PR: Acceptance in the Music Education Graduate Program or CI. Study and appraisal of children's musical growth, curriculum plans, materials and teaching techniques essential for the sequential development of musical learnings.

MUE 6189 MUSIC SUPERVISION AND ADMINISTRATION 
The music curriculum in relation to the total school program; staff and budgetary needs.

MUE 6415 ADVANCED SECONDARY VOCAL MUSIC 
PR: Acceptance in the Music Education Graduate Program or CI. Course provides for graduate students in music education the opportunity to examine current research related to the teaching of secondary school vocal music, evaluate curricula, music materials, and teaching methods that will enable them to develop a vocal music program which emphasizes musical sensitivity.

MUE 6418 ADVANCED MATERIALS FOR INSTRUMENTAL MUSIC EDUCATION 
PR: Acceptance in the Music Education Graduate Program and CI. Course designed to examine published and unpublished materials, develop curricula and resources, including media hardware, appropriate for use in school instrumental music programs.

MUE 6495 INSTRUMENTAL CONDUCTING IN THE SECONDARY SCHOOLS 
PR: Acceptance in the Music Education Graduate Program or CI. Course designed to develop essential conducting competencies required of a choral music director in the secondary schools.

MUE 6640 CURRENT TRENDS IN SCHOOL MUSIC 
PR: Graduate Standing. New materials, equipment, techniques of teaching and recent historical trends applicable to Music programs K-12. Noting both similarities and unique characteristics in vocal and instrumental curriculum practices in music programs K-12.

MUE 6780 TECHNIQUES OF RESEARCH IN MUSIC EDUCATION 
Professional bibliography and individual research projects.

PHYSICAL EDUCATION FOR TEACHERS

UNDERGRADUATE COURSES

HES 2400 FIRST AID 
Meets the American Red Cross certification requirements in standard and advanced first aid.

LEI 4007 COMMUNITY RECREATION 
Introduction to recreational outlets in the community and the administrative problems confronting recreational playground leaders and directors of community recreational programs. Offered on Independent Study basis only.

PEL 4942C SEMINAR AND FIELD EXPERIENCE IN PHYSICAL EDUCATION 
PR: PET 3944C. A three course experience involving supervised teaching experiences at the secondary school level. On-campus seminars emphasize: development of junior and senior high school students; the process of individualization; structuring meaningful learning experiences in the psychomotor, cognitive, and affective domains.

PEP 3205C MOVEMENT EDUCATION THEORY AND APPLICATION III 
The application of principles of space, time, force, and flow of human movement to the development of children through gymnastics. The biomechanical aspects of performance are also analyzed. Open to program majors only.

PEQ 3101C AQUATICS 
PR: Red Cross beginning swimmer's skills, or equivalent. Includes analysis and methodology of teaching swimming skills, conducting class activities, and the organization and conducting of aquatic programs in the school and the community.

PET 3001C INDIVIDUAL ASSESSMENT 
A personal evaluation of various factors related to the effective teaching of physical education. An individual profile that can be used for counseling purposes will be the final product of this course.