Requirements for the M.A. Degree in Speech Communication/Education (SPH):

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

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

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

Course Sequence: Process Core: SED 4371, SED 6070, and SED 6670, SED 4374 and RED 4360, at least five courses in the Department of Communication including COM 6001, courses in rhetoric and/or communication, courses in oral interpretation; and EDG 6947. Candidates must complete a comprehensive examination successfully.

Requirements for the Ed.S. degree in Communication Ed.S. Education:

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

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

I. Curriculum, Supervision, and Related Areas
II. Evaluation/Research
III. Speciality in Communication and Education
   A. Content Area Courses other than prior specialization
   B. Communication Education courses with primary emphasis in areas other than prior specialization

C. Ed.S. Project 9 hours

Minimum Hours Required: 36

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

Requirements for the Ph.D. Degree:

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

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

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

I. Educational Foundations
II. Statistics/Measurement/Research Design
III. Specialization/Major:
   A. Content Area Courses
   B. Communication Education Courses
IV. Dissertation
V. Cognate Area
VI. Language/Computer Science/Personal Proficiency (no credit)

Minimum Hours Required: 67 hours

In addition to admission requirements specified under University and College requirements, each candidate must have completed two years of full-time teaching experience.

Interested candidates should contact: Coordinator of Ph.D./Ed.S. Programs, Communication Education, Department of Social Science and Letters Education, College of Education University of South Florida, Tampa, Florida 33620.
Have you ever felt you would like to be the “somebody” who will do “something” about the many problems we face? Our modern society requires new, practical solutions to its many complex technological problems. Spearheading this action will be the engineer and the engineering profession. The engineer, as always, will continue to be responsible for and obliged to use his/her knowledge for the benefit of mankind.

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

The programs offered by the College of Engineering to meet the diverse requirements of the future can be broadly divided into three areas: Professional Engineering, Applied Science, and Technology. The degrees and services associated with these areas are as follows:

**Professional Engineering Degree Programs**
- Bachelor of Science in Engineering degree (Professional Program)—various options (programs) in:
  - Chemical Engineering
  - Electrical Engineering
  - Industrial Engineering
  - Mechanical Engineering
  - Structures, Materials, and Fluids
  - General Engineering
- Master of Science in Engineering degree (Thesis or project)
- Master of Science in Designated Engineering Field degree (Thesis optional)
- Master of Engineering degree (Non-Thesis)

**Applied Science Degree Programs**
- Bachelor of Science in Engineering Science degree—

**Computer Science Options (programs)**
- Bachelor of Science in Engineering Science degree—other options
- Master of Science in Engineering Science degree—
  - Computer Science
- Master of Science in Engineering Science degree—other areas
- Doctor of Philosophy degree in Engineering Science Technology Degree Program
- Bachelor of Engineering Technology degree

**Computer Service Courses (Undergraduate and Graduate)**

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

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

Students interested in particular programs offered by the College of Engineering should direct their inquiries to the College of Engineering marked for the attention of the following:

**Contact**
- Specific department or Office of the Dean
- Director of Engineering Technology
- Department of Industrial and Management Systems Engineering

**PROFESSIONAL ENGINEERING**

The Engineering programs of the college have been developed with an emphasis on three broad aspects of engineering activity—design, research, and the operation of complex technological systems. Students who are interested in advanced design or research should pursue the Five-Year Program leading to the Master of Science in Engineering degree. Other students interested more in operational responsibilities may wish to terminate their initial engineering education at the baccalaureate level. For this purpose a Bachelor of Science in Engineering degree is offered which provides the student a broad education with sufficient technical background to effectively contribute in many phases of Engineering not requiring the depth of knowledge needed for advanced design or research.

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

While the baccalaureate degree is considered the minimum educational experience for participating in the Engineering profession, and as such is the first professional degree, students are strongly encouraged to pursue advanced work beyond the baccalaureate either at this or other institutions. It is becoming increasingly evident that a large segment of today's engineering profession is involved in some form of post baccalaureate study. Engineers are earning advanced degrees in ever increasing numbers in order to obtain the information and training necessary to meet tomorrow's technological challenges. All are faced with the continuing problem of refurbishing and updating their information skills and most are obtaining advanced information by means of formal graduate study, seminars, special institutes and other such systems designed for this purpose.

The Bachelor of Science in Engineering degree program, which requires 136 semester hours, and the five year program leading to the Master of Science in Engineering degree, which is an integrated program of 166 semester hours, are the programs specifically designed to prepare an individual for a professional career as an engineer. Both programs have as their foundations a 104 semester hour core of subject material encompassing Humanities, Social Science, Mathematics, Science, and Engineering which is required of all students. In addition to the core subject material each student will
complete a specialization option under the direction of one of the administrative departments of the college. Those options which are available and the administrative unit responsible for the options are as follows:

**Option (program)**  
**Department**  
General Engineering  
Chemical Engineering  
Electrical Engineering  
Industrial Engineering  
Mechanical Engineering  
Structures, Materials, & Fluids  

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

**Preparation for Engineering**

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

Prospective students considering engineering at the University of South Florida who lack certain preparation in high school should elect to follow a program which will assist them in overcoming their deficiencies. One alternative might be that such a student select a summer program at the University of South Florida to update knowledge in mathematics and the physical sciences. Another alternative might be for the prospective Engineering student to take some remedial work and a less accelerated program at the University of South Florida. Students may wish to avail themselves of the state's system of junior/community colleges which offer a wide range of remedial course work, and many of which also offer full programs in pre-engineering (first two years' course work.) The University of South Florida offers all required pre-engineering courses every semester. Therefore, every student can start the program at that point where his/her prior education terminated, and can proceed from that point at a rate consistent with the student's capability and time availability.

Junior/community college students planning to transfer to the University of South Florida's engineering program at the junior level from a State of Florida operated college or university should follow a pre-engineering program leading to an A.A. degree. All transfer students should complete as much of the mathematics, science and engineering core course work as is available to them. Transfer students should be aware that the college expects them to meet the college regulations listed on pages 103-104, just as it expects its own students to meet these requirements. The University's College of Engineering is available to assist junior/community colleges in the development of course material and in the training of staff for their offering of applicable core pre-engineering course work. Junior/community college transfer students should note that in addition to freshman and sophomore level courses, all required junior level courses are given each semester thus permitting full continuity in studies for the student at all times.

The College of Engineering can assist students who are planning to obtain an Engineering degree from the University of South Florida and who have started their studies elsewhere in formulating a sound total program. Interested students should contact the Dean's Office furnishing sufficient detail to permit meaningful response.

**Admission to the College**

Freshmen and transfer students may elect to enter the College of Engineering's professional engineering program upon initial entry into the University by declaring the Bachelor of Science in Engineering degree program as their major. If not declared on initial entry, a student can at any time declare his/her intent to pursue the Bachelor of Science in Engineering degree program by applying in person in the Advising Office of the college.

To qualify for admission a student must have been accepted by the University as a degree-seeking student, must be in good academic standing, and must be otherwise acceptable to the college. Additional requirements are invoked by the college to limit enrollment to a level which is compatible with available resources. For information on these supplementary admissions requirements contact the Office of the Dean, College of Engineering.

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

Potential engineering students should note that the critical course structure of the engineering program makes it desirable to enter the program as soon as the interest in and potential ability for engineering is recognized. Students should note that the characteristics of the engineering program do not require an identification of the area of engineering specialization (option) at the time of declaring engineering as a major. Students need to make this decision no later than their junior year.

Engineering coursework identified as 3000 level or higher is considered professional level work and students enrolling for this work must have been admitted to the college or have received prior permission from the Office of the Dean or the department chairperson responsible for the coursework.

**Engineering Advising**

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

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

Students who have made a decision regarding the engineering option they plan to follow may be assigned a faculty adviser in the department corresponding to their interest. Students who have decided to follow a program of engineering studies but who are undecided on the specialty are advised in the Dean's Office.

The student and adviser jointly work out a plan of study which meets both the student's career objectives and the College of Engineering's degree requirements. A student may change advisers with the concurrence of the new adviser and the Dean's Office. The advisers maintain the College of Engineering's student records. A student transferring within the University normally starts the process to change majors in the advising office of the college where the old major is housed.

While the College provides advising services to assist students with academic planning, the responsibility for seeing that all graduation requirements are met rests with the students.

**Departments & Programs**

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

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

Civil Engineering and Mechanics:

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

Computer Science and Engineering

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

The department operates microprocessor laboratories equipped with modern micro-computers some of which form networks. The department also operates a graphics laboratory equipped with modern storage devices and a substantial number of graphics-oriented personal computers. A PRIME 750 medium-scale computer is used to support several software-related courses. The PRIME computer also functions as a node of a college-wide network of micro-computers some of which form networks.

Electrical Engineering

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

Industrial and Management Systems Engineering

This department offers study pertinent to the design, evaluation and operation of a variety of industrial systems ranging from the analysis of public systems to the operation of manufacturing plants. Topics include production control, inventory control, data processing systems design, statistics and operations research models. The department administers the Industrial Engineering Option (program) of the Bachelor of Science in Engineering (B.S.E.) degree program, as well as the Master of Science in Industrial Engineering (M.S.I.E.) and the Master of Science in Engineering Management (M.S.E.M.) programs. Evening graduate programs are available. As applicable, the department administers the M.S.E., M.E., M.S.E.S. and the Ph.D. program. The department also instructs students in Computer Service courses offered by the University of South Florida.

Engineering Core

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

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

- Social Science and Humanities Core
  - Social Science and Humanities Core (including communication skills)
  - Mathematics and Science Core
  - Engineering Core

Special requirements exist for the Chemical Engineering option (program). Students selecting this field should make sure they familiarize themselves with these. Detailed information can be obtained from the Chemical and Mechanical Engineering department or the college's Advising Office.

1. Social Science and Humanities Core Requirements (31 credit hours)

Prospective Engineering majors must take 6 credit hours of Freshman English (ENC 1102, 1135).

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

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

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

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

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

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

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

In science the course work consists of one year of General Chemistry and one year of Physics (with calculus), and 3 hours of advanced science supportive of the student's area of specialization (option). Chemical option students should contact their department for special advanced chemistry requirements in this area.

Students whose high school preparation is insufficient to enter the Calculus for Engineers and/or the General Chemistry sequence are required to take supplementary mathematical algebra and trigonometry and/or chemical foundation course work prior to acceptance into the College.

3. Engineering Core Requirements (38 credit hours minimum)

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

All but 6 credit hours of the engineering core are common to all areas of specialization (option) of the Bachelor of Science in Engineering program. The remaining 6 credit hours of course work must be chosen with concurrence of the departmental adviser to fit the option selection of the student. Details on this selection are available in the departmental office of the option selected, or in the college's Advising Office.

104 COLLEGE OF ENGINEERING

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

The Bachelor of Science in Engineering degree is awarded upon successful completion of a program consisting of the required three areas of core course work—minimum of 104 credit hours—which is described above, and an additional 32 credit hours of course work in a designated area of specialization (option). Details covering the options are available on request from the responsible department, or from the college's Advising Office.

Options are offered in the following disciplines of engineering.

1. General Option (32 credit hours)

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

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

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

2. Option in Chemical Engineering (32 credit hours)

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

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

3. Options in Computer Science and Engineering

For information on BSES degree options see page 108.

4. Option in Electrical Engineering (32 credit hours)

Students pursuing the Electrical Engineering Option take designated, specialized course work in network analysis, electronics, communications, electromagnetic theory, linear system and control system analysis, and microelectronics. This course work is supplemented by electives in logic, sequential circuits, digital system design and microprocessors; distributed networks and UHF principles; and/or electromechanics and power system analysis. Students must also complete a Design Project prior to graduation. Students completing this option normally pursue industrial careers in the power, electrical, electronic, or information industries or in related governmental laboratories and public service agencies. The electrical graduate may apply his/her knowledge to such diverse areas as television, communications, remote guidance, sensing (of people, vehicles, weather, crops, etc.), automation, computer and information systems, electric power generation and transmission, electrically propelled transportation, etc. The graduate may do this by performing needed engineering functions related to the research and development (often requires also an advanced degree), design, production, operation, sales, or management of these products/services.

5. Option in Industrial Engineering (32 credit hours)

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

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

6. Option in Mechanical Engineering (32 credit hours)

Students pursuing the Mechanical Engineering Option take designated, specialized course work in thermodynamics and heat transfer; physical measurements and energy conversion; machine analysis and design; mechanical design and controls; and fluid machinery. This is supplemented by elective coursework in such areas as power plant analysis, nuclear and reactor engineering.
Students completing this option normally enter careers as design, consulting, research and development, or sales engineers in a wide range of industries which either turn out mechanical products or rely on mechanical machines, devices and systems for their production. Thus, mechanical graduates may follow careers in such fields as transportation, power generation and conversion, instrumentation, automatic control, machine design and construction, refrigeration, heating, and air conditioning. These opportunities occur in many industries because mechanical processes are required for most industrial production.

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

Students pursuing the Structures, Materials and Fluids Option take designated coursework in solid mechanics, stress analysis, and structures; materials; fluid mechanics; water resources; engineering analysis applied to this discipline and a senior research/design project from the Department of Civil Engineering and Mechanics. This course work is supplemented by courses in one of the following areas of concentration, plus electives.


b. Structural Engineering concentration—courses in structural analysis design, composite structures, connecting matrix and computer techniques.

c. Water Resources concentration—courses in water resources, hydrology, and urban water systems.

Students completing this option enter careers as engineers in the civil, structural, sanitary, environmental, hydraulics, materials, engineering mechanics, aeronautical, etc. disciplines. All of these fields share the need for knowledge in the areas of engineering mechanics, civil engineering, and materials science. Through choice of the proper area of concentration the student has the opportunity to channel his academic studies specifically towards his/her career choice. Structures, Materials and Fluids students commence their engineering careers in either industry, with engineering consulting firms, or in public service at the federal, state or local level. Initial assignments include planning, design and implementation of water resources, transportation and housing systems; regional planning, design and management for abatement of air, water and solid waste pollution problems; research and development of new materials, material processes and testing procedures; design of bridges, single and multistory structures; supervision of construction projects.

8. Other Options (32 credit hours)

Students should recognize that the title of an academic program to prepare for a specific engineering career may differ from the career title. The USF option titles are descriptive of the academic discipline the option draws on. The field of engineering application frequently is used in describing engineering career titles. The following table may help prospective students to identify the desired USF option.

<table>
<thead>
<tr>
<th>Aerospace</th>
<th>Electrical Engineering, Mechanical Engineering, or Structures, Materials &amp; Fluids</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biomedical</td>
<td>Usually Electrical Engineering (should plan on graduate studies)</td>
</tr>
<tr>
<td>Civil</td>
<td>Structures, Materials and Fluids</td>
</tr>
<tr>
<td>Environmental</td>
<td>Structures, Materials and Fluids</td>
</tr>
<tr>
<td>Ocean</td>
<td>Structures, Materials and Fluids</td>
</tr>
<tr>
<td>Petroleum</td>
<td>Chemical Engineering</td>
</tr>
<tr>
<td>Solar Energy</td>
<td>Mechanical Engineering</td>
</tr>
</tbody>
</table>

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

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

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

College Regulations

1. Humanities and Social Science Requirements

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

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

2. English Requirement

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

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

3. Mathematics Requirement

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

4. Continuation Requirements

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

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

Students pursuing an engineering degree program are expected to take their courses on a graded (ABCD/F) basis. (Exceptions are required courses not available on a graded basis.)

Students receiving "I" grades must remove this deficiency at the first opportunity in accordance with a written agreement between student and instructor.

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

5. Requirements for Graduation

In addition to the completion of the course work and/or project requirements of the respective programs of the college, students must be recommended for their degrees by the faculty of the college. It is expected that students completing their master's program would have completed their advanced work with a minimum average of 3.0 or "B". Students attempting but not completing their master's requirements through the 5 year Masters degree program may elect to request the awarding of the bachelor's degree, provided they have met the degree's requirements.

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

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

Engineering Master's Degree Programs

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

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

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

Entrance Requirements

1. A baccalaureate degree in Engineering from an approved institution is required. Degrees in Mathematics, Physics, Chemistry and other fields may be accepted on an individual basis to meet this requirement. In such cases it is probable that supplemental remedial work in engineering will be necessary.

2. A minimum total score of 1000 on the verbal and quantitative portions of the Graduate Record Examination and/or a minimum grade point average of 3.0 out of a possible 4.0 for all work attempted during the last two years of undergraduate work is required.

3. Those who do not meet the regular entrance requirements may attempt a trial program as a Special (non-degree seeking) Student. Up to 12 hours of work attempted on this basis may be accepted into a graduate program upon satisfactory completion. Before attempting such a trial program the student should determine from the departmental adviser a list of courses and performance criteria for admission.

Program Requirements

1. A minimum of 30 credits of approved course work is required.

2. An overall grade point average of 3.0 is required for all work attempted in the program. No grade below "C" may be accepted in a graduate program. In the event that a student's average drops below 3.0 the student will be placed on a probationary status and must obtain a directed program from his/her adviser approved by the Dean, prior to continuing course work toward the degree.

3. All students are required to pass a final comprehensive examination which may be written or oral prior to awarding the degree. These examinations are arranged and administered by the student's graduate committee.

4. Students in this program must complete a design or research project on which up to 6 credits may be used to fulfill degree requirements. The course titled "Masters Thesis" in the student's department is to be used.

5. If a thesis is submitted it must be in accordance with the Handbook for Graduate Theses and Dissertations, University Graduate Council. For design projects a comprehensive report must be filed with the Office of the Dean of Engineering following, where practical, the guidelines of the handbook.

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

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

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

Program Department
Master of Science in Chemical Engineering (MCH) Chemical & Mechanical Engineering
Master of Science in Civil Engineering (MCI) Civil Engineering & Mechanics
Master of Science in Electrical Engineering (MEE) Electrical Engineering
Master of Science in Engineering Management (MMA) Industrial & Management Systems Engineering
Master of Science in Industrial Engineering (MIN) Industrial & Management Systems Engineering
Master of Science in Mechanical Engineering (MME) Chemical & Mechanical Engineering

Entrance Requirements

Entrance requirements for this program are the same as those for the Post-Baccalaureate Master of Science in Engineering undesignated degree program.

Program Requirements

1. A minimum of 30 credits of approved course work is required.

2. An overall grade point average of 3.0 is required for all work attempted in the program. No grade below "C" may be accepted
in a graduate program. In the event that a student’s average drops below 3.0 the student will be placed on a probationary status and must obtain a directed program from his/her adviser approved by the Dean, prior to continuing course work toward the degree.

3. All students are required to pass a final comprehensive examination which may be written or oral prior to awarding the degree. These examinations are arranged and administered by the student’s graduate committee.

4. Students in this program may have to complete a design or research project when invoked by the department on which up to 6 credits may be used to fulfill degree requirements. The course titled “Masters Thesis” in the student’s department is to be used.

5. If a thesis is submitted it must be in accordance with the Handbook for Graduate Theses and Dissertations, University Graduate Council. For design projects a comprehensive report must be filed with the Office of the Dean of Engineering following, where practical, the guidelines of the handbook. Students working on design and research projects must register for a minimum of 2 credits of the course titled “Masters Thesis” in the student’s department each semester the staff, facilities, and laboratories of the University are used whether or not the student has accumulated the maximum credit allowed for research or design toward the degree. These students must register for 2 credits of the course titled “Masters Thesis” in the student’s department during the semester in which they submit their thesis or project report.

MASTER OF ENGINEERING DEGREE PROGRAM (EGM)

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

Entrance Requirements

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

Program Requirements

1. A minimum of 30 credits of approved course work is required.

2. Students must maintain overall grade point average of 3.0 out of possible 4.0. No grade below “C” will be accepted in a graduate program. In the event that a student’s average falls below 3.0 the student will be placed on probationary status and must obtain a directed program from his/her adviser and approved by the Dean prior to continuing further course work toward the degree.

3. All students are required to pass a final comprehensive examination which may be written or oral prior to awarding the degree. These examinations are arranged and administered by the student’s department.

4. Students in this program must register for and take a comprehensive examination during the semester in which they apply for the degree. This credit may not be used as part of the course work requirement. Contact department for details.

THE ENGINEERING FIVE-YEAR MASTER’S DEGREE PROGRAM (EGM)

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

Entrance Requirements

1. Students who have senior standing (90 credits) with at least 16 credits completed at the University of South Florida in the engineering curriculum may apply for admission to the Five-Year Program.

2. A minimum total score of 1000 on the verbal and quantitative portions of the Graduate Record Examination is expected.

3. Above-average performance in the engineering program is expected.

Students apply for admission to this program through their department. They should consult their adviser when they need additional information.

Program Requirements

1. A minimum of 166 credits of approved course work must be completed. Of this total 104 credits must comprise the engineering central core with an additional 62 credits of specialization. A maximum of 12 credits may be allowed for design and research.

2. Students admitted to the five-year program are expected to maintain a superior level of academic performance. A 3.0 out of a possible 4.0 grade point average is expected in the courses in the student’s graduate course of study. A student in the Five-Year Program who fails to maintain the required academic standards will be placed on probation. Failure to comply with the terms of the probation will result in the student being dropped from the program.

3. Students in this program must complete a design or research project of which up to 6 credits of 4000 level project course work of appropriate departmental prefix and up to 6 credits of the course titled “Masters Thesis” in the student’s department may be used to fulfill degree requirements.

4. If a thesis is submitted it must be in accordance with the Handbook for Graduate Theses and Dissertations, University Graduate Council. For design projects a comprehensive report must be filed with the Office of the Dean of Engineering, following where practical the guidelines of the handbook.

5. All students are required to pass a final comprehensive examination which may be written or oral prior to awarding the degree. These examinations are arranged and administered by the student’s graduate committee.

APPLIED SCIENCE (ENGINEERING)

Degree programs in Engineering Science are offered by the College of Engineering which are designed for students who wish to obtain a strong technical background coupled with other interests.

Engineering Science is an applied science discipline which relates to new and innovative areas of endeavor at the frontiers of technological development and research. It represents a marriage between basic science and its utilization in such varied fields as computer science, biology, social and environmental sciences, applied mathematics, bio-medical engineering, ocean engineering, and energetics. The common denominator to this wide range of subjects is a strong foundation in rigorous scientific and engineering principles and practices.

This training provides a most desirable background for graduate study in the areas of concentration mentioned and in other professional areas such as law, medicine, and business.

Preparation for Engineering Science

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

Admission to Engineering Science

Admissions requirements and procedures are the same as for Engineering.
Engineering Science Advising

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

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

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

The Computer Science and Engineering department offers three degree-oriented options within the general area of computers: 1) a computer engineering option which emphasizes design and utilization of computers, 2) a computer science option, which deals with basic and formal aspects of computation and 3) an information systems option which emphasizes application and data processing aspects of this field. Unlike other BSES options the degree requirements for these options are 136 semester hours. Courses range from studies in software engineering, programming languages, data structures, data base systems, operating systems, and systems analysis to the analysis of computer architecture and organization, logic design, automata theory, distributed computing, microprocessors and reliability considerations. Finally a number of specialized electives allows concentration on applications of computers to a variety of activities such as scientific computation, computer-aided design, business systems, biomedical research, and pattern recognition.

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

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

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

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

Baccalaureate Requirements (minimum 120 credit hours)

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

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

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

Other Requirements for Engineering Science

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

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

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

1. A two-year research 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 (90 credits) with at least 16 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 30 credit hours) for this degree are essentially the same as those itemized for the Engineering Master's Degree Programs, page 107.

To meet the student's specific Engineering Science objectives, each department, or 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 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 ABET (formerly ECPD) accredited program may be required to show proficiency in areas of the undergraduate Engineering Sciences designated by the department or departments associated with the applicant's research area. An area of concentration is defined as a coherent group of engineering studies but not necessarily located within a single department.

**Program Requirements**

1. An adviser or an advisory committee will be appointed by the chairman of the appropriate department or program for each student during the first semester of registration at the University of South Florida. This adviser or committee will assist in determining the student's area of research interest and to initially delineate preliminary course 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 90 semester hours minimum beyond the baccalaureate degree (including dissertation research) is required with a minimum of 27 hours in an engineering area of concentration. The 27 hours may not necessarily be course work of the same department but must focus directly upon the area of concentration and at least 20 hours must be at the 6000 level. A minimum of 8 hours of mathematics or statistics is required. Engineering mathematics may be approved by the committee if appropriate. In addition, a minimum of 8 hours of course work as defined by the committee outside the major area of concentration is also required. This may include natural sciences, earth sciences, social sciences, additional statistics, or approved support in other areas of engineering. Further requirements may be imposed by the candidate's committee. At least 8 hours of course work must be taken outside the major department, if there is a major department.
3. A reading knowledge of two foreign languages. Competence in a computer language may be substituted for one of these when approved by the supervisory committee.
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 prepared 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) 24 semester hours in one calendar year or (2) 30 semester hours in no more than 4 semesters 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 20 semester 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 technology areas. The program normally provides for two years (60 min. credit hours) of study at the University of South Florida following two years (60 credit hours) of successful study in an engineering technology program which has led to an Associate of Science degree. Many 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 have gained a well-rounded background concentrated in the following areas: Engineering Technology, Mathematics and Science, Liberal Arts and Social Science, and Management and the
area of Computers. A student who has completed this program should be adequately prepared to assume career responsibilities in technical, technical supervisory, or technical executive positions. Prospective students should note, however, that this program is not intended to be an engineering program. Rather, its function is to bridge the gap between design or research professional engineers, technicians and management. It is for this reason that the program consists of a balance of course work in technical management, and Liberal Arts and Social Science areas.

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

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

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

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

- Computer Systems Technology
- 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 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 40 additional semester 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.

**Other Requirements**

The following supplemental requirements listed on page 103 are applicable to this program.

- **English Requirement**
- **Mathematics Requirement**
- **Continuation Requirement**

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

In addition to the completion of the course work 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 where possible in locating housing.

**COMPUTER SERVICE COURSES**

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

Recognizing that the general purpose digital computer has made significant contributions to the advancement of all elements of the academic community and that it will have an 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.

**OTHER COLLEGE INFORMATION**

**College Facilities**

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

Cooperative Education Program

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

Florida Engineering and Industrial Experiment Station (USF)

The Florida Engineering and Industrial Experiment Station developed from early research activities of the engineering faculty at the University of Florida and was officially established in 1941 by the Legislature. Its mandate is to "organize and promote the prosecution of research projects of engineering and related sciences with special reference to such of these problems as are important to the industries of Florida." In 1977 the University of Florida extended the provisions of the Engineering and Industrial Experiment Station to the Engineering College of the University of South Florida and the other two State engineering colleges. The legislature supported this extension with an appropriation. The four colleges of engineering now work together in a joint effort through EIES to assist industry with special problems that can be appropriately solved by engineering colleges. During the year 1980-81 a sponsored research volume of approximately 1.1 million dollars passed through EIES (USF). All departments, faculty as well as students, contribute to this research at the University of South Florida. The direct exposure of students to real research needs of the State adds extra meaning and depth to the engineering education offered by the college.

Florida—NASA State Technology Applications Center (STAC)

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

STAC offers rapid access to more than 10 million modern published articles related to almost every field of human endeavor and thus provides information to help solve vexing problems at significant savings in man hours and money. This service is a bright new resource for Florida business and industry. Just a short decade ago this concept would not have been feasible. Through perseverance the computer minded community developed a remarkable system of "key wording" information which is stored in the memories of computers. Using these "key words", the computer locates pertinent and required publications, at times far removed from the subject matter in question—titles that may be passed over in the usual library investigation. STAC charges a minimal fee for its search since its operation is partially supported through NASA and State funds. The STAC Office at the College of Engineering, Room 304, Engineering Building, University of South Florida, Tampa, FL 33620, tel. 813/974-3499, serves the south central area of Florida.
The College of Fine Arts serves the three-fold purpose of providing programs of study, theatres of practice, and programs of events for the University family, the surrounding community, and the citizens of the State of Florida. In recognition of its academic and artistic achievements the College of Fine Arts has been given Program of Emphasis status by the Board of Regents of the State University System.

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

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

Programs in art education and music education are offered jointly by the College of Fine Arts and 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 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 SYs tems 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.

Basic recording facilities in Studio A include a custom designed 12 channel quad mixing console, constructed around an OP AMPS frame (with patchbay, remote controls), an MCI eight-track recorder (1" format; 7½, 15, 30 ips) with DBX 208, an Ampex ATR 102 two-track recorder with Dolby A, a TEAC 40-4 four-track recorder with DBX, a MIC MIX stereo reverber and four White 1/3 octave equalizers. Four JBL 4315 B studio monitors are powered by two Crest amplifiers. Eu Systems provides a modular synthesizer with a real time 16-voice microprocessor controlled, keyboard/sequencer (2000 notes of storage, cassette “load and store” of software). Computer facilities include a standard Z80 cpu (system upgradeable to a Z8000) with 65 K of RAM, an IBM compatible, digital tape drive (7 or 9 track; 800 or 1600 BPI), a 29 megabyte Shugart disk, two 500 K double density floppy diskettes, four channels of 16 bid digital-to-analog conversion with interfaces, 16 channels of 12 bit d/a for synthesizer control (8 for pitch; 8 for amplitude; 16 separate triggers), one channel of analog-to-digital conversion and one Hazeltine 1500 terminal. A Megasystems PSS-2 8080 microprocessor/sequencer with 2000 notes of storage and an array of specialized software entered on a standard ASCII terminal is also available. Peripherals include a Technics SL 1600MK2 turntable system, an Akai GX-M50 cassette deck, a frequency counter and a digital clock.

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 on-going academic advising, referral services and assistance to all present and potential students. Academic advisers are provided for each of the departments in the College. For information and appointments call or write to the Coordinator of Advising, College of Fine Arts.

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

Any student in the University, regardless of major, may enroll in courses offered by the College of Fine Arts when prerequisites are met and space is available. Where applicable, these courses may be used to satisfy elective or General Distribution Requirements. In all cases, the responsibility for meeting all graduation requirements rests entirely upon the student.

Graduation Requirements

The College of Fine Arts currently offers two undergraduate degrees, the Bachelor of Arts (B.A.), attainable in the Departments of Art, Dance, Music and Theatre, and the Bachelor of Fine Arts (B.F.A.) in Theatre. The University requirements are presented on page 37 of this Catalog, but are briefly summarized here along with the college and departmental requirements:

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

2. General Distribution Requirements may be satisfied by (1) completing the University's General Distribution Requirement as explained on page 36 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 6 hours in one or more of the other departments of the College.

4. A maximum of 9 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 46 hours in the major 19 hours of Free Electives of (which 16 hours in art may apply), and 9 hours of non-major credits which may be distributed at the discretion of the Art Department.

Dance Requirements: Completion of a minimum of 42 hours in the major, 23 hours of Free Electives (of which 19 hours in dance may apply), and 9 hours of non-major credits which may be distributed at the discretion of the Dance Department.

Music Requirements: Completion of a minimum of 64 hours in the major and 10 hours of non-major electives of which 5 hours may be distributed at the discretion of the Music Department.

Theatre Requirements: For the B.A., the completion of a minimum of 51-52 credit hours in the major with 23 credit hours of Free Electives of which a maximum of 10 credit hours may be in theatre. For the B.F.A., the completion of a minimum of 75 credit hours in the major with 30 credit hours of Free Electives of which a maximum of 10 credit hours may be in theatre.

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

Waiver of credit of up to 12 credit hours in the major or Fine Arts College requirements is possible by demonstration of competence. Review is by faculty committee. Specific questions concerning program requirements for the B.A. and B.F.A. degrees in the College or other related problems, should be directed to the Coordinator of Advising, College of Fine Arts, University of South Florida, Tampa, Florida 33620.

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

Courses for General Distribution Requirements:

Courses in the College of Fine Arts in the departments of Art, Dance, Music and Theatre fall within Area II of the University's General Distribution Requirements. (See page 36 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 semester when academic progress is not maintained.
Contracts and Permission Procedures

Directed Studies Contracts:
All Directed Studies and other variable credit courses in the College of Fine Arts require contracts between students and instructors describing the work to be undertaken by the student and specifying the credit hours. These contracts are to be completed in quadruplicate and 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.

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

"I" Grade Contracts:
Incompletes must be contracted for by mutual agreement between student and instructor, with the contract describing specifically the amount and nature of the work to be completed for the removal of the incomplete grade. This contract additionally clearly specifies the date that the work will be due (within legal limits) for grading. Both the student and the instructor must sign this contact and the distribution of the four copies according to instructions. A student must not register for a course again to remove an "I" grade. Please see page 33 for more details concerning the University's "I" grade policy.

Permission Procedures:
Admission into some courses is possible only by consent of instructor (CI), consent of chairperson (CC), 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 33 for more details concerning the University's S/U Grading policy.

Dean's List Honors
See Academic Policies and Procedures, Programs and Services, page 36.

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 36 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 47 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 113 for Graduation Requirements, College of Fine Arts.
The requirements for the bachelor's degree in Art Education are listed under the College of Education.

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 47 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 113 for Graduation Requirements, College of Fine Arts.
The requirements for the bachelor's degree in Art Education are listed under the College of Education.
Art Studio Concentration (46 semester hours minimum)

1. Visual Concepts I, II and Introduction to Art, 12 credit hours.
2. Minimum of 12 credit hours of 3000 level studio courses (exclusive of Technique Seminars).
3. Minimum of 12 credit hours of 4000 and/or 5000 level studio courses exclusive of Technique Seminars with an emphasis in one area.
4. Minimum of 8 credit hours in art history courses from the following:
   - ARH 4100
   - ARH 4350
   - ARH 4530
5. Art Senior Seminar, 2 credit hours.
6. Maximum of 16 semester hours of art electives.

Art History Concentration (46 semester hours minimum)

1. Visual Concepts I, II and Introduction to Art, 12 credit hours.
2. Minimum of 16 credit hours of 4000 level art history courses including twentieth century art history.
3. Seminar in the History of Art History, 4 credit hours.
4. A minimum of 12 credit hours in Directed Readings (1 to 6 semester hours each) and/or Critical Studies in Art History (4 semester hours each).
5. Art Senior Seminar, 2 credit hours.
6. A proficiency in French or German. In lieu of some considerable direct living experience with another language, it is suggested that a minimum of two years or equivalent of college-level study of a language be undertaken.
7. A maximum of 16 semester hours of art electives.

Requirements for a minor in Art (20 semester hours minimum)

I. Studio Concentration:
   - ART 2202C (4)
   - ART 2203C (4)
   - ARH 3000 (4)
   - Plus: Two 4 semester hour classes from 3000 studio level (8)
II. Art History Concentration:
   - ART 2202C (4)
   - ART 2203C (4)
   - ARH 3000 (4)
   - Plus: Two 4 semester hour classes from any of the following:
     - ARH 4100 (4)
     - ARH 4301 (4)
     - ARH 4450 (Required) (4)
     - ARH 4170 (4)
     - ARH 4350 (4)
     - ARH 4530 (4)
     - ARH 4200 (4)
     - ARH 4430 (4)

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 Barlett, Larry Bell, Friedl Dzubas, Allen Jones, Nicholas Krushenick, Daniel Lang, Paul Sarkisian, Lucas Samaras, Robert Irwin, James Rosenquist, Robert Rauschenberg, Philip Pearlstein, Edward Fry, Alice Aycock, Alfred Leslie, Linda Benglis, Ron Gorchov, Patterson Sims.

Master of Fine Arts Degree (Art)

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

Procedure for Applying

The application for admission to graduate study should be sent to University Admissions prior to deadlines published in the academic calendar on pages 4-5. However, the application and all support materials (portfolio, etc.) should be submitted early enough so that they will reach the art department by the following dates: for Semester I admissions by March 1; for Semester II admissions by October 1. At least one week should be allowed for internal processing of the application providing all transcripts have been received and the applicant's grade point average (GPA) for the final 60 semester 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 47. 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 studio faculty of the student's primary discipline.

The M.F.A. degree requires a minimum of 50 semester hours. The bulk of a student's program is discretionary, and is planned with the advice of the graduate art adviser in its initial stages, and later with the advice of 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 4 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 semester as well as workshop performances. Major dance companies are brought to the campus giving students the opportunity of taking classes with the visiting artist.

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

**Modern Concentration:**
- DAA 2200 3 credit hours
- DAA 3700 2 credit hours
- DAA 3161 6 credit hours
- DAA 3201 3 credit hours
- DAA 3702 2 credit hours
- DAN 3603 2 credit hours
- DAN 3710 2 credit hours
- DAN 3590 2 credit hours
- DAN 4162 8 credit hours
- DAN 4702 2 credit hours
- DAN 4703 2 credit hours
- DAN 4120 3 credit hours
- DAN 4151 3 credit hours
- DAN 4170 2 credit hours

**Ballet Concentration:**
- DAA 2160 3 credit hours
- DAA 3700 2 credit hours
- DAA 3161 3 credit hours
- DAA 3201 6 credit hours
- DAA 3701 2 credit hours
- DAN 3603 2 credit hours
- DAN 3710 2 credit hours
- DAN 3220 4 credit hours
- DAN 4202 8 credit hours
- DAN 3590 2 credit hours
- DAN 4120 3 credit hours
- DAN 4151 3 credit hours
- DAN 4170 2 credit hours

A maximum of 19 credit hours of Dance electives may apply toward the dance degree.

TPA 2223 Basic Theatre Crafts II (2) is required of all dance majors and may apply toward Area II of the General Distribution Requirements, or non-major electives, or the 6 hour Special College Requirement.

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

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

Entrance to all technique courses is by jury examination. A student must audition each semester to stay at his/her present level. Until the student is accepted into Modern Dance III or Ballet III he/she will be considered as a probationary dance major. DAA 2160 or DAA 2200 may be repeated only once for credit towards degree requirements.

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

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

For other non-major requirements see page 114 of Fine Arts College requirements and page 36 for the University's General Distribution and graduation requirements.

**Requirements for a minor in Dance**

(20 semester hour minimum)

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

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

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

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

**Visiting Artists and Artists-in-Residence**

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

An impressive list of visiting artists includes:

- Murray Louis Dance Co.
- First Chamber Dance Co.
- Claude Kipnis Mime Theatre
- Louis Falco Dance Co.
- Nikolais Dance Theatre
- Kerala Kalamandalam Co.
- 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 Trocadero
- Kazuko Hirabayashi

- Norman Walker Dance Team
- Ballet Marjio
- Luis Rivera Co.
- Utah Repertory Dance Theatre
- Cliff Keuter Dance Co.
- Kelly Hogan
- Jose Limon Co.
- James Cunningham Co.
- Lar Lubovitch Dance Co.
- Dena Madole
- Meredith Monk
- Luigi
- Carolyn Brown
- Suzann Hayman Chaffey
- Sandra Neels
- Betty Jones
- Barton Mumaw
- Twyla Tharp Dance Company
- George Faison Dance Company
- Pilobolus Dance Theatre
- Jennifer Muller and The Works
- Daniel Nagrin
- Milwaukee Ballet Co.

**MUSIC (MUS)**

The Departmental B.A. Degree:

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

Academic programs offered include:

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

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

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

Music Theory (20)
MUT 1111 (3) MUT 1242 (1) MUT 2246 (1)
MUT 1112 (3) MUT 2116 (3) MUT 2247 (1)
MUT 1241 (1) MUT 2117 (3)
MUT 4431 and one of either MUT 4411 (2) or MUT 4432 (2)
Music Literature (4)
MUL 2111 (2)
MUL 2112 (2)
Music History (6)
MUH 3211 (3)
MUH 3212 (3)
Senior Seminar (2)
MUS 4935 (2)

Applied Concentration:
A total of 24 credit hours of applied music is required with a minimum of 6 hours to be completed at the senior level.

One major ensemble per semester is required in conjunction with applied music enrollment for a minimum of 8 credits.

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

For other non-major requirements see page 114 of the Fine Arts College requirements and page 36 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 24 credit hours from the following sequence of courses including MUC 3402 and at least one quarter of MUC 4204, satisfying all necessary prerequisites for all courses:

MUC 2202 (6) MUC 3601, 3602 (3,3)
MUC 2301 (2) MUC 4204 (3)
MUC 3203 (3) MUC 4405, 4406 (3,3)
MUC 3401, 3402 (3,3) MUC 4501 (2)
MUC 3441, 3442 (3) MUT 4311, 4312 (2,2)

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 concerts 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 (19-22 semester hour minimum)

Students seeking a minor in music may choose from three concentrations: (1) History-Theory-Literature, (2) Applied Medium and (3) Composition. Each of the concentrations will include the same core curriculum consisting of 11-12 hours.

I. Core Curriculum:
Music Theory (8)

II. Optional Concentrations:
A. History-Theory-Literature
Music History (7-8)
Music Ensemble (2)

B. Applied Medium
Performance Studio courses which may include up to 2 semester hours of class-studio (6-8)
Music Ensembles (2)
Faculty jury recommendation for sophomore level studio study (minimum)

C. Composition
Composition 9 hours
Introduction to Electronic Music (2)
Composition Studio courses which may include one course of orchestration (6)
Music Ensemble (1)

III. Admission
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 Nece, Lukas Foss, Maurice Andre, John Haynie, Jean Pierre Rampal, Julius Baker, David Baker, Thomas J. Anderson, and Hale Smith.

**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. Additionally, loans, grants, and work programs 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
- Composition
- Theory
- Choral conducting

**Procedure for Applying**

The applicant seeking acceptance into the Master of Music degree program must meet the University's general admissions requirements and make formal application for general University acceptability with the Graduate Admissions Office. Concurrently, the applicant must arrange to fulfill the specific acceptance requirements in the Music department (of the College of Fine Arts). Full acceptance cannot be 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. Persons to contact directly are 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 (30 semester hour minimum)**

General requirements for graduate work are given on page 47. 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 examination in music theory. All candidates for the degree must take the following course work:

- Techniques of Research in Music (2)
- Critical Analysis of Music Repertory (2)
- 20th Century Music Literature (2)

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 30 semester 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.

A thorough orientation to all facets of the art gained in the basic courses, the Theatre major pursuing the Bachelor of Art degree concentrates in the areas either of Performance or of Design and Technology.

To earn a B.A. in Theatre, the student following the design and Technology Concentration must take a minimum of 51 credit hours; the student following a Performance Concentration must take a minimum of 52 credit hours. In addition to these, a number of electives in the department may be taken to broaden the general program or to pursue a particular interest in more depth.

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

For other non-major requirements see page 114 for the College of Fine Arts requirements and pages 36-37 for the University's General Distribution and graduation requirements.

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

### Visiting Artists and Artists-In-Residence:

Despite the fact that the University is relatively young the department has had in residence artists from many kinds of theatre and in many countries including: London's West End, The Actor's Studio, Dublin's Abbey Theatre, Broadway, Washington's Arena Stage, The American Shakespeare Festival, The Stratford Ontario Shakespeare Festival, The Welsh National Theatre, the BBC, the London Academy of Music and Dramatic Art, The Working Theatre, Coventry's Belgrade Theatre, Paris, Hollywood, Moscow, East Berlin's Deutsches Theater, Taiwan, the Socialist Republic of Armenia and Poland. A partial, alphabetized list would include Edward Albee, Joseph Chaikin, Martin Esslin, Miriam Goldina, Boris Goldovsky, Henry Hewes, Mesrop Kesdekian, Arthur Lithgow, Marcel Marceau, Paul Massie, Siobhan McKenna, Estelle Parsons, Olga Petrovna, Ben Piazza, Sergei Ponomarov, Alan Schneider and Doug Watson.

**Requirements for the B.A. Degree with a major in Theatre:**

In the total of 120 credit hours for graduation, a minimum of 51-52 credit hours must be taken within the department of Theatre. In addition, a maximum of 10 credit hours of theatre may apply to the Theatre Elective Area.

**First Year—All Students (9 credit hours):**

- THE 2020 2 credit hours
- TPA 2200 2 credit hours
- TPA 2223 2 credit hours
- TPP 2110 3 credit hours

**Second Year—All Students (14 or 15 credit hours):**

- TPP 3111 3 credit hours
- TPA 3086 3 credit hours
- THE 3110 4 credit hours
And choice of two from:
TPA 4073L 3 credit hours
THE 4264 2 credit hours
THE 4266 2 credit hours
TPP 3500 2 credit hours
TPP 3790L 2 credit hours
TPA 3221 2 credit hours

Third Year — all students (3 credit hours):
Choice of one from:
THE 4320 3 credit hours
THE 4330 3 credit hours
THE 4370 3 credit hours
THE 4401 3 credit hours
THE 4442 3 credit hours
THE 4480 3 credit hours
Plus either Performance Concentration (12 credit hours):
TPP 4150 4 credit hours
TPP 4152 4 credit hours
Students who elected these courses in second year will repeat for credit.

Or Design/Technology Concentration (11 credit hours):
Choice of one from:
THE 4264 2 credit hours
THE 4266 2 credit hours
TPA 3221 2 credit hours
And choice of two from:
TPA 4211 3 credit hours
TPA 4230 3 credit hours
TPA 4285 3 credit hours
And choice of one (in area of primary specialty):
TPA 4020 3 credit hours
TPA 4040 3 credit hours
TPA 4060 3 credit hours

Fourth Year — all students (7 credit hours):
THE 4180 4 credit hours
THE 4562 3 credit hours
Plus either continued Performance Concentration (7 credit hours):
TPP 4140 4 credit hours
TPP 4920 3 credit hours

Or continued Design/Technology Concentration (6 credit hours):
Choice of one (in area of primary specialty):
TPA 4021 3 credit hours
TPA 4045 3 credit hours
TPA 4061 3 credit hours
And choice of one (in area of secondary specialty):
TPA 4020 3 credit hours
TPA 4040 3 credit hours
TPA 4060 3 credit hours

Freshman Lab and Advanced Course Production Involvement:
TPA 2200 and TPA 2223 have, in addition to the weekly lectures (2 hours) and demonstration session (1 hour), a weekly 3 hour laboratory.
Certain upper division courses in studio and performance (TPP 4150, TPP 4152, TPA 4230, TPA 4285, TPA 4211, TPP 4140, TPA 4021, TPA 4045 and TPA 4061) carry an Advanced Course Production Involvement (ACPI) requirement in semester one and two (not in summer). Certain other upper division courses (TPA 4073-L, THE 4264, THE 4266, TPP 3500, TPP 3790L and TPA 3221) carry an ACPI requirement in that such a requirement is attached to the second course from this list for which the student might register. ACPI not available in summer sessions.
All Theatre majors (B.A. and B.F.A.) must satisfy 4 ACPI's before they are approved for graduation.
Once the minimum requirement of 4 ACPI's has been met, students who register for courses with ACPI requirements will not be required to participate in the ACPI for those courses.
Any student electing THE 3925 for one credit hour may receive an ACPI credit as long as it is elected no earlier than the second semester of the sophomore year and has the approval of the theatre advisor. This option is not available in the summer.
All students registered for ACPI courses will be expected to satisfy ACPI requirements regardless of major. Non-majors who elect more than 4 ACPI credits through coursework or THE 3925 will also be exempt from the ACPI requirement once the minimum is met. The graduation requirement cannot of course be applied to non-majors.

Requirement for Minor in Theatre (21 hours minimum):
THE 2020 2 credit hours
TPA 2200 2 credit hours
TPA 2223 2 credit hours
TPP 2110 3 credit hours
The remaining 12 hours are to be selected by the student based on personal interest. At least 9 hours must be upper level courses. The Theatre Advisor will be available to assist the student in developing a course of study that will meet the needs of the individual student.
Students desiring admittance into the Acting Sequence must audition and those entering the Design Sequence must have a portfolio review.
All Theatre courses (with the exception of the above mentioned lab courses) are subject to consent of the instructor.

Requirements for the B.F.A. Degree in Theatre:
The student should submit a letter of application as early as the second semester of the Junior year. This should be accompanied by a transcript and a detailed description of production involvement.
The student will concentrate in either Performance or Design/Technology.
Admission to the B.F.A. program is by audition or portfolio presentation and acceptance by the appropriate faculty committee.
As soon as the B.F.A. candidate has been accepted into the program, an appointment with the Chairman of the Theatre Curriculum Committee should be scheduled. At that time the Chairman of the Curriculum Committee in conference with the student and with the approval of the Department Chairman will select the student's Advisory Committee. The Advisory Committee will be composed of three members of the Theatre faculty.
This committee has the responsibility to develop a curriculum designed to meet the specific needs of the student and will decide if the following requirements have been met and appropriate standards maintained: (Theatre courses taken prior to the appointment of the B.F.A. Advisory Committee and without the advice of the Committee cannot be considered part of the B.F.A. program.)
Completion of the appropriate Department of Theatre B.A. requirements.
Development and execution of a creative project, Participation in one summer session.
A minimum of 30 credit hours above the B.A. including 6 credits of non-theatre electives.
The following curricula:
Design/Technology Concentration
10 hours in Creative Project and Execution
THE 4905 or 5909 (Research and Design Creative Project) 4 credit hours
THE 4905 or 5909 (Execute Creative Project) 3 credit hours
TPA 4020, 4040, 4060 (Complete Design I in all three areas) 3 credit hours
10 hours in Design and Technical Skills (choice of):
THE 4264 2 credit hours
THE 4266 2 credit hours
THE 4905 3 credit hours
TPA 4021 3 credit hours
TPA 4041 3 credit hours
TPA 4061 3 credit hours
TPA 4041 2 credit hours
TPA 4211 3 credit hours
TPA 4280 3 credit hours
TPA 4240 2 credit hours
TPA 4281 2 credit hours

COLLEGE OF FINE ARTS 119
TPA 4285  3 credit hours
TPA 3221  2 credit hours

10 hours in Course Production work: (including and choice of credit ensembles in the College of Fine Arts)
TPP 4230L  3 credit hours
TPP 3235; 3 credit hours
TPP 3236; 3 credit hours
TPA 3810; 3 credit hours
TPA 3840; 4 credit hours
TPP 4250; 3 credit hours
TPP 3510; 2 credit hours
TPP 3790L; 2 credit hours
DAN 3710; 1 credit hour
MUO 3501; 1 credit hour
THE 3925; (repeatable for 6 hours) 1 credit hour

Performance Concentration
12 credit hours of production preparation through performance classes from the following:

TPP 4180; 3 credit hours
THE 4562; (repeat) 3 credit hours
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 Admissions 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 PreMedical 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, University of South Florida, College of Medicine (Box 3), 12901 North 30th Street 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>Course</th>
<th>Semester(s)</th>
<th>Quarters(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</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>General Chemistry</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Organic Chemistry</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Statistics (mathematics or Social science)</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Physics (including laboratory)</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 an honors, pass with commendation, pass, fail grading system, and the student must have achieved a grade of at least pass in all subjects in the curriculum.

**Doctor of Philosophy Degree in Medical Sciences**

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

**Requirements for Admission**

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

Academic Calendar, 1981-82

Class of 1985

August 31, 1981, Monday
September 7, Monday
November 11, Wednesday
November 26-27, Thursday-Friday
December 18, Friday
January 4, 1982, Monday
April 7, Wednesday
April 12, Monday
May 31, Monday
June 4, Friday
June 9, 10, 11, Wednesday-Friday
August 30, Monday
September 6, Monday

Registration-Classes Begin
Labor Day Holiday*
Veteran's Day Holiday*
Thanksgiving Holidays*
Last Day of Classes
Classes Resume
Last Day of Classes
Classes Resume
Memorial Day Holiday*
Last Day of Classes
Exams
2nd Year Curriculum Begins
Labor Day Holiday*

Class of 1984

August 31, 1981, Monday
December 18, Friday
January 4, 1982, Monday
April 2, Friday
April 12, Monday
May 28, Friday
July 6, Tuesday

2nd Year Curriculum Begins
Last Day of Classes
Classes Resume
Last Day of Classes
Classes Resume
Last Day of Classes
Clerkship Year Begins

Class of 1982

September 18, Friday
September 28, Monday
December 18, Friday
December 28, Monday
January 1, 1982, Friday
June 11, Friday
June 12, Saturday

Last Day of Clerkships
Electives Begin
Last Day of Classes
Electives Resume
New Year's Day Holiday*
Last Day of Classes
Graduation

*Holidays may be waived for students serving in Clinical Clerkships at the discretion of the Individual Chiefs of Service.

(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 be 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 Research and Graduate Affairs and the approval of the Dean of the College of Medicine, may be waived.
COLLEGE OF NATURAL SCIENCES

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; computer science; geology; marine science; mathematics; medical technology; and physics. These programs are designed for students planning scientific careers in the science fields or for those planning professional careers having a considerable component of science. These students will typically major in one of the sciences or in a combination of sciences as preparation for employment, transfer to professional schools or admission to graduate school.

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

BACCALAUREATE LEVEL DEGREE PROGRAMS

Admission to the College

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

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

General Requirements for Degrees

In addition to the University graduation requirements found on page 37, the requirements for graduation in any undergraduate degree in the college are as follows:

1. Completion of a major program with a grade of "C" or higher in each course. A major program is defined to be courses in a department of concentration plus supporting courses in related departments. All courses in the major program must be taken with letter grade (A, B, C, D, F, I) except those courses which are graded S/U only. For a more detailed description of the major program requirements, consult the appropriate departmental section.

2. Satisfaction of the University Distribution Requirement, except:
   (a) In area III, the minimum requirement of six hours in mathematics may be waived by credit in at least six hours of mathematics courses required by the major.
   (b) In area IV, the minimum of six hours in Natural Sciences may be waived by credit in at least six hours of natural sciences courses required by the major.

3. Completion of 15 hours of courses from the Colleges of Fine Arts, Social and Behavioral Sciences, or Arts and Letters. The student may elect any course from any of these colleges provided:
   (a) No more that 9 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 30 credit hours of letter graded courses in the college, of which at least 12 hours must be applicable to a major.

Up to 1 credit of elective physical education, and up to 9 credits in military science courses MIS 1010C, 3410C, 4421C may count as free electives toward graduation.

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

For graduation with honors, see page 40.

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 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 15-hour rule must be taken by letter grade.
B. With the exception of ENC 1102 and ENC 1135, all courses in Distribution Requirements and all courses in free electives may be taken S/U. There is no restriction regarding the number of hours to be taken S/U except the graduation requirement that the student must earn at least 30 credit hours with letter grades in the College of Natural Sciences.

C. Students will be permitted to enroll in a course by an S/U on the basis of a written contract signed by the student, and the instructor of the course. This contract should be completed no later than the third week of the semester in which the course is offered.

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

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

Programs Leading to the Baccalaureate Degree

The College offers the Bachelor of Arts degree with majors in Biology (BIO), Botany (BOT), Microbiology (MIC), and Zoology (ZOO); Chemistry (CHM); Geology (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), Geology (GLS), Medical Technology (MET), and Physics (PHS). For specific requirements, consult appropriate departmental sections of this Catalog.

Academic Minor Programs

Academic Minors are offered in the departments of Geology and Mathematics. To complete a minor, a student must satisfy the course requirements found in the departmental sections of this catalog and must satisfy the University requirements found on page 38. In addition, the student must earn a grade of "C" or higher in each course used to meet a minor requirement of departments of the College of Natural Sciences.

■ PREPROFESSIONAL SCIENCES

The University of South Florida is an excellent location to prepare for a health profession. The Tampa 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 experience.

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

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

Premedical Sciences Program

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

One Year of Biology:

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

Two Years of Chemistry:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</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>or CHM 2055C</td>
<td>(5)</td>
</tr>
<tr>
<td>or CHM 2056C</td>
<td>(5)</td>
</tr>
<tr>
<td>CHM 3210</td>
<td>(3)</td>
</tr>
<tr>
<td>CHM 3210L</td>
<td>(2)</td>
</tr>
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</table>

One Year of Physics:

<table>
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<tbody>
<tr>
<td>PHY 2050</td>
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<tr>
<td>PHY 2050L</td>
<td>(1)</td>
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<tr>
<td>PHY 2051</td>
<td>(4)</td>
</tr>
<tr>
<td>PHY 2051L</td>
<td>(1)</td>
</tr>
<tr>
<td>or PHY 3040</td>
<td>(3)</td>
</tr>
<tr>
<td>or PHY 3040L</td>
<td>(1)</td>
</tr>
<tr>
<td>or PHY 3041</td>
<td>(3)</td>
</tr>
<tr>
<td>or PHY 3041L</td>
<td>(1)</td>
</tr>
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One Year of Mathematics:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 2243</td>
<td>(4)</td>
</tr>
<tr>
<td>MAC 2244</td>
<td>(4)</td>
</tr>
<tr>
<td>or MAC 1104</td>
<td>(4)</td>
</tr>
<tr>
<td>or MAC 3411</td>
<td>(4)</td>
</tr>
<tr>
<td>or MAC 3412</td>
<td>(4)</td>
</tr>
</tbody>
</table>

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

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

- PCB 3063 (3)
- STA 3023 (4)
- BCH 3033 (3), or CHM 3120C (4), or CHM 3400 (3)

Predental students must take the following additional course to meet admission requirements of regional dental schools:

- CHM 3120C (4)

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

Biology:

- MCB 3010C (4) PCB 4253C (4) PCB 4184C (4)
- PCB 3063 (3) PCB 4743C (4) ZOO 3713C (4)
- PCB 4023C (4)
Preprofessional Program

The Preprofessional 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. Preprofessional students should complete a degree in the major of their choice while including the following entrance requirements:

**Biology**

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

**Preprofessional Medicine Program**

The Preprofessional 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. Preprofessional students should complete a degree in the major of their choice while including the following entrance requirements:

**Chemistry**

- CHM 2045 (3)
- CHM 2045L (1) or CHM 2055C (5)
- CHM 2046 (3)
- CHM 2046L (1)
- CHM 3210 (3)
- CHM 3210L (2)
- CHM 3211 (3)

**Physics**

- PHY 2050 (4)
- PHY 2050 (1) or PHY 3040 (3)
- PHY 2051 (4) or PHY 3041 (3)
- PHY 2051L (1) or PHY 3041L (1)

In addition, students must include (6) hours of English, including one course in composition (CLEP is not acceptable); (6) hours of social science; (8) hours of humanities; BCH 3033; and Animal Science courses, which should be completed at the University of Florida no later than the summer prior to application.

**Prepharmacy Program**

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

**One year of Biology:**

- BSC 2010C (4)
- MCB 3010C (4)

**Chemistry:**

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

**Physics:**

- PHY 2050 (4)
- PHY 2050 (1) or PHY 3040 (3)
- PHY 2051 (4) or PHY 3041 (3)
- PHY 2051L (1) or PHY 3041L (1)

In addition to the above sequences, prepharmacy students must include: a minimum of 6 hours of mathematics, including college algebra or more advanced mathematics; and two courses in psychology, PSY 2012 and an elective. Some physical therapy programs recommend the following specific courses:

- ZOO 3713C (4)
- PCB 4253C (4)
- PCB 4743C (4)

**Preoptometry Program**

The Preoptometry Program at the University of South Florida is designed to meet the basic entrance requirements of all 14 accredited schools of optometry in the United States. This curriculum also fulfills requirements for the Associate of Arts Degree.

Although a minimum of two years is required by most optometry schools, the majority of students admitted have completed three or four years. These students will find that the preoptometry program can easily be expanded to meet requirements for a bachelor's degree.

**Prephysical 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.

Prephysical therapy students must include the following courses:

**One year of Biology:**

- BSC 2010C (4)
- BSC 2012C (4)

**One year of Chemistry:**

- CHM 2045 (3)
- CHM 2045L (1) or CHM 2055C (5)
- CHM 2046 (3)
- CHM 2046L (1)

**One year of Physics:**

- PHY 2050 (4)
- PHY 2050L (1) or PHY 3040 (3)
- PHY 2051 (4) or PHY 3041 (3)
- PHY 2051L (1) or PHY 3041L (1)

In addition, students are also required to take MCB 3010C and are strongly encouraged to complete CHM 3211, 3211L; STA 3023 or STA 3122; BCH 3033; PCB 3700; and ZOO 3713C.

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

3. Credit in the following courses:
   Biology: BSC 2010C (4) BSC 2012C (4)
   Chemistry: CHM 2045 (3) CHM 2046 (3)
   Physics: PHY 2050 (4) PHY 2051 (1)
   Mathematics: STA 3023 (4) MAC 2244 (4)
   Computer Science: BSC 2012C (4)

4. A minimum of 20 credits from the following courses:
   Biology: PCB 3063 (3) PCB 4253C (4) MCB 3010C (4)
   Chemistry: BSC 3000 (3) BSC 3000 (3)
   Mathematics: STA 3023 (4) MAC 2244 (4)

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

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

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

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

Post baccalaureate Premedical Sciences Program

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

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

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

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 47 and for the Ph.D. degree on page 52. 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 to a Master of Science degree in Chemistry (CHM), Geology (GLY), and Marine Science (MSC).

Doctor's Degree Programs

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

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

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

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

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 page 47-53.

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

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

Applicants who do not meet either of the above conditions must meet the 10% exception criteria described on page 47 and must have the recommendation of the department offering the degree to be considered for provisional admission.
Enrollment Levels. A student who enrolls in six 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 semester other than the summer semester, except that no student shall be required for the purposes of this rule to enroll for more than eight hours total per semester. Additional requirements may be imposed in any department in the college.

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

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

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 six.

Ph.D. Program.

Following admission to candidacy, a graduate student in a Ph.D. program in the College of Natural Sciences must enroll in course 7980 when engaged in research, data collection, or writing activities relevant to doctoral dissertation. Advisers should assign the number of credits in this course appropriate to the demands made on faculty, staff, and university facilities, but in no event will the total number of earned dissertation credits be less than 16. 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 a 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 semester 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 10 credit hours (six 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 47. Mathematics majors must complete a minimum of 34 semester hours; science majors must complete at least 18 semester hours in the discipline of concentration. For requirements in education the student should consult the College of Education portion of this catalog.

M.A. Degree Program for Junior College Teachers:

The M.A. degree program for junior college teachers is available in the College of Natural Sciences with specializations in biology, chemistry, geology, mathematics, or physics. The student may complete the M.A. degree in a program offered jointly by the College of Natural Sciences and the College of Education. This program requires 24 hours in mathematics or science specialization courses which must be approved by the student's adviser in the College of Natural Sciences. Credit hours are also required in professional education courses and credits are required in internship depending on the amount of teaching experience of the student. For requirements in education, the student should consult the College of Education portion of the catalog.

CURRICULA

BIOLOGY (BIO/BOT/MIC/ZOO)

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

Four specific Bachelor of Arts degrees (Biology, Botany,
Microbiology, and Zoology) are available for students interested in the biological sciences. They are all preparatory for careers in teaching, agriculture, medicine, dentistry, marine biology, biotechnology, or for post-graduate study in any of the various life sciences. The Department attempts to schedule sequences of 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, 15 cr. hrs.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
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<tr>
<td>BSC 2011C</td>
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<tr>
<td>BSC 2012C</td>
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<tr>
<td>MCB 3010C</td>
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</tr>
<tr>
<td>PCB 3063</td>
<td>3</td>
</tr>
<tr>
<td>PCB 4023C</td>
<td>4</td>
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One of the following:

<table>
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<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BSC 2011C</td>
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</tr>
<tr>
<td>BSC 2012C</td>
<td>4</td>
</tr>
<tr>
<td>MCB 3010C</td>
<td>4</td>
</tr>
<tr>
<td>PCB 3063</td>
<td>3</td>
</tr>
<tr>
<td>PCB 4023C</td>
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</table>

B. Individual Degree Requirements

<table>
<thead>
<tr>
<th>Major</th>
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<tr>
<td>BIOLOGY MAJOR (BIO)</td>
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<tr>
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<td>MCB 4404</td>
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<td>PCB 3183C</td>
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</tr>
<tr>
<td>PCB 4253C</td>
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</table>

In addition, a student must choose two courses from the following list:

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<tr>
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<tr>
<td>PCB 5525</td>
<td>3</td>
</tr>
<tr>
<td>ZOO 5225C</td>
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<tr>
<td>ZOO 3713C</td>
<td>4</td>
</tr>
<tr>
<td>PCB 6816</td>
<td>3</td>
</tr>
<tr>
<td>PCB 5725C</td>
<td>4</td>
</tr>
<tr>
<td>PCB 5835C</td>
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</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Major</th>
<th>(25 cr. hrs.)</th>
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<tbody>
<tr>
<td>BOTANY MAJOR (BOT)</td>
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<tr>
<td>BOT 4503</td>
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</tr>
<tr>
<td>PCB 4043C</td>
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</tr>
<tr>
<td>BOT 4933</td>
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</tr>
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</table>

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

<table>
<thead>
<tr>
<th>Major</th>
<th>(23-26 cr. hrs.)</th>
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<tbody>
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<td>MICROBIOLOGY MAJOR (MIC)</td>
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<td>APB 4035C</td>
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<tr>
<td>APB 5575C</td>
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<thead>
<tr>
<th>Major</th>
<th>(23-26 cr. hrs.)</th>
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</thead>
<tbody>
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<tr>
<td>BSC 2011C</td>
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</tr>
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<td>PCB 4043C</td>
<td>3</td>
</tr>
<tr>
<td>PCB 4743C</td>
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</tbody>
</table>

PCB 4674 (3)
Three (3) approved additional courses in Biology as advised

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course Code</th>
<th>Credits</th>
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<td>CHM 2046L</td>
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<tr>
<td>Plus</td>
<td>CHM 3200</td>
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<td>CHM 3210L</td>
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<table>
<thead>
<tr>
<th>Mathematics</th>
<th>Course Code</th>
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</thead>
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<td>MAC 2244</td>
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<td>STA 2023</td>
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</table>

<table>
<thead>
<tr>
<th>Physics</th>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CHM 3210L</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

8 credits in introductory physics.

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

IV. Liberal Education Electives

The student must satisfy 15 hours of liberal education electives as described in item 3 of the graduation requirements of the College of Natural Sciences (see page 123).

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

Teacher Education Programs:

For information concerning the degree programs for secondary school teachers and junior college teachers, see page 85 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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOT 5185</td>
<td>Marine Botany</td>
</tr>
<tr>
<td>BOT 5405</td>
<td>Phycology</td>
</tr>
<tr>
<td>ZOO 3203C</td>
<td>Introductory Invertebrate Zoology</td>
</tr>
<tr>
<td>ZOO 5455C</td>
<td>Ichthyology</td>
</tr>
<tr>
<td>ZOO 5555C</td>
<td>Marine Animal Ecology</td>
</tr>
<tr>
<td>ZOO 5815C</td>
<td>Biogeography</td>
</tr>
</tbody>
</table>

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 47. Major programs are offered in Botany, Microbiology and Zoology. The M.A. degree requires completion of structured coursework, a research thesis or a review paper, and passing a comprehensive examination.

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

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

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

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

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 semester before thesis presentation.

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

Requirements for the Ph.D. Degree:

General requirements are given on page 52.

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 graduate requirements.

The departmental graduate coordinator functions as the student's advisor 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 two semesters 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.

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

A diagnostic examination is required of all doctoral students in the first semester 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 four semesters after matriculation. Any language or other technical skills required by the supervisory committee must be completed in 4 semesters 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 comprehensive 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 all applicants who wish to be considered for assistantships. All other applications must be completed by the sixth week of the semester 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 professionalchemist but whose career goals require a thorough understanding of chemistry. Inherent in this program is a high degree of flexibility which permits tailoring a course of study to the student's own educational objectives. As such it offers considerable advantages to pre-professional students planning careers in medicine and the other health-related fields and an excellent preparation for primary and secondary school teachers of chemistry or physical science. The B.A. student whose goals change in the direction of graduate work in chemistry should supplement this curriculum by addition and/or substitution of a selection of advanced courses from the B.S. program.

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

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

I. Chemistry Courses*

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

\[
\begin{align*}
\text{CHM 2045} & \ (3) \\
\text{CHM 2045L (1)} & \text{ or } \text{CHM 2055C (5)} \\
\text{CHM 2046} & \ (3) \\
\text{CHM 2046L (1)} & \\
\text{CHM 3120C (4)} & \text{CHM 3400} \ (3) \\
\text{CHM 3210} & \ (3) \\
\text{CHM 3210L (2)} & \text{CHM 3402} \ (1) \\
\text{CHM 3211} & \ (3) \\
\text{CHM 3211L} & \ (2) \\
\text{CHM 4130C} & \ (4) \\
\end{align*}
\]

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

**B.S. CHEMISTRY (CHS)** (46 cr. hrs.)

\[
\begin{align*}
\text{BCH 3033} & \ (3) \\
\text{CHM 2045} & \ (3) \\
\text{CHM 2045L (1)} & \text{ or } \text{CHM 2055C (5)} \\
\text{CHM 2046} & \ (3) \\
\text{CHM 2046L (1)} & \text{ or } \text{CHM 2056C} \ (5) \\
\text{CHM 3120C} & \ (4) \\
\text{CHM 3210} & \ (3) \\
\text{CHM 3210L (2)} & \text{CHM 4410} \ (3) \\
\text{CHM 3211} & \ (3) \\
\text{CHM 3211L (2)} & \text{CHM 4412} \ (3) \\
\text{CHM 4060} & \ (1) \\
\text{CHM 4130C} & \ (4) \\
\end{align*}
\]

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

\[
\begin{align*}
\text{BCH 3033} & \ (3) \\
\text{BCH 3033L (2)} & \\
\text{CHM 2045} & \ (3) \\
\text{CHM 2045L (1)} & \text{ or } \text{CHM 2055C (5)} \\
\text{CHM 2046} & \ (3) \\
\text{CHM 2046L (1)} & \text{ or } \text{CHM 2056C} \ (5) \\
\text{CHM 3120C} & \ (4) \\
\text{CHM 3210} & \ (3) \\
\text{CHM 3210L (2)} & \text{CHM 4410} \ (3) \\
\text{CHM 3211} & \ (3) \\
\text{CHM 3211L (2)} & \text{CHM 4412} \ (3) \\
\text{CHM 4060} & \ (1) \\
\text{CHM 4130C} & \ (4) \\
\end{align*}
\]

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

II. Supporting Courses in the Natural Sciences

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

\[
\begin{align*}
\text{MAC 2243} & \ (4) \\
\text{PHY 2050} & \ (4) \\
\text{PHY 2051} & \ (4) \\
\text{MAC 2244} & \ (4) \\
\text{PHY 2050L (1)} & \text{PHY 2051L (1)} \\
\end{align*}
\]

E lectives (must be acceptable for credit towards a Natural Science College discipline major)

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

\[
\begin{align*}
\text{BSC 2010C} & \ (4) \\
\text{BSC 2012C} & \ (4) \\
\text{COC 3300} & \ (3) \\
\text{MAC 3281} & \ (3) \\
\text{MAC 3282} & \ (3) \\
\text{MAC 3283} & \ (3) \\
\text{PCB 3700} & \ (5) \\
\text{PHY 2050} & \ (4) \\
\text{PHY 2050L (1)} & \text{PHY 2051 (4)} \\
\text{PHY 2051L (1)} & \text{PHY 3041 (3)} \\
\text{PHY 3041L (1)} & \text{PHY 3041L (1)} \\
\text{BSC 3211 (3)} & \text{MAC 3412} \ (4) \\
\text{MAC 3282 (3)} & \text{MAC 3414} \ (4) \\
\text{MAC 3283 (3)} & \text{MAC 3413} \ (4) \\
\text{PHY 3040 (3)} & \text{PHY 3041 (3)} \\
\text{PHY 3040L (1)} & \text{PHY 3041L (1)} \\
\end{align*}
\]

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

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

III. General Distribution Courses

(40 cr. hrs. excluding waivers)

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

IV. Liberal Education Electives

The student must satisfy 15 hours of liberal education electives as described in item 3 of the graduate requirements of the College of Natural Sciences. (See page 124.)

V. Free Electives* (including General Distribution waivers)

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

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

**B.S. CLINICAL CHEMISTRY (CHC)**; 0-3 cr. hrs.

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

*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 page 95 and 86 of this Catalog.

Requirements for the M.S. Degree:

General requirements for graduate work are given on page 47.

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:

\[
\begin{align*}
\text{BCH 5065} & \\
\text{CHM 5425} & \\
\text{CHM 6150} & \\
\text{CHM 5225} & \\
\text{CHM 5621} & \\
\end{align*}
\]

Qualifying Requirements

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

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

Course Requirements

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

**Final Thesis Defense**

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

**Course Requirements**

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

**Language Requirements**

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

**Major Comprehensive Examination**

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

**Admission to Candidacy**

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

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

**Final Dissertation Defense**

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

The Examination Committee shall consist of a chairperson and the members of the student's Supervisory Committee including the Major Professor(s). The Chairperson of the Examination Committee, shall be appointed by the Dean of the College and shall not be a member of the student's Supervisory Committee or the department or program in which the degree is sought.

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

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**GEOLOGY (GLY)**

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

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

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

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

I. Geology Courses (30 sem. hrs.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLY 2016</td>
<td></td>
<td>(4)</td>
</tr>
<tr>
<td>GLY 3610</td>
<td></td>
<td>(4)</td>
</tr>
<tr>
<td>GLY 4550</td>
<td></td>
<td>(3)</td>
</tr>
<tr>
<td>GLY 2100</td>
<td></td>
<td>(4)</td>
</tr>
<tr>
<td>GLY 4200</td>
<td></td>
<td>(4)</td>
</tr>
<tr>
<td>GLY 3400</td>
<td></td>
<td>(4)</td>
</tr>
<tr>
<td>GLY 4220</td>
<td></td>
<td>(5)</td>
</tr>
</tbody>
</table>

A minimum of 2 sem. hrs. from GLY 4920 (1)

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

a. CHM 2045 (3)
   CHM 2045L (1) or CHM 2055C (5)
   CHM 2046 (3)
   CHM 2046L (1)

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

c. Two courses in biology or physics selected from:
   BSC 2010 (4)
   BSC 2011 (4)
   BSC 2012 (4)
   PHY 2050-2050L (5) or PHY 3040-3040L (4)
   PHY 2051-2051L (5) or PHY 3041-3041L (4)

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

The student is required to satisfy the General Distribution requirements of the College of Natural Sciences (See page 123).

IV. Liberal Education Electives

The student must satisfy 15 hours of liberal education electives as described in item 3 of the graduation requirements of the College of Natural Sciences (see page 123).

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLY 4920</td>
<td></td>
<td>(1)</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLY 2016</td>
<td></td>
<td>(4)</td>
</tr>
<tr>
<td>GLY 3610</td>
<td></td>
<td>(4)</td>
</tr>
<tr>
<td>GLY 4220</td>
<td></td>
<td>(4)</td>
</tr>
<tr>
<td>GLY 2100</td>
<td></td>
<td>(4)</td>
</tr>
<tr>
<td>GLY 4200</td>
<td></td>
<td>(5)</td>
</tr>
<tr>
<td>GLY 3400</td>
<td></td>
<td>(4)</td>
</tr>
<tr>
<td>GLY prefixed structured electives (6)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

A minimum of 2 sem. hrs. from GLY 4920 (1)

Field Geology requirement (4-6 sem. hrs.) can be fulfilled by taking GLY 4750 (3) and GLY 5932 (2) or by taking geology summer field course at another institution.
II. Supporting Courses (22-26 sem. hrs.)

CHM 2045 (3)  
CHM 2045L (1)  
CHM 2046 (3)  
CHM 2046L (1)  
MAC 3281 (3)  
MAC 3282 (3)  
PHY 3040 (3)  
PHY 3040L (1)  
PHY 3041 (3)  
PHY 3041L (1)

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

The student is required to satisfy the General Distribution requirements of the College of Natural Sciences, (See page 123.)

IV. Liberal Education Electives

The student must satisfy 15 hours of liberal education electives as described in item 3 of the graduation requirements of the College of Natural Sciences. (See page 123.)

V. Free Electives (Including Distribution Waivers) 19-25 hrs.

The student will choose, in consultation with his/her Geology adviser, such courses in the College of Natural Sciences that support his/her major interest in the field of Geology. Courses in computer programming and additional Mathematics are of particular value. Those students who anticipate continuing for a doctorate in graduate school are encouraged to take a foreign language, preferably French, German, or Russian. All geology majors are strongly urged to take a course in technical writing.

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

GLY 2016  
CHM 2045  
CHM 2046  
CHM 2046L

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

Minor in Geology

A minor in geology consists of 16 credit hours and must include GLY 2016 and 2100. Additional courses approved by the geology 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 Graduate School and general graduate curriculum guidelines are given on page 47.

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

The curriculum for a Geology graduate student will vary depending on the area of interest of the individual. Course work for the degree will be determined by the thesis committee after consultation with the student. A minimum of 30 semester hours plus thesis (GLY 6971) is required for the master’s degree of which at least 16 must be in courses numbered 6000 and above. 24 semester hours must be in structured courses, 10 of which must be 6000 of above. All graduate students must take Graduate Seminar (GLY 6931) at least two times and GLY 6933 at least once.

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

INTERDISCIPLINARY NATURAL SCIENCES (INS)

The Bachelor of Arts in the Interdisciplinary Natural Sciences major is designed for majors in an interdisciplinary program in the College and for majors in Science Education and Mathematics Education. For information on teacher certification in science or mathematics, prospective teachers should consult the section entitled Teacher Education Programs on page 127, and also consult the College of Education section of the catalog. The requirements for graduation for this degree are the same as those contained on page 123 except that item 1 of the requirements is altered as follows:

1a. For Science Education and Mathematics Education Majors only

Completion of a major consisting of a minimum of 45 hours in College of Natural Sciences courses applicable to a major in the College. In these courses there must be a minimum of 24 credit hours in a discipline of major concentration and a minimum of 16 credit hours in supporting courses outside the discipline of major concentration. At least two of the 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.

1b. For College of Natural Sciences Majors Only

Completion of a minimum of 45 hours in College of Natural Sciences courses applicable to a major in the College. In these courses there must be a minimum of 24 credit hours in a discipline of major concentration and a minimum core of supporting courses comprising a calculus sequence and the introductory science sequence from each department in the College outside the discipline of major concentration. Courses in the supporting core must be taken from the following:
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—two semesters of consecutive course work in which the student must register for 9 hours—may be met on either campus. A minimum of 90 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 semester of residency. By the end of the second semester 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 appointments 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.

■ MARINE SCIENCE (MSC)

Marine Science has been designated by the Board of Regents and the University as an academic Program of Emphasis, the first such program at 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 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 Bellows, 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 isotope geochemistry, optical oceanography, particle dynamics, sedimentology, micro-paleontology, benthic ecology, marine physiology, hydrology, 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 current 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.

Admissions materials for students entering the Fall Semester should reach the Department by March 1; for those wishing to enter the Winter Semester, 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 47-53. A minimum of 32 credits must include OCC 5050, OGC 5050, OCP 5051, and OCB 5050. The student may emphasize biological, chemical, geological,
Requirements for the B.A. Degree

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

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

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

**Program I**

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

- COP 3215 (3) MAA 3102 (3)
- MAC 3411 (4) MAS 3103 (3)
- MAC 3412 (4) MAA 4211 (4)
- MAC 3413 (4) MAA 4212 (4)

**Program II**

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

- MAP 4302 (3) MAA 5306-5307 (6)
- MAS 5146 (3) MAA 5402-5403 (6)
- STA 4442 (3) MAS 5311-5312 (6)
- MAD 4401 (4) STA 4442-4321 (6)

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

Majors in mathematics for teaching should consult the section Mathematics (MAE) on page 90 for mathematics requirements.

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

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

1. BSC 2010C and either BSC 2011C or BSC 2012
2. CHM 2045, CHM 2045L, CHM 2046, CHM 2046L, or CHM 2055C, CHM 2056C
3. GLY 2041, GLY 2100
4. ECO 2041, ECO 2013 and one of ECO 3101 or ECO 3203
5. ENG 3373, ENG 3374, ENG 3375
6. ENG 3343 and one of EMC 3103 or EMC 3117
7. ENG 3313, EGN 3211, EGN 3311
8. PHY 3040, PHY 3040L, PHY 3041, PHY 3041L
9. PSY 2021, PSY 3013, PSY 3213

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

- COP 4303 (3) MAA 3102 (3)
- MAS 5146 (3) MAA 5402-5403 (6)
- STA 4442 (3) MAS 5311-5312 (6)
- MAD 4401 (4) STA 4442-4321 (6)

For information concerning the Program for graduate study in the College of Natural Sciences, see page 123. The following is a suggested course program for the first two academic years.

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Freshman Year</th>
<th>Semester II</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 1104</td>
<td>MAC 3110</td>
<td>MAC 3413</td>
</tr>
<tr>
<td>MAC 3412</td>
<td>MAC 3102</td>
<td>MAC 3103</td>
</tr>
<tr>
<td>MGF 3124</td>
<td>MGF 3102</td>
<td>MGF 3103</td>
</tr>
</tbody>
</table>

Students with a strong background in high school mathematics may omit MAC 1104. Students with a strong background in algebra, but who are deficient in trigonometry, should take MAC 1114 instead of MAC 1104.

**Teacher Education Programs:**

For information concerning the programs for secondary school teachers and junior college teachers, see page 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:

**Teacher Education Programs:**

Total credit hours required: 29 (minimum)
MAC 3411-3413 (12) Calculus I-III or equivalent
MAC 3102 (3) Set Theory

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

General requirements for graduate work are given on page 47. A thesis is optional. The thesis program requires a minimum of 30 credits of course work (excluding MAT 6945), of which the thesis may carry two to six credits. The non-thesis program requires 30 credits of course work. In either case 16 hours of the course work must be taken in courses numbered 6000 or above and the program must total at least 30 credits.

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

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

1. Algebra (MAS 5146, MAS 5311, MAS 5312)
2. Topology (MTG 5316, MTG 5317)
3. Real Analysis (MAA 5306, MAA 5307)
4. Probability (STA 5546, STA 5547)
5. Mathematical Statistics (STA 5326, STA 6327)
6. Applied Statistics (STA 5166, STA 5167)
7. Differential Equations (MAP 5316, MAP 5317)
8. Numerical Analysis (MAP 5345, MAP 5407)
9. Computer Science (CS 5302, CS 5303)

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 department chairperson.

Requirements for the Ph.D. Degree

In addition to the general University requirements for the Ph.D. degree, on page 52, the Mathematics department requires the following:

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

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

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

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

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

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

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

MEDICAL TECHNOLOGY (MET)

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

The University of South Florida offers a four-year program leading to the Bachelor of Science degree in Medical Technology. A student electing to major in Medical Technology will spend the first three years of the program on the campus of the University of South Florida; the fourth year (12 months) will be spent in one of the affiliated hospitals or clinical laboratories. Admission to the fourth year is limited by the number of openings in the affiliated hospitals. Selection of interns is made by the 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 90 credit hours of work (excluding physical education courses). Of these hours, at least 20 credit hours must be from the College of Natural Sciences at the University of South Florida (in courses approved by the Director of the Medical Technology Program). The following courses must be included in the three years of work which precedes the fourth year of clinical training.

1. Biological Sciences
   A minimum of 16 hours is required with at least one course in microbiology and one course in immunology. Physiology (PCB 3700 or PCB 4743C) is strongly recommended.

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

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

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

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

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

   This training period usually begins in early August or September of each year. During this period, one will continue to be registered as a full-time student of the University and will receive a total of 30 credit hours of work 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 excellently 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 medical physics. Supporting facilities include an IBM 3033N computer, a Tektronix 4501 graphics systems terminal located in the Physics Building, an excellently equipped machine shop and electronic shop, a glass blowing shop, an electron microscope, and an x-ray photoelectron spectrometer. Teaching assistantships and financial aid through the College Work-Study Program 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:

I. Physics Courses

<table>
<thead>
<tr>
<th>B.A. PHYSICS (PHY) (34 cr. hrs.)</th>
<th>B.S. PHYSICS (PHS) (43 cr. hrs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 3040 (3) PHY 4224 (3)</td>
<td>PHY 3040 (3) PHY 4224 (3)</td>
</tr>
<tr>
<td>PHY 3040L1 (1) PHY 4324 (3)</td>
<td>PHY 3040L1 (1) PHY 4324 (3)</td>
</tr>
<tr>
<td>PHY 3041 (3) PHY 4823L (2)</td>
<td>PHY 3041 (3) PHY 4823L (2)</td>
</tr>
<tr>
<td>PHY 3041L1 (1) PHY 4910 (1)</td>
<td>PHY 3041L1 (1) PHY 4910 (1)</td>
</tr>
<tr>
<td>PHY 3223 (3) PHY 4930 (1)</td>
<td>PHY 3223 (3) PHY 4930 (1)</td>
</tr>
<tr>
<td>PHY 3323C (4) PHY 5405 (3)</td>
<td>PHY 3323C (4) PHY 5405 (3)</td>
</tr>
<tr>
<td>PHY 3822L (2)</td>
<td>PHY 3822L (2)</td>
</tr>
</tbody>
</table>

II. Supporting Courses in the Natural Sciences

<table>
<thead>
<tr>
<th>B.A. and B.S. PHYSICS (20 hr.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 2045 (3) MAC 3411 (4)</td>
</tr>
<tr>
<td>CHM 2045L1 (1) MAC 3412 (4)</td>
</tr>
<tr>
<td>CHM 2046 (3) MAC 3413 (4)</td>
</tr>
</tbody>
</table>

III. General Distribution Requirements

(40 cr. hrs. excluding waivers)

The student must satisfy 16 hours of liberal education electives as described in item 3 of the graduation requirements of the College of Natural Sciences (see page 123).

IV. Liberal Education Electives

The student must satisfy 16 hours of liberal education electives as described in item 3 of the graduation requirements of the College of Natural Sciences (see page 123).

V. Free Electives

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

Teacher Education Programs:

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

Requirements for the M.A. Degree:

General requirements are given on page 47. When a student is admitted to the graduate program in physics, the student will consult with the Physics Graduate Adviser, who will be the student's course adviser and will also keep a close check on the 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 30 credits, no more than six of which may be for PHY 6911, PHY 6935 and PHY 6971. Of these 30 credits, 16 must be in courses numbered 6000 or above. Required courses are:

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

The Supervisory Committee will administer a comprehensive 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 30 credits (excluding PHY 6940), no more than two of which may be for PHY 6911 and PHY 6935. Of these 30 credits, 16 must be in courses numbered 6000 or above. Required courses are:

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

and a choice of any two of the following:

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

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

All graduate students are required to register for PHY 6935 in the first semester of each academic year and, in connection therewith, to attend all Physics Colloquia scheduled during the year.
NEW COLLEGE OF USF

New College, formerly a private liberal arts college, became a part of the University of South Florida in 1975, retaining its distinctive academic program and the status of an honors college within the greater University. It has, in fact, been designated a Program of Emphasis at the University of South Florida.

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

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

**The Academic Calendar and Residence Requirements**

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

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

**Educational Contracts**

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

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

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

**Admissions Requirements**

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

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

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

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

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

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

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

**Application Deadlines:**

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

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

**Degree Requirements**

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

137
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>
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<tr>
<td>Languages</td>
<td>Experimental</td>
<td>Sociology</td>
</tr>
<tr>
<td>Classics</td>
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<tr>
<td>Philosophy</td>
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<tr>
<td>Religion</td>
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</tbody>
</table>

Special Programs

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

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

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

New College students have the opportunity to audit Festival master classes and rehearsals, to compete for selection as Festival students, and also to attend student and public concerts.

Costs

Costs for attending New College of USF are the same as those for attending any part of the State University System. Costs are on a per credit-hour basis (see page 20 for University credit-hour costs). Each term's educational contract is the equivalent of 16 credit hours while each independent study project is equivalent to four credit hours. During the first two terms students are considered for fee purposes to be on a second-year college level. For the final five terms, students are considered to be taking upper-class courses with consequent cost differentials.

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

Student Life

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

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

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

NEW COLLEGE OF THE UNIVERSITY OF SOUTH FLORIDA

1981-82 ACADEMIC CALENDAR

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Interterm</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 26-28, Wed.-Fri.</td>
<td>Orientation/Registration/Advising</td>
<td>January 6, Wednesday</td>
</tr>
<tr>
<td>August 31, Monday</td>
<td>Term I Begins</td>
<td>February 2, Tuesday</td>
</tr>
<tr>
<td>September 7, Monday</td>
<td>Labor Day Holiday</td>
<td>February 2, Wednesday</td>
</tr>
<tr>
<td>October 19-23, Mon.-Fri.</td>
<td>Fall Break</td>
<td>February 8, Monday</td>
</tr>
<tr>
<td>November 11, Wednesday</td>
<td>Veterans Day Holiday</td>
<td>March 29, Monday</td>
</tr>
<tr>
<td>November 26-27, Thurs.-Fri.</td>
<td>Thanksgiving Holidays</td>
<td>April 2, Friday</td>
</tr>
<tr>
<td>December 18, Friday</td>
<td>Term Ends</td>
<td>May 28, Friday</td>
</tr>
<tr>
<td>December 21, Monday</td>
<td>Christmas Vacation Begins</td>
<td>May 29, Saturday</td>
</tr>
<tr>
<td>December 25, Friday</td>
<td>Christmas Day Holiday</td>
<td>May 31, Monday</td>
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<tr>
<td>January 1, 1982, Friday</td>
<td>New Year's Holiday</td>
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The College of Nursing is committed to the improvement of nursing and health care services through its educational programs, community service, and related research activities. In order to carry out its commitment in nursing education, the college offers an upper division competency-based program that leads to a baccalaureate degree with a major in nursing and a graduate program that leads to a Master of Science degree with a major in nursing.

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

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

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

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

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

Professional Nursing

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

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

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

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

The undergraduate program is developed around a conceptual framework which includes three major foci: Man, Health, and Nursing. The content and learning experiences are organized around the 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 include substantial theory and nursing practice in care of the physically and mentally ill, the young and the old, the acutely and chronically ill. They also provide opportunities for learning in health maintenance, preventive, and rehabilitative services and for functioning as members of nursing and health care teams in highly responsible and complex primary, secondary, and tertiary patient care settings. Learning experiences are provided in a variety of institutions and agencies involved in the delivery of nursing services.

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

The program provides: 1) the theoretical foundations underlying advanced practice, including opportunities to develop and test hypotheses related to practice; 2) opportunities to explore role theory in relation to the development and expansion of the professional nurse's leadership role; 3) introduction to research to nursing practice; 4) theory and practice in teaching of nursing in academic or in-service 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 enrollment at the College of Nursing through transfer to the College of Nursing through 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 of generic students is admitted in the fall semester of each year. The deadline for University application is January 4 of the year in which the student enrolls. Applications are available from: Office of Admissions, University of South Florida, Tampa, Florida 33620. In addition, a separate application must be submitted directly to the College of Nursing no later than February 1. College applications are available from: Assistant Dean for Student Personnel, College of Nursing, University of South Florida, Tampa, Florida 33612.

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

GENERAL REQUIREMENTS

Admission Requirements and Course Prerequisites

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

A. Overall Requirements

1. Completion of 60 semester hours of college level work with a cumulative grade point average of 2.5. Credit received on the basis of CLEP examinations or other appropriate procedures may be included to meet some of these requirements.

2. Completion of the University of South Florida general education distribution requirements as part of the above. These requirements may be satisfied by the completion of 40 semester hours in the following areas with not less than 6 semester hours in each area:
   a) English Composition
   b) Humanities/Fine Arts
   c) Mathematics/Quantitative Methods*
   d) Natural Sciences*
   e) Social Sciences*

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

B. Specific Course Prerequisites

The College of Nursing requires certain courses within the general education distribution for the natural, social and behavioral sciences, and mathematics. These requirements are outlined below.

The student must: 1) earn a grade of "C" or better in each course, 2) repeat no course more than once, 3) repeat no more than two (2) courses. Suggested courses are also included. Courses taken at another institution will be evaluated individually on the basis of content. Students in Florida community colleges can obtain information about equivalent courses from their counselors or by contacting the College of Nursing Assistant Dean for Student Personnel. (813)/975-2191

1. Mathematics/Quantitative Methods: completion of at least one course in mathematics and one course in statistics. CLEP subject exams are acceptable.
   a) Mathematics—one course. (College level algebra is highly recommended.)

   N.B. For students entering beginning September, 1982, 3 semester credits in college level algebra will be required for admission. This course must be completed with a grade of "C" or better.
   b) Statistics—one course in statistics must be completed with a grade of "C" or better. CLEP subject examination is acceptable. STA 3122

2. Natural Sciences: minimum of 14 semester credits (excluding anatomy, microbiology, and physiology). Each course taken toward meeting this requirement must have been completed with a grade of "C" or better. At least one course must include a laboratory or have a corequisite laboratory course. At least 6 semester credits must have been completed by the admission application deadline.
   a) Biology—a minimum of 6 semester credits. Courses should include content in 1) cell theory, 2) biological transport, 3) genetics, 4) evolution, 5) phylogenetic survey of plant and animal kingdoms, 6) ecology, etc. CLEP is acceptable.

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

   c) Other—the remaining credits can be earned by completing additional courses in biology and chemistry, or in genetics, physics, physical science, etc. (A course in non-quantitative physics is recommended but not required.)

3. Social Sciences: completion of each of the following with a grade of "C" or better in each course.
   a) American government—one course in modern American government or state and local government. CLEP is acceptable.

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

4. Supporting Sciences: Anatomy, microbiology and at least two of the other courses must be completed prior to enrollment in the nursing major with a grade of "C" or better in each course. The remaining course must be completed during the first quarter of the nursing major.
   a) Microbiology—one course. CLEP is not acceptable.

   b) Anatomy—one course. ACT/PEP is acceptable.

   c) Physiology—one course. ACT/PEP is acceptable.

   d) Nutrition—one course. College of Nursing Challenge...
Examination or University of Florida correspondence course are acceptable.  
HUN 3201

e) Human Growth and Development (Life Span)—Must include birth through aging process to death. CLEP is not acceptable.  
HUS 4020 or DEP 3103 and GEY 3000 or DEP 4005 and GEY 3000.  
N.B. Each of the above supporting science courses is not offered every semester, therefore, the student should plan 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 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

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

1) ACT/PEP—Anatomy and Physiology: a total of 6 semester credits can be earned by any undergraduate student to meet the course requirement in anatomy and physiology.

2) College of Nursing—Nutrition Challenge Examination: a total of 3 semester credits can be earned by any undergraduate student to meet the course requirement in nutrition.

3) have a minimum grade point ratio of 2.5 with a grade of "C" or better in each prerequisite course.

4) credit for previous nursing education and/or experience through satisfactory performance on one or more of the following 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 40 upper division credits or toward meeting the requirements of the upper division nursing major. The credits earned by passing the ACT/PEP examinations in nursing apply only to the B.S. degree with a major in nursing program offered by the College of Nursing. Additional information about the CLEP and ACT/PEP examinations may be obtained from the Office of Evaluation and Testing, University of South Florida. 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) have completed all prerequisites with not more than two (2) repeated courses and not more than one (1) repeat of any given prerequisite course.

6) have current licensure in Florida if enrolling in the program as a registered nurse.

In addition to the minimum requirements listed above, applicants will be evaluated on factors which are relevant to program completion and professional nursing practice: cumulative grade point average, performance in specific courses, and ability to communicate verbally and in writing. All applicants who appear to be eligible for admission may be interviewed. Those applicants with equal or highest total rankings are accepted in order until the quota is filled. As vacancies occur prior to the enrollment date, those next on the list are accepted to fill them. Enrollment of all students is contingent upon verification through official transcripts of satisfactory completion of all requirements for admissions.

DEGREE REQUIREMENTS

Generic students will be certified for the Bachelor of Science degree with a major in nursing upon completion of a minimum of 126 semester hours composed of general education requirements, science prerequisites (physical, biological, social and political), upper division and nursing electives, and required nursing courses. For registered nurse students admitted to the College of Nursing prior to Quarter II, 1981, a minimum of 180 quarter (120 semester) hours will be required for degree certification. For registered nurses admitted to the College of Nursing beginning Quarter II, 1981, a minimum of 190 quarter (126 semester) credits will be required for degree certification. A minimum grade of "C" or better 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 40 semester hours must be upper division level work (courses numbered 3000 or above).

Requirements for All Students Beginning Fall, 1981

Nursing Courses

Junior Year (3 semesters)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>NUR 3612</td>
<td>Nursing Process I (3)</td>
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<tr>
<td>NUR 3722C</td>
<td>Client Assessment I (2)</td>
</tr>
<tr>
<td>NUR 3722</td>
<td>Client Assessment I (2)</td>
</tr>
<tr>
<td>NUR 3612L</td>
<td>Nursing Intervention I (2)</td>
</tr>
<tr>
<td>NUR 3501</td>
<td>Nursing Core II (2)</td>
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<tr>
<td>NUR 3130</td>
<td>Nursing Process II (2)</td>
</tr>
<tr>
<td>NUR 3130L</td>
<td>Nursing Intervention II (3)</td>
</tr>
<tr>
<td>NUR 3321</td>
<td>Nursing Process III (2)</td>
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<tr>
<td>NUR 3321L</td>
<td>Nursing Intervention III (2)</td>
</tr>
<tr>
<td>NUR 3723C</td>
<td>Client Assessment II (2)</td>
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<tr>
<td>NUR 3502</td>
<td>Nursing Core III (2)</td>
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<tr>
<td>NUR 4636</td>
<td>Nursing Process IV (3)</td>
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<tr>
<td>NUR 4636L</td>
<td>Nursing Intervention IV (4)</td>
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Senior Year (2 semesters)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>NUR 4505</td>
<td>Nursing Core IV (2)</td>
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<tr>
<td>NUR 4651</td>
<td>Nursing Process V (2)</td>
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<tr>
<td>NUR 4651L</td>
<td>Nursing Intervention V (2)</td>
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<tr>
<td>NUR 4652</td>
<td>Nursing Process VI (2)</td>
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<tr>
<td>NUR 4652L</td>
<td>Nursing Intervention VI (2)</td>
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<tr>
<td>NUR 4653</td>
<td>Nursing Process VII (2)</td>
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<tr>
<td>NUR 4653L</td>
<td>Nursing Intervention VII (2)</td>
</tr>
<tr>
<td>NUR 4506</td>
<td>Nursing Core V (3)</td>
</tr>
<tr>
<td>NUR 4943L</td>
<td>Preceptorship (6)</td>
</tr>
</tbody>
</table>

In addition to the requirements listed above, a minimum of 10 credits in upper division electives will be required for graduation: at least six (6) credits in upper division courses in general education (courses in arts, humanities, natural or behavioral sciences, economics, business or management, education, etc., are acceptable) and at least four (4) credits in nursing electives (NUR 4930, Selected Topics in Nursing, and/or NUR 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 40 semester hours of credit at the upper division level with at least 30 semester hours in nursing courses (not to include human physiology and nutrition) are required for graduation.
Nursing Courses
NUS 3220 Biopsychosocial Pathology (3)
NUS 3241C Planning, Implementing and Evaluating Nursing Intervention (3)
NUS 4291L Nursing Practicum I (3)
NUS 4422 Nursing Process Synthesis (4)
NUS 4422L Nursing Practicum II (4)
NUS 4300 Nursing Inquiry (2)
NUR 4943C Nursing Practicum III (5)

*Available only to Registered nurse students currently enrolled.

Graduate Education in Nursing

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

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

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

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

Admission Requirements

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

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

Applicants are admitted to the program during the fall semester of each year. Admission to the program is on a competitive basis and is based on the admission criteria outlined below and on the availability of adequate facilities and faculty. All admission materials must be completed and filed with the Office of Admissions no later than March 1.

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. A graduate degree or demonstrated ability in performing graduate work may be substituted for the 3.2 GPA.
2. A minimum total score of 1,000 on the verbal and quantitative portions of the Graduate Record Examination with a minimum score of 450 in each of these categories, i.e., verbal comprehension and mathematical skills.
3. A score of 46 or above on The Miller Analog Test.
4. Three letters of reference from professional nurses who can attest to the applicant's professional competence, academic ability and potential for graduate study.
5. A minimum of one year of experience in clinical nursing practice.
6. A course in elementary statistics including introduction to probability and testing hypotheses.
7. College credit for a course in physical assessment, and/or demonstration of competency through a challenge examination.
9. Physical examination not more than four months prior to enrollment.
10. Professional liability insurance.
11. Florida resident at the time of enrollment.

Application Process

1. Complete and submit application forms to the Office of Admissions at USF not later than March 1.
2. Provide necessary transcripts of all previous college work.
3. Provide results of scores on the Graduate Record Examination and The Miller Analog Test.
4. Attend a group advisement session at the College of Nursing.
5. Complete a personal interview with designated College of Nursing faculty.
6. Submit letters of reference as indicated under criteria for admission.

Course Requirements

NUR 6270C Common Health Problems I (3)
NUR 6271C Common Health Problems II (3)
NUR 6272 Management of Common Health Problems (2)
NUR 6515 Issues in Gerontology (2)
NUR 6516C Physiological and Psychological Aspects of Gerontological Nursing (2)
NUR 6720 Advanced Physiologic Assessment (4)
NUR 6721 Advanced Pathophysiology (2)
NUR 6751C Adult Health Assessment (3)
NUR 6905 Independent Study (1-6)
NUR 6931 Selected Topics (1-4)
NUR 6945 Practicum in Clinical Nursing I (4)
NUR 6946 Practicum in Clinical Nursing II (4)
NUR 6947 Practicum in Nursing Education (4)
NUR 6971 Thesis: Master's (var)
NUR 6171C Nursing Education in Institutions of Higher Education (2)
NUR 6216C Management in Clinical Nursing Practice (2)
NUR 6227 Role Development I (2)
NUR 6228 Role Development II (2)
NUR 6293C Factors Influencing Health Care (2)
NUR 6353C Curriculum and Instruction in Nursing Education (2)
NUR 6370 Nursing Research (3)
NUR 6510 Foundations of Nursing Theory (3)
Graduation Requirements

1. A minimum of 48 semester hours.
2. A thesis or major scholarly work is required of all candidates.
3. A minimum cumulative grade point average of B (3.0).
4. A minimum grade of C (2.0) in each course accepted toward the graduate degree.
5. A minimum grade of B (3.0) in all undergraduate courses (1000-4000 level) taken after matriculation as electives or to make up deficits. Grades for these courses are not computed in the overall academic average.
6. All incomplete grades must be removed from the student's record before graduation.
7. Degree requirements must be completed within five (5) 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 appropriate College of Nursing personnel. The degree candidate is responsible for obtaining and submitting the degree application form by 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 ongoing 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 $100-150 per semester. 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 semester of the junior year. Uniform specifications and policies have been developed by students enrolled in the first class and costs vary depending upon personal choice. In addition, lab coats or aprons are necessary during the first semester. Graduate students should expect additional expenses for equipment.

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 setting of the University in the rapidly expanding Tampa Bay metropolitan area provides exceptional opportunities for the development of urban related academic programs, research and community service. By the authorization of the Board of Regents, a Program for Emphasis in Human Services was established at USF for the enhancement of selected programs in the College of Social and Behavioral Sciences and the College of Nursing.

Three programs in the college—Urban Community Psychology, Gerontology, and Urban Anthropology—were approved several years ago by the Board of Regents as Programs of Distinction. Although the programs are housed respectively in the Departments of Psychology, Gerontology, and Anthropology, they utilize faculty expertise from many disciplines. Students majoring in these areas receive distinctive educational experiences in both university and community settings.

The Human Resources Institute of the College of Social and Behavioral Sciences was established to address critical issues in the broad human resources sector through a comprehensive program of research and service. The following Centers are related to the Human Resources Institute: Center for Applied Anthropology, Center for Applied Gerontology, Center for Community Development and Analysis, Center for Community Psychology, and Center for Evaluation Research.

**BACALAUREATE LEVEL DEGREE PROGRAMS**

**Admission to the College**

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

Undergraduate students must submit a formal application for admission to the college. This application is available in the College Office of Advising and Student Records. Students will then be counseled by an academic adviser in his/her major field. Information about majors, departments, programs, advising, and other services of the college may be obtained from the Assistant Dean College of Social and Behavioral Sciences, University of South Florida, Tampa, Florida, 33620.

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

**Honors Programs**

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

**General Requirements for Degrees**

The College of Social and Behavioral Sciences currently offers two undergraduate degrees: Bachelor of Arts and Bachelor of Social Work. Requirements for graduation (referred to on page 37) are summarized as follows:

1. 120 credits with at least a "C" average (2.0) in courses taken at the University of South Florida. At least 40 of these 120 credits must be in courses numbered 3000 or above. (A maximum of two credits of physical education courses may be counted toward graduation requirements; no credits in physical education are required.)
2. 40 credits of general distribution courses 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 36). 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. 80 credits outside the major.
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 30 of the last 60 credits in academic residence at USF. The approval of the Dean of the college granting the degree must be secured for any transfer credits offered for any part of these last 60 hours. A maximum of 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 14 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:

- Afro-American Studies (AFA)
- Anthropology (ANT)
- Criminal Justice (CCJ)
- Economics (ECN)
- Geography (GPY)
- Gerontology (AGE)
- History (HTY)
- Interdisciplinary Social Sciences (SSI)
- International Studies (INT)

- Political Science (POL)
- Psychology (PSY)
- Sociology (SOC)
- Social Science Education (SSE)*

A Bachelor of Social Work Degree (B.S.W.) is also offered.

Social Work (SOK)

*Offered jointly with the College of Education.

**Offered subject to Regents approval.

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:

- Anthropology (ANT)
- Criminal Justice (CCJ)
- Geography (GPY)
- Gerontology (AGE)
- History (HTY)
- Political Science (POL)
- Psychology (PSY)
- Rehabilitation Counseling (REH)
- Post-Baccalaureate
- Rehabilitation Counseling (REF)
- 5-year program
- Sociology (SOC)

A Master of Public Administration Degree (M.P.A.) is also offered.

- Public Administration (PAD)

A Master of Social Work (M.S.W.) will be offered subject to Regents approval.

Social Work (SOK)

In addition to the Master of Arts degree offered from the Department of Psychology, two majors are offered under the College of Education in Social Science Education, School Psychology, and the Junior College Teacher's Program.

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

- Audiology (AUD)
- Post-Baccalaureate
- Audiology (AUF)
- 5-year program
- Aural (Re) Habilitation (ARH)
- Post-Baccalaureate
- Aural (Re) Habilitation (ARF)
- 5-year program
- Speech Pathology (SPP)
- Post-Baccalaureate

**Doctor of Philosophy**

The Department of Psychology offers a program leading to the degree of Doctor of Philosophy.

**Programs Leading to the Baccalaureate Degree**

The College of Social and Behavioral Sciences offers a major in 14 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:

- Afro-American Studies (AFA)
- Anthropology (ANT)
- Criminal Justice (CCJ)
- Economics (ECN)
- Geography (GPY)
- Gerontology (AGE)†
- History (HTY)
- Interdisciplinary Social Sciences (SSI)
- International Studies (INT)
- Political Science (POL)
- Psychology (PSY)
- Sociology (SOC)
- Social Science Education (SSE)*

A Bachelor of Social Work Degree (B.S.W.) is offered.

Social Work (SOK)

*Offered jointly with the College of Education.

†Subject to BOR approval.

SPECIAL NON-DEGREE PROGRAMS

The Gerontology undergraduate program consists of a core of courses designed for interested students. These courses are GEY 3000, GEY 3100, GEY 4930. Additional information will be found in the Gerontology section of the catalog.

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

The WOMEN'S STUDIES PROGRAM consists of courses designed to deal with historical, anthropological, sociological, and psychological aspects of the woman's role and of the female experience. This program is presently housed in the Department of Interdisciplinary Social Sciences, and the courses are listed under Women's Studies.

The HUMAN SERVICES COURSES are designed for students interested in careers in the human sciences and services, and may be taken in conjunction with any major or by special students.

These courses are coordinated by the Department of Gerontology, and the courses are listed as:

- HUS 3010
- HUS 4500
- MHT 4302
- HUS 4332
- HUS 5224
- SOW 4332
- HUS 4020

**Certificate in Latin American Studies**

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

A minimum of 24 semester hours is required of all students seeking such a certificate. Of these, at least 16 must be planned
around the following core courses:

- GEA 3400 Geography of Latin America
- LAH 3022 Modern Latin America
- CPO 4930 Comparative Government and Politics
  (Latin America)
- SPT 3131 Spanish American Literature in Translation;
or equivalent in original Language.

The remaining 8 hours must be selected from other specified courses with Latin American content, a list of which is available from the Latin American Studies Coordinator.

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

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

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

**Academic Minor Programs**

In order to help students develop some concentration in elective work taken in conjunction with their chosen major, the College of Social and Behavioral Sciences offers minors in the following fields: African Studies, Afro-American Studies, Anthropology, Economics, Geography, History, Human Services, 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 for the minor or for general distribution requirements; (2) only degree-seeking students may earn a minor in the social and behavioral sciences; and (3) SSI majors may not earn a minor in any of the social and behavioral sciences. Minors will be certified at the time of graduation.

**PROGRAMS AND CURRICULA**

- **AFRICAN AND AFRO-AMERICAN STUDIES (AFA)**

  The African and Afro-American Studies Program provides a quality undergraduate education leading to a Bachelor of Arts degree in African and Afro-American Studies. Essentially it is a service program which provides opportunities for all students to broaden the bases of their knowledge of the entire human experience and intercultural understanding so essential to living in a multi-racial society and a world that has become a global village. It provides a new horizon in liberal education that seeks 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 the African and Afro-American Studies major is open to all students who have been duly admitted to the University of South Florida by the Office of Admissions and who file necessary papers in the Office of the Coordinator of Advising, College of Social and Behavioral Sciences, to declare a major in the field. All of the program's courses are open to all other students—regular and special—of the University.

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

  The major in African and Afro-American Studies consists of a minimum of 36 hours in the field specified as follows:

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

  **Required Supporting Courses (6 cr. hrs.)**
  - AFA 4150 (3) AFS 4910 (1-3) PHM 4120 (3)
  - AFS 3311 (3) ECP 4143 (3)

  **Suggested Elective Courses (15 cr. hrs.)**
  - AFA 4331 (3) INR 4254 (3) AFA 4931 (1-3)
  - AFS 4321 (3) AFA 4900 (2-3) CPO 4254 (3)
  - HUM 3420 (3) CPO 4244 (3)
  - CPO 4204 (3) PUP 3313 (3)

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

**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 Semester (August) 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 environment impact assessment, and public policy analysis.

Requirements for The B.A. Degree in Anthropology (ANT)

The major in Anthropology consists of a minimum of 36 credit hours including 33 credit hours in the field and the course Social Science Statistics (STA 3122) or its equivalent. ANT 2000 is prerequisite to all subsequent courses. ANT 3100, ANT 3410, ANT 3511 and ANT 3610 are required as intermediate level training in the main subdivisions of the field, and ANT 4034 and ANT 4935 complete the specific requirements. Majors are required to complete a minimum of 12 hours of elective coursework, 9 hours of which must come from three of the following four subdivision clusters:

Cluster I (Archaeology)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ANT 4133</td>
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<tr>
<td>ANT 4172</td>
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<tr>
<td>ANT 4124</td>
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<tr>
<td>ANT 4153</td>
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<td>ANT 4181</td>
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<td>ANT 4158</td>
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<tr>
<td>ANT 4180</td>
<td>4</td>
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<tr>
<td>ANT 4163</td>
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Cluster II (Physical Anthropology)

<table>
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<tr>
<td>ANT 4542</td>
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<tr>
<td>ANT 4552</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4583</td>
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Cluster III (Anthropological Linguistics)

<table>
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<td>ANT 4620</td>
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<tr>
<td>ANT 4750</td>
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Cluster IV (Cultural Anthropology)

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<th>Course</th>
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</thead>
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<tr>
<td>ANT 4226</td>
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<tr>
<td>ANT 4316</td>
<td>3</td>
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<tr>
<td>ANT 4462</td>
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<tr>
<td>ANT 4231</td>
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<td>ANT 4326</td>
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<td>ANT 4495</td>
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<td>ANT 4241</td>
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<tr>
<td>ANT 4312</td>
<td>3</td>
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<tr>
<td>ANT 4442</td>
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</tbody>
</table>

The remaining 3 minimum elective hours may come from any of the department's elective offerings, including ANT 4901 (1-4), ANT 4907 (2-4), ANT 4930 (3), and those in the clusters described above. Anthropology majors are urged to become competent in the use of a foreign language. Exceptions to course prerequisites require the consent of the instructor.

Required Core Courses (21 cr. hrs.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ANT 2000</td>
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<tr>
<td>ANT 3511</td>
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<td>ANT 4034</td>
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<td>ANT 3610</td>
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<td>ANT 4935</td>
<td>3</td>
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<tr>
<td>ANT 3410</td>
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</tbody>
</table>

Requirements for the Minor In Anthropology

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

A. 2000-level required core course (3 cr. hrs.)
   ANT 2000 (3)

B. 3000-level subfield courses (3-6 cr. hrs.)
   ANT 3100 (3) ANT 3511 (3)
   ANT 3410 (3) ANT 3610 (3)

C. 4000-level elective courses (9-12 cr. hrs.) (as described in Clusters I, II, III, and IV above)
Requirements for the Undergraduate Focus In Applied Anthropology

This sequence is designed for Anthropology majors who wish to include career training as part of their Anthropology curriculum. The student is required to complete the major in Anthropology, making certain to take the following Focus courses:

ANT 4495 (3) ANT 4442 (3)
ANT 4705 (3) or
ANT 4462 (3)

In addition, the student must take ANT 4907 (3), the setting in which the off-campus practicum is pursued. A departmental Letter of Achievement is awarded upon graduation and successful completion of Focus requirements with a "B" average (3.0). Information regarding admission into the Focus program may be obtained from the department undergraduate adviser.

Requirements for the M.A. Degree

General requirements for graduate work are given on page 36.

The student must complete 35 semester 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, or for a minimum of three semester hours, and two graduate-level courses, normally taken outside the department, for a minimum of five semester hours, chosen in mutual agreement by the student and his/her adviser; successfully pass the comprehensive examination; undertake directed research (internship); and write a thesis. The student must maintain a "B" average in all course work. In addition, the program requires a "B" average for the four core seminars before the student can proceed to take the comprehensive examination.

I. Courses Required of All Students

A. Core courses

ANT 6186 (3) ANT 6588 (3)
ANT 6490 (3) ANT 6676 (3)

B. Additional Requirements

Two graduate-level courses normally taken outside the department; one graduate-level statistics course.

C. ANT 6915 (4) ANT 6971 (2)

II. Courses in One of Three Tracks

A. Medical Anthropology Track

ANT 6463 (3) ANT 6737 (3)
ANT 6469 (3)

B. Urban Anthropology Track

ANT 6446 (3) ANT 6448 (3)
ANT 6447 (3)

C. Public Archaeology Track

ANT 6196 (3) ANT 6198 (3)
ANT 6197 (3)

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 Association for the Certificate of Clinical Competence. In addition to the core subject material each student may elect to pursue a program of specialization in the areas of Speech-Language Pathology, Audiology or Aural (Re)Habilitation.

The Speech-Language Pathology and Audiology programs are currently under review for accreditation by the Education and Training Board of the American Board of Examiners In Speech Pathology and Audiology. The Aural (Re)Habilitation program is completing the accreditation process administered by the Council on Education for the Deaf.

Undergraduate students enroll in a five-year program terminating in the Master of Science degree in Speech-Language Pathology, Audiology or Aural (Re)Habilitation. Students may apply for acceptance in the M.S. degree program upon attaining junior class standing, completion of the basic departmental core curriculum with a 3.0 grade point average, submitting cumulative Graduate Record Examination scores of 850 or greater (Verbal/Quantitative), and demonstrating competency in communication skills as determined by the chairperson or his/her delegate. Students may not apply for the baccalaureate degree. Programs are planned through the master's degree at the time of acceptance.

Applicants holding a baccalaureate degree from an accredited college or university with appropriate prerequisite coursework will be eligible for admission if the following minimal requirements are met:

1. Submission of a cumulative score of 1000 or greater for the GRE aptitude tests (Verbal/Quantitative) plus a grade point average of 3.0 (A=4.0) for the last half of their undergraduate coursework.
2. Submission of three satisfactory letters of recommendation for graduate study, and
3. Demonstration of competency in communication skills as determined by the Chairperson or his/her delegate.

The Department is currently planning a baccalaureate program in manual communications and interpreting for the deaf. This program will include specialization in the areas of legal and medical interpreting and should be available for enrollment during the 1982-83 academic year.

Requirements for the M.S. Degree

In Speech-Language Pathology—

Post-Baccalaureate (SPP)

General requirements for graduate work are already delineated by the University's Graduate School. A minimum of 30 credits is required as well as completion of a sufficient coursework and practicum to meet the American Speech-Language and Hearing Association's requirement for clinical certification in speech-language pathology. The attainment of clinical competency as determined by a minimum GPA of 3.0 in Graduate Practicum and the approval of a majority of the academic staff of the Department of Communicology is also required for graduation. The student with an existing bachelor's degree and appropriate prerequisites may plan his/her degree program from among the following courses with approval of the department chairperson or his/her delegate:

1. Submission of a cumulative score of 1000 or greater for the GRE aptitude tests (Verbal/Quantitative) plus a grade point average of 3.0 (A=4.0) for the last half of their undergraduate coursework.
2. Submission of three satisfactory letters of recommendation for graduate study, and
3. Demonstration of competency in communication skills as determined by the Chairperson or his/her delegate.

The Department is currently planning a baccalaureate program in manual communications and interpreting for the deaf. This program will include specialization in the areas of legal and medical interpreting and should be available for enrollment during the 1982-83 academic year.

Requirements for the Combined Undergraduate/Graduate M.S. Degree

In Speech-Language Pathology (SPF)

A minimum total of 150 credits is required for the combined undergraduate/graduate M.S. program. In addition to the General Distribution requirements the following courses will be required for all programs:

EXIN 3010 (3) SPA 5002 (4) SPA 5600 (3)
LIN 4710 (3) SPA 5201 (3) SPA 6410 (3)
SPA 3080 (4) SPA 5210 (3) SPA 6505 (1-8)
SPA 3101 (4) SPA 5222 (3) SPA 6906 (var.)
SPA 3110 (4) SPA 5303 (4) SPA 6930 (3)
SPA 3117 (4) SPA 5402 (3) SPA 6910 (var.)
SPA 4050 (1-8) SPA 5550 (4) SPA 6971 (var.)
SPA 4255 (3) SPA 5557 (1-8)

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-Language 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 Graduate School. A minimum of 30 credits is required as well as sufficient coursework and practicum to meet the American Speech-Language 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 (3) SPA 5402 (3) SPA 6423 (4)
- SPA 4255 (3) SPA 5557 (1-8) SPA 6505 (1-8)
- SPA 4333 (2) SPA 6305 (3) SPA 6825 (3)
- SPA 4363 (4) SPA 6332 (4) SPA 6906 (var.)
- SPA 5002 (4) SPA 6332 (4) SPA 6930 (3)
- SPA 5132 (4) SPA 6335 (2) SPA 6910 (var.)
- SPA 5303 (4) SPA 6345 (3) or
- SPA 5312 (4) SPA 6354 (3) SPA 6971 (var.)

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

A minimum of 150 credits is required for the combined program. In addition to the General Distribution requirements the following courses will be required for all programs:

- LIN 3010 (3) SPA 5132 (4) SPA 6354 (3)
- LIN 4710 (3) SPA 5303 (4) SPA 6505 (1-8)
- SPA 3080 (4) SPA 5312 (4) SPA 6825 (3)
- SPA 3101 (4) SPA 5402 (3) SPA 6906 (var.)
- SPA 3110 (4) SPA 5557 (1-8) SPA 6930 (3)
- SPA 3117 (4) SPA 6305 (3) SPA 6910 (var.)
- SPA 4050 (1-8) SPA 6322 (4) or
- SPA 4333 (2) SPA 6345 (3) SPA 6971 (var.)
- SPA 4363 (4)

In addition, sufficient and appropriate coursework (approved by the department chairperson or his/her delegate) must be included to meet the preparation requirements of the American Speech-Language and Hearing Association for the Certificate of Clinical Competence in Audiology. The attainment of clinical 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 (Re)Habilitation—Post Baccalaureate (ARH)

General requirements for graduate work are already delineated by the University's Graduate School. A minimum of 30 credits is required as well as sufficient coursework, practicum and internship to meet the Florida State Department of Education certification requirements for specialization with the hearing impaired. The attainment of clinical 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 (3) SPA 4363 (4) SPA 6423 (4)
- LIN 4710 (3) SPA 5303 (4) SPA 6505 (1-8)
- SPA 2001 (2) SPA 5557 (1-8) SPA 6825 (3)
- SPA 3080 (4) SPA 6305 (3) SPA 6906 (var.)
- SPA 3101 (4) SPA 6332 (4) SPA 6930 (3)
- SPA 3117 (4) SPA 6332 (4) SPA 6910 (var.)
- SPA 4050 (1-8) SPA 6335 (2) or
- SPA 4333 (2) SPA 6345 (3) SPA 6971 (var.)

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

A minimum of 150 credits is required for the combined programs as well as sufficient coursework, practicum and internship to meet the Florida State Department of Education certification requirements for specialization with the hearing impaired. The attainment of clinical competence as determined by a minimum GPA of 3.0 in Graduate Practicum and the approval of a majority of the academic staff of the Department of Communicology is also required for graduation. Students may plan programs with emphasis in the areas of preschool, school age, multiply handicapped, and adult hearing impaired. In addition to the General Distribution requirements all teachers of the deaf programs will be planned to include coursework from the appropriate teacher preparation areas within the College of Education as well as from the following:

- LIN 3010 (3) SPA 4363 (4) SPA 6423 (4)
- LIN 4710 (3) SPA 5303 (4) SPA 6505 (1-8)
- SPA 2001 (2) SPA 5557 (1-8) SPA 6825 (3)
- SPA 3080 (4) SPA 6305 (3) SPA 6906 (var.)
- SPA 3101 (4) SPA 6332 (4) SPA 6930 (3)
- SPA 3117 (4) SPA 6332 (4) SPA 6910 (var.)
- SPA 4050 (1-8) SPA 6335 (2) or
- SPA 4333 (2) SPA 6345 (3) SPA 6971 (var.)

Requirements for the Minor In Manual Communications

A Minor in Manual Communications is available to undergraduate students interested in attaining an understanding of the communication problems associated with deafness and developing competency in receptive and expressive manual language skills.

The minor consists of the following courses which must be taken in the sequence indicated:

- SPA 2001 (2) SPA 4333 (2) SPA 4930 (3)
- SPA 4363 (4) SPA 4050 (3)

Departmental approval for the minor must be obtained prior to enrolling in any of the required 4000-level courses.

CRIMINAL JUSTICE (CCJ)

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

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

Requirements for the B.A. Degree:

A minimum of 39 semester hours is required of all undergraduate majors in Criminal Justice including the following courses or their equivalents:

- CCJ 3020 (3) CCJ 3701 (3) CCJ 4360 (3)
- CCJ 3280 (3) CCJ 4110 (3) CCJ 4934 (3)
- CCJ 3620 (3) CCJ 4202 (3) CCJ 4940 (9)

In addition to the above, a minimum of 6 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 (30 semester hours) in "on-campus" courses. All undergraduate transfer students electing Criminal Justice as their major will be required moreover to take a minimum of 27 credits in major coursework at the University of South Florida. The residence requirements are designed to insure that transfer students who subsequently receive their baccalaureate degree from the University of South Florida with a major in Criminal Justice will have been exposed to the same body of knowledge in their major as those students who complete all or a
major portion of their coursework at the University of South Florida.

Any student who receives a grade of "D" or lower in more than one USF CCJ course will be automatically barred from continuing as a Criminal Justice major. This applies only to students whose first USF CCJ course was taken during Fall Quarter (I) 1975 or thereafter.

*In-service students are required to take only 3 hours of CCJ 4940, thus reducing their major course credits to 33 semester hours.

Requirements for the M.A. Degree:

University requirements for graduate study are given on page 36. 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.

**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. 38 semester hours of CCJ work (or approved equivalents) which include:
   - CCJ 6285 (3) CCJ 6705 (3)**
   - CCJ 6305 (3) CCJ 6709 (3)
   - CCJ 6402 (3) CCJ 6920 (2)**
   - CCJ 6605 (3) CCJ 6935 (3)
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 semester in the program.

## ECONOMICS (ECN)

Requirements for B.A. Degree

Economics is one of the vital disciplines investigating the complex problems and relationships in modern society. Indeed the very breadth of economics has led to major areas within the discipline, including labor economics, international economics, urban and regional economics, monetary economics, public finance, industrial organization, comparative economic systems and the like. Students are given a sound grounding in economic theory and economic statistics to facilitate the investigation of the problems of human behavior, decision-making and organizational effectiveness in these problem areas.

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

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

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

In addition to this core, students are encouraged to select 3000-level courses in several of the applied areas during their junior year. The remaining economics electives must be selected from those upper level courses that provide the type of program that best suits the students' interests and objectives. Additional flexibility in pursuing these interests is provided by the ECO 4905 and ECO 4914 courses. However, not more than 6 hours of credit may be earned in ECO 4905 and ECO 4914.

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

**Requirements for a Minor in Economics**

A student may minor in economics by completing 18 or more credit hours in economics as follows:

(a) A minor must include these four courses in basic economics:

- ECO 2023 Economic Principles I: Microeconomics (3)
- ECO 2013 Economic Principles II: Macroeconomics (3)
- ECO 3101 Intermediate Price Theory (3)
- ECO 3203 Intermediate Income & Monetary Analysis (3)

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

(c) Before being recognized as a minor in economics, a student must obtain approval by the adviser in the Economics Department 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 12 of the required 18 credits must be taken in residence at USF.

Students interested in majoring or minoring in economics are encouraged to contact the departmental adviser for more information about these programs.

## GEOGRAPHY (GPF)

Requirements for the B.A. Degree:

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

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

Students are encouraged to take elective credits in a wide variety of disciplines because of the cross-disciplinary approach to geography. 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 36 credit hours as follows:

- **Required core courses (12 credit hours):**
  - GEO 3013 (4) GEO 3370 (4) GEO 4100C (4)
  - One of the following (4 credit hours):
    - GEO 4280C (4) MET 4002 (4)
    - Two of the following (8 credit hours):
      - GEO 3402 (4) GEO 4440 (4)
      - GEO 4372 (4) GEO 4460 (4)
      - One course with a GEA prefix (4 credit hours)
- Any additional 8 credit hours in geography, excluding:
  - GEO 3901 GEO 4900 GEO 4910
  - GEO 3931C

- **Intermediate Price Theory**
- **Microeconomics**
- **Macroeconomics**
Requirements for the Minor:
A minor in Geography consists of sixteen hours, with a minimum grade point average of 2.0. The required courses are:
GEA 3000 (4)  GEO 3013 (4)  GEO 3370 (4)
One upper level elective (GEA, GEO, MET, or URP 3000-5000 level) (4)

Requirements for the M.A. Degree
General requirements for graduate work are given on page 36. All students must complete 30 credit hours in graduate geography courses, following one of the two plans outlined below. A written and oral comprehensive examination covering the general field of geography is required before graduation, and the student must demonstrate his ability to translate into English the pertinent scientific literature from one modern foreign language. Foreign students, whose mother tongue is not English, may use English as their foreign language. A computer language (such as Fortran) may be used to meet the language requirement.

Thesis Program: The 30 credit hours in geography must include:
GEA 6195  GEO 6119  GEO 6428
GEO 5065  GEO 6209C  GEO 6971
Up to six credits outside the department may be elected with the approval of the student's committee and major professor. An oral defense of the thesis is required.

Non-Thesis Program: The 30 credit hours in geography must include:
GEA 6195  GEO 6209C  GEO 6945
GEO 5065  GEO 6428  GEO 6947
GEO 6119
The remaining credit hours must be approved by the student's committee and major professor, and may include up to six credits outside the department.

GERONTOLOGY (GEY)

Undergraduate Program
The Department of Gerontology provides a core of four courses at the undergraduate level. These courses range from Introduction to Gerontology to Seminar in Selected Topics in Social Gerontology, and are designed as electives for students from a variety of areas, particularly the human service areas. More generally, the objective of the sequence of undergraduate courses is to provide students with a broad educational experience in gerontology.

B.A. Degree in Gerontology (Approval Pending)
Providing it is approved by the Board of Regents, a Bachelor of Arts in Gerontology degree will be offered beginning in the Fall Semester of 1981. The goal of the degree program will be to provide not only a broad educational experience in the many aspects of human aging but also classroom and field training in one of three specialized career tracks which may be selected by the student: nursing home administration, senior center administration, or retirement housing management.

Minor in Human Services
An undergraduate minor in Human Services is available for students interested in pursuing careers in fields such as social welfare, health care and mental health care, rehabilitation, and corrections. This minor may be taken in conjunction with any undergraduate major but it should be particularly beneficial to persons who are majoring in such disciplines as anthropology, criminal justice, nursing, political science, psychology, social work, and sociology. The Human Services courses are closely related to the Urban Community Psychology and Gerontology Program of Distinction and will be taught by qualified faculty from the various disciplines within the College of Social and Behavioral Sciences. The Human Services minor is coordinated by the Department of Gerontology. Requirements for the minor are a total of 15 hours of the following upper-level courses:

- HUS 3010 (3)  HUS 4500 (3)  SOW 4332 (3)
- HUS 3300 (3)  MHT 4302 (3)  HUS 5224 (3)
- HUS 4020 (4)

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 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 semester 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 four semesters of full-time study—or the part-time equivalent thereof—including one semester 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 38 credits hours in approved courses. Prior to beginning the program, each student will confer with a departmental adviser who will thoroughly review the student's academic background, experience, and career interests and develop an approved, individual curriculum from the available Gerontology courses.

Required courses for the M.A. degree include:

- GEY 5620 (3) GEY 6450 (3) GEY 6931 (1)
- GEY 5630 (3) GEY 6500 (3) GEY 6932 (1)
- GEY 6325 (3) GEY 6600 (3) GEY 6940 (6)
- GEY 6350 (3) GEY 6930 (1)

Majors are also required to take a minimum of 8 hours from the following:

- GEY 5642 (3) GEY 6901 (1-4) GEY 6933 (1)
- GEY 5645 (3) GEY 6910 (1-4) GEY 6934 (2)

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.

HISTORY (HTY)

Requirements for the B.A. Degree:

A minimum of 32 semester hours is required for a major in history. Twelve hours of 2000 level courses, or their equivalent, constitute the lower level requirements. HIS 4152, and 4936 constitute the upper level requirements for the degree. At least 12 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 six (6) hours of course work offered by other departments and apply these hours toward meeting the course requirements in history. The course work undertaken outside the Department of History must complement the student's program in history.

It is recommended that history majors take ENC 3466, "Advanced Expository Writing," SPC 2023, "Fundamentals of Speech Communication," LIS 2001, "Use of the Library," and additional hours drawn from the following disciplines: Afro-American Studies, Anthropology, Economics, Geography, Political Science, Interdisciplinary Social Sciences, Psychology, Philosophy, Sociology, Literature, the Humanities, and the Fine Arts. Majors intending to pursue graduate work should take a minimum of two years of classical or modern foreign language.

Requirements for the Minor:

The Department of History offers two options for students interested in the minor in History. Option one requires four history courses (at least 15 hours) at the 3000 and 4000 level drawn from a minimum of three of the following fields: a) Ancient; b) Medieval; c) Modern European; d) United States; e) Non-Western; Latin American, Asian, African. Option two entails a 15-hour program organized and contracted by the student and the department around the specific needs of the student's major program. In both plans, a minimum of 8 hours must be completed at the University of South Florida and the student must maintain a 2.0 GPA in the 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 36 hours in the following distribution: a 4 hour core course; 16 hours in a major field in history; and 8 hours in a minor field. 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 regularly scheduled courses.

Of the 36 hours required for the Master of Arts, at least 20 must be in formal, regularly scheduled course work. A minimum of 16 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 course, HIS 6112, "Analysis of Historical Knowledge," is 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.
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 42 credits in courses offered in the college including STA 3122, Social Science Statistics and a minimum of six credits in Interdisciplinary Social Science courses. At least 28 of the 42 hours required must be upper level. Within these parameters each student's program of study is to be evolved in consultation with and must be formally approved by the major adviser, who is the Assistant Dean. The program of study must include an area of concentration of at least 15 credits in one discipline; it will normally be expected to include a second area of concentration with either a disciplinary or multidisciplinary focus. The choice of areas of concentration and of courses within them is to be directly related to the educational goals of the student such as to provide an educational experience of excellent quality.

International Studies (INT) Requirements for the B.A. Degree:

The major in International Studies is designed to enable students to undertake programs of study which will emphasize (a) preparation for careers in international activities, or (b) the study of particular international themes or topics, or (c) the study of particular regions or culture. The program of study is developed by each student in consultation with the major adviser so as best to serve the individual's educational goals. The program is to include not less than 34 semester hours. At least 18 of these hours (six courses) must be in the International Studies Program offerings of the Department of Interdisciplinary Social Sciences. The six courses required are:

- SSI 3221 (3)
- SSI 4250 (3)
- SSI 3260 (3)
- SSI 4936 (3)

2 courses of 3 hours each chosen from upper level offerings of the department.

The additional 16 hours may be selected from course offerings of other departments, which are approved by the major adviser as having adequate international, regional or cultural content.

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

- SSI 4900 (1-3)
- SSI 3955 (1-6)
- SSI 4910 (1-3)

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

Required Supporting Courses

One year (or equivalent proficiency) of appropriate foreign language.

Students will be provided with advice as to choices of other courses offered throughout the University which will best reinforce and complement their major program. Each student's program must be planned with the international studies adviser who is empowered to make appropriate substitutions when educationally justified.

Minor in International Studies

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

- SSI 3221 (3)
- SSI 4250 (3)
- SSI 3260 (3)

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

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

Interdisciplinary Core Courses

These courses, taught from an interdisciplinary social science perspective, focus on contemporary social problems and issues. Included is Social Science Statistics which is required for majors in Interdisciplinary Social Sciences, Anthropology, Nursing, Sociology and Social Work.

Off-Campus Term

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

Women's Studies Program

The Women's Studies Program offers a variety of courses from an interdisciplinary perspective, focusing on current research about both the evolution of attitudes towards women and on the status and condition of women today. The content of the program is designed to apply to study in many disciplines. Several of its courses are crosslisted with those of other departments, and may be taken for major credit in either Women's Studies or in the joint-listed department.

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. Requirements for the minor are a total of 18 hours, 15 of them in upper-level courses, and include:

- 3 credit hours, either WST 2010 (3), or WST 2011 (3)
- 15 credit hours, chosen from among the following:
  - ANT 4302 (3)
  - WST 3306 (3)
  - LIT 4900 (3)
  - WST 3360 (3)
  - WST 3400 (3)
  - POS 4900 (3)
  - WST 3430 (3)
  - REL 4900 (3)
  - WST 3450 (3)
  - SOP 4900 (3)
  - WST 3470 (3)
  - WST 4900 (3)
  - WST 4910 (1-3)
  - WST 4920 (3)
  - WST 4930 (3)
  - WST 4940 (3)
  - WST 4950 (3)

If either WST 4900 or WST 4910 is taken, an additional hour of upper-level credit is required.

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, national, and international levels. Satisfying the degree requirements prepares students for positions in both public and private sectors, for law school for graduate work in political science international relations, public administration, and related disciplines, for positions in education, and for applied political activity.
A minimum of 38 credit hours is required to satisfy the requirements of the major. Students must take the seven credit hours which make up the core curriculum, and, in addition, a total of 31 credit hours in political science, of which at least 16 credit hours must be in courses at or above the 4000 level. For instructional purposes, the political science curriculum is divided into seven fields. However, there are no field requirements. Students are free to select courses from any and all fields within the curriculum.

Students transferring credit hours towards a major in political science must complete a minimum of 20 credit hours within the Department, regardless of the number of credits transferred, in order to satisfy the requirements of the major.

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

**Required Core Courses (7 cr. hrs.)**

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Field II: Comparative Government and Politics

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Field III: International Relations

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Field IV: American National and State Governments

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Field V: Urban Government and Politics

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Field VI: Public Administration

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Field VII: Law and Politics

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

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</table>

**Requirements for a Minor in Political Science**

A minor in political science consists of a minimum of 18 credit hours, made up of POS 2041 (3 credit hours) and an additional 16 credit hours of courses from the seven subfields in political science: Political Theory, Comparative Government and Politics, International Relations, American National and State Governments, Urban Government and Politics, Public Administration, and Law and Politics. At least 8 credit hours must be in courses at the 4000/5000 level. No more than 4 credit hours can be taken from POS 4910, POS 4941, POS 4970, and POS 4905. A 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 state and local government and with political parties at the state and local level. Academic credit is available for such internships. For further information, contact the Department of Political Science.

**Honors in Political Science**

Honors in political science is designed for the outstanding undergraduate who seeks an intensive program plus academic recognition during the senior year. Admission to the honors sequence, which is available to all undergraduate majors, will be controlled by grade point average, personal interviews and close scrutiny of the student's program and record. Students admitted will write an honors thesis, POS 4970 (4).

**Pre-professional Plan in Political Science**

This plan is designed for students seeking an intensive undergraduate concentration in political science. Typically, students electing this plan will be oriented towards graduate work in political science or other social sciences. A minimum of 39 credit hours is required.

Students must take seven credit hours of required courses:

<table>
<thead>
<tr>
<th>Field V</th>
<th>Urban Government and Politics</th>
</tr>
</thead>
<tbody>
<tr>
<td>POS 2041 (3)</td>
<td></td>
</tr>
<tr>
<td>POS 3713 (4)</td>
<td></td>
</tr>
</tbody>
</table>

Eight additional courses in political science (32 cr. hrs.) must be taken, of which at least five must be above the 3000 level. Concentration within fields will be encouraged.

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

The Department of Political Science offers a pre-law plan designed for the undergraduate considering a career related to law: Field VII of the undergraduate curriculum (Law and Politics). The courses making up the Field 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 at least one year prior to planned enrollment in law school. Additional information is available from the Department of Political Science, University of South Florida.

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

**International Affairs Focus in Political Science**

The Department of Political Science offers a number of courses (Fields II and III) that prepare the well motivated student for graduate study in International Relations and career opportunities in private or public transnational organizations.

Basic courses in the area include:

- Introduction to International Relations (INR 3002)
- Introduction to Comparative Politics (CPO 3002)
- American Foreign Policy (INR 3102)
In addition, the Department offers the following upper-level courses:

**Politics of Developing Areas**
- PAD 5035 (4)
- PAD 5333 (4)
- PAD 5417 (4)
- PAD 5612 (4)
- PAD 5836 (4)
- PAD 6037 (4)
- PAD 6060 (4)

**Comparative Politics of Selected Areas**
- POS 5734 (4)
- POS 5605 (4)
- POS 5612 (4)
- POS 5836 (4)
- POS 6007 (4)
- POS 6427 (4)
- POS 6538 (4)
- POS 6909 (4)
- POS 6919 (var.)
- POS 6934 (4)

**International Law**
- INR 5086 (4)
- INR 6007 (4)

**International Organizations**
- INR 5086 (4)
- INR 6007 (4)

**Issues in Comparative Politics**
- CP 4034 (4)
- CP 4930 (4)
- INR 4334 (4)
- INR 4403 (4)
- INR 4502 (4)
- INR 5086 (4)
- INR 5245 (4)

**Issues in International Relations**
- INR 5086 (4)
- INR 6007 (4)

**Field VI Public Administration**
- PAD 5035 (4)
- PAD 5333 (4)
- PAD 5417 (4)
- PAD 5612 (4)
- PAD 5836 (4)
- PAD 6037 (4)
- PAD 6060 (4)

**Field VII Law and Politics**
- POS 5605 (4)
- POS 6007 (4)
- POS 6698 (4)

The following non-field courses may be used as elective hours:
- POS 6909 (1-4)
- POS 6942 (1-6)
- POS 6971 (6)
- POS 6934 (4)

More detailed instructions on specific programmatic requirements may be obtained from the Department of Political Science.

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

The graduate program leading to the M.A. in political science is designed to offer advanced general instruction in political science. It prepares its students 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 47. The student must complete a minimum of 34 credit hours of graduate level courses, of which at least 16 hours must be at the 6000 level. A minimum of 20 credit hours must be taken in formal, regularly-scheduled classes. Courses at the 5000 level are accepted for credit towards the degree when taken as part of a planned program, with the approval of the student's adviser and the Department of Political Science.

A minimum of 20 credit hours must be taken in political science; eight credit hours of approved electives may be taken outside the department. All graduate students must write a thesis (six credit hours) or petition for substitution with 8 hours of regular courses.

All students must pass a comprehensive examination in order to satisfy the degree requirements. This examination normally will be given following the completion of the 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 32 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) 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 5764 (4)
- POS 6237 (4)

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

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

**Field IV American National and State Governments**
- POS 5094 (4)
- POS 6045 (4)
- POS 6095 (4)
- POS 6127 (4)

**Field V Urban Government and Politics**
- PAD 5807 (4)
- PAD 6306 (4)
- PAD 5155 (4)
- PAD 6157 (4)

**Field VI Public Administration**
- PAD 5035 (4)
- PAD 5333 (4)
- PAD 5417 (4)
- PAD 5612 (4)
- PAD 5836 (4)
- PAD 6037 (4)
- PAD 6060 (4)

**Field VII Law and Politics**
- POS 5605 (4)
- POS 6007 (4)
- POS 6698 (4)

The following non-field courses may be used as elective hours:
- POS 6909 (1-4)
- POS 6942 (1-6)
- POS 6971 (6)
- POS 6934 (4)

More detailed instructions on specific programmatic requirements may be obtained from the Department of Political Science.

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

The Master of Public Administration (M.P.A.) is primarily designed to meet the education and training needs of those students who are interested in professional careers in the public sector at all levels of government. General requirements for admission to the graduate program are given on page 47. In addition, the Department of Political Science may require letters of recommendation, provisional admission and/or additional undergraduate courses to provide the student with the background necessary for graduate study in the M.P.A. program.

Students must complete a minimum of 46 credit hours of graduate level courses, of which at least 24 credit hours must be at the 6000 level. A minimum of 28 credit hours must be taken in formal, regularly-scheduled classes. Courses at the 5000 level may be accepted for credit towards the degree when taken with the consent of a student's adviser.

The plan of study for an M.P.A. student consists of the following course distribution:

1. **Eight credit hours of core courses:**
   - PAD 6060 (4)
   - POS 5734 (4)

2. **Twenty credit hours in one of the three substantive areas:**
   - Area I—National and State Administrative Systems:
     - PAD 5035 (4)
     - PAD 5333 (4)
     - PAD 5417 (4)
     - PAD 5605 (4)
     - PAD 5612 (4)
     - PAD 5807 (4)
     - PAD 6027 (4)
     - PAD 6060 (4)
     - PAD 6037 (4)
     - PAD 6060 (4)

   - Area II—Urban Administration:
     - PAD 5333 (4)
     - PAD 5417 (4)
     - PAD 5605 (4)
     - PAD 5612 (4)
     - PAD 5807 (4)
     - PAD 6027 (4)
     - PAD 6060 (4)
     - PAD 6037 (4)
     - PAD 6060 (4)

   - Area III—Public Policy:
     - PAD 5035 (4)
     - PAD 5333 (4)
     - PAD 5417 (4)
     - PAD 5605 (4)
     - PAD 5612 (4)
     - PAD 5807 (4)
     - PAD 6027 (4)
     - PAD 6060 (4)

3. **A minimum of twelve credit hours of electives in political science, business administration, or other courses designated by the Department.**
4. **Six credit hours of Field Work:** POS 6942

Students must pass a comprehensive examination in the chosen substantive area. This examination may be oral or written, upon the recommendation of the student's adviser and the consent of the department. Students may also petition the department for permission to substitute a thesis in place of the fieldwork requirement, according to procedures established by the Department.

### PSYCHOLOGY (PSY)

The undergraduate program in Psychology offers the student a well-rounded Liberal Arts education, together with the opportunity to gain a special acquaintance with issues such as those concerning people's role in modern society, tactics of social change, personal adjustment, and the individual in the workplace. In addition, the program provides excellent background training for qualified students who wish to pursue graduate work in disciplines such as clinical, experimental, or industrial psychology, education, gerontology, counseling, women's studies, black studies, or community relations.

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

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

Majors must complete at least 34 semester hours in the field. All majors must complete:

1. **2000-3000 Level Requirement (6 semester hours)**
   - Successful completion of: PSY 3013 (3 semester hours) and one of the following:
     - INP 3101
     - PSY 3022
     - SOP 3742
     - PSY 2012

2. **Methods Course Requirement (7 semester hours)**
   - Successful completion of: PSY 3213 and one of the following:
     - CLP 4433
     - PSY 4205
     - or another methods course approved by the undergraduate advisor in Psychology

3. **4000 Level Requirement (21 semester hours)**
   - Successful completion of 7 additional courses numbered at the 4000 level selected as follows:
     - At least two courses from each of the two groups below:
       - **Group I**
       - EXP 4204C
       - EXP 4404
       - PSB 4013C
       - **Group II**
       - CLP 4143
       - INP 4004
       - SOP 4004
     - DEP 4005
     - PPE 4004
   - and 3 additional courses numbered at the 4000 level.

Note: No more than a total of 4 hours from the following courses may count toward the major:
- PSY 4913 Directed research
- PSY 4904 Directed reading
- PSY 4205 (3) is strongly recommended for all majors and required of students planning graduate training. Functional mathematics and biological science are recommended. Otherwise, students majoring in psychology are encouraged to complete a varied undergraduate program.

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

General requirements for graduate work are given on page 52.

The student must complete 30 credit hours of graduate psychology courses. All students are required to complete two of the three quantitative methods courses (PSY 6217A, 6217B, 6217C). In addition, the student must complete a minimum of five of the following ten courses (eight of these must be completed for the Ph.D.) in the pattern indicated below:

At least one course in each of the following groups:
- **Social**
  - INP 6056
  - SOP 6059
- **Biological**
  - EXP 6307
  - PSB 6056
- **Experimental**
  - EXP 6406
- **Individual**
  - CLP 6166
  - PPE 6058
- **Cognitive**
  - DEP 6058
  - EXP 6208
  - EXP 6526

The selection of these courses will be made by mutual agreement of the student and his/her Master's Committee. Students with prior work in these areas may waive any of these courses by successfully passing a special examination given by the Psychology Department. 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 (SE). (See College of Education, page 74.)

### Requirements for the Ph.D. Degree:

The Ph.D. in Psychology is offered in the fields of Clinical/Community, General Experimental and Industrial-Organization Psychology. Advanced doctoral level specific requirements are determined by the student and his/her Ph.D. committee.

Assuming that the student has completed an M.A. degree in Psychology or its equivalent, the Psychology Department requires the following in addition to the general University requirements for the Ph.D. degree, on page 52.

1. **Department of Psychology graduate minor requirement.**
   - A reading knowledge of two foreign languages, or a substitution of special work done outside the student's field of concentration approved by the student's Doctoral Committee and the Department, is required by the University for the Ph.D. degree. The Department of Psychology requires the student to take a Graduate Minor. The Minor meets the language requirement of the Graduate School. A minor program of study, composed of work done outside the student's field of concentration and constituted by a minimum of three appropriate level courses or their equivalent, is required by the Department for admission to Ph.D. candidacy.

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 page 52. The Department of Rehabilitation Counseling offers the student the flexibility of entering the M.A. program while a University senior (REF) or after earning a baccalaureate degree (REH).

Minimum admission requirements for students electing the five-year approach include completion of 90 credit hours, a total Quantitative-Verbal score of at least 1000 on the GRE or a B average on all work beyond 60 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 50-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).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGC 5065</td>
<td>(4)</td>
<td>EGC 6205</td>
</tr>
<tr>
<td>EGC 5376</td>
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<td>EGC 5725</td>
<td>(4)</td>
<td>EGC 6468</td>
</tr>
<tr>
<td>EGC 5850</td>
<td>(1)</td>
<td>EGC 6494</td>
</tr>
</tbody>
</table>

**Additional requirements for graduation include:**

Non-thesis program: Students in the non-thesis program must complete a minimum of 60 credit hours in the post-baccalaureate program and a total of no less than 150 hours in the five-year program (including the 50-hour core courses). Additional hours to complete either the minimum of 60 credit hours or the minimum of 150 credit hours may be elected from other Rehabilitation Counseling offerings or from related programs with the consent of the student's adviser.

Thesis program: Students in the thesis program must complete a minimum of 53 credit hours in the post-baccalaureate program (50-hour core courses plus 3 credit hours of EGC6971), and a total of no less than 150 hours in the five-year program (50-hour core courses plus 3 credit hours of EGC6971). Additional hours to complete the minimum of 150 credit hours for students in the five-year program may be elected from other Rehabilitation Counseling offerings or from related programs with the consent of the student's adviser.

An oral defense of the thesis is required.

**SOCIAL WORK (SOK)**

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 Department of Social Work is currently developing an M.S.W. program in accordance with guidelines set forth by the Council on Social Work Education. Pending all appropriate approvals, this program will be implemented during the 1981-82 academic year.

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 intervention methods, and skill in their application to a variety of client systems. For example, intervention methods may take the form of individual and group counseling, resource development, consultation, teaching, advocacy, etc. Client systems may be individuals, families, groups, community groups, organizations, social welfare organizations, etc. The student will develop an understanding of the dynamics of human behavior in individual, group and organizational contexts and the influences of the 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 B.S.W. program is a two-stage process. Any student that holds a minimum of Sophomore standing may declare a pre-social work major. This is done by filing a declaration of major form with the College of Social and Behavioral Science, Records and Advising Office and a similar form with the Department of Social Work. All pre-majors will be assigned to an advisor within the Department who will assist the student in selecting pre-core courses (see listing of pre-core courses). Many students will have already taken most of the pre-core courses as part of general distribution at U.S.F. or in their course of study at a community college. After completing the pre-core courses a student will be ready to apply for admission to the B.S.W. program as a full major. It is necessary to be admitted as a major before taking core social work courses.

Admission requirements for the social work major are as follows:

1. A student must have completed a minimum of one semester as a pre-social work major;
2. A student must have completed required pre-core courses (see listing);
3. A student must have a minimal grade point average of 2.75 for all U.S.F. work completed;
4. A student must complete an application for admission and file it with the Department of Social Work at the beginning of the Semester in which admission is sought;
5. A student must complete an admissions interview with a favorable action from the Admissions Committee.

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

Pre-Core Courses

1. A student must complete one course in each of the following cognate areas.
   - Economics
     Contemporary Economic Problems
     Microeconomics
     Macroeconomics
   - Political Science
     American National Government
     State and Local Government
     Florida Politics and Government
   - Psychology
     Introduction to Contemporary Psychology
     Contemporary Problems in Psychology
     General Psychology
   - Sociology
     Introduction to Sociology
     Contemporary Social Problems
     Social Psychology
2. A student must complete one of the following cross-cultural courses.
   - African and Afro-American Studies
     Introduction to Afro-American Studies
     Social Institutions and the Ghetto
     Black Americans in the American Economic Process
     Blacks in American Political Process
   - Anthropology
     Introduction to Anthropology
     Anthropological Perspective
     Cultural Anthropology
   - History
     Immigration History

Requirements for the B.S.W. Degree (Core Courses)

1. Human Behavior and Social Environment Courses
   SOW 3101 (3)
   SOW 3102 (3)
2. Social Welfare Policy & Service Course
   SOW 4233 (4)
3. Social Research Course
   SOW 3403 (4)
4. Social Work Practice Courses
   SOW 4341 (5)
   SOW 4343 (5)
5. Directed Field Experience
   SOW 4510 (10)
6. Additional Requirements
   SOW 4361 (3)

Summary:

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>27 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field Experience</td>
<td>10 hours</td>
</tr>
<tr>
<td>Total</td>
<td>37 hours</td>
</tr>
</tbody>
</table>
SOCIOMETRY (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 enormously from courses in social psychology or small group analysis. Also, pre-professional training, as in law school, business administration, social work, and the like, can rest on courses that have "useful" aspects in them. Another concentration can be styled that of "liberal education." In this concentration, the central point is the question of the nature of man, the social being. Experience has shown that the truly liberally educated person is prepared for a variety of life experiences because that person understands how to ask important questions and how to go about getting answers. More importantly, the liberally educated person is equipped to take seriously the matter of being a human being. Sociology courses are aimed largely at problems on the nature of one's social world, the nature of man collectively, and on the individual person—the student as a unique being. Finally, sociology can be a major in the sense that it represents an intellectual discipline. Some students will find that it is interesting in its own right and that they would like to continue educational pursuits beyond the bachelor's degree.

These different concentrations differ as much in the attitude of the student taking the courses as in the selection of courses making up the individual program of study. They are not logically distinct concentrations: any one course may have elements of all three. For example, a student majoring in sociology as an academic discipline may at the same time involve himself in questions of a liberal education and at the same time pick up skills which will lead to satisfying employment. Students should understand that sociology majors are not restricted to social work or even social action types of careers.

Careers for which a major in sociology seems appropriate, judging from those who have so majored and succeeded in their fields, cover a wide range of lines utilizing inter-personal relations. Law, for example, is well predicated on sociology. So are personnel related careers, as in counseling. Similarly, knowledge of social relations, social structure, and class differences appear valuable to the entire spectrum of sales opportunities. Generally speaking, any career dealing with the public in a direct or indirect way will benefit from training in sociology. The benefits derive either from the knowledge gained or the skills (as in interviewing, a 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 adviser will assist each one in making particular choices.

As an undergraduate minor, Sociology serves as a convenient body of knowledge and experience for a variety of disciplines. For the major in Mass Communications, for example, a Sociology minor would give some substance to stories and insights to backgrounds of stories thus enabling a reporter better to do an assigned job. Those majoring in Sales would similarly have an understanding of the process of whatever organization they work in or for, as well as a knowledge of the public. Similarly, students in advertising, politics, religion, counseling, aging studies, criminal justice, and related areas will find a sociological minor of particular value. Finally, those seeking to teach social studies at the high school level will find a minor in Sociology compatible with their interests.

Requirements for the Major (B.A. Degree)

The major consists of a minimum of 30 credit hours. The following courses may not be counted in the 30 hour minimum for the major but may be elected as additional courses: SOC 1020, MAF 2001, SOC 3696. No more than 3 credit hours of Individual Research (SOC 4910) may be counted as major elective credit. A model program of recommended sequences may be obtained from the Department of Sociology.

Transfer students should be aware that by University regulations, the equivalent of one academic year must be taken in "on-campus" courses. In Sociology, we require that of the 30 credits needed to make up the major, no more than 9 credits earned elsewhere can count towards the major, and in addition, the 9 credits offered for the major must reflect courses offered here. The purpose of this rule is to 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 (18 cr. hrs.)
SOC 2000 (3)
SOC 3500 (3)
SOC 3612 (3)
SOC 3800 (3)
STA 3122 (3)
and either SOC 3410 (3) or SOC 3422 (3)
For students electing a major after having successfully taken 12 upper division credits without having had a formal Introductory course, SOC 3422, Social Organization, may be substituted for SOC 2000 as a requirement. Students making this choice must take SOC 3410 to meet the additional requirement stated above.

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

Requirements for the M.A. Degree:
A minimum of 32 credit hours and a thesis.
Required Courses (17 cr. hrs.)
SOC 6502 (3)  SOC 6699 (1)
SOC 6526 (4)  SOC 6971 (6)
SOC 6606 (3)
University requirements for graduate study are given on page 52.

Admission to the M.A. Program: Satisfactory score on the Graduate Record Examination (Aptitude); two letters of reference from previous instructors; four courses in sociology, including statistics, theory, and methods of research (STA 3122, SOC 3612, SOC 3500, or equivalent). Documents are sent to the Office of Admissions. Instructions for applicants are available from the Department of Sociology.
Courses offered for credit by the University of South Florida are listed on the following pages in alphabetical order by college and subject area. The first line of each description includes the State Common Course prefix and number (see below), title of the course, and number of credits.

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

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

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

**AMR 2810, 2828 AMERICAN HISTORY I, II (4,4)**

Credits separated by a hyphen indicates variable credit:

**HUM 4905 DIRECTED RESEARCH (1-5)**

The abbreviation “var.” also indicates variable credit:

**MAT 7912 DIRECTED RESEARCH (var.)**

The following abbreviations are utilized in various course descriptions:

- **GR** See *Grades in the Graduate Program* heading in the Division of Graduate Studies, p. 52.
- **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:

#### Department | Program
- Accounting
- Administration/Supervision
- Adult Education
- African and Afro-American Studies
- American Studies
- Ancient Studies (Religious Studies)
- Anthropology
- Arabic (Language)
- 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
- Common Body of Knowledge
- Communication
- Communication-Speech Communication
- Communicology
- Computer Science and Engineering
- College
- Business Administration
- Education
- Social and Behavioral Sciences
- Arts and Letters
- Arts and Letters
- Social and Behavioral Sciences
- Education
- Natural Sciences
- Education
- Natural Sciences
- Education
- Natural Sciences
- Engineering
- Natural Sciences
- Natural Sciences
- Education
- Natural Sciences
- Engineering
- Engineering
- Arts and Letters
- Business Administration
- Arts and Letters
- Education
- Business Administration
- Education
- Business Administration
- Education
- Business Administration
- Education
- Business Administration
- Education
- Business Administration
- Social and Behavioral Sciences
- Natural Sciences
- Social and Behavioral Sciences
- Arts and Letters
- Education
- Arts and Letters
- Education
- Arts and Letters
Cross-Listing of Departments and Programs
Alphabetically by College, Department/Program

College/Department/Program

Common Course Prefixes

University-wide Courses
Cooperative Education COE
Honors Program IDS
Military Science MIS
Physical Education, Elective DAA, PEL, PEM, PEN PEQ, PET

College of Arts and Letters
American Studies AMS
Classics CLT
Greek GRE, GRW
Latin LAT, LNW
Communication COM, LIN, ORI, SED, SPC
English AML, CRW, ENC, ENG, ENL, LAE, LIN, LIT, REA
Humanities HUM

Language
General Foreign FOL
Languages ARA
Arabic FLE, FRE, FRT, FRW
French GER, GET, GEW
German HEB
Italian ITA, ITT, ITW

College of Business Administration
Accounting ACC
Common Body of Knowledge (Graduate) GEB,
Economics ECO, ECP, ECS, GEB
Finance FIN, REE, RMI
General Business Administration BUL, COC, GEB, MAN
Management MAN, QMB
Marketing MAR

College of Education
Administration/Supervision EDA, EDS
Adult Education ADE
Art Education ARE, EDG
### Business and Office Education

- Communication-Speech Communication
- Counselor Education Curriculum Distributive and Marketing Education Elementary Education

### College of Fine Arts

| Art | ARH, ART |
| Dance | DAA, DAN |
| Music | MUC, MUG, MUH, MUL |

### College of Medicine

| Medicine | BCC, BMS, GMS, MEL |
| Medical Sciences | BMS, GMS |

### College of Natural Sciences

| Astronomy | AST |
| Biology | APB, BOT, BSC, PCB |
| Botany Courses | BOT |
| Microbiology Courses | APF, MCB, PCB |
| Zoology Courses | ENY, PCB, ZOO |
| Chemistry | BCH, CHM, CHS |
| Geology | GLY, OCE |
| Marine Science | OCB, OCE, OCG |
| Mathematics | OCP, PCB, ZOO |
| Medical Technology | COP, MAA, MAC, MAD |
| Physics | MAE, MAP, MAS, MAT |
| Physical Therapy | MGF, MHH, MTG, STA |

### College of Nursing

| Nursing | HUN, NUR, NUS, NUU |

### College of Social and Behavioral Sciences

| African and Afro-American Studies | AFA, AFH, AFS, AMH, CPO, ECP, HUM, INR, PHM, PUP SSI |
| Anthropology | ANT, MUH |
| Communicology | SPA |
| Criminal Justice | CCJ |
| Geography | GEA, GEO, MET, URP |
| Gerontology | GEY |
| History | AFH, AMH, ASH, EAH, HIS, LAH, WOH, WST |
| Human Services | HUS, MHT, SOW |
| International Studies | AFS, ASN, EUS, INR, LAS, SSI, WST |
| Off-Campus Term | IDS |
| Political Science | CPO, INR, PAD, POS, POT, PUP, URP |
| Psychology | CBH, CLP, DEP, EAB, EXP, INP, PPE., PSB, PSY, SOP |
| Rehabilitation Counseling | EGC |
| Social Sciences, Interdisciplinary | SSI, STA |
| Social Work | SOW |
| Sociology | DHE, LEI, MAF, SOC |
| Women's Studies | ANT, LIT, POS, REL, SOP, WST |

### Cross-Listing 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>
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<td>Adult Education</td>
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<td>American Studies</td>
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<tr>
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<td>Health Education, Physical Education for Teachers History</td>
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<td>Honors Program, Liberal Studies, Off-Campus Term Psychology</td>
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<td>IDS</td>
<td>African and Afro-American Studies, International Studies Program, Political Science</td>
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<tr>
<td>INP</td>
<td>Italian (Language)</td>
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</tbody>
</table>
COURSE DESCRIPTIONS

ITALIAN (Language)

COURSES:
- ITT: Italian (Language)
- ITW: Italian (Language)
- JOU: Mass Communications
- LAE: Curriculum, Elementary Education, English, English Education
- LEI: Physical Education for Teachers, Sociology
- LIN: Communication, English, Linguistics
- LIS: Library, Media and Information Studies
- LIT: English, Women's Studies
- LNW: Latin (Classics)
- MAA: Mathematics
- MAC: Mathematics
- MAD: Mathematics
- MAE: Elementary Education, Mathematics, Mathematics Education
- MAF: Sociology
- MAN: Foundation Courses in Business (Graduate), General Business Administration, Management
- MAP: Mathematics
- MAR: Marketing
- MAS: Mathematics
- MAT: Mathematics
- MCB: Microbiology (Biology)
- MEL: Medicine
- MET: Geography
- MGF: Mathematics
- MIF: Mathematics
- MHT: Human Services
- MIS: Military Science
- MLS: Medical Technology
- MMC: Mass Communications
- MTG: Mathematics
- MUE: Elementary Education, Music Education
- MUG: Music
- MUH: Anthropology, Music
- MUL: Music
- MUN: Music
- MUO: Music
- MUS: Music
- MUT: Music
- MVB: Music
- MVP: Music
- MVS: Music
- MVV: Music
- MWV: Music
- NUR: Nursing
- NUS: Nursing
- NUU: Nursing
- OCB: Marine Science
- OCC: Chemistry, Marine Science
- OCE: Geology, Marine Science
- OCG: Marine Science
- OCP: Marine Science
- ORI: Communication
- PAD: Political Science
- PCB: Biology, Marine Science, Microbiology (Biology), Zoology (Biology)
- PEL: Physical Education (Elective)
- PEM: Physical Education (Elective)
- PEN: Physical Education (Elective)
- PEQ: Physical Education (Elective), Physical Education for Teachers
- PET: Physical Education (Elective), Physical Education for Teachers
- PHH: Philosophy
- PHI: Linguistics, Philosophy
- PHM: African and Afro-American Studies, Philosophy
- PHP: Philosophy
- PHS: Physics
- PHY: Physics
- POR: Portuguese (Language)
- POS: Political Science, Women's Studies
- POT: Political Science
- POW: Portuguese (Language)
- PPE: Psychology
- PSB: Psychology
- PSY: Psychology
- PUP: African and Afro-American Studies, Political Science
- PUR: Mass Communications
- QMB: General Business Administration, Management
- REA: English
- RED: Elementary Education, Reading Education
- REE: Finance
- REL: Religious Studies, Women's Studies
- RMI: Finance
- RTV: Mass Communications
- RUS: Russian (Language)
- RUT: Russian (Language)
- RUV: Russian (Language)
- SCE: Elementary Education, Science Education
- SED: Communication, Communication-Speech
- SOC: Sociology
- SOP: Psychology, Women's Studies
- SOW: Human Services, Social Work
- SPA: Communication
- SPC: Communication
- SPN: Spanish (Language)
- SPS: Foundations
- SPT: Spanish (Language)
- SPW: Spanish (Language)
- SSE: Elementary Education, Social Science Education
- SSF: International Studies Program, Social Sciences Interdisciplinary
- STA: Mathematics, Social Sciences Interdisciplinary
- SUR: Civil Engineering and Mechanics
- THE: Theatre
- TPA: Theatre
- TPP: Theatre
- TSL: Linguistics
- TTE: Civil Engineering and Mechanics
- URP: Geography, Political Sciences
- VIC: Mass Communications
- WOH: History
- WST: International Studies Program, Women's Studies
- ZOO: Marine Science, Zoology (Biology)

UNIVERSITY-WIDE COURSES

COOPERATIVE EDUCATION

UNDERGRADUATE COURSES

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

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

COE 1942 COOPERATIVE EDUCATION, 3RD TRAINING PERIOD
PR: COE 1941. (S/U only.) (0)

COE 1943 COOPERATIVE EDUCATION, 4TH TRAINING PERIOD
PR: COE 1942. (S/U only.) (0)
C Elliott

COE 3944 COOPERATIVE EDUCATION, 5TH TRAINING PERIOD PR: COE 2943. (S/U only.)
COE 3945 COOPERATIVE EDUCATION, 6TH TRAINING PERIOD PR: COE 2944. (S/U only.)
COE 3946 COOPERATIVE EDUCATION, 7TH TRAINING PERIOD PR: COE 3945. (S/U only.)
COE 3947 COOPERATIVE EDUCATION, 8TH TRAINING PERIOD PR: COE 3946. (S/U only.)
COE 3948 COOPERATIVE EDUCATION, 9TH TRAINING PERIOD PR: COE 3947. (S/U only.)
COE 3949 COOPERATIVE EDUCATION, 10TH TRAINING PERIOD PR: COE 3948. (S/U only.)

HONORS PROGRAM

UNDERGRADUATE COURSES

IDS 3901 HONORS PROGRAM READING SEMINAR (3)
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.

IDS 3902 HONORS PROGRAM READING SEMINAR (3)
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.

IDS 3931 HONORS PROGRAM SELECTED TOPICS (3)
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.

IDS 4938 HONORS PROGRAM SENIOR SEMINAR (3)
PR: Admission to University Honors Program. This seminar serves to integrate all the 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.

MILITARY SCIENCE

UNDERGRADUATE COURSES

MIS 1010C INTRODUCTION TO MILITARY SCIENCE (3)

MIS 3410C FUNDAMENTALS OF LEADERSHIP (3)
PR: MIS 1010C, or CI. The dual role of the military officer as leader and manager; problems of military leadership in the volunteer army; examination of classical leadership traits and principles, and the role of officers in the various branches of the Army.

MIS 4421C SEMINAR IN LEADERSHIP AND MANAGEMENT (3)
PR: MIS 3410C, CI. Obligations and responsibilities of a commissioned officer, with emphasis on application of sound leadership to all situations. Uniform Code of Military Justice and its relationship to Civilian law. Fundamentals of both offensive and defensive tactics and role of various branches of the Army in tactical operations. Role of the U.S. in world affairs in the 1980's.

PHYSICAL EDUCATION-ELECTIVE

UNDERGRADUATE COURSES

DAA 1374 FOLK & SQUARE DANCE (2)
An opportunity for the development of fundamental skills and knowledge necessary for enjoyment of Folk and Square Dancing. (S/U only.)

PEL 1121L GOLF I (2)
Introductory experience in the sport of golf. Fundamental skills, information, strategy, and participation. (S/U only.)

PEL 1141L ARCHERY (2)
Development and refinement of the essential skills and information necessary for enjoying the sport of Archery. (S/U only.)

PEL 1341L TENNIS I (2)
Introductory experiences in the sport of tennis. Basic skills, playing strategies, lecture, demonstration, and participation. (S/U only.)

PELM 1346L BADMINTON (2)
Progressive experiences in badminton, fundamental skills, strategy, information, and participation. (S/U only.)

PELM 2122L GOLF II (2)
Continuation of PEL 1121L. Emphasis on course play and refinement of strokes. (S/U only.)

PELM 2321L VOLLEYBALL (2)
Review and refinement of fundamental skills, presentation and practice of the various offensive strategies. (S/U only.)

PELM 2342L TENNIS II (2)
Continuation of PEL 1341L. Refinement of basic skills, supplementary strokes, greater emphasis on tactics and playing strategies. (S/U only.)

PELM 2441L RACKETBALL (2)
Development and refinement of the skills and strategies of Racketball with opportunity for competition and tournament play. (S/U only.)

PELM 2511L SOCCER (2)
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.)

PELM 2621L BASKETBALL (2)
Review and refinement of fundamental skills, presentation and practice of the various offensive and defensive strategies. (S/U only.)

PELM 1201L GYMNASTICS I (2)
Introductory experiences in the various gymnastics events. Opportunities to specialize in areas of personal interests. (S/U only.)

PELM 1461C FOIL FENCING (2)
Progressive experiences in the sport of Foil Fencing, fundamental skills, strategy, information, and participation. (S/U only.)

PELM 2102L SPECIAL CONDITIONING (2)
Varied activities designed to increase the functional ability of the different aspects of physical fitness. (S/U only.)

PELM 2104L INDIVIDUAL PROGRAMMING (2)
Individually prescribed and performed conditioning activities. (S/U only.)

PELM 2107L FIGURE DEVELOPMENT (2)
Varied activities designed to effect changes in body configuration and functional ability. (S/U only.)

PELM 2131L WEIGHT TRAINING (2)
Knowledge and techniques necessary for increasing muscle function. Assessment of status and development of a personal program. (S/U only.)

PELM 2141C AEROBICS (2)
Introduction to the knowledge and techniques necessary for increasing cardiorespiratory efficiency. Assessment of status and development of a personal program. (S/U only.)

PELM 2202L GYMNASTICS II (2)
Continuation of PELM 1201L. Extended opportunities to master the various gymnastics events. Competition and individual exercises. (S/U only.)

PELM 2376 BACKPACKING (2)
Introductory experiences designed to develop the physical skills
and the mental attitude necessary to travel safely, efficiently, and considerately in the wilderness setting. (S/U only.)

**PEN 2441L KARATE** (2)
Introductory experiences in the sport of Karate. Fundamental skills, strategy, information, and participation. (S/U only.)

**PEN 2930 SELECTED TOPICS** (1-2)
Topics offered are selected to reflect student need and faculty interest. May be repeated up to 6 credit hours. (S/U only.)

**PEN 1121L SWIMMING I** (2)
Development and refinement of the essential skills and information necessary for enjoying swimming. Emphasis on personal safety. (S/U only.)

**PEN 2113C LIFE SAVING** (2)
PR: PEN 2122L or equivalent. Knowledge and skills necessary for saving one's self or others in the event of aquatic emergency. (S/U only.)

**PEN 2122L SWIMMING II** (2)
PR: PEN 1121L or equivalent. Continuation of PEN 1121L. Special emphasis on development of endurance and efficient stroking. (S/U only.)

**PEN 2136C SKIN & SCUBA DIVING** (2)
PR: PEN 2122L or equivalent. Development of the essential skills and knowledge necessary for enjoying the sport of Skin & Scuba Diving. Correct utilization and care of equipment; emphasis on personal safety. (S/U only.)

**PEN 2251L CANOEING** (2)
PR: PEN 1121L or equivalent. Development and refinement of the skills necessary for enjoying canoeing. Skills, safety techniques and trips. (S/U only.)

**PEQ 3115C WATER SAFETY INSTRUCTION** (2)
PR: PEN 2113C. Examination of the various swimming strokes leading to identification of appropriate methods and techniques for instructing others. ARC certification offered. (S/U only.)

**PET 2330C HUMAN KINESIOLOGY I** (2)
An introduction to the structure and function of the skeletal and neuromuscular systems in reference to their support of vigorous human movement. (S/U only.)

**PET 2340C HUMAN KINESIOLOGY II** (2)
PR: PET 2330C. An introduction to the mechanical principles which govern human movement. (S/U only.)

**PET 2373 INTRODUCTION TO EXERCISE THEORY** (2)
An introduction to the basic principles underlying exercise techniques for improving cardiovascular endurance, strength, flexibility, and weight control. Examination and critique of popular fitness programs, fads and fallacies.

**PET 3931 SELECTED TOPICS** (1-3)
Topics offered are selected to reflect student need and faculty interest. May be repeated up to 9 credit hours.

**PET 4622 ATHLETIC TRAINING** (2)
Principles and techniques of conditioning athletes for competition; prevention and care of injuries in physical education and athletic activities.

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**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. Repeatable up to 6 credit hours.

**AMS 2001 AMERICA AT THE TURN OF THE CENTURY** (4)
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** (4)
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 FRONTIER EXPERIENCE** (4)
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** (4)
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.

**AMS 3302 ARCHITECTURE AND THE AMERICAN ENVIRONMENT** (3)
By means of slides, lectures and discussion the course examines 350 years of American architectural history. Architectural styles, aesthetics and the relation between a building and its social environment are stressed.

**AMS 3303 THE AMERICANIZATION OF ENGLISH** (3)
An overview of American attitudes toward the English language from colonization to the present. Among the topics discussed are: the American mania for correctness, the influence of the school marm, place and proper names and language prudery.

**AMS 3930 SELECTED TOPICS IN AMERICAN STUDIES** (1-4)
Offerings include The American Success Myth, Cultural Darwinism in America, America Through Foreign Eyes, Contemporary Topics in American Studies, Nineteenth and Twentieth Century American Communes.

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

**AMS 4930 SELECTED TOPICS IN AMERICAN STUDIES** (1-4)
Offerings include American Painting: its social implications, Technology in the Twentieth Century America, American Environmental Problems, Popular Culture in America.

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

**AMS 4936 SENIOR SEMINAR IN AMERICAN STUDIES**
PR: AMS 4935.

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**GRADUATE COURSES**

**AMS 6155 THE CORE OF AMERICAN CULTURE** (3)
PR: Graduate standing. Open to non-majors. Representative works (from the arts, sciences, social sciences) reflecting the development of civilization in the U.S. from colonial times to the present. May be repeated up to six (6) credit hours with departmental permission.

**AMS 6254 U.S.A.: A DECADE IN DEPTH** (3)
PR: Graduate standing. Open to non-majors. An example would be The Thirties: Inter-related Aspects of American Life from the Stock Market Crash to Pearl Harbor. Other decades would serve in subsequent offerings to weave the interdisciplinary pattern of American life within a discrete period. May be repeated, up to six (6) credit hours.

**AMS 6805 MAJOR IDEAS INFLUENCING AMERICAN CIVILIZATION** (3)
PR: Graduate standing. Open to non-majors. Examination of such concepts as individualism, freedom and liberalism as
embodied in literature, politics, religion, architecture, economics, science and technology.

**AMS 6901 DIRECTED READINGS IN AMERICAN STUDIES** *(1-3)*
PR: Graduate standing. Open to non-majors. Guided reading designed to expand a student's knowledge in a particular area of interest. May be repeated up to four credit hours.

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

**AMS 6934 SPECIAL TOPICS IN AMERICAN STUDIES** *(1-3)*
PR: Graduate standing. Open to non-majors. Variable titles offered periodically on topics of special interest to American Studies students. May be repeated up to four credit hours.

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

### ANCIENT STUDIES—see Religious Studies

#### UNDERGRADUATE COURSES

**CLT 3040 CLASSICAL WORD ROOTS IN SCIENCE** *(2)*
A course in the Greek and Latin word stock used in all sciences (including medicine), technology, and law. Students' needs determine specific content of the course.

**CLT 3103 GREEK LITERATURE IN TRANSLATION** *(3)*
Reading and discussion of major works in Greek literature. Special emphasis is given to the dramatists Aeschylus, Sophocles, Euripides and Aristophanes. Some attention is given to the social and political background of the works. All readings are in English.

**CLT 3105 ROMAN LITERATURE IN TRANSLATION** *(3)*
Reading and discussion of major works in Roman literature. Special emphasis is placed on the Aeneid, comedy and satire. Some attention is given to the political background of the works. All readings are in English.

**CLT 3370 CLASSICAL MYTHOLOGY** *(3)*
Study of the more 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 Interdisciplinary Classics, page 56.

### Greek

#### UNDERGRADUATE COURSES

**GRE 1100 BEGINNING CLASSICAL GREEK I** *(5)*
An introductory course in classical Greek grammar with appropriate readings.

**GRE 1101 BEGINNING CLASSICAL GREEK II** *(5)*
PR: GRE 1100 or equivalent. An introductory course in classical Greek grammar with appropriate readings.

**GRE 3110 BEGINNING MODERN GREEK** *(5)*
An intensive study of basic skills: pronunciation, listening comprehension, speaking and some composition.

**GRE 3111 BEGINNING MODERN GREEK II** *(5)*
PR: GRE 3110 or its equivalent. A continuation of GRE 3110. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

**GRW 4905 DIRECTED READING** *(1-3)*
Departmental approval required.

**GRW 4930 SELECTED TOPICS** *(3)*
Study of an author, movement, or theme. May be repeated.

### Latin

#### UNDERGRADUATE COURSES

**LAT 1100 BEGINNING LATIN I** *(5)*
An introductory course in Latin grammar with appropriate readings.

**LAT 1101 BEGINNING LATIN II** *(5)*
PR: LAT 1100 or equivalent. An introductory course in Latin grammar with appropriate readings.

**LNW 4311 ROMAN COMEDY I: PLAUTUS** *(3)*
PR: Basic knowledge of Latin. Readings of selected plays by Plautus; introduction to comedy—its theory and practice.

**LNW 4312 ROMAN COMEDY II: TERENCE** *(3)*
PR: Basic knowledge of Latin. Readings of selected plays by Terence.

**LNW 4322 ROMAN ELEGIAIC POETS II: PROPERTIUS AND TIBULLUS** *(3)*
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** *(3)*
PR: Basic knowledge of Latin. Readings in the Satyricon of Petronius: Introduction to the nature of satire.

**LNW 4362 ROMAN SATIRE II** *(3)*
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** *(3)*
PR: Basic knowledge of Latin. Readings in the ideas and artistry of this Roman historian.

**LNW 4500 CICERO AND ROMAN PHILOSOPHY** *(3)*
PR: Basic knowledge of Latin. Readings in the philosophic writings of Cicero, together with a consideration of eclectic thought.

**LNW 4591 SENECA AND ROMAN PHILOSOPHY** *(3)*
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 ELEGIAIC POETS I: CATULLUS** *(3)*
PR: Basic knowledge of Latin. Readings in Catullus. Study of techniques and tradition in Roman lyric poetry.

**LNW 4665 CICERO** *(3)*
PR: Basic knowledge of Latin. Readings in the epistles of Cicero.

**LNW 4675 HORACE** *(3)*
PR: Basic knowledge of Latin. Readings in the Odes and Epodes of Horace; study of the ode's traditions.

**LNW 4900 DIRECTED READING** *(1-3)*
Departmental approval required.

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

### COMMUNICATION

#### UNDERGRADUATE COURSES

**COM 3003 DIMENSIONS OF COMMUNICATION** *(3)*
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** *(3)*
A study of communication theory relative to interview situations with emphasis on the employment interview, appraisal interview, and persuasive interview.

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

**COM 4110 SPEECH COMMUNICATION FOR BUSINESS AND THE PROFESSIONS** *(3)*
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** *(3)*
A study of communication variables and systems affecting organizational effectiveness.
COM 4942 COMMUNICATION INTERN SEMINAR (3)
PR: Communication major and minimum of 27 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 semester prior to seminar offering.

LIN 2200 SPEECH IMPROVEMENT AND PHONETICS (3)
Designed to improve vocal quality and expressiveness, articulation,
and pronunciation, and to give instruction and practice in
using the International Phonetic Alphabet for speech improve­
ment.

LIN 2201 SPEECH IMPROVEMENT AND
PHONETICS II (3)
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.

ORI 3000 FUNDAMENTALS OF ORAL READING (3)
Designed to develop proficiency in the understanding and oral
communication of literary and other written materials.

ORI 3920 ISSUES AND INTERPRETATION (2)
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 (2)
PR: ORI 3000 or CI. The study, rehearsal, and performance of
literature for Readers Theatre and Chamber Theatre produc­
tions. May be repeated (maximum total four hours).

ORI 4120 ORAL INTERPRETATION OF POETRY (3)
PR: ORI 3000 or CI. Critical appreciation of lyric and narrative
poetry and communication of that appreciation to audience.
Study of poetic theory and prosodic techniques.

ORI 4140 ORAL INTERPRETATION OF DRAMATIC
LITERATURE (3)
PR: ORI 3000 or CI. Critical appreciation and Oral Interpreta­
tion 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 (3)
PR: ORI 3000 or CI. A critical interpretation and/or presenta­
tion of selected Books of the Old Testament.

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

SPC 2023 FUNDAMENTALS OF SPEECH
COMMUNICATION (3)
The nature and basic principles of speech; emphasis on
improving speaking and listening skills common to all forms of
oral communication through a variety of experience in public
discourse.

SPC 3210 COMMUNICATION THEORY (3)
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 (3)
PR: Junior standing or CI. A study of interpersonal communica­
tion in informally structured settings with emphasis on the
understanding, description, and analysis of human communica­
tion.

SPC 3410 PARLIAMENTARY PROCEDURES (2)
Principles of parliamentary procedure and practice in conduct­
ing and participating in meetings governed by parliamentary
rules.

SPC 3441 GROUP COMMUNICATION (3)
PR: Junior standing or CI. A survey of theory and experimental
research in group communication. Group discussions and
communication exercises to increase awareness of the dynamics
of human communication in small group settings.

SPC 3513 ARGUMENTATION AND DEBATE (3)
PR: Junior standing or CI. Study of principles of argumentation
as applied in oral discourse, analysis of evidence and modes of
reasoning. Practice in debate preparation and delivery.

SPC 3594 FORENSICS (1)
Study, library research, practice in forensics. Application of the
principles of rhetoric to the current debate and discussion topics.
May be repeated (maximum of four hours).

SPC 3601 PUBLIC SPEAKING (3)
Study of selected public addresses as aids in speaking extempo­
raneeously and from manuscript. The relationship between
speaking and public policy formulation.

SPC 3633 RHETORIC OF CONFRONTATION (3)
PR: Junior standing or CI. The study of rhetorical strategies and
tactics of agitation and control in confrontation situations.

SPC 3641 NAZI PROPAGANDA (3)
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 (3)
PR: Junior standing or CI. Analysis of public communication
with emphasis on various presentation forms.

SPC 3900 DIRECTED READINGS (1-3)
PR: Junior standing and CI.

SPC 3905 UNDERGRADUATE RESEARCH (1-3)
PR: Junior standing and CI. Individual investigations and
faculty supervision.

SPC 3930 SELECTED TOPICS (1-3)
PR: Junior standing and CI.

SPC 4640 THE RHETORIC OF AMERICAN
DEMAGOGUES (3)
An analysis of the 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 (3)
PR: SPC 3601 or CI. The principles of rhetorical criticism
applied to selected great speeches of Western Civilization.

SPC 4900 DIRECTED READINGS (1-3)
PR: Senior standing and CI.

SPC 4905 UNDERGRADUATE RESEARCH (1-3)
PR: Senior standing and CI. Individual investigations with
faculty supervision.

SPC 4906 INDEPENDENT STUDY (1-3)
PR: CI. Specialized independent study determined by the
students' needs and interests. May be repeated for credit. (S/U
only.)

SPC 4930 SELECTED TOPICS (1-3)
PR: Senior standing and CI.

SPC 4932 SENIOR SEMINAR IN SPEECH
COMMUNICATION (3)
PR: Senior standing. Speech Communication major. Explora­
tion of selected topics of current significance to the several areas
of speech communication through group discussion and re­
search.

GRADUATE COURSES

COM 6001 INTRODUCTION TO GRADUATE STUDY
IN COMMUNICATION (3)
Required of all M.A. candidates. An introduction to the aims
and methodologies of the graduate discipline of communication:
its relationship to the adjacent arts and sciences; bibliographical
resources; methods of research; and a brief survey of the
historical development of the field with emphasis upon current
issues in theory, research, and practice.

COM 6121 COMMUNICATION THEORY IN
ORGANIZATIONS (3)
A study of communication theory and behavior within
organizational settings: role of communication, communication
climates, communication networks, leadership.

COM 6312 EXPERIMENTAL RESEARCH IN ORAL COMMUNICATION (3)
Critical examination of research design, procedures, and reporting of experimental studies in small group communication and persuasive discourse.

COM 6408 COMMUNICATION THEORY (3)
PR: COM 6001. An examination of communication theory through selected reading in the works of major theorists past and present.

LIN 5231 COMMUNICATION SCIENCE: THEORY AND PRACTICUM (3)
PR: 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 Sonagraph work.

LIN 5245 EXPERIMENTAL PHONETICS (3)
PR: LIN 2200 or CI. Intensified training in auditory discrimination of the sounds of American English. Detailed use of research findings, instruments, and methodologies in the laboratory study of normal speech. Development of phonetic skills of discrimination and reproduction of speech sounds.

LIN 6233 ADVANCED PHONETICS (3)
PR: LIN 5231 or equivalent. Intensified training in close phonetic transcription. Work on dialects, intonation, distinctive feature theory and acoustic phonetics.

ORI 5145 ORAL INTERPRETATION OF DRAMATIC LITERATURE II (3)
PR: ORI 4140. A study of selected pre-modern dramas with special emphasis on problems of interpretation for oral performance.

ORI 5210 ORAL INTERPRETATION OF CHILDREN'S LITERATURE (3)
PR: ORI 3000 or CI. A study of the theories and practice in the oral interpretation of poetry and narrative fiction for children with special emphasis on classical and modern literature.

ORI 6146 ORAL INTERPRETATION OF THE PLAYS OF SHAKESPEARE (3)
PR: ORI 3000 or CI. A study of selected plays of Shakespeare from the point of view of the oral interpreter.

ORI 6350 LITERARY ADAPTATION FOR ORAL INTERPRETATION (3)
Composition and adaptation of literary materials for oral presentation. An investigation of approaches to various genres; poetry, fiction, and non-fiction.

ORI 6410 HISTORY AND THEORIES OR ORAL INTERPRETATION (3)
A study of the history, critical writings, uses, and developments of the art of oral interpretation, with analysis of the principles and practices.

SED 6943 GRADUATE INSTRUCTION METHODS (1-4)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 4 credits per student. (S/U only.)

SPC 5903 DIRECTED READINGS (1-4)
PR: Senior or graduate standing and CI.

SPC 5912 RESEARCH (1-4)
PR: Senior or graduate standing and CI.

SPC 5933 SELECTED TOPICS (1-4)
PR: Senior or graduate standing and CI.

SPC 6149 COMMUNICATION: ANALYSIS AND MEASUREMENT (3)
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 6231 RHETORICAL THEORY (3)
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 (3)

PR: SPC 3441. Study of contemporary theories and research relating to communication in small group settings.

SPC 6515 THEORIES OF ARGUMENT (3)
An examination of argumentative theory through the medium of selected reading in the works of major theorists past and present. In addition, selected examples from the argumentative persuasion of each historical period will be examined and analyzed for the purpose of correlating theory with practice.

SPC 6545 PERSUASION (3)
PR: SPC 3513. Study of contemporary theories and research in persuasion.

SPC 6610 HISTORY AND CRITICISM OF AMERICAN PUBLIC ADDRESS (3)
Criticism of selected speeches and speakers of American public address, studied against a background of political, social, and intellectual issues.

SPC 6682 THEORIES OF RHETORICAL CRITICISM (3)
The study of theoretical perspectives in rhetorical criticism. The application of criticism to selected rhetorical situations.

SPC 6903 DIRECTED READINGS (1-4)
SPC 6913 DIRECTED RESEARCH (var.)
PR: GR. Master's level. Repeatable. (S/U only.)

SPC 6934 SELECTED TOPICS IN SPEECH (1-4)
SPC 6971 THESIS: MASTER'S (var.)
Repeatable. (S/U only.)

ENGLISH

UNDERGRADUATE COURSES

AML 3010 SURVEY OF AMERICAN LITERATURE TO 1945 (4)
An introductory course consisting of selected highlights of American literature from the beginnings to 1945.

AML 3103 AMERICAN LITERATURE FROM THE BEGINNINGS TO 1860 (4)
A study of representative works from the period of early settlement through American Romanticism, with emphasis on such writers as Cooper, Irving, Bryant, Hawthorne, Emerson, Melville, Thoreau, and Poe, among others.

AML 3107 AMERICAN LITERATURE FROM 1960 TO 1912 (4)
A study of representative works of selected American Realists and early Naturalists, among them Whitman, Dickinson, Twain, James, Howells, Crane, Driesser, Wharton, Robinson.

AML 3111 AMERICAN LITERATURE FROM 1912 TO 1945 (4)
A study of poetry, drama, and fiction by such writers as Pound, Fitzgerald, Hemingway, Faulkner, Cummings, Williams, Anderson, Lewis, Steinbeck, Wright, Wolfe, West, Stevens, Henry Miller, and others.

AML 4214 MAJOR AMERICAN AUTHORS (4)
The study of two or three related major authors in American literature, focusing on several major figures; the course may include such writers as Melville and Hawthorne, Hemingway and Faulkner, James and Twain, Pound and Eliot, Stevens and Lowell, etc. Specific topics will vary. May be repeated twice for credit with different topics.

AML 4320 LITERATURE OF THE SOUTH (4)
PR: One course in American literature. A study of the major writers of the "Southern Renaissance," including writers such as Faulkner, Wolfe, Caldwell, Hellman, McCullers, O'Connor, Warren, Styron, Allen Tate, and Donald Davidson.

CRW 3210 FORM AND TECHNIQUE OF FICTION (4)
Analysis of and exercises in the elements of fiction: point of view, characterization, conflict, tone, and image.

CRW 3230 IMAGINATIVE WRITING: FICTION (4)
PR: ENC 3486. Introduction to the writing of fiction. This course will introduce students to the variety of forms and techniques in the writing of imaginative prose.

CRW 3310 FORM AND TECHNIQUE OF POETRY (4)
Study of the basic elements of poetry for reader and writer. Beginning with poetic language and devices used to create forms.
(haiku, tanka, ballad, song), progressing to basic prosody, rhyme, and stanza pattern, the student is trained in and learns to write fixed forms from couplet to sonnet. Consideration of the triolet, villanelle, sestina, blank verse, free verse, and naked poetry. Lyric, narrative, and dramatic poems from world literature serve as models.

CRW 3321 IMAGINATIVE WRITING: POETRY
Introduction to the writing of poetry. This course introduces the student to a variety of forms and techniques in the writing of poetry.

CRW 4340 WORKSHOP IN FICTION
Study and writing of the short story and sections of the novel. Evaluation of student work in conferences, selected readings. May be taken twice for credit.

CRW 4340 WORKSHOP IN POETRY
Self-expression in traditional and contemporary forms. Student-teacher conferences and classroom discussion, selected readings. May be taken twice for credit.

ENC 3343 BASIC TECHNICAL WRITING
Effective presentation of technical and semi-technical information. May be repeated once for credit.

ENC 3486 EXPOSITORY WRITING
A course teaching the techniques for writing effective prose, excluding fiction, in which student essays are extensively criticized, edited, and discussed in individual sessions with the instructor.

ENC 3486 NARRATION AND DESCRIPTION
Writing short papers in narration and description, and the personal essay; analyzing selected essays to heighten sensitivity to language.

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

ENG 2300 CURRENT NOVELS
A study of major British and American novels since WW II; attention will be given to the cultural influences and recent literary trends. Will not be counted toward the English major.

ENG 2460 DRAMA: TEXTS AND FILMS
A study of the great works of drama, with emphasis on recent forms and themes. Films will demonstrate the possibilities of visualization. Will not be counted toward the English major.

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

ENG 3138 MODERN DRAMA TO 1945
A study of such modern dramatists as Ibsen, Strindberg, Chekov, Pirandello, Shaw, and O'Neill, among others. Films will demonstrate the possibilities of visualization.

ENG 3152 TWENTIETH-CENTURY BEST SELLERS
A study of representative best-selling novels in twentieth 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 4900 DIRECTED READING (4)
Readings in special topics.

ENG 4906 INDIVIDUAL RESEARCH (1-4)
Directed study in special projects. Special permission of chairperson required.

ENL 3010 EARLY ENGLISH LITERATURE (4)
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 SURVEY OF BRITISH LITERATURE TO 1750 (4)
An introductory course consisting of selected highlights of English literature from the Middle Ages to 1750.

ENL 3041 SURVEY OF BRITISH LITERATURE 1750-1945 (4)
An introductory course consisting of selected highlights of English literature from 1750 to 1945.

ENL 3133 SHAKESPEARE (4)
Reading of eight to ten representative plays, with special attention to developing the students' ability to read and interpret the text.

ENL 3320 LITERATURE OF THE ENGLISH RENAISSANCE (4)
A survey of representative works of poetry, prose, and drama of the English Renaissance, from approximately 1558 to 1649, including Sidney and Spenser to Donne and Marvell, with special attention to the emergence of the New Poetry.

ENL 3351 LITERATURE OF THE RESTORATION AND EIGHTEENTH-CENTURY (4)
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 (4)
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 (4)
A survey of representative figures of the Victorian and Edwardian periods, ending in 1914, including poetry, prose, and drama of such authors as Carlyle, Tennyson, Browning, Swinburne, Rossetti, Dickens, Wilde.

ENL 3441 BRITISH LITERATURE FROM 1914 TO 1945 (4)
Survey of poetry, drama, and fiction of such writers as Eliot, Yeats, Thomas, Conrad, Shaw, Joyce, Lawrence, Huxley, Woolf, Forster, Waugh, Owen, Auden, O'Casey, among others.

ENL 4062 MAJOR AUTHORS (4)
The study of two or three related major figures in English, American, or World Literature. The course may include such writers as Fielding and Austen, Keats and Yeats, Joyce and Flaubert, etc. Specific topics will vary. May be taken twice for credit with different topics.

ENL 4112 CHAUCER (4)
An intensive study of The Canterbury Tales and major critical concerns.

ENL 4121 MILTON (4)
Study of the poetry and major prose of John Milton, with special emphasis on Paradise Lost.

ENL 4300 ANGLO SAXON LITERATURE (4)
A study of English heroic culture as presented in the literature occurring before 1066, such as Beowulf, the Battle of Maldon, the Seafarer, and Selected Charms and Spells.

ENL 4311 MIDDLE ENGLISH LITERATURE (4)
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 4344 RENAISSANCE LITERATURE: SELECTED STUDIES (4)
Study of one or more types, genres, modes, and themes of English literature; 1600-1660, such as Metaphysical Poetry, Cavalier Mode. Devotional Literature, New Philosophy, Analytical Prose, Verse Satire. Specific topics will vary.

ENL 4406 ROMANTIC LITERATURE: SELECTED STUDIES (4)
An intensive study of one or more formal types of British literature occurring between 1785 and 1832, such as Romantic Nature Poetry, Romantic Historical Novels and Poems, etc. Specific topics will vary.

ENL 4415 VICTORIAN LITERATURE: SELECTED STUDIES (4)
An intensive study of one or more formal types of Victorian literature, such as the essay, the lyric, the longer poem, prose, fiction, etc. Specific topics will vary.

LIN 4370 STRUCTURE OF AMERICAN ENGLISH (4)
An introductory survey of traditional, structural, and generative-transformational grammars and their techniques for the analysis and description of linguistic structure in general, and contemporary American English in particular.

LIT 2000 INTRODUCTION TO LITERATURE: GENERAL (4)
The nature and significance of literature in its various forms: fiction, drama, poetry; emphasis on the techniques of reading literature for intelligent enjoyment. Will not be counted toward the English major.

LIT 3150 CONTEMPORARY BRITISH AND AMERICAN LITERATURE FROM 1945 TO THE PRESENT (4)
An introduction to the fiction, poetry, and drama of such writers as Beckett, Ginsberg, Nabokov, Roethke, Plath, Vonnegut, Welty, Malamud, Durrell, Mailer, MacLeish, and others.

LIT 3252 LITERATURE OF THE WESTERN WORLD THROUGH THE RENAISSANCE (4)
A study in English of the great works of Western Literature from its beginnings through the Renaissance, including the Bible, Homer, Sophocles, Plato, Euripides, Virgil, Cicero, Dante, Petrarch, Machiavelli, and Rabelais, among others.

LIT 3254 LITERATURE OF THE WESTERN WORLD SINCE THE RENAISSANCE (4)
A study in English of the great works of Western Literature from the Neoclassic to the Modern Period, including such writers as Moliere, Racine, Voltaire, Dostoevsky, Chekov, Ibsen, Kafka, Gide, Sartre, and Camus, among others.

LIT 3311 THE BIBLE AS LITERATURE (4)
Major emphasis on literary types, literary personalities of the Old and New Testaments, and Biblical archetypes of British and American literary classics.

LIT 3323 AMERICAN INDIAN LITERATURE (4)
A survey of native American Literature from pre-Columbian religious and folk literature to the current voices in the pan-Indian movement.

LIT 3332 BLACK LITERATURE (4)
A study of Black American literature from the nineteenth-century to the present, including the works of such writers as W.E.B. Dubois, Jean Toomer, Langston Hughes, Richard Wright, Ralph Ellison, LeRoi Jones, and Nikki Giovanni.

LIT 3344 THE IMAGE OF WOMEN IN LITERATURE (4)
A survey of feminism, antifeminism, sexual identity, the feminine mystique, stereotyped and liberated female images from Sappho to the present, with special emphasis on women writers and on the emergence of the women's movement. (Also offered under Women's Studies.)

LIT 3343 RELIGIOUS AND EXISTENTIAL THEMES (4)
Theological and philosophical ideas, allusions, and symbols in the writings of Dostoevsky, Nietzsche, Mann, Joyce, Eliot, Camus, Sartre, and others.

LIT 3442 FANTASY AND SCIENCE FICTION (4)
A survey of fantasy and science fiction in England and America from Mary Shelley to the present; includes such writers as Poe, Melville, Ray Bradbury, Arthur C. Clarke, among others.

LIT 3446 LITERATURE AND THE OCCULT (4)
An introduction to the occult tradition as a major ingredient in English, Continental, and American literature; analysis of the origins, classifications, and areas of the various magic arts from classical times through the present.

LIT 3930 SELECTED TOPICS IN ENGLISH STUDIES (1-4)
Varying from semester to semester, the course examines in depth a predominant literary theme or the work of a select group of writers.

LIT 4930 SELECTED TOPICS IN ENGLISH STUDIES (1-4)
The content of the course will be governed by student demand and instructor interest. It will examine in depth a recurring...
literary theme or the work of a small group of writers. Special courses in writing may also be offered under this title. May be repeated for different topics.

**REA 0105 DEVELOPMENTAL READING (2)**

Designed to help students develop maximum reading efficiency, the course includes extensive instruction and laboratory practice in the improvement of adequate rates of reading, vocabulary, and comprehension skills. An independent study approach is also available for students who prefer to assume responsibility for their own progress.

**REA 2405 SPEED READING DEVELOPMENT (2)**

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

**REA 3505 VOCABULARY (3)**

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

**GRADUATE COURSES**

**AML 6132 STUDIES IN AMERICAN LITERATURE TO 1860 (3)**

PR: Graduate standing. Selected focused studies in American literature before 1860: the Puritans, Franklin, Cooper, Irving, Poe, Emerson, Hawthorne, Melville, and others. May be retaken with different subject matter three times.

**AML 6137 STUDIES IN AMERICAN LITERATURE 1860-1920 (3)**

PR: Graduate standing. Selected focused studies in American literature: Whitman, Twain, Howells, James, Crane, Dreiser, and others. May be retaken with different subject matter three times.

**AML 6138 STUDIES IN MODERN AMERICAN LITERATURE (3)**

PR: Graduate standing. Modern American drama, poetry, fiction, and literary criticism; authors include Faulkner, Hemingway, Fitzgerald, O'Neill, Anderson, Wolfe, Cummings, Frost, and Eliot. May be retaken with different subject matter three times.

**ENG 6062 BIBLIOGRAPHY FOR ENGLISH STUDIES (1)**

PR: Graduate standing. Detailed study of bibliographies of cultural milieus, genres, periods, and authors.

**ENG 6516 STUDIES IN ENGLISH LANGUAGE AND LINGUISTICS (3)**

PR: ENG 4512 and LIN 4370, or CI. An advanced study of the origin, historical development, and contemporary structure of British and American English in its social and cultural milieu, with emphasis upon modern techniques for linguistic analysis and description.

**ENG 6832 SCHOLARSHIP AND CRITICISM (3)**

PR: Graduate standing. Selected focused study of research approaches to English. May be retaken with different subject matter once.

**ENG 6837 STUDIES IN STYLE (3)**

(Advanced Composition for Teachers) PR: Graduate standing. Poetics, rhetoric, dramatic style, prose style, short fiction, the novel, and the essay. May be retaken with different subject matter three times.

**ENG 6917 DIRECTED RESEARCH (var.)**

PR: GR. Master's level. Repeatable. (S/U only.)

**ENG 6937 GRADUATE SEMINAR IN ENGLISH (3)**

PR: Consent of graduate adviser. May be retaken with different subject matter to a maximum of six hours.

**ENG 6971 THESIS: MASTER'S (var.)**

Repeatable. (S/U only.)

**ENG 7917 DIRECTED RESEARCH (var.)**

PR: GR. Ph.D. level. Repeatable. (S/U only.)

**ENG 7938 DOCTORAL SEMINAR (3)**

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 six credit hours.

**ENG 7980 DISSERTATION: DOCTORAL (var.)**

PR: Must be admitted to Doctoral Candidacy. Repeatable. (S/U only.)

**ENL 6304 STUDIES IN OLD ENGLISH (3)**

PR: Graduate standing. A study of Old English language, prose style, poetry. May be retaken with different subject matter three times.

**ENL 6315 STUDIES IN MIDDLE ENGLISH (3)**

PR: Graduate standing. Selected focused studies in language and in various authors and writings, 1100-1500: Chaucer, the Pearl poet, Everyman, ballads, drama. May be retaken with different subject matter three times.

**ENL 6333 STUDIES IN SIXTEENTH-CENTURY BRITISH LITERATURE (3)**

PR: Graduate standing. Selected focused studies in British literature, 1600-1660: Bacon, Donne, Jonson, Herbert, Milton, and others. May be retaken with different subject matter three times.

**ENL 6349 STUDIES IN SEVENTEENTH-CENTURY BRITISH LITERATURE (3)**

PR: Graduate standing. Selected focused studies in British literature, 1660-1760: Dryden, Defoe, Pope, Swift, Filding, Sheridan, Johnson, Boswell, and others. May be retaken with different subject matter three times.

**ENL 6407 STUDIES OF THE ENGLISH ROMANTIC PERIOD (3)**

PR: Graduate standing. A study of pre-Romantic and Romantic prose, fiction, nonfiction, and poetry. May be retaken with different subject matter three times.

**ENL 6418 STUDIES IN VICTORIAN LITERATURE (3)**

PR: Graduate standing. A study of Victorian poetry, Victorian fiction, Victorian non-fictional prose, and Victorian drama. May be retaken with different subject matter three times.

**ENL 6447 STUDIES IN MODERN BRITISH LITERATURE (3)**

PR: Graduate standing. A study of Irish and English drama, the modern novel, poetry, criticism, and the short story. May be retaken with different subject matter three times.

**LAE 6375 PROBLEMS IN COLLEGE ENGLISH INSTRUCTION: COMPOSITION (3)**

PR: Graduate standing. An examination of the objectives of freshman English and an investigation of current techniques for achieving those objectives, emphasizing the problems of developing critical reading and the techniques of expository writing at the college level.

**LAE 6389 PROBLEMS IN COLLEGE ENGLISH INSTRUCTION: LITERATURE (3)**

PR: Graduate standing. A course that allows the prospective college English teacher to experiment with teaching techniques that will determine the most effective ways to teach literature and that will teach college English teachers the variety and importance of literary techniques and their relevance to subject matter.

**LAE 7376 PROBLEMS IN ADVANCED ENGLISH INSTRUCTION OF COMPOSITION (3)**

PR: Admission to the Ph.D. program in English. Apprenticed, closely supervised study of and practice in teaching of college and university advanced composition. Student may elect to work with nonfiction, fiction, or poetry.

**LAE 7390 PROBLEMS IN ADVANCED ENGLISH INSTRUCTION AND SCHOLARLY RESEARCH (3)**

PR: Ph.D. Candidacy. This course provides closely supervised training in upper-level college English instruction and experience with professional research. Experience in the lecture, seminar discussion, examining, evaluation, conferences, directing undergraduate research, course development, use of secondary materials, publication procedure, and collation.
LIT 6167 STUDIES IN CONTEMPORARY LITERATURE (3) PR: Graduate standing. Drama, poetry, fiction, and literary criticism; authors to be studied include Ionesco, Thomas, Miller, T. Williams, Beckett, Camus, and Burgess. May be retaken with different subject matter three times.

LIT 6208 STUDIES IN CONTINENTAL LITERATURE (3) PR: Graduate standing. General areas include the Renaissance, the Enlightenment, the Novel in Europe, the Romantic Movement on the Continent, and Classical Comedy. May be retaken with different subject matter three times.

LIT 6934 SELECTED TOPICS IN ENGLISH STUDIES (1-6) PR: Graduate standing. Current topics offered on a rotating basis include The Nature of Tragedy; The Nature of Comedy and Satire; added in accordance with student demand and instructor interest.

HUMANITIES

UNDERGRADUATE COURSES

HUM 3024 THE ARTS (3) Analyses of selected works of film, literature, music, and visual arts, including a variety of periods, nationalities and art forms, emphasizing artistic diversity. Especially recommended for students intending to take 4000 and 5000 level Humanities courses at a future date.

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

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

HUM 3251 STUDIES IN CULTURE: THE TWENTIETH CENTURY (3) Analyses of selected works of 20th Century art, primarily emphasizing film, with secondary emphasis on painting and fiction.

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

HUM 3580 THE CURRENT SCENE (2) Live performances in contemporary media will be followed by discussions. The course 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 judgments of the works presented. The course will emphasize recent developments in the arts with some special attention to current innovations; film environments, mixed-media, improvisational theatre, random composition, kinetic art, and others. (S/U only.)

HUM 4433 CLASSICAL ARTS AND LETTERS (4) PR: Sophomore standing or CI. Case studies in the arts and letters of the ancient world.

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

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

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

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

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

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

HUM 4444 ARTS AND LETTERS OF THE ROMANTIC PERIOD (4) PR: Sophomore standing or CI. Case studies in the arts and letters of the romantic period.

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

HUM 4471, 4473 TWENTIETH-CENTURY ARTS AND LETTERS (4,4) PR: Sophomore standing or CI. Case studies in the arts and letters of the twentieth century.

HUM 4813 HUMANITIES: THEORY AND PRACTICE (2) PR: Humanities major or CI. Study of theory and methodology of interdisciplinary Humanities, including workshop in which student begins planning Senior paper. (S/U only.)

HUM 4906 DIRECTED STUDY (1-4) Specialized individual study determined by the student's interests.

HUM 4996 SENIOR ESSAY (3) Problems in the interrelationships among the fine arts and the natural, social and behavioral sciences. A senior essay for humanities majors.

HUM 4930 SELECTED TOPICS IN HUMANITIES (1-4) PR: Sophomore standing or CI. This course will deal with a recurrent theme in the arts as, for example, love or death, or will focus on artistic centers such as Renaissance Florence or Paris in the 1920's. Topics will vary; course may be repeated for credit with change of content.

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 philosophy-religions.

HUM 5414 HUMANITIES IN THE ORIENT: CHINA (4) Examples from the arts and letters of China; their relationship to Taoism, Confucianism and other Chinese philosophies; Western influences on twentieth century Chinese arts and letters.

HUM 5415 HUMANITIES IN THE ORIENT: JAPAN (4) Examples from the arts and letters of Japan, their relationship to Zen Buddhism and other Japanese philosophy-religions; Western influences on twentieth century Japanese arts and letters.

HUM 5452, 5456 HUMANITIES IN AMERICA (4,4) Case studies in the arts and letters of the United States.

HUM 5465 LATIN AMERICAN ARTS AND LETTERS (4) Analysis of selected Latin American works of art in their cultural context.

HUM 5485 SELECTED NON-WESTERN HUMANITIES (4) Materials chosen from arts and letters of Asia, Oceania, and the Middle East. May be repeated for credit with change of content.

HUM 6475 STUDIES IN CONTEMPORARY ARTS AND LETTERS (3) Concentration on major artists and recent trends.

HUM 6493 STUDIES IN CLASSICAL ARTS AND LETTERS (3) PR: Graduate standing. Examples from the arts and letters of ancient Greece and their relationships to Aegean myths, religions and philosophies. Classical Greek influences on later cultures.

HUM 6494 STUDIES IN MEDIEVAL ARTS AND LETTERS (3) PR: Graduate standing. Studies in medieval philosophies 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.
COURSE IN TRANSLATION

HUM 6495 STUDIES IN RENAISSANCE ARTS AND LETTERS

HUM 6496 STUDIES IN ENLIGHTENMENT ARTS AND LETTERS
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
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
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

HUM 6915 DIRECTED RESEARCH
PR: GR. Master’s level. Repeatable. (S/U only.)

HUM 6934 SELECTED TOPICS IN HUMANITIES
Each topic is a course of study in a subject not covered by a regular course. May be repeated for credit with change of content.

LANGUAGE

General Foreign Languages

UNDERGRADUATE COURSES

FOL 3100 GENERAL FOREIGN LANGUAGE I
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
A general purpose course that may be used for transfer of credit, credit by examination, and similar matters; may also be used for formal courses in less-commonly taught languages or for workshops in professional interpreting.

FOL 4905 DIRECTED STUDY
Departmental approval required.

GRADUATE COURSES

FOL 5906 DIRECTED STUDY
PR: FOL 4200 or equivalent.

Arabic

UNDERGRADUATE COURSES

ARA 3110 MODERN ARABIC I
An intensive study of basic skills: pronunciation, listening comprehension, speaking and some composition.

ARA 3111 MODERN ARABIC II
PR: ARA 3110 or its equivalent. A continuation of ARA 3110. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

French

UNDERGRADUATE COURSES

COURSES IN TRANSLATION

FRT 3110 HIGHLIGHTS OF FRENCH LITERATURE IN TRANSLATION
A study in English of French life through writers since the revolution. Elective for students in all departments.

FRE 1060 FRENCH FOR READING
Designed to provide a reading ability in French that will support research in other disciplines. Primarily for graduate students.

FRE 1100 BEGINNING FRENCH I
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
PR: FRE 1100 or equivalent. A continuation of FRE 1100.

FRE 2200 INTERMEDIATE FRENCH I
PR: FRE 1101 or equivalent. A review of the basic structure of French. May be taken concurrently with FRE 2201.

FRE 2201 INTERMEDIATE FRENCH II
PR: FRE 1101 or equivalent. Readings in French on the intermediate level. May be taken concurrently with FRE 2200.

FRE 3240 CONVERSATION I
PR: FRE 1101. For development of basic conversational skills.

FRE 3420 COMPOSITION I
PR: FRE 1101. A fundamental composition course for students who have completed FRE 2200 or FRE 2201.

FRE 3500 FRENCH CIVILIZATION
PR: Departmental approval required.

FRE 4241 CONVERSATION II
PR: FRE 3240 or equivalent proficiency. Conversation practice with concentration on current idiomatic usage. May be repeated for a total of 8 hours.

FRE 4421 COMPOSITION II
PR: Departmental approval required.

FRE 4905 DIRECTED STUDY
Departmental approval required.

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

FRT 3110 See above-- COURSE IN TRANSLATION

FRW 4100 INTRODUCTION TO FRENCH NOVEL
PR: Departmental approval required.

FRW 4101 INTRODUCTION TO FRENCH DRAMA AND POETRY
A study of the history of drama and poetry. Will include medieval drama, Racine, Corneille, Moliere, Anouilh, Sartre, Ionesco, and others. Will also include Villon, Ronsard, DuBellay, Lamartine, Hugo, Vigny, Musset, Baudelaire, Mallarme, Rimbaud, Valery, Peguy, Eluard, Apollinaire, Char, and others. Course content may vary from year to year.

GRADUATE COURSES

FLE 6829 GRADUATE INSTRUCTION METHODS
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of four credits per student. (S/U only.)

FRE 5422 ADVANCED WRITTEN EXPRESSION
PR: FRE 4421, or equivalent. Course is designed to give advanced training in free composition in French.

FRE 5564 CONTEMPORARY FRANCE
PR: FRE 3500 or equivalent. Specific content may vary from year to year.

FRE 6910 DIRECTED RESEARCH
PR: GR. Master’s level. Repeatable. (S/U only.)

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

FRW 5222 CLASSICAL PROSE AND POETRY
PR: FRW 4101. Emphasis on Malherbe, La Fontaine, Boileau, Descartes, and Pascal.

FRW 5226 20TH CENTURY POETRY AND THEATRE

FRW 5283 THE 20TH CENTURY NOVEL
PR: FRW 4101. Proust, Gide, Mauriac, Malraux, Camus, Robbe-Grillet.

FRW 5310 CLASSICAL DRAMA
PR: FRW 4101. Corneille, Moliere, and Racine.

FRW 5410 LITERATURE OF THE MIDDLE AGES
PR: FRW 4100 or 4101. Major genres, including epics, Arthurian romances, drama, and lyric poetry. Reading in modern French translation.
### GER 5845 HISTORY OF THE GERMAN LANGUAGE
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 4850 20TH CENTURY LITERATURE TO 1945
A study of major styles in German literature from 1900 to WWII with emphasis on Hauptmann, Schnitzler, Hofmannsthall, George, Rilke, Kaiser, Heym, Trakl, Thomas Mann, Hesse, Kafka, Benn, Brecht.

### GEW 5849 20TH CENTURY LITERATURE AFTER 1945
A detailed study of realism and the new currents of movement, or theme.

### GER 6510 SCHILLER
Selected dramas, philosophical and aesthetic writings.

### GEW 5934 SELECTED TOPICS
(1-3)
Study of an author, movement or theme.

### UNDERGRADUATE COURSES
#### Courses in Translation

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>GET 3111</td>
<td>HIGHLIGHTS OF GERMAN LITERATURE IN TRANSLATION</td>
<td>(3)</td>
<td></td>
</tr>
<tr>
<td>GER 1000</td>
<td>BEGINNING GERMAN I</td>
<td>(5)</td>
<td></td>
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<tr>
<td>GER 1101</td>
<td>BEGINNING GERMAN II</td>
<td>(5)</td>
<td>PR: GER 1100 or equivalent</td>
</tr>
<tr>
<td>GER 2200</td>
<td>INTERMEDIATE GERMAN I</td>
<td>(3)</td>
<td>PR: GER 1101 or equivalent</td>
</tr>
<tr>
<td>GER 2201</td>
<td>INTERMEDIATE GERMAN II</td>
<td>(3)</td>
<td>PR: GER 1101 or equivalent</td>
</tr>
<tr>
<td>GER 2340</td>
<td>CONVERSATION I</td>
<td>(3)</td>
<td>PR: GER 1101 or equivalent</td>
</tr>
<tr>
<td>GER 3420</td>
<td>COMPOSITION I</td>
<td>(3)</td>
<td>PR: GER 1101 or equivalent</td>
</tr>
<tr>
<td>GER 3500</td>
<td>GERMAN CIVILIZATION</td>
<td>(3)</td>
<td>PR: GER 2200 or GER 2201</td>
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### UNDERGRADUATE COURSES
#### Courses in Translation

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<td>GET 3111</td>
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<tr>
<td>GEW 4100</td>
<td>SURVEY OF GERMAN LITERATURE I</td>
<td>(4)</td>
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<tr>
<td>GEW 4101</td>
<td>SURVEY OF GERMAN LITERATURE II</td>
<td>(4)</td>
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<tr>
<td>GEW 4900</td>
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<td>(1-3)</td>
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<tr>
<td>GEW 4934</td>
<td>SELECTED TOPICS</td>
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### GRADUATE COURSES

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<tbody>
<tr>
<td>GER 4241</td>
<td>CONVERSATION II</td>
<td>(3)</td>
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</tr>
<tr>
<td>GER 4421</td>
<td>COMPOSITION II</td>
<td>(3)</td>
<td></td>
</tr>
<tr>
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<tr>
<td>HEB 3110</td>
<td>MODERN HEBREW I</td>
<td>(5)</td>
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<tr>
<td>HEB 3111</td>
<td>MODERN HEBREW II</td>
<td>(5)</td>
<td>PR: HEB 3110 or equivalent.</td>
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### GERMAN

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<tbody>
<tr>
<td>FRW 5420</td>
<td>LITERATURE OF THE RENAISSANCE</td>
<td>(3)</td>
<td>PR: FRW 4100 or 4101.</td>
</tr>
<tr>
<td>FRW 5440</td>
<td>18TH CENTURY LITERATURE</td>
<td>(3)</td>
<td>PR: FRW 4100.</td>
</tr>
<tr>
<td>FRW 5530</td>
<td>PRE-ROMANTICISM</td>
<td>(3)</td>
<td>PR: FRW 4100 or 4101. The precursors of romanticism.</td>
</tr>
<tr>
<td>FRW 5555</td>
<td>ROMANTICISM AND EARLY REALISM</td>
<td>(3)</td>
<td>PR: FRW 4101. A study of the romantic and early realistic movements with emphasis on Lamartine, Vigny, Musset, Hugo, and Balzac.</td>
</tr>
<tr>
<td>FRW 5558</td>
<td>NATURALISM AND REALISM</td>
<td>(3)</td>
<td>PR: FRW 4100 or 4101. A detailed study of realism and naturalism with emphasis on Flaubert, Zola, les Goncourt, Maupassant, and Daudet.</td>
</tr>
<tr>
<td>FRW 5934</td>
<td>SELECTED TOPICS</td>
<td>(1-3)</td>
<td>PR: Upper-level or graduate standing. Study of an author, movement, or theme.</td>
</tr>
<tr>
<td>FRW 6319</td>
<td>SEMINAR ON CLASSICAL DRAMA</td>
<td>(3)</td>
<td>PR: Graduate standing. A study of the works of Corneille, Racine, or Moliere.</td>
</tr>
<tr>
<td>FRW 6405</td>
<td>OLD FRENCH</td>
<td>(3)</td>
<td>PR: Graduate standing. An introduction to the Old French language and literature. Readings from representative texts. Required of all M.A. candidates.</td>
</tr>
<tr>
<td>FRW 6411</td>
<td>MEDIEVAL LITERATURE</td>
<td>(3)</td>
<td>PR: Graduate standing. A study in depth of Old French literature of the Middle Ages.</td>
</tr>
<tr>
<td>FRW 6938</td>
<td>GRADUATE SEMINAR</td>
<td>(3)</td>
<td>Topics vary. May be repeated.</td>
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Italian

UNDERGRADUATE COURSES
Courses in Translation

ITT 3110 ITALIAN CLASSICS IN TRANSLATION (3)
The works of the fathers of the Renaissance—Dante, Petrarch, Boccaccio, Machiavelli, Castiglione and others—are read and discussed in English.

ITA 1101 BEGINNING ITALIAN I (5)
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 (5)
The second course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking, and reading.

ITA 2200 INTERMEDIATE ITALIAN I (3)
PR: ITA 1101 or equivalent. Readings in Italian on the elementary level. A review of the basic structure of spoken and written Italian.

ITA 2201 INTERMEDIATE ITALIAN II (3)
PR: ITA 1101 or equivalent. Readings in Italian on the intermediate level. May be taken concurrently with ITA 2200.

ITA 3240 ITALIAN CONVERSATION I (4)
To develop fluency and correctness in spoken Italian. Intensive study for conversational skill based particularly upon the current Italian idiom. Syntactic conventions are emphasized.

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

ITA 3500 ITALIAN CIVILIZATION (3)
Readings and discussion on the cultural history of Italy.

ITA 3560 ITALIAN CINEMA AND LITERATURE (3)
A parallel study of fiction and film from post-war Neo-realism to the present time. This course will be conducted in English with film viewing and lectures.

ITA 4241 ITALIAN CONVERSATION II (4)
To assist students who have already made a start in speaking Italian, who have not had the advantages of travel or who have non-Italian speaking parents, to improve their skill in speaking Italian. Current events; literary discussions; free conversation; prepared speeches. Differences of media, syntactical signal.

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

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

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

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

GRADUATE COURSES

ITW 6910 DIRECTED RESEARCH (var.)
PR: GR. Master's level. Repeatable. (S/U only.)

Russian

UNDERGRADUATE COURSES
Courses in Translation

RUT 3110 RUSSIAN CLASSICS IN TRANSLATION (3)
Masterpieces of 19th century Russian literature in English. The major works of Pushkin, Lermontov, Gogol, Turgeney, Dostoevsky, Tolstoy, and Chekhov. Elective for all students in all departments.

RUT 3111 TWENTIETH-CENTURY RUSSIAN LITERATURE IN TRANSLATION (3)
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 (5)
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 (5)
PR: RUS 1100 or CI. The second course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking, and reading.

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 (3)
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 (1-3)
Study of an author, movement, or theme.

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

RUT 3110 See above—COURSES IN TRANSLATION
RUT 3111 See above—COURSES IN TRANSLATION
RUT 4624 DOSTOEVSKY (3)
Reading and discussion of the major works of Dostoevsky.

Portuguese

UNDERGRADUATE COURSES

POR 3210 INTENSIVE PORTUGUESE (5)
PR: 2 years of another Romance language or Latin, or CI. An accelerated study of the fundamentals of listening, speaking, reading, and writing.

POR 3470 OVERSEAS STUDY (1-6)
PR: POR 3210. An intensive study-travel program in a Portuguese-speaking country. Prior departmental approval and early registration are required.

Spanish

UNDERGRADUATE COURSES
Courses in Translation

SPT 3110 SPANISH MASTERPIECES IN TRANSLATION (3)
Outstanding literary works of Spain, in English. Open to all non-majors.
SPN 3131 SPANISH AMERICAN LITERATURE IN TRANSLATION (3)
Outstanding works of Spanish America, in English. Open to all non-majors.

SPN 1100 BEGINNING SPANISH I (5)
Development of basic skills in listening and reading comprehension, speaking and writing of Spanish.

SPN 1101 BEGINNING SPANISH II (5)
PR: SPN 1100 or equivalent. Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish.

SPN 2200 INTERMEDIATE SPANISH I (3)
PR: SPN 1101 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 (3)
PR: SPN 1101 or equivalent. Readings in Spanish on the intermediate level. May be taken concurrently with SPN 2200.

SPN 2240 CONVERSATION I (3)
PR: SPN 1101. For development of basic conversational skills.

SPN 3241 CONVERSATION II (3)
PR: SPN 2240 or equivalent. To improve fluency in spoken Spanish.

SPN 3300 COMPOSITION I (3)
A fundamental composition course for students who have completed SPN 2200 and SPN 2201.

SPN 3470 OVERSEAS STUDY (1-6)
PR: SPN 1101. An intensive study-travel program in a Spanish-speaking country. Prior departmental approval and early registration are required.

SPN 3500 SPANISH CIVILIZATION (3)
PR: SPN 1101. The culture and civilization of Spain.

SPN 3520 SPANISH AMERICAN CIVILIZATION (3)
Readings and discussions on the culture and civilization of Spanish America. For majors and non-majors.

SPN 4301 COMPOSITION II (3)
PR: SPN 3300 or equivalent. A study of syntax, grammar, and stylistic devices of the Spanish language.

SPN 4410 ADVANCED CONVERSATION (3)
PR: SPN 3241 or equivalent. Intensive practice in the formulation and expression of ideas in standard Spanish.

SPT 3110 See above—COURSES IN TRANSLATION (3)
SPT 3131 See above—COURSES IN TRANSLATION (3)

SPW 3200 INTRODUCTION TO HISPANIC LITERATURE (3)
PR: SPN 2201 or equivalent. Fiction, drama, poetry; emphasis on the techniques of reading literature for critical analysis.

SPW 4100 SURVEY OF SPANISH LITERATURE I (4)
PR: SPW 3200 or equivalent. A study of Spanish literature from its origins through the 17th century.

SPW 4101 SURVEY OF SPANISH LITERATURE II (4)
PR: SPW 3200 or equivalent. A study of the later periods of Spanish literature.

SPW 4130 SURVEY OF SPANISH-AMERICAN LITERATURE I (4)
PR: SPW 3200 or equivalent. An introduction to the study of Colonial Spanish-American literature from the Discovery to Independence.

SPW 4131 SURVEY OF SPANISH-AMERICAN LITERATURE II (4)
PR: SPW 3200 or equivalent. An introduction to the study of Spanish-American literature from the Independence period to the present. Emphasis on modern writers since Dario.

SPW 4900 DIRECTED STUDY (1-3)
Departmental approval required.

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

GRADUATE COURSES

SPN 5420 MODERN USAGE (3)
PR: SPN 4301, or equivalent. An analysis of contemporary Spanish structure and usage, along with practical training in writing at the expository level.

SPN 5567 CONTEMPORARY SPAIN (3)
PR: SPN 3500 or equivalent or graduate standing. Advanced readings and discussions dealing with contemporary Spanish civilization and culture, including a study of recent social, artistic and political trends. Texts and discussions in Spanish.

SPN 5790 PHONOLOGY AND ARTICULATION (3)
PR: SPN 3300. A study of the Spanish sound system.

SPN 6845 HISTORY OF THE SPANISH LANGUAGE (3)
Traces the development of Spanish from its Latin origins to the present.

SPN 6940 GRADUATE INSTRUCTION METHODS (1-3)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of three credits per student. (S/U only.)

SPW 5245 THE PICARESQUE NOVEL (3)
Realistic prose-fiction of the Renaissance and Golden Age.

SPW 5313 GOLDEN AGE DRAMA (3)
PR: SPW 4100. Lope de Vega, Alarcón, Tirso, Calderon, and others.

SPW 5400 MEDIEVAL LITERATURE (3)
PR: SPW 4100 or equivalent. Course gives an in-depth study of principal works and authors of the period such as El Poema de Mió Cid, Libro de Buen Amor and La Celestina.

SPW 5482 POST CIVIL WAR LITERATURE (3)
PR: SPW 4101. The drama and novel since 1936.

SPW 5535 ROMANTICISM (3)
PR: SPW 4101. Poetry and drama of the first half of the 19th century.

SPW 5555 REALISM (3)

SPW 5605 THE QUIJOTE (3)
Cervantes' masterpiece Don Quijote de la Mancha.

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

SPW 5726 GENERATION OF 1927 (3)

SPW 5755 MEXICAN LITERATURE (3)
PR: SPW 4130. Major writers of all genres. Emphasis on modern writers.

SPW 5755 LITERATURE OF ARGENTINA AND URUGUAY (3)
PR: SPW 4131. Emphasis on the gaucho theme and contemporary prose fiction.

SPW 5775 CARIBBEAN LITERATURE (3)
PR: SPW 4130. Emphasis on contemporary Cuban and Puerto Rican literatures.

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

SPW 6910 DIRECTED RESEARCH (var.)
PR: GR. Master's level. Repeatable. (S/U only.)

SPW 6936 GRADUATE SEMINAR (3)
Topics vary. May be repeated.

SPW 6971 THESIS: MASTER'S (var.)
Repealable. (S/U only.)

LIBERAL STUDIES

UNDERGRADUATE COURSES

IDS 3300 STRUCTURES OF KNOWLEDGE AND KNOWING (4)
Distinguishing the modalities of human knowledge and awareness as reflected in the classic distinctions: sensory/motor/emotive; normative/descriptive/non-rational/logical/mathematical; ethical/physical/moral; qualitative/quantitative; mind/will/body; substance and function.

IDS 3310 PROGRESS AND UTOPIA (4)
Examination of the modern backgrounds of contemporary awareness: particularly the development of historical awareness.
of ourselves as scientifically, technologically, and socially "progressive"—in relation to both utopic and non-utopic futures.

IDS 3320 FREEDOM AND THE SELF (4)
Analysis of the idea of freedom in relation to the idea of self, involving comparative treatment of the variety of standpoints of conceiving the individual personality in relation to the social context.

IDS 4344 SEMINAR: MAN AND NATURE (3)
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 (2-4)
Course content determined by student's and instructor's interest and need.

LINGUISTICS

UNDERGRADUATE COURSES

ESL 1383 SPEECH COMMUNICATION FOR FOREIGN STUDENTS I (3)
A special course for students learning English as a second language. Intensive study and drill in American English pronunciation and listening comprehension.

ESL 1384 SPEECH COMMUNICATION FOR FOREIGN STUDENTS II (3)
PR: ESL 1383 or CI. Intensive study and drill in American English pronunciation and listening comprehension. Emphasis on diction and speaking skills.

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

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

LIN 4040 DESCRIPTIVE LINGUISTICS (3)
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 (3)
An introduction to linguistic typology consisting in a systematic comparison of characteristic representatives of the various language types, such as Vietnamese, Malay, Hungarian, Swahili, Sanskrit, Hebrew, and others. No knowledge of any of these languages on the part of the student is presumed.

LIN 4600 LANGUAGE AND SOCIETY (3)
PR: LIN 3010 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 (3)
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 (3)
PR: LIN 3010. A survey of current research and theory in the processes of normal acquisition and development of language and communication in children. The acquisition and development of phonology, syntax, semantics, pragmatics, and nonverbal communication and the role of language in general cognitive development.

LIN 4903 DIRECTED READING (1-3)
PR: CI. Readings in special topics. Must be arranged prior to registration.

LIN 4930 SELECTED TOPICS (1-3)
PR: CI. Course content depends upon student's needs and instructor's interest and may range over the entire field of linguistics.

GRADUATE COURSES

LIN 5231 COMMUNICATION SCIENCE: THEORY AND PRACTICUM (3)
PR: LIN 2200 or CI. Intensified instruction in neuroanatomy of oral-nasal cavities, ear, pharyngeal, laryngeal, and thoracic areas. Includes topics in phonological theory such as feature composition and markedness. Practice in IPA and identification of segments through Sons-Graph work.

LIN 5245 EXPERIMENTAL PHONETICS (3)
PR: LIN 2200 or CI. Intensified training in auditory discrimination of the sounds of American English. Detailed use of research findings, instruments, and methodologies in the laboratory study of normal speech. Development of phonetic skills of discrimination and reproduction of speech sounds.

LIN 6100 DIRECTED RESEARCH (var.)
PR: GR. Master's level. Repeatable. (S/U only.)

LIN 6117 HISTORY OF LINGUISTIC THOUGHT (3)
Survey of the development of language study in the West from Antiquity to the present: Classical and medieval theories of language; origins of traditional grammar; rationalist linguistic theory and philosophical grammar, and an examination of the origin of contemporary linguistic controversies.

LIN 6128 HISTORICAL LINGUISTICS (3)
An advanced survey of the principles and methodology of historical linguistics.

LIN 6139 TOPICS IN THEORETICAL LINGUISTICS (3)
Offerings will include current issues in any area of linguistic theory.

LIN 6146 COMPARATIVE LINGUISTICS (3)
The principles and methodology of comparative linguistics, focusing upon a major Indo-European subfamily, such as Romance, Germanic, or Balto-Slavic.

LIN 6233 ADVANCED PHONETICS (3)
PR: LIN 5231 or equivalent. Intensified training in close phonetic transcription. Work on dialects, intonation, distinctive feature theory and acoustic phonetics.

LIN 6240 PHONOLOGICAL DESCRIPTION (3)
Analysis of the phonological component of a grammar, its role and formal structures. The generative model is compared to taxonomic descriptions. Theory and data-solution problems.

LIN 6377 THE STRUCTURE OF A SPECIFIC LANGUAGE (3)
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 unwritten 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 six credit hours with change in content/title.

LIN 6380 SYNTACTIC DESCRIPTION (3)
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 (3)
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 (3)
Analysis of the phonological, morphological and syntactic features of English as a basis for linguistic application to problems of English language acquisition by non-native speakers.

LIN 6425 FORMAL STYLISTICS (3)
Studies in the relationship between the development of language study and literary criticism; developments in modern linguistic theory and their application to problems of aesthetics, literary structure, and style.

LIN 6435 FIELD METHODS (3)
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 (3)
Detailed analysis of the phenomenon of language variation with popular upon theories of sociolinguistics and the implications of its finding for current linguistic theory.

LIN 6715 LANGUAGE ACQUISITION (3)
A survey of current research and theory in the processes of normal language acquisition and development.

LIN 6810 SEMIOTICS (3)
PR: CI. Introduction to kinesics and paralinguistics; the linguistic structure of gesture, proxemics, and other significant areas of nonverbal communication and signaling behavior.

LIN 6820 STUDIES IN SEMANTICS (3)
Selected problems in the area meaning and the relationship between linguistic structure and thought. Mappings of presuposition, 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 (1-4)
Content will depend upon instructor’s interests and student’s needs. Such topics as computational and mathematical linguistics, bioinformatics, 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 (1-4)
Special courses to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of four credits per student. (S/U only.)

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

PHI 6226 LANGUAGE AND NATURE (3)
A study of the development of language as an instrument for ordering human consciousness in terms of European ideas of Nature, with special emphasis upon the dialectic, relational, and popular modalities of conceptual representation.

PHI 6228 LANGUAGE AND LIMIT (3)
Introduction to the principles of the logic of natural languages including semantic analysis of logical relations between selected syntactic structures (active/passive, raising, case relations, etc.); logical dominance in semantic structure; application of logic to questions of linguistic meta-theory.

TSL 6371 METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE I (3)
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 (3)
PR: TSL 6371. Required of all candidates for the M.A. degree in TESL. Content includes discussion of the problems and methods employed in teaching reading comprehension, conversation, composition, and listening comprehension.

TSL 6945 INTERNSHIP (1-6)
PR: TSL 6371 and TSL 6372. Required of all candidates for the M.A. degree in TESL. Supervised teaching of English as a second language to non-native speakers at appropriate levels and settings. May be repeated up to six credit hours. (S/U only.)

MASS COMMUNICATIONS

UNDERGRADUATE COURSES

ADV 3000 INTRODUCTION TO ADVERTISING (3)
PR: MMC 3100 and MMC 3602. A study of the structures, functions, and persuasive language of advertising in mass media with attention to social, political, economic, and legal aspects.

ADV 3101 ADVERTISING COPY (3)
PR: ADV 3000, ECO 2023 or ECP 1001, MAR 3023. Study of laboratory experience in preparation of advertising copy for newspapers, magazines, radio, television, direct mail, outdoor displays, and special items.

ADV 3103 RADIO-TELEVISION ADVERTISING (3)
PR: ADV 3000. An intensive study and analysis of radio and television for advertising purposes, including copywriting, script and storyboard preparation, time buying and selling techniques, and the research methods, and basic production concepts.

ADV 3300 ADVERTISING MEDIA STRATEGY (3)
PR: ADV 3000. Problems, techniques, strategy of media research, planning, budgeting and effective utilization in advertising.

ADV 3700 RETAIL ADVERTISING PLANNING AND EXECUTION (3)
PR: ADV 3000 and ADV 3101. A study of retail advertising, including management decisions, processes, procedures, media planning, production techniques, and problems affecting the development of advertising to fulfill retail objectives.

ADV 4801 ADVERTISING CAMPAIGNS (3)
PR: ADV 3101, ADV 3300, MAR 3153 or MAR 3403 or MAR 4203 or MAR 4243. An advanced advertising course requiring planning and production of complete general advertising campaign, including research, production methods, budgeting, and media schedules.

ADV 4940 ADVERTISING PRACTICUM (1-4)
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. (S/U only.)

FIL 3004 THE FILM AS MASS COMMUNICATION I: SYNTAX (3)
PR: MMC 3100 and MMC 3602. The language, conventions, elements, and patterns of the film medium as related to current models of effective mass communication. Concurrent laboratory experiences in control of light and line.

FIL 3100 INTRODUCTION TO FILM WRITING (3)
PR: FIL 3004. An introduction to the techniques of writing for the film employing adaptations from fiction and 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 (3)
PR: FIL 3004. A continuation of FIL 3004 to include the effective arrangements of scenes and sequences in motion picture and television films. Concurrent laboratory experiences in sound and editing.

FIL 3201 THE FILM AS MASS COMMUNICATION III: WORKSHOP (3)
PR: FIL 3200. Practical exercises, demonstrations, and experiences in applying material covered in FIL 3004 and FIL 3200.

FIL 4205 ADVANCED CAMERA TECHNIQUES (3)
PR: FIL 3004. Advanced camera technology, professional procedures, emulsion selection, color control, studio and
location shooting, laboratory methods, matte shooting, and special effects.

**FIL 4206 ADVANCED FILM LIGHTING (3)**

PR: FIL 4205. Advanced lighting of studio and location sets stressing professional procedures and standards from pre-production to post-production.

**FIL 4207 SENSITOMETRY AND PHOTOMETRICS (3)**

PR: FIL 3004. The materials and processes of cinema photo; response of materials to development and exposure.

**FIL 4208 FILM DIRECTING (3)**

PR: FIL 3006. Introduction to the techniques of film direction.

**FIL 4209 CINEMA DYNAMICS (3)**

PR: FIL 3004. Techniques for the description and analysis of intra-frame movement. Concurrent laboratory in subject and camera movement.

**FIL 4300 THE DOCUMENTARY FILM (3)**

PR: Sophomore standing. The development of the documentary movement: earliest newsreels; Flaherty, Grierson and the GPO Unit. U.S. Government-sponsored films, the Canadian Film board, Cinema Verite; study of about 100 films from some 20 countries. Stresses objective criteria, critical analysis.

**FIL 4403 SOCIAL HISTORY OF THE FILM TO 1945 (3)**

PR: MMC 3100 and MMC 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 (3)**

PR: MMC 3100 and MMC 3602. A continuation of FIL 4403, covering the development of the film from 1945 to the present. (FIL 4403 is not a prerequisite.)

**JOU 3006 MAGAZINES IN SOCIETY (3)**

PR: MMC 3100 and MMC 3602. A study of the development of various types of magazines in America, and a critical analysis of current problems and performances of periodicals along with changes indicated for the future.

**JOU 3100 BEGINNING REPORTING (3)**

PR: MMC 3100 and MMC 3602. Basic instruction in news judgment, sources of news, newsgathering, and newswriting techniques. Typing ability is required.

**JOU 3101 ADVANCED REPORTING (3)**

PR: POS 2041, JOU 3100, JOU 4200, and PHI 1103. Getting information and writing the more complex and specialized story, techniques of investigative and analytical reporting, including ethical and legal considerations.

**JOU 3205 TYPOGRAPHY I (3)**

PR: MMC 3100 and MMC 3602. The history and design of type, major classifications of type faces, typographic nomenclature, printer's measurements, and the science of type design and identification. Laboratory work.

**JOU 3206 TYPOGRAPHY II (3)**

PR: JOU 3205. A study of the history of typesetting, the emergence of computers and colotype composition; extensive study and use of copyfitting methods for body type, display, and headlines; principles of typograph and photocomposition including readability and legibility. Laboratory work.

**JOU 3300 MAGAZINE ARTICLE AND FEATURE WRITING (3)**

PR: ENC 3486, JOU 3100. Planning, researching, writing, and marketing articles for general and special interest magazines and newspaper magazine supplements; experiences in developing article ideas; inductive analysis of contemporary magazine articles.

**JOU 3306 CRITICAL WRITING: EDITORIALS, REVIEWS, COLUMNS (3)**

PR: JOU 3101, JOU 4200. Interpretive and opinion writing for the mass media. Analysis and discussion of current events as a basis for critical thinking and editorial writing; evaluation of editorial pages of leading newspapers. Study of journalistic techniques involved in writing art, drama, music, and book reviews and satire, sports, or personal columns.

**JOU 3940 REPORTING PRACTICUM (1)**

PR: JOU 4104 and CI. For selected News-Editorial Sequence majors. Practical experience outside the classroom in a live newspaper reporting situation where the student works for academic credit under the tutelage of a professional practitioner. (S/U only.)

**JOU 4004 PUBLIC AFFAIRS REPORTING (3)**

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 (3)**

PR: ECP 1001, JOU 3100, and SOC 1020. Evaluating news and its display; editing and rewriting copy for the mass media, with emphasis on the daily newspaper; news judgment, headlines, makeup; ethical problems.

**JOU 4202 NEWS EDITING II (3)**

PR: JOU 4200, POS 2041. Continuation of JOU 4200, with more intensive practice on the copydesk in evaluating, processing, editing, and headlining live wire copy and local copy; experimental makeup; managing the copy desk. Current events and analysis are edited during class sessions.

**JOU 4208 MAGAZINE EDITING AND PRODUCTION (3)**

PR: JOU 3300, JOU 4200. A study of magazines in America: preparation of copy, photographs and art for printing; issue planning and design; examination of production methods, including printing, typography and mechanics. Preparation of a detailed proposal and comprehensive for a hypothetical magazine.

**JOU 4500 NEWSPAPER ORGANIZATION AND MANAGEMENT (3)**


**JOU 4800 MASS MEDIA STUDIES (3)**

PR: Junior standing. JOU 3100, MMC 3000. 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)**

PR: Senior standing JOU 4202 and CI. For selected News-Editorial Sequence majors. Practical experience outside the classroom at a daily newspaper copydesk, where the student works for academic credit under the tutelage of a professional editor. (S/U only.)

**JOU 4944 MAGAZINE PRACTICUM (1)**

PR: Senior standing and CI. For selected Magazine Sequence majors. Practical experience outside the classroom in a live magazine or industrial publication situation where the student works for academic credit under the tutelage of a professional practitioner. (S/U only.)

**MMC 3000 SURVEY OF MASS COMMUNICATIONS (2)**

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 (3)**

PR: Sophomore standing; 2.5 GPR; grade of "C" in ENC 1102, ENC 1135, 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 (3)**

PR: Sophomore standing. A survey of the history, theory processes, and philosophy of mass communications and the mass media in the United States, and their relationship to the other major institutions of American society.

**MMC 3700 THE POPULAR ARTS IN AMERICA (3)**

A survey of the growth of the popular arts (motion pictures, radio, television, art best sellers, jazz and other forms of music,
the comics, etc.) as mirrors, transmitters and transformers of American cultural values.

MMC 3936 SELECTED TOPICS IN MASS COMMUNICATIONS STUDIES (1-3) Courses designed to meet current or specific topics of interest to the instructor and students.

MMC 4200 HISTORY AND PRINCIPLES OF COMMUNICATIONS LAW (3) 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 (3) PR: MMC 4200. The relationships between government and the media, with emphasis on current activities of such regulatory agencies as the Federal Communications Commission, the Federal Trade Commission and other commissions; the courts, the Congress and the Executive; examination of the media and industry codes and standards.

MMC 4300 INTERNATIONAL COMMUNICATION (3) 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 (1-3) PR: Junior standing, CC and CI. Reading and directed study in special topics.

MMC 4910 INDIVIDUAL RESEARCH IN MASS COMMUNICATIONS (1-3) PR: CC and CI. The course provides means for a student to do independent study in an area not covered by a numbered course.

MMC 4936 SELECTED TOPICS IN MASS COMMUNICATIONS STUDIES (1-3) PR: Junior standing. Courses designed to meet current or specific topics of interest to instructors and students.

MMC 4945 MEDIA INTERNSHIP-SEMINAR (3) PR: CI and 20 hours in Mass Communications courses. A seminar in which students who have completed a supervised 8-12 week approved media internship will report on their experience to the class and instructor for discussion and evaluation. Internships qualifying students for enrollment in the seminar will have been with newspapers, broadcast stations, or other media-related agencies approved by the department and paid by the sponsor. (S/U only.)

PUR 3000 PRINCIPLES OF PUBLIC RELATIONS (3) PR: ECP 1001 and MAN 3010, MMC 3100 and MMC 3602. The functions of public relations within corporate and institutional structures; ethical standards of practice, and relationships of the practice to the public media and other modes of contemporary communication.

PUR 4001 ADVANCED PUBLIC RELATIONS (3) PR: PUR 3000 and PUR 4100. As final course in PR sequence, it involves intensive study of counseling and problem solving techniques used in professional practice. Analysis of case studies and preparation of complete PR program. Extensive reading in the literature of contemporary practice.

PUR 4100 WRITING FOR PUBLIC RELATIONS (3) PR: JOU 3100, PUR 3000. Persuasive writing techniques unique to the practice of public relations; application of principles and ethical practices to problem-solving situations drawn from case studies; writing formats used in promotional and publicity literature.

PUR 4601 PUBLIC INFORMATION (3) PR: POS 2041, POS 2112, and PUR 4100. 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 (1) PR: Senior standing and CI. For selected Public Relations Sequence majors. Practical experience outside the classroom in a professional public relations situation where the student works for academic credits under the tutelage of a professional practitioner.

RTV 3000 INTRODUCTION TO BROADCASTING (3) PR: MMC 3100 and MMC 3602. A survey of the organization, structure, and function of the broadcasting industry.

RTV 3100 WRITING FOR RADIO AND TV (3) PR: ENC 3466 or ENC 3486, RTV 3000. The writing of radio and television scripts such as documentaries, children's programs, commercials, dramas, and demonstrations.

RTV 3210 RADIO PRODUCTION AND DIRECTION (3) PR: RTV 3000. Radio production and direction; laboratory and broadcast experiences.

RTV 3225 VIDEO WORKSHOP (1) PR: MMC 3100 and MMC 3602 or CI. An introduction to the techniques and applications of field television production and electronic editing.

RTV 3230 BROADCASTING ANNOUNCING (3) 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 (3) PR: RTV 3000. The study and methods in gathering, writing, and editing newscasts for radio and television.

RTV 3941 RADIO PRACTICUM (1) PR: RTV 3210 and CI. The study, rehearsal, and production of radio programs and materials. (S/U only.)

RTV 4205 ADVANCED TV PRODUCTION AND DIRECTION (3) PR: RTV 4220 and junior standing. Intensive study and practice of the techniques of TV production and direction with emphasis on both creative and experimental aspects of TV programming.

RTV 4220 TV PRODUCTION AND DIRECTION (3) PR: RTV 3000 and junior standing. A basic course in the techniques of producing and directing TV programs.

RTV 4301 TV NEWS FILM (3) PR: RTV 3300. Techniques in writing and filming for television news.

RTV 4402 MEDIA CRITICISM: BROADCASTING (3) PR: RTV 3000. A critical study of contemporary broadcast content.

RTV 4500 THE BROADCAST PROGRAM (3) PR: RTV 3000. Program concepts, resources, costs, selection and scheduling. Analysis of programming in terms of structures, appeals and strengths.

RTV 4700 BROADCAST LAW (3) PR: RTV 3000. 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 (1) PR: RTV 4220 and CI. The study, rehearsal and production of television programs and materials. (S/U only.)

VIC 3000 INTRODUCTION TO VISUAL COMMUNICATIONS (3) PR: MMC 3100 and MMC 3602. The survey of visual communication theory, techniques, and their contemporary application and social influences as applied to the visual media with emphasis on still photography, motion pictures, video tape, and graphics.

VIC 3100 PHOTOJOURNALISM I (3) 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 (3) PR: VIC 3100. 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 (3)
PR: VIC 3102. 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 (3)
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 (3)
A study of managerial problems in planning, controlling, and evaluation of advertising with emphasis on the decisions concerning products, pricing, competitive positioning, distribution and promotion.

JOU 6107 ADVANCED URBAN AFFAIR REPORTING (3)
Problems and methods of reporting urban affairs, including municipal government and politics; city, county and state. Research and analyses of current issues.

JOU 6191 SEMINAR: CONTEMPORARY NEWSPAPER PROBLEMS (3)
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 (3)
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 (3)
The study of mass communications theories, structures, influences, and their relationships to institutions in American society.

MMC 6421 RESEARCH METHODS IN MASS COMMUNICATIONS (3)
The theory and practice of quantitative, historical, and critical research methods, and their applications to the study of mass communication. Emphasis on experimental and survey research, statistical analysis, and evaluation of data.

MMC 6605 PUBLIC OPINION AND THE MASS MEDIA (3)
The influence of public opinion on private and public institutions in a democratic society and the role of the mass media in opinion formation. The nature of persuasion in establishing or modifying public opinion, and perspectives on the social responsibilities of communicators.

MMC 6612 SEMINAR: GOVERNMENT AND THE MEDIA (3)
PR: MMC 4200 or equivalent. Interrelationships of the media and government at the judicial, executive and legislative levels. Focus is on legal limitations and privileges of the medial theory and philosophy of the First Amendment; research procedures in court and administrative agency documents. May be repeated up to 3 credit hours.

MMC 6900 DIRECTED READINGS IN MASS COMMUNICATIONS (1-3)
PR: CI and graduate adviser. Readings in specialized areas of Mass Communications as agreed to by the instructor and the student by contract. (S/U only).

MMC 6910 INDIVIDUAL RESEARCH IN MASS COMMUNICATIONS (1-3)
PR: CI and graduate adviser. Independent study in which the student must have a contract with the instructor to study an area not covered by other courses in the graduate curriculum. May be repeated up to 3 credit hours. (S/U only).

MMC 6936 SELECTED TOPICS IN MASS COMMUNICATIONS (3)
Courses designed to meet current, specific topics of interest to students and instructors.

MMC 6945 PROFESSIONAL PRACTICUM (3)
PR: Minimum of 12 graduate hours in Mass Communications. Practicum will consist of placement with a media related organization selected by the student and approved and supervised by the graduate adviser. (S/U only).

MMC 6971 THESIS: MASTER'S (var.)
Repeatable. May be taken for varying credit in successive semesters up to 6 credit hours. (S/U only).

PUR 6603 PUBLIC RELATIONS COUNSELING (3)
Relationship of the public relations counselor to the client or employer; counseling in corporate, non-profit and governmental organizations; writing and presenting PR programs to the client; management and operation of counseling firms.

PUR 6604 STANDARDS OF PUBLIC RELATIONS PRACTICE (3)
Historical perception of ethical practice; the professional's role as advocate for the client and ombudsman between the client and his public; codes of conduct; administrative and statutory law governing the practice; progress towards professional status.

RTV 6400 HISTORY AND CRITICISM OF BROADCASTING (3)
The origin and development of broadcast programming stressing how radio and television content affect social, cultural, and political values. Study will also include critical examination of broadcast aesthetics and those factors which determine program form and function.

RTV 6702 TELECOMMUNICATIONS AND PUBLIC POLICY (3)
An exploration of the emerging problems of telecommunications policy, especially the regulation of news systems of communication, and the development of communications policy in a post-industrial age.

VIC 6605 SEMINAR IN VISUAL COMMUNICATIONS (3)
Development of message preparation in the integration of visual and verbal images, emphasis on the management and planning of still photography, video, film, graphic design, and typography in effective communication.

PHILOSOPHY

UNDERGRADUATE COURSES

PHH 3000 INTRODUCTION TO PHILOSOPHICAL TRADITIONS (3)
An historical introduction to selected philosophical traditions through readings from representative thinkers.

PHH 3100 ANCIENT AND MEDIEVAL PHILOSOPHY (3)
A survey of philosophy from the pre-Socratics through Plotinus.

PHH 3420 MODERN PHILOSOPHY (3)
A survey of Western philosophy from Descartes through Thomas Reid.

PHH 3440 RECENT PHILOSOPHY (3)
A survey of philosophy from Kant through nineteenth century philosophy.

PHH 4600 CONTEMPORARY PHILOSOPHY (3)
PR: Eight hours of philosophy or CI. Selected schools of twentieth century thought such as idealism, positivism, pragmatism, realism, and existentialism.

PHH 4700 AMERICAN PHILOSOPHY (3)
Major traditions in American thought—Puritanism, the Enlightenment, Transcendentalism, Idealism, Pragmatism, and Analytic Philosophy—in relation to American culture.

PHI 1000 GREAT PHILOSOPHERS OF THE WESTERN WORLD (2)
Lectures and discussions of the great philosophers since Plato, focusing on particular problems.

PHI 1010 PHILOSOPHIC CONTROVERSIES (2)
A discussion of central controversies in philosophy such as the nature of love, violence, freedom, truth, morality, etc.
PHI 1103 PRACTICAL LOGIC (2)
Elementary theory and application of logical fallacies, deductive and inductive logic. Not for majors.

PHI 3011 INTRODUCTION TO PHILOSOPHICAL PROBLEMS (3)
An introduction to major philosophical problems through readings from representative thinkers.

PHI 3100 LOGIC (4)
Language analysis and classical modern formal logic, including the logic of classes and propositions, and discussion of philosophical issues.

PHI 3404 SCIENTIFIC METHOD (3)
Probability, inductive inference, the hypothetico-deductive method, experimentation, and selected topics in the philosophy of science.

PHI 3600 ETHICS (3)
An examination of the writing of the philosophers: Plato, Aristotle, Kant, Sartre, etc., about moral problems and principles.

PHI 3700 PHILOSOPHY OF RELIGION (3)
Analysis of religious experience and activity and examination of principal religious ideas in light of modern philosophy.

PHI 3905 DIRECTED STUDY (1-4)
PR: CI. Individual study directed by a faculty member. Approval slip from instructor required.

PHI 3930 SELECTED TOPICS (1-3)
PR: CI. Selected topics according to the needs of the student. Approval slip from instructor required.

PHI 4320 PHILOSOPHY OF MIND (3)
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 (3)
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 (3)
A study of traditional and contemporary aesthetic theories with emphasis on creative process, the nature of the art work, the aesthetic response, expressiveness, form and content as well as art and morality.

PHI 4905 DIRECTED STUDY (1-4)
PR: CI. Individual study directed by a faculty member. Approval slip from instructor required.

PHI 4930 SELECTED TOPICS (1-3)
PR: CI. Selected topics according to the needs of the senior students. Approval slip from instructor required.

PHM 3100 SOCIAL PHILOSOPHY (3)
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.

PHM 3400 INTRODUCTION TO PHILOSOPHY OF LAW (3)
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 (3)
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 (3)
PR: Eight hours of philosophy or CI. The examination of Plato will include the dialogues Protagoras, Georgias, Meno, Republic, etc.

PHP 4010 ARISTOTLE (3)
PR: Eight hours of philosophy or CI. Study of Aristotle's philosophy.

PHP 4410 KANT (3)
PR: Eight hours of philosophy or CI. Lecture and discussion of Kant's philosophy, especially The Critique of Pure Reason.

PHP 4740 RATIONALISM (3)
A careful study of the epistemologies of Descartes, Spinoza, Leibniz, and Malebranche.

PHP 4745 EMPIRICISM (3)
A careful study of the epistemologies of Locke, Berkeley, Hume, and Thomas Reid.

PHP 4784 ANALYTICAL PHILOSOPHY (3)
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 (3)

GRADUATE COURSES

PHH 6938 SEMINAR IN THE HISTORY OF PHILOSOPHY (3)
PR: Graduate standing or CI. A seminar in the history of philosophy. The instructor will determine the subject matter. Repeatable up to 12 credit hours.

PHI 5135 SYMBOLIC LOGIC (3)
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 (3)
PR: Eight hours of philosophy, major in linguistics, or CI. An examination of semantical, syntactical, and functional theories of language with special attention given to the problems of meaning, linguistic reference, syntactical form, and the relations between scientific languages and ordinary linguistic usage. Seminar format.

PHI 5913 RESEARCH (1-4)
PR: CI. Individual research supervised by a faculty member. Approval slip from instructor required.

PHI 5934 SELECTED TOPICS (1-3)
PR: CI. Selected topics according to the needs of the student. Approval slip from instructor required.

PHI 6105 SEMINAR IN LOGIC (3)
PR: Graduate standing or CI. Foundations and basic problems of logic. This course may be taken more than once for credit with CI and departmental approval. Seminar format.

PHI 6305 SEMINAR IN EPISTEMOLOGY (3)
PR: Major in philosophy or psychology and CI. This course may be taken more than once for credit with CI and departmental approval. Seminar format.

PHI 6405 SEMINAR IN THE PHILOSOPHY OF NATURAL SCIENCE (3)
PR: Graduate standing or CI. A study of the nature and status of physical theories, some basic problems associated with scientific methodology, and the philosophical implications of modern science. This course may be taken more than once for credit with CI and departmental approval. Seminar format.
PHI 6425 SEMINAR IN THE PHILOSOPHY OF SOCIAL SCIENCES (3)
PR: Eight hours of philosophy or CI. Philosophic issues arising in the social sciences; value assumptions, laws and theories, models, etc. Seminar format.

PHI 6507 SEMINAR IN METAPHYSICS (3)
PR: Major in philosophy or CI. A consideration of the theory of reality. This course may be taken more than once for credit with CI and departmental approval. Seminar format.

PHI 6605 SEMINAR IN ETHICS (3)
PR: Graduate standing and CI. Advanced study of the problems of moral philosophy. May be repeated up to 9 credit hours.

PHI 6506 SEMINAR IN METAPHYSICS (3)
PR: Graduate standing or CI. An analysis of fundamental religious concepts in terms of contemporary philosophy. This course may be taken more than once for credit with CI and departmental approval. Seminar format.

PHI 6808 SEMINAR IN AESTHETICS (3)
PR: Graduate standing or CI. An analysis of fundamental special problems of aesthetics; value, perception, communication, technique, 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 (1-3)
PR: Graduate standing and CI. Selected topics according to the needs of the student. Approval slip from instructor required.

PHI 6945 GRADUATE INSTRUCTION METHODS (1-3)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of three credits per student. (S/U only.)

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

PHM 6105 SEMINAR IN SOCIAL PHILOSOPHY (3)
PR: Graduate standing or CI. A detailed study of the philosophical theories of society, class societies (Capitalism), advanced technocracy, (all types). This course may be taken more than once for credit with CI and departmental approval. Seminar format.

PHM 6305 SEMINAR IN POLITICAL PHILOSOPHY (3)
Graduate standing or CI. An examination of the main political philosophies. This course may be taken more than once for credit with CI and departmental approval. Seminar format.

PHM 6406 SEMINAR IN THE PHILOSOPHY OF LAW (3)
PR: Graduate standing or CI. A study of the metaphysical, ethical and epistemological bases of law. This course may be taken more than once for credit with CI and departmental approval. Seminar format.

PHM 6506 SEMINAR IN PHILOSOPHY OF HISTORY (3)
PR: Graduate standing or CI. The analysis of language and logic of historical explanation, historical idealism, historic materialism, positivism, and historical sociology. This course may be taken more than once for credit with CI and departmental approval. Seminar format.

RELIGIOUS STUDIES

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 includes (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 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 3145 WOMEN AND RELIGION (4)
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 (4)
A survey of the natural features, historical forces, and cultural movements of the Holy Land that shaped its peculiar role in history with respect to the ancient Hebrews. Particular attention will be paid to the period from the Hebrew Conquest to the time of Jesus.

REL 3210 INTRODUCTION TO THE BIBLE/OLD TESTAMENT (4)
An introduction to the critical study of the Hebrew Scriptures against the background of the ancient Near East, with attention to the history and religion of the Hebrew people. REL 3210 and REL 4221 may not both be credited toward the major.

REL 3243 INTRODUCTION TO THE NEW TESTAMENT (4)
An introduction to the critical study of the New Testament in context of Christian beginnings in the first century AD. REL 3243 and REL 4244 may not both be credited toward the major.

REL 3280 BIBLICAL ARCHAEOLOGY (4)
An examination in depth of the archaeological data relating to the background and content of the Bible, including ancient customs, Biblical sites and cities, Biblical history, and material culture of the Biblical period. Special attention will also be given to excavation methods and interpretation of archaeological evidence.

REL 3310 WORLD RELIGIONS (5)
An introduction to and a comparison of the ideas, the literature and institutions of the major religions of the world including Judaism, Christianity, Islam from the Near East and Hinduism, Taoism, Confucianism, and Buddhism from the Far East. General comparison of Western and Eastern beliefs.

REL 3332 BUDDHISM (4)
The study and comparison of Theravada and Mahayana Buddhism in their philosophical and psychological dimensions.

REL 3335 RELIGIONS OF CHINA AND JAPAN (4)
This course will investigate the philosophy of ancient China and its two major interpreters, Lao Tzu and Confucius. It will also look at the native Japanese Shinto religion.

REL 3342 THE RELIGIONS OF INDIA (4)
The sources of Hindu philosophic thought, an understanding of the psychology of the Yogas, and a study of the Hindu holy men and women are the three main concerns of this course.

REL 3420 CONTEMPORARY RELIGIOUS THOUGHT (4)
An examination of the central ideas of recent theological thinkers; such men as Barth, Brunner, Bultmann, Bonhoeffer, Rahner, Tillich, Cox, Alziter, Buber, Niebuhr.

REL 3501 HISTORY OF CHRISTIANITY (5)
The historical development of Christianity, its ideas and institutions, from the first century to the rise of "religious modernism" in the 19th century.

REL 3508 SOURCES OF CHRISTIANITY (3)
An investigation of the pre-Christian influences, in addition to
the influences of Judaism, that shaped the theology and practices of Christianity up to the end of the 4th century; influences of which continue to be evident in the traditional Roman and Eastern Orthodox churches.

REL 3600 INTRODUCTION TO JUDAISM (3)
An introduction to Judaism: its religious tenets; its codes of ethics; its rites and customs. This course is intended as a description of what it means to be a Jew.

REL 3602 HISTORY OF JUDAISM I (3)
A study of the evolution of the religion of ancient Israel from the Exodus to the end of the second century of our era, seen against the background of its historical, geographical, political, social and spiritual setting.

REL 3603 HISTORY OF JUDAISM II (3)
A study of the history of Judaism and the Jews from the third century of our era through the Middle Ages to the Emancipation in the 19th century. Taking History of Judaism I first is advantageous.

REL 3612 MODERN JUDAISM (2)
A study of Jewish life in the West since 1789, emphasizing Jewish beliefs, practices, and institutions.

REL 3900 DIRECTED READINGS (1-4)
PR: Cl. Individual guidance in concentrated reading on a selected topic.

REL 3936 SELECTED TOPICS (1-4)
PR: Cl. Course contents depend on students' needs.

REL 4182 COMPARATIVE MYSTICISM (4)
A course designed to acquaint the student with the nature of mystical experience, and some of the varieties of mystical experience recorded in the writings of the mystics.

REL 4221 BIBLE: OLD TESTAMENT LAW AND HISTORY (4)
An examination of the Pentateuch (Torah) from the point of view of its literary development, religious traditions, historical background, law, covenant theology, and the history of the religion of Israel.

REL 4224 BIBLE II: PROPHETS, WRITINGS (4)
PR: REL 3210 or REL 4221 or Cl. An investigation of the prophetic movement and the historical and cultic writings in Israel from the point of view of theological developments, history presupposed, and the religious institutions depicted. Special attention is given to a theme such as Job and the problem of evil.

REL 4235 APOCRYPHA AND PSEUDEPIGRAPHA (3)
A critical study of the books written "between the Testaments", a few of which (the Apocrypha) are sometimes regarded as canonical by some groups, but most of which (the Pseudepigrapha) are not. Special attention will be paid to the role of these books in the development of early Christianity and post-Biblical Judaism.

REL 4244 NEW TESTAMENT I: GOSPELS, ACTS (4)
An exploration of the Gospels and Acts, including their backgrounds in Judaism and pagan religion, literary and form criticism, historical Jesus research, and the social history of earliest Christianity.

REL 4250 JESUS' LIFE AND TEACHINGS (4)
PR: Cl. An examination of the various historical studies made in the quest of identifying Jesus as an historical figure. The concern is to make a reasonable assessment of who Jesus was and what he was saying to the Jews in Palestine at the beginning of the common era.

REL 4252 NEW TESTAMENT II: THE LETTERS OF PAUL AND OTHER NEW TESTAMENT WRITINGS (4)
PR: REL 4244 or REL 3243 or Cl. An investigation of the phenomenon of earliest Christianity in its Pauline and non-Pauline forms, particularly as reflected in Paul's letters and in other writings of the New Testament. Special attention is given to the program of apocalyptic, as in the book of Revelation.

REL 4295 DEAD SEA SCROLLS (4)
PR: Cl. A survey and study of the literature of the Dead Sea Scrolls in English translation. Examination of the literary, historical, and archaeological evidence for the identification of the Qumran people with the Essenes. Possible connections with the New Testament and early Christian theology.

REL 4910 UNDERGRADUATE RESEARCH (1-4)
PR: Junior standing and Cl. Individual investigations with faculty supervision.

REL 4931 SEMINAR IN RELIGION (3)
A course designed for persons, especially Religious Studies majors, whose prior religious studies have prepared them for a cooperative creative and/or research effort in the area of religion.

REL 4936 SELECTED TOPICS (1-4)
PR: Junior standing and Cl. Individual investigations with faculty supervision.

GRADUATE COURSES

REL 5937 SELECTED TOPICS (1-4)
PR: Senior standing and Cl. Course contents depend on students' needs.

Ancient Studies Sequence

UNDERGRADUATE COURSES

CLA 3000 ANCIENT CIVILIZATIONS (4)
Study of the character, ideas, and cultural achievements of the peoples of the Ancient Middle East and Mediterranean and their relevance for modern Western civilization.

CLA 3801 HISTORY OF THE ALPHABET (2)
Study, in reasonable detail, of the evolution of our 'Roman' alphabet, as well as of other ancient and modern alphabets, from the writing system of ancient Egypt.

CLA 3851 MID-EASTERN MYTHOLOGY (2)
Study of the more important myths and religious concepts of Egypt, the Fertile Crescent, Crete, Anatolia, and Persia, and of their impact on the Hebrew and Graeco-Roman mythologies as well as on later Western art, literature, and religion.

CLA 4100 GREEK CIVILIZATION (3)
Detailed study of the Aegean and Greek civilizations from their beginning in Crete and Mycenae to the Roman period. Greek discoveries, explorations, and colonization. (Alternate years.)

CLA 4120 ROMAN CIVILIZATION (3)
Prehistoric Italy and Etruscan civilization. History of the civilization of Rome and the Empire with emphasis on the Etruscan, Greek, Carthaginian, and Mid-Eastern influences. (Alternate years.)

CLA 4160 EGYPTIAN CIVILIZATION (2)
Study of the Ancient Egyptian civilization, including customs, religion, art and architecture, language and literature, science and the calendar, and an introduction to hieroglyphic writing. (Alternate years.)

CLA 4171 MESOPOTAMIAN CIVILIZATION (3)
Study of the Ancient Mesopotamian (Sumero-Babylonian) civilization, including customs, religion, art and architecture, languages and literatures, science and the calendar, and an introduction to cuneiform writing. (Alternate years.)

CLA 4900 DIRECTED READINGS (1-4)
PR: Consent of coordinator prior to registration. Readings in special topics chosen by the student in cooperation with the instructor. Reading of literature also possible in English translation.

CLA 4920 SELECTED TOPICS (1-4)
Course contents depend on student demand and instructor's interest and may range over the whole field of Ancient languages, literatures, and civilizations. Offerings on a semi-regular basis include Tongues of the Bible (2), and The Bible as History (3).

HEB 3100, 3101 BASIC HEBREW I, II (4,4)
Designed to give students a working knowledge of Classical (Biblical) Hebrew and to introduce them to the Biblical literature in the original language.

HEB 4250, 4251 ADVANCED HEBREW I, II (4,4)
PR: HEB 3100, HEB 3101, or equivalent. Study and analysis of selected passages from pre-Exilic, Exilic, and post-Exilic Biblical and extra-Biblical Hebrew texts to the second century B.C.E.
Survey of the Hebrew literature from its beginning to the end of the Second Commonwealth.

GRADUATE COURSES
The following entries are intended as service courses for students in related graduate programs, in particular Anthropology, History, and Linguistics. In all of these, permission from the coordinator is required prior to enrollment.

CLA 5900 DIRECTED READINGS (1-4)
Readings in special topics chosen by the student in cooperation with the instructor. Reading of literature also possible in English translation.

COLLEGE OF BUSINESS ADMINISTRATION
ACCOUNTING
UNDERGRADUATE COURSES
ACC 2001 ELEMENTARY ACCOUNTING I (3)
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 (3)

ACC 3101 INTERMEDIATE ACCOUNTING I (4)
PR: ACC 3101. Continuation of theory and principles underlying financial statements: current and long term liabilities, stockholders' equity, earnings-per-share, income taxes, pensions, leases, accounting changes, inflation, the statement of changes in financial position.

ACC 3401 COST ACCOUNTING AND CONTROL I (3)
PR: FIN 3403, GEB 3121. Deals with relevant costs for decision making, standards and job order costing, flexible budgeting, direct and absorption costing, regression analysis and decision models.

ACC 3730 ACCOUNTING INFORMATION SYSTEMS (3)
PR: ACC 4201 and COC 2201. Manual and computer-based accounting systems, including order processing, accounts receivable, inventory management, and responsibility accounting systems. Emphasis on internal control, efficiency, and provision of useful information.

ACC 4201 ADVANCED ACCOUNTING (4)
PR: ACC 3121. Accounting for business combinations, preparation of consolidated financial statements, home office and branch operations, accounting for international operations and partnership.

ACC 4501 FEDERAL TAXES I (3)
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 II (3)
PR: 4501. Continued study of the federal income tax structure. Special topics and the concept of taxable income as it applies primarily to business enterprises.

ACC 4601 AUDITING (3)
PR: ACC 3121 and GEB 3121. Principles and procedures of internal and public auditing. The ethics, responsibilities, standards, and reports of professional auditing.

ACC 4905 INDEPENDENT STUDY (1-3)
PR: CI. Specialized independent study determined by the students' needs and interests. May be repeated up to 6 credit hours. (S/U only.)

CLA 5910 INDIVIDUAL RESEARCH (1-4)
Specialized individual work in particular areas of student's interest.

CLA 5930 SELECTED TOPICS (1-4)
Course contents depend on student demand and instructor's interest and may range over the whole field of Ancient languages (including comparative studies), literatures, civilizations, and epigraphy.

NOTE: In any of the numbers CLA 4900, CLA 4930, CLA 5900, CLA 5910, CLA 5930, enrollment is repeatable for different subject matters.

GRADUATE COURSES
ACC 5313 FINANCIAL/MANAGERIAL ACCOUNTING (3)
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 5451 MANAGEMENT ACCOUNTING AND CONTROL (3)
PR: 20 semester hours of accounting or Cl. Measurement, interpretation, planning, and control or costs by means of predetermined standards and variance analysis. Use of accounting and statistical information in preparing budgets and controlling operations.

ACC 5631 CONTEMPORARY ISSUES IN AUDITING (3)
PR: ACC 4601. This course is designed to discuss and illustrate the professional pronouncements that govern the professional practice of Auditing practice and emerging issues related to the field of Auditing are considered.

ACC 5805 CONTEMPORARY ACCOUNTING THOUGHT (3)
PR: Intermediate Accounting II or equivalent. An in-depth coverage of selected topics in accounting. Emphasis is placed on current significant developments that have taken place in the profession which the student should have for a well-rounded background in accounting but have not been exposed to in previous courses. Available to majors and non-majors.

ACC 5866 NONPROFIT ORGANIZATION ACCOUNTING (3)

ACC 5935 SELECTED TOPICS IN ACCOUNTING (1-4)
PR: CI. To allow advanced undergraduate students and graduate students to research and study contemporary and emerging topics in the field. May be repeated up to 6 credit hours.

ACC 6412 MANAGEMENT ACCOUNTING AND CONTROL (3)
PR: 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 6511 FEDERAL TAX RESEARCH AND PLANNING
PR: ACC 4501 or Cl. A study of the development of tax law and its implication in business decisions. Tax planning and tax research are emphasized.

ACC 6745 SYSTEMS THEORY AND QUANTITATIVE APPLICATIONS
PR: ACC 3730 or equivalent. The design and operation of contemporary accounting systems including the relevance of data processing and statistical methods to the system of financial information and control.

ACC 6811 DEVELOPMENT OF ACCOUNTING THOUGHT
PR: 20 semester hours of accounting or Cl. 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
Independent Study in which student must have a contract with an instructor. Repeatable (S/U only).

ACC 6910 DIRECTED RESEARCH
PR: GR. Master's level. Repeatable. (S/U only.)

ACC 6930 SELECTED TOPICS IN ACCOUNTING
PR: CC. The course content will depend on student demand and instructor's interest. May be repeated up to 6 hours.

COMMON BODY OF KNOWLEDGE

GRADUATE COURSES

GEB 6705 FINANCIAL ACCOUNTING FOR MANAGERS
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
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
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
PR: GEB 6705 or its equivalent. The study of processes, the decision structures, and the institutional arrangements concerned with the utilization and acquisition of funds by a firm. The course will include the management of the asset structure and the liability structure of the firm both certain and risky situations, and considering the problems of time and the decision makers preferences. The financial decision processes will include and recognize the international as well as domestic aspects of financial management.

GEB 6735 SOCIAL, LEGAL, AND POLITICAL ENVIRONMENT OF BUSINESS
PR: 12 hours of MBA Foundation Courses. A study of the influence of social, cultural, legal, and political environment of institutional behavior, including the changing nature of the business system, the public policy process, corporate power, legitimacy and managerial autonomy, and organizational reactions to environmental forces.

GEB 6745 MARKETING MANAGEMENT
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 strategies and 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.

GEB 6756 STATISTICAL METHODS FOR MANAGEMENT
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 distribution, sampling and interval estimation, classical hypothesis testing, chi square tests, correlation, regression, and analysis of variance.

GEB 6757 QUANTITATIVE METHODS FOR OPERATIONS MANAGEMENT
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.

GEB 6775 INFORMATION SYSTEMS FOR MANAGEMENT
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.

GEB 6836 THE MANAGEMENT PROCESS
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.

GEB 6895 BUSINESS POLICY
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.

ECONOMICS

UNDERGRADUATE COURSES

ECO 2013 ECONOMIC PRINCIPLES (MACROECONOMICS)
PR: None.
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)
PR: None.
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 or price in different types of markets.

ECO 3101 INTERMEDIATE PRICE THEORY
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
PR: None.
ECON 3622 AMERICAN ECONOMIC HISTORY (3)
The growth and evolution of American economic institutions from Colonial times to the present.

ECON 3703 INTERNATIONAL ECONOMICS (3)

ECO 4213 MONETARY THEORY (3)
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 (3)
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 Neoclassical 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 (3)
PR: ECO 2013, ECO 2023, ECO 3101, or Cl. 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 (3)
PR: ECO 2013 and ECO 2023 or Cl. 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 (3)
PR: ECO 2013, ECO 2023 and GEB 3121, MAC 2243 or Cl. Economic processes expressed as equations and economic systems as mathematical models. Investigation of their static and dynamics properties by mathematical analysis and computer simulation.

ECO 4402 SELECTED TOPICS IN QUANTITATIVE ECONOMICS (3)
PR: GEB 3121, MAC 2243 or Cl. Analysis of relevant problems of social policy by application of economic criteria and econometric method. Survey of contemporary research.

ECO 4504 PUBLIC FINANCE (3)
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 (3)

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

ECO 4914 INDEPENDENT RESEARCH (1-3)
PR: Cl. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 10 hours.

ECO 4935 SELECTED TOPICS IN ECONOMICS (1-3)
PR: Senior standing and Cl. Topics to be selected by the instructor or instructors on pertinent economic issues.

ECP 1001 CONTEMPORARY ECONOMIC PROBLEMS (3)
An introduction to contemporary economic problems 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 (3)
PR: Cl. History of the trade union movement; economic analysis of trade union philosophies and practices; examination of basic influences affecting labor force, real wages and employment; collective bargaining and labor law.

ECP 3413 ECONOMICS OF TRANSPORTATION (3)
Functions of transporting agencies, rate structure of transportation companies, problems of state and federal regulations and coordination of transportation facilities.

ECP 3513 ECONOMICS OF THE URBAN ENVIRONMENT (3)
PR: Cl. Economic analysis of the phenomena of cities as well as urban social problems including poverty, discrimination, housing, transportation, pollution, crime and fiscal consideration.

ECP 4003 BUSINESS-GOVERNMENT RELATIONSHIPS (3)
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 (3)
PR: Labor Economics or Cl. 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 (3)
Analysis of the major types of economics 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 (3)
PR: ECO 3203 or Cl. 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 the equivalent. Sample data, probabilities, frequency functions, binominal and normal distributions, sampling theory, estimation, hypothesis testing and elements of Bayesian theory.

GEB 3121 BUSINESS AND ECONOMIC STATISTICS II (3)
PR: MAC 2242, College Algebra or equivalent and GEB 2111. Theory and use of statistical inference for decision and production. Point and interval estimation criteria for choosing estimators and decision rules; hypotheses test and prob values; analysis of variance; correlation and regression.

GRADUATE COURSES
ECP 5404 ECONOMIC PROGRAMMING AND CONTROL (3)

ECP 5513 ECONOMETRICS (3)
PR: ECO 3101, ECO 3203, GEB 3121, or Cl. 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 empirical research projects.

ECO 6115 MICROECONOMICS (3)
PR: GEB 6716 or equivalent. Intensive study of microeconomics examining the behavior of consumers and producers. Topics include the concept of scarcity and conceptual models in the areas of demand, production, cost, and market organization.

ECO 6206 AGGREGATE ECONOMICS (3)
PR: GEB 6717 or equivalent. Analysis of the macroeconomic interrelationships determining the level of income, employment, prices, and interest rates over short and long run periods of time. Impact of government policies upon these variables.

ECO 6216 MONETARY THEORY (3)
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 in the field on monetary theory.

ECO 6305 HISTORY OF ECONOMIC THOUGHT (3)
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)
PR: GEB 6756 or equivalent. Statistical tools for analysis, decision and prediction. Bayesian inference and decision revision; binomial and normal posterior probabilities. Covariance and correlation. Multiple regression. Nonparametric tests.

ECO 6436 ECONOMIC FORECASTING (3)
PR: GEB 6716 or equivalent. Time series and cross section data for managerial control forecasting. Index numbers. Time series components and leading economic indicators, diffusion indices and intentions surveys. Linear forecasts and econometric techniques.

ECO 6436 ECONOMIC FORECASTING (3)
PR: GEB 6717, GEB 6756, or CI. The structure of the aggregate economic system is examined in detail with particular emphasis on the economic variables that have lead-lag relationships.

ECO 6506 PUBLIC FINANCE I (3)
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 (3)
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 (3)
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 multi-national corporations.

ECO 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 (var.)
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 (3)
PR: ECO 2013 and ECO 2023, or equivalent. Extent, level, trends, and dimensions of economic concentration; competitive conduct of large enterprises; casual factors underlying changes in industrial structure; technology, managerial economics and diseconomies, invention and innovation, and mergers.

ECP 5404 INDUSTRIAL ORGANIZATION II—CONDUCT AND BEHAVIOR (3)
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 (3)
PR: ECO 2013, ECO 2023. The economics of urban areas including analysis of their growth and development as well as intraurban location patterns. Economic analysis at an advanced level of urban social problems.

ECP 6006 APPLIED ECONOMIC ANALYSIS (3)
PR: GEB 6716, GEB 6717 or equivalent. Theories of imperfect competition. Emphasis on decision theory and bargaining.

ECP 6206 MANPOWER ECONOMICS SEMINAR (3)
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 allows for further study of the causes and remedies for unemployment and under-employment.

ECP 6705 ADVANCED MANAGERIAL ECONOMICS (3)
PR: GEB 6716, GEB 6756 or equivalent. Advanced study of decision making under uncertainty in households, firms, and not-for-profit institutions.

FINANCE

UNDERGRADUATE COURSES

FIN 2100 PERSONAL FINANCE (3)
Survey of the problems and techniques of personal financial planning. Includes consumer credit, insurance, home ownership, and personal investing, with attention given to current economic and legal constraints. Not available for credit to upper level students who have been admitted to the College of Business Administration.

FIN 2104 INTRODUCTION TO INVESTMENTS (3)
Emphasizes the operations of the security markets in the U.S. and the risks and returns of alternative investment media. Designed for nonbusiness administration students. Not available for credit to upper level students who have been admitted to the College of Business Administration.

FIN 3233 MONEY AND BANKING (3)
PR: ECO 2013. Examines the structure and operations of our monetary system, commercial banking, central banking, money, and capital markets, and provides an introduction to monetary theory and policy.

FIN 3403 PRINCIPLES OF FINANCE (3)
PR: ACC 2201 and ECO 2023. Study of the processes, decisions structures, and institutional arrangements concerned with the use and acquisition of funds by a firm. Includes the management of the asset and liability structure of the firm under certain and risky situations. The financial decision process will include and recognize the international as well as domestic aspects of financial management.

FIN 3604 INTERNATIONAL FINANCE (3)
PR: ECO 2013 or CI. Study of factors affecting international business; assessment of risk; international managerial finance; institutions and instruments of international business finance.

FIN 4303 FINANCIAL INSTITUTIONS (3)
PR: FIN 3403. A study of financial institutions and their roles in the capital market includes the savings allocation, investment, and financial decision making process.

FIN 4414 ADVANCED CORPORATION FINANCE (3)
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. A senior seminar for majors in Finance. Primarily a case course examining financial policies and the application of financial analysis to alternative strategies.

FIN 4504 PRINCIPLES OF INVESTMENTS (3)
PR: ECO 2013 and FIN 3403. Survey of the risks and returns of investment media in relation to the investment objectives of individual and institutional investors. Includes an examination of the capital markets, information flows, and analytical techniques in terms of their impact upon the valuation process.

FIN 4524 ADVANCED INVESTMENT ANALYSIS AND MANAGEMENT (3)
PR: FIN 4504. A comprehensive survey of security analysis and portfolio management. The course will utilize a quantitative approach to investment selection and management.

FIN 4834 FEDERAL RESERVE SYSTEM AND MONETARY POLICY (3)
PR: ECO 3202 or FIN 3233. An analysis of the Federal Reserve System, with special emphasis on monetary theory and the formulation and administration of monetary policy.

FIN 4905 INDEPENDENT STUDY (1-3)
PR: CI. Specialized independent study determined by the students' needs and interests. May be repeated up to six credit hours. (S/U only.)

FIN 4915 INDEPENDENT RESEARCH (1-3)
PR: CI. Individual study contract with instructor and department chairperson. The research project will be mutually determined by the student and instructor. May be repeated up to 6 hours.

FIN 4934 SELECTED TOPICS IN FINANCE (1-3)
PR: CI. Topics to be selected by instructor and department chairperson on pertinent Finance issues.

REE 3040 PRINCIPLES OF REAL ESTATE (3)
Economics of urban land utilization and the nature of property rights. Problems of urban development and the valuation of real property in terms of the structure and operations of the real estate market.

REE 4100 REAL ESTATE APPRAISAL (3)
Comprehensive coverage of the basic concepts and principles of real estate appraisal. Emphasis placed on the use of valuation tools for the appraisal of real estate with emphasis on residential property.

REE 4204 REAL ESTATE FINANCE (3)
PR: REE 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 (3)
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 (3)
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 socio-economic environment.

RMI 4110 LIFE, HEALTH, AND DISABILITY INSURANCE (3)
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 (3)
PR: RMI 3010. Course dealing with recognition of personal and business casualty risks and coverages which may be used in dealing with these risks. Considers the underwriting, marketing, and social problems associated with these coverages. Topics include workmen's compensation, public liability, auto liability, suretyship and crime insurances. Not limited to Finance majors.

RMI 4210 PROPERTY INSURANCE (3)
PR: RMI 3010. Course dealing with recognition of personal and business property risks, and coverages which may be used in dealing with these risks. Considers the underwriting, marketing, and social problems associated with these coverages. Topics include commercial and residential fire insurance, inland marine and transportation coverages, and multiperil contracts. Not limited to Finance majors.

FIN 1246 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 (3)
PR: Financial/Managerial Accounting. An examination of tools and techniques of financial management in the administration of Health Care Organizations. Cannot be taken for credit by students who have taken GED 6725.

FIN 6446 FINANCIAL POLICY (3)
PR: 6725. 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 (3)
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 (3)
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 6985 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 (1-4)
PR: Graduate standing and CI. A variable credit course depending upon the scope and magnitude of the work required. Includes special lecture series.
GENERAL BUSINESS ADMINISTRATION

UNDERGRADUATE COURSES

BUL 2111 LAW AND THE INDIVIDUAL (3)
A study of the nature, functions, sources, formulation, and administration of law with a special emphasis on the practical aspects of criminal, tort, estate, divorce, property, business, constitutional, and other areas of law. Not available for credit to students who have been admitted to the College of Business. (No credit for students with credit in BUL 3112.)

BUL 3112 BUSINESS LAW I (3)
The nature of legal institutions, essentials of binding contract, remedies granted in event of breach of contract, and rights acquired by assignment of contracts.

BUL 3112 BUSINESS LAW II (3)
PR: BUL 3112. Legal problems in marketing of goods, nature of property, sales of personal property, securing of credit granted, nature and use of negotiable instruments.

BUL 3659 THE LAW OF BUSINESS ASSOCIATIONS (3)
PR: BUL 3112. A study of the law of corporations, the law of partnerships, and the law of agency.

COC 2201 COMPUTERS IN BUSINESS (3)
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. Course involves the use of computer statistical packages for business analysis.

GEB 3211 BUSINESS COMMUNICATIONS (3)
Analysis and application of the principles of organizational behavior in letters, memorandums, and reports. Course is structured around a model which manifests the effective communications process.

GEB 3612 INFORMATION SYSTEMS: ANALYSIS AND DESIGN (3)
PR: COC 2201. An advanced interdisciplinary examination of the impact of information systems on the business enterprise. Concepts of business systems analysis, information theory, transaction editing, file design, and update systems are developed.

GEB 4511 BUSINESS POLICY (3)
PR: Senior standing. The course is intended to provide a unifying, integrating, and coordinating opportunity to tie together concepts, principles, and skills learned separately in other, more specialized courses in Business Administration.

GEB 4901 INDEPENDENT STUDY (1-3)
PR: CI. Specialized independent study determined by the students' needs and interests. May be repeated up to eight credit hours. (S/U only.)

GEB 4911 INDEPENDENT RESEARCH (1-4)
PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 8 hours.

GEB 4935 SELECTED TOPICS IN BUSINESS ADMINISTRATION (1-4)
The content and organization of this course will vary according to the current interests of the faculty and needs of students.

GRADUATE COURSES

BUL 5665 LAW AND THE ACCOUNTANT (3)
PR: BUL 3112 or CI. A comprehensive study of commercial law as it affects the practice of accounting.

GEB 6905 INDEPENDENT STUDY (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

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

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

MAN 5806 ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT COUNSELING (1-3)
Small business management consulting in an on-going firm. Field application of various aspects of business administration in analyzing strengths and weaknesses, development of recommendations for improvement, and initiation of steps to assist business principals in evaluation and implementation. Emphasis on developing management consulting skills and recognizing implications of small business owner-manager's capabilities and attitudes for success in implementing recommendations.

MAN 5925 CBA WORKSHOP (1-4)
Professional application workshop in various areas of finance, marketing, economics, accounting, management. May be repeated when subjects differ.

MAN 6721 INTEGRATIVE SEMINAR (3)
PR: CC. The course is intended to provide a unifying, integrating, and coordinating opportunity to tie together concepts, principles, and skills learned separately in other, more specialized courses in Business Administration.

GENERAL BUSINESS ADMINISTRATION 191
experimentally apply behavioral science techniques in an "action-research" framework to the cycle of planned change—diagnosis, prescription, remedy—so as to build a more effective organization.

**MAN 4410 LABOR RELATIONS LAW** (3)
A survey of the various legal constraints applicable to labor-management relations. Includes practice in use of library resources for discovering statutes, cases, or administrative ruling. 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, and 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 organizational management and union, the role of each in collective bargaining, and traditional methods of resolving industrial conflict. Three hours of lab under supervision of instructor.

**MAN 4504 OPERATIONS MANAGEMENT: A SYSTEMS APPROACH** (3)
PR: MAN 3810 or equivalent. Deals with problems of "operations" in all kinds of enterprises in both the public and private sectors. Emphasis is placed on the application of various decision science methodologies to problem situations. These techniques include waiting line analysis, simulation, mathematical programming, network programming, statistics, and probability.

**MAN 4802 ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT** (3)
PR: ACC 2001, ACC 2021, MAR 3023, or Cl. Study of the factors involved in starting and managing a small to mediumsized business. Emphasis is placed 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** (3)
PR: MAN 4802 or Cl. Field application of various aspects of business administration in analyzing strengths and weaknesses of an on-going small business. Development of recommendations for improvements and initiation of steps to assist business principles 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** (1-3)
PR: Cl. Specialized independent study determined by the students needs and interests. May be repeated up to 8 credit hours. (S/U only)

**MAN 4930 SELECTED TOPICS IN MANAGEMENT** (1-3)
PR: Cl. Topics to be selected by instructor and department chairperson for pertinent Management issues.

**MAN 4931 INDEPENDENT RESEARCH** (1-4)
PR: Cl. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 8 hours.

**QMB 4600 QUANTITATIVE APPROACHES FOR BUSINESS DECISIONS** (3)
PR: MAN 3810. The use of systematic approaches and management science tools for decision making and problem solving in an organizational setting. Emphasis is on quantitative approaches for problem identification, problem analysis choice among alternatives, and on the implementation of quantitatively based solutions.

**QMB 4703 SIMULATION AND MODELING TECHNIQUES** (3)
PR: MAN 3810 or Cl. A study of manual and computer simulation techniques and their application to problem solving in management (behavioral and quantitative). Knowledge of a computer language and the basic tools and techniques of management science is advised.

**GRADUATE COURSES**

**MAN 5714 URBAN MANAGEMENT** (3)
The applicability of business management theories and practices to problem solving in the public sector. A formal theory of organization is used to compare and contrast private and public sector decision environments.

**MAN 6055 HUMAN RESOURCE MANAGEMENT** (3)
Course focuses on the complex decision-making processes involved in the management of human resources within an organizational system geared to meeting both individual needs and organizational objectives. New approaches, techniques, and trends with respect to the acquisition, development, rewarding, and maintenance of human resources will be researched, analyzed, and discussed.

**MAN 6061 ORGANIZATIONAL THEORY AND MEASUREMENT** (3)
PR: GEB 6836 or Cl. The identification and measurement of variables which influence the effectiveness of public and private organizations. Assessment data is used to study relationships between the organization and the external environment as well as internal processes such as decision making, managerial skills, and job design.

**MAN 6107 MANAGERIAL BEHAVIOR** (3)
PR: GEB 6836 or Cl. A laboratory approach to the understanding of patterns of interpersonal and inter-group behavior which are significant for the managerial role. Topics include perception, motivation, defenses, conformity, deviation, status anxiety, behavior control, self development, leadership styles, efficient utilization of time, and a critical analysis of current procedures used for manager development.

**MAN 6135 MANAGEMENT OF COMMUNICATIONS** (3)
Communication as management is the focus of this course. Examined are the process, nature, and variables which comprise organizational communications. Studied are intra- and interpersonal communication, small group and leadership communication, and communication in formal organizations. These topics are covered through lecture, discussion, and research.

**MAN 6157 MANAGEMENT OF PROFESSIONALS** (3)
PR: GEB 6836 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 6219 THE MANAGEMENT OF ORGANIZATIONAL DEVELOPMENT AND CHANGE** (3)
PR: GEB 6836 or Cl. This course should be taken simultaneously with or following MAN 6061. A combination laboratory-field course requiring the integration of behavioral science theories, tools, concepts, and techniques learned in the lab to an OD application in a "real" organization.

**MAN 6405 LABOR RELATIONS LAW** (3)
A survey of the various legal constraints applicable to the employer-employee relationship. Included are such areas as collective bargaining, civil rights, and fair labor standards. Also offered under Economics.

**MAN 6407 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 of conflict resolution. Particular attention is given to conflict and its resolution as perceived through the collective bargaining process.

**MAN 6569 QUANTITATIVE APPLICATIONS FOR MANAGEMENT DECISIONS** (3)
PR: GEB 6756 and GEB 6757. The integration of quantitative approaches and management science tools into the decision making process at various organizational levels and in various organizational settings involved in the production and dissemi-
nation of goods and services. A case approach is used. The influence of the organizational level and setting on the choice of analytical techniques and the reporting of decision information is emphasized.

**MAN 6001 INTERNATIONAL MANAGEMENT (3)**
PR: GEB 6836 or CI. A study of 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.

**MAN 6851 SIMULATION OF ADMINISTRATIVE SYSTEMS (3)**
PR: GEB 6757. A study of manual and computer simulation techniques and their application to administrative problem solving. The course emphasizes: model design and construction; data collection and analysis; model validation and implementation problems. A computer language, such as GPSS or SIMSCRIPT, is used for model construction in conjunction with decision science project.

**MAN 6905 INDEPENDENT STUDY (var.)**
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

**MAN 6911 DIRECTED RESEARCH (var.)**
PR: Graduate, Master's level. Repeatable. (S/U only.)

**MAN 6930 SELECTED TOPICS (1-4)**
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 repeated for credit providing topic selected is different.

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

**MARKETING**

**UNDERGRADUATE COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
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<tbody>
<tr>
<td>MAR 3023</td>
<td>BASIC MARKETING</td>
<td>(3)</td>
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<tr>
<td>MAR 3613</td>
<td>MARKETING RESEARCH</td>
<td>(3)</td>
</tr>
<tr>
<td>MAR 3722</td>
<td>MARKETING MANAGEMENT</td>
<td>(3)</td>
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<tr>
<td>MAR 4153</td>
<td>RETAILING MANAGEMENT</td>
<td>(3)</td>
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<tr>
<td>MAR 4203</td>
<td>CHANNELS MANAGEMENT</td>
<td>(3)</td>
</tr>
<tr>
<td>MAR 4213</td>
<td>LOGISTICS AND PHYSICAL DISTRIBUTION MANAGEMENT</td>
<td>(3)</td>
</tr>
<tr>
<td>MAR 4453</td>
<td>INDUSTRIAL MARKETING</td>
<td>(3)</td>
</tr>
<tr>
<td>MAR 4713</td>
<td>MARKETING MANAGEMENT PROBLEMS</td>
<td>(3)</td>
</tr>
<tr>
<td>MAR 4903</td>
<td>INDEPENDENT RESEARCH</td>
<td>(1-3)</td>
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<tr>
<td>MAR 6216</td>
<td>LOGISTICS AND PHYSICAL DISTRIBUTION MANAGEMENT</td>
<td>(3)</td>
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**PR:** As required by the instructor. Repeatable up to 6 credit hours.
MAR 6257  INTERNATIONAL MARKETING
MANAGEMENT  (3)
PR: GEB 6745. A study of marketing management activities from the perspective of firms doing business across national boundaries. Emphasis is upon aspects of marketing which are unique to international business, and upon problem-solving within an international context.

MAR 6346  PROMOTIONAL MANAGEMENT  (3)
PR: GEB 6745. Management of the promotional function as part of the total marketing program. Includes a study of relevant buyer behavior concepts, resources and budgets, media, creative aspects, and effectiveness measurements as they relate to the management tasks of developing, implementing and evaluating promotional strategy.

MAR 6406  SALES MANAGEMENT  (3)
PR: GEB 6745. A study of the sales function of the firm approached from the perspective of the sales manager. Emphasis is placed upon the development of the student's problem-solving, decision-making, and analytical skills.

MAR 6616  RESEARCH FOR MARKETING MANAGERS  (3)
PR: GEB 6745, GEB 6756, GEB 6775. A study of marketing research methods and information systems and their relationship to marketing decision making. Topics include value and cost of information, sample design, questionnaire design, statistical analysis, and report presentation. Lecture, readings, case analysis, project.

MAR 6706  MARKETING STRATEGY  (3)
PR: GEB 6745. A study of the strategic marketing planning and problem-solving process as practiced by the modern market-oriented firm. The course is designed to develop marketing problem-solving, decision-making, and planning skills through the extensive use of case analysis.

MAR 6907  INDEPENDENT STUDY  (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

MAR 6916  DIRECTED RESEARCH  (var.)
PR: GR. Master's level. Repeatable. (S/U only.)

MAR 6936  SELECTED TOPICS IN MARKETING  (1-4)
PR: CC. The content and organization of this course will vary according to the interests of the faculty and students involved in any given term. May be repeated when subjects differ.

COLLEGE OF EDUCATION

ADMINISTRATION/SUPERVISION

GRADUATE COURSES

EDA 6061  PRINCIPLES OF EDUCATIONAL ADMINISTRATION  (3)
Educational administration as a profession. Consideration is given to organization, control, and support of the educational system.

EDA 6016  ADMINISTRATIVE ANALYSIS AND CHANGE  (3)
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  (3)
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 ALLOCATION  (3)
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  (3)
PR: CI. Concepts and practices in allocation and accountability of financial resources in the schools. The use of systems concepts in school budgeting, including prioritizing of alternatives, PPBS and zero-based budget techniques, school-based management allocation models. Also available in workshop version. Available to majors and non-majors.

EDA 6262  PLANNING EDUCATIONAL FACILITIES  (3)
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  (var.)
PR: GR. Master's level. Repeatable. (S/U only.)

EDA 6931  CASE STUDIES IN SCHOOL ADMINISTRATION  (3)
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  (3-8)
PR: Completion of a significant amount of the student's program. Field experiences in school systems for the purpose of identifying and analyzing educational problems. Application of concepts developed in the student's program to the solution of these problems.

EDA 7222  ADMINISTRATION OF SCHOOL PERSONNEL POLICIES AND PRACTICES  (3)
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  (3)
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  (3)
PR: EDA 6242 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.

EDS 6050  PRINCIPLES OF EDUCATIONAL SUPERVISION  (3)
PR: Courses in general curriculum. Instructional leadership with emphasis on organization for curriculum improvement and inservice growth for professional school personnel.

EDS 6239  PROBLEMS IN SUPERVISION: SECONDARY  (3)
PR: Consent of the program and/or EDS 6050. 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.

EDS 7130  TEACHER EVALUATION: PROCESS AND INSTRUMENTS  (3)
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 (3)
Methods, techniques, and materials for instruction.

ADE 4361 SPECIAL TEACHING METHODS: ADULT EDUCATION (3)
Methods, techniques, and materials for skill development.

ADE 4945 SUPERVISED FIELD EXPERIENCE: ADULT EDUCATION (1-6)
PR: CI. Planned supervised functions in the area of specialization and coordinated with selected schools, government, offices, social agencies, businesses and industries on site.

GRADUATE COURSES

ADE 5160 PROGRAM MANAGEMENT: ADULT EDUCATION (3)
Organization, coordination, and budgeting of adult, cooperative, and special programs.

ADE 5181 CURRICULUM CONSTRUCTION: ADULT EDUCATION (3)
Curriculum scope, the process of planning and organizing instructional programs with emphasis on task analysis and process evaluation.

ADE 5385 THE ADULT LEARNER (3)
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 (3)
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 (3)
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 (3)
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 (3)
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 (3-6)
A problem-centered field study in the local community, school, government, office, social agency, business or industry.

ADE 7185 COMMUNITY EDUCATION AND PROGRAM DEVELOPMENT (3)
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 (3)
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 (3)
PR: Admission to College of Education. Designed to help the individual student discover and develop meanings and values in art and education with emphasis on communicative skills, both verbal and visual. Focus will be on the individual and potential alternatives in the teaching of art.

ARE 3354 ART TEACHING STRATEGY AND MEDIA WORKSHOP I (3)
PR: Admission to College of Education and ARE 3044. A combination of theory, philosophy and practice in both public and private learning centers to provide the student with a variety of teaching concepts and media exploration in art education and to further enable the student to understand stages of young people, three to eighteen.

ARE 4112 ART MEDIA FOR CHILDREN (3)
An in-depth study of arts and craft media for children. Emphasis will be placed on innovative use of new materials.

ARE 4260 SEMINAR IN ART EDUCATION ADMINISTRATION (1)
PR: Admission to College of Education and ARE 3044. The concepts and areas of skill essential to successful practice in art education management. To include understanding of how art programs are funded, art facility planning, art curriculum development, art exhibition techniques, public relations promotion and supply and equipment requirements.

ARE 4411 EXPERIMENTAL FILMMAKING FOR CHILDREN (3)
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 (3)
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 (3)
PR: Admission to College of Education and ARE 3044. The study of processes and media involved in the expression of individual ideas through crafts. Emphasis placed on crafts in a contemporary society with skills in metals, weaving, fibers, and ceramics and their application in a public school curriculum.

ARE 4442 URBAN ENVIRONMENT ARTS WORKSHOP (3)
PR: Admission to College of Education and ARE 3044. Identification, exploration, and experimentation with unique urban spaces and populations as potential new environments for teaching and learning in arts.

ARE 4905 INDEPENDENT STUDY: ART EDUCATION (1-4)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

ARE 4909 DIRECTED STUDY: ART EDUCATION (1-3)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

ARE 4936 SENIOR SEMINAR IN ART EDUCATION (2)
ARE 4940 INTERNSHIP: ART EDUCATION (1-12) One full semester of internship in a public or private school. Involves participation in Junior Seminar in Education concurrently. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 semester hours. (S/U only.)

EDG 4451 EDUCATION THROUGH DRAMA (3) A study of the dramatic process as intrinsic in human development, this course is designed to enrich the education of pre-service teachers by providing training in the use of creative drama and related forms of improvised drama in the classroom.

EDG 4452 THEATRE FOR PRE-SECONDARY SCHOOLS: THE PRODUCTION PROCESS (3) 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 semester. 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 semester 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 (3) PR: Completion of EDG 4452 in the semester 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 studied. May be repeated for elective two times; once for major credit.

EDG 4454 METHODS OF TEACHING THEATRE FOR ADOLESCENTS (3) Methods of effective drama and theatre instruction in middle-school, junior 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.

GRADUATE COURSES

ARE 6262 ADMINISTRATION AND SUPERVISION OF ART EDUCATION (3) Principles of administration and supervision of art programs in the school.

ARE 6704 RESEARCH SEMINAR IN ART PROGRAM (3) PR: ARE 6844 or CI. Literature and research in art education. Various approaches to problem solving and evaluation with emphasis on individual research.

ARE 6844 HISTORICAL AND PHILOSOPHICAL FOUNDATION OF ART EDUCATION (3) Past and contemporary philosophies and practices in art education.

ARE 6944 FIELD WORK IN ART EDUCATION (1-4) For students with degree-seeking status. Supervised participation in activities related to art education in community centers, nonschool arts program, planned workshop and research.

EDG 6455 EDUCATION THROUGH ADVANCED DRAMA (3) Theories and methods of teaching creative drama and related forms of improvised drama and playmaking with supervised teaching of creative dramatics in a school environment.

BUSINESS AND OFFICE EDUCATION

UNDERGRADUATE COURSES

BTE 2060 BASIC TYPETWRIING (3) Basic keyboard applications; study of the psychological principles appropriate to teaching basic typewriting; review of methodology for teaching psycho-motor skills. Basic keyboarding is introduced during the first two weeks for those students who have no previous typing instruction. Majors who have completed a basic typewriting course at other institutions may exempt this course only if they can demonstrate teaching competency in the principles employed in this course.

BET 3031 OFFICE INFORMATION PROCESSING I (3) PR: BTE 2060 or equivalent competencies. Application of concepts and technology of information processing to office operations. Review of the grammar, punctuation, and transcription skills needed for editing in word processing operations. Available to majors and non-majors.

BTE 3832 OFFICE INFORMATION PROCESSING II (3) PR: BTE 3031. Programming word and information processing equipment; special applications of word and information processing functions to solve field-based problems. Available to majors; or others only with CI.

BTE 3861 TYPETWRIING APPLICATIONS (3) PR: BTE 2060 or equivalent competencies. Advanced keyboard applications; study of the methods and psychological principles appropriate to the teaching of advanced typewriting courses.

BTE 3363 BUSINESS AND OFFICE MACHINES (3) PR: Basic Typewriting. Instruction and practice on selected business and office machines to acquaint students with capabilities and limitations of the machines.

BTE 3365 ADMINISTRATIVE OFFICE MANAGEMENT (3) Functions of the business office to include systems and procedures, communications, records management, office employee behavior, controlling the work of the office, and principles of office organization. Also includes the methodology necessary for teaching these areas in either separate courses or integrated block programs.

BTE 4060 PRINCIPLES OF SHORTHAND (3) PR: Completion of upper level competency test or CI. Relation of techniques for teaching basic principles of response and temporal contiguity as related to basic shorthand theory. Includes concurrent lab.

BTE 4064 INTERMEDIATE SHORTHAND (3) PR: BTE 4060 or equivalent competency to include teaching strategies for theory sequencing. Advanced course in theoretical applications with emphasis on teaching techniques for development of speed, kinesthetic chained response, and specialized pretranscription techniques. Includes concurrent lab.

BTE 4151 SHORTHAND DICTATION & TRANSCRIPTION (3) PR: BTE 4064 or equivalent competency levels. Comparative symbol shorthand systems and teaching methodology in developing advanced dictation and transcription skills within a selected symbol system. Emphasis on teaching shorthand as a language tool, development of decision making skills, and factors which affect production rate. Includes concurrent lab.

BTE 4360 METHODS OF TEACHING: BUSINESS EDUCATION (3) PR: Introduction to Computers I or equivalent. Satisfactory competencies in Office Administration Concentration, or CI. Methods, techniques and materials for instruction.

BTE 4364 SPECIAL TEACHING METHODS: BUSINESS EDUCATION (4) PR: Speech Improvement and Phonetics, satisfactory competencies in Office Technology Concentration, or CI. Methods, techniques, and materials for skill development.

BTE 4369 OFFICE OCCUPATIONS PROCEDURES (3) 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 (1-4) PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

BTE 4990 DIRECTED STUDY: BUSINESS EDUCATION (1-3) PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

The text contains various courses and descriptions of programs offered in art education and business education. The courses vary from introductory to advanced levels, covering areas such as drama education, teaching methods, and office management.
BTE 4936 SENIOR SEMINAR IN BUSINESS AND OFFICE EDUCATION (2)

BTE 4940 INTERNSHIP: BUSINESS EDUCATION (1-12)
One full semester of internship in a public or private school. Intern takes Senior Seminar in Business Education concurrently. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 semester hours. (S/U only.)

BTE 4948 FIELD-BASED SEMINAR IN BUSINESS EDUCATION (2)
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 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 (3)
Curriculum scope, the process of planning and organizing instructional programs with emphasis in task analysis and process evaluation.

BET 5245 PROGRAM MANAGEMENT: BUSINESS EDUCATION (3)
Organization, coordination, and budgeting of adult, cooperative, and special programs.

BTE 6385 IMPROVEMENT OF METHODS OF TYPEWRITING INSTRUCTION (3)
PR: EDF 6431 and EDF 6481 or Cl. 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 school, 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 (3)
PR: Methods of Teaching or equivalent, EDF 6481 or Cl. This course contains a research-based study of theory and methodology in teaching basic business and accounting subjects. The course is available for majors and non-majors and for credit and non-credit workshops and seminars.

BTE 6387 RESEARCH COMPLICATIONS FOR SHORTHAND PEDAGOGY (3)
PR: Special Teaching Methods, EDF 6481 or Cl. 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 6388 PRACTICUM: BUSINESS EDUCATION (3-6)
A problem-centered field study in the local community, school, government, office, social agency, business or industry.

SPEECH COMMUNICATION EDUCATION
GRADUATE COURSES
EDG 7365 RESEARCH IN COMMUNICATION EDUCATION (3)
PR: Master's Degree in Communication Education Area or Cl. A survey of exemplary research studies in Communication/Speech Education, English Education, Language Development and Analysis, Mass Communication Education, and Theatre Education, including analysis of design and methodologies.

SED 6070 SEMINAR IN THE HISTORY OF SPEECH COMMUNICATION IN EDUCATION (3)
PR: Cl. Studies in selected courses, critical writings, and research which have contributed to the development of speech communication as an academic discipline.

SED 6570 CURRENT TRENDS IN TEACHING SPEECH COMMUNICATION (3)
PR: Cl. Curricular patterns; preparation of personnel; instructional materials, facilities and practices used in teaching speech communication.

COUNSELOR EDUCATION
UNDERGRADUATE COURSES
EGC 4001 INTRODUCTION TO GUIDANCE PROCESSES (3)
PR: Upper level standing. An introduction to the role and function of guidance, school psychology, social work and other pupil personnel services. Opportunities for increasing self awareness.

EGC 4053 INTRODUCTION TO STUDENT PERSONNEL WORK IN HIGHER EDUCATION (2)
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 (1-4)
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 (3)
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 5101 HUMAN RELATIONS SKILLS IN GUIDANCE (3)
An introduction to the understanding of human relations dynamics and development of skills required for effective interpersonal relations. The course is part of the professional preparation of counselors. Lecture sessions will present relevant concepts and techniques of interpersonal relations. Laboratory meetings will concentrate on skill building exercises based on the student's increased self-awareness and personal development.

EGC 6005 PRINCIPLES OF GUIDANCE (3)
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 6105 COMPARATIVE GUIDANCE AND COUNSELING (3)
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 6225 APPRAISAL PROCEDURES IN GUIDANCE (4)
PR: EDF 6431, EGC 6005. A study of test and non-test techniques of appraisal with emphasis on the use of standardized test data in guidance programs and the use of the individual case study approach.

EGC 6305 THE INFORMATION SERVICE IN GUIDANCE (3)
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 (4)
PR: EDF 6354 and EGC 6005. Nature of the counseling process with emphasis on major theoretical approaches, supervised practice, and application. Focuses upon working with adolescents and adults; includes attention to (a) philosophic bases of helping relationships and (b) consultation theory and practice.

EGC 6464 THE COUNSELING SERVICE IN GUIDANCE AND ELEMENTARY SCHOOLS (4)
PR: EDF 6354 and EGC 6005. Nature of the counseling process with emphasis on major theoretical approaches, supervised practice, and application. Focuses upon working with elementary age children, and consultations with parents and teachers.

EGC 6509 GROUP THEORY AND PRACTICUM: ELEMENTARY SCHOOL (3)
PR: EDF 6354, EGC 6005, EGC 6464. Experimental study of group structure, group dynamics, stages of group development, methodology, and leadership models applicable to counseling and guidance at the elementary school level. Skill building experiences in class and through supervised practicum in leading a group of elementary school children.

EGC 6510 GROUP THEORY AND PRACTICUM: ADOLESCENTS AND ADULTS (3)
PR: EDF 6354, EGC 6005, EGC 6435. Experiential study of group structure, group dynamics, stages of group development, methodology, and leadership models applicable to counseling adolescent and adults in various settings. Skill building experiences in class and through supervised practicum in leading a group of adolescents or adults.

EGC 6625 ORGANIZATION AND ADMINISTRATION OF GUIDANCE SERVICES IN ELEMENTARY SCHOOLS (2)
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 (4)
PR: All EGC courses except EGC 6509 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 (4)
PR: All EGC courses except EGC 6510 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 integration 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 6905 INDIVIDUAL STUDY (1-4)
PR: CI. Independent study, research and experiences relating to guidance and pupil personnel services under the supervision of a member of the Guidance Program faculty. (May be repeated for maximum total of four hours.)

EGC 6935 SEMINAR IN GUIDANCE (1-2)
PR: or CR: EGC 6005, CI. Significant issues in the field of guidance; topics for discussion will vary according to needs and interests of students. May be repeated for credit for a maximum of four hours. (S/U only.)

EGC 7437 ADVANCED COUNSELING: THEORIES AND PRACTICUM (5)
PR: CC. Advanced study of major counseling theories and their application in therapeutic work with individual clients and with groups in a variety of settings. Supervised practice in individual and group counseling with emphasis on integration of theory and practice.

EGC 7446 CONSULTATION AND SUPERVISION: THEORIES AND PRACTICUM (5)
PR: CC. Theory and methodology of consultation; the role of the counseling professional as consultant and as supervisor of counselor trainees and counseling practitioners. Practice learning experiences in consulting and supervision under faculty direction.

EGC 7935 ADVANCED SEMINAR IN COUNSELOR EDUCATION (2)
PR: CI. Seminar for advanced graduate students in counselor education. Issues and trends in Guidance and Counseling will be studied and discussed. May be repeated for two additional credit hours. (S/U only.)

CURRICULUM

UNDERGRADUATE COURSES

EDG 1300 INTRODUCTION TO TEACHING (3)
PR: Freshman only or CI. The people with whom teachers work, the types of tasks they perform and the challenges they can anticipate. Observation of teaching at several grade levels (S/U only.)

EDG 4200 CURRICULUM AND INSTRUCTION (3)
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 (1-3)
May be repeated for a total of 3 semester hours.

EDG 4905 INDEPENDENT STUDY (1-4)
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 (1-3)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

EDG 4910 INDIVIDUAL RESEARCH (1-3)
PR: Senior standing and consent of program coordinator.

EDG 4936 SENIOR SEMINAR IN EDUCATION (2)
PR: Senior standing. Synthesis of teacher candidate’s courses in complete college program. Required concurrently with internship.

EDG 4940 INTERNSHIP (1-12)
One full semester of internship in a public or private school. Intern takes Senior Seminar in Education concurrently. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 semester hours. (S/U only.)

GRADUATE COURSES

EDE 5391 CREATIVE PROBLEM SOLVING FOR THE CHILD (3)
Exploration of the concept of creativity, its factors, measurement, and application to education. Opportunities are given to work with children in a laboratory setting and to prepare materials to be used with small groups of children.

EDE 6205 SCHOOL CURRICULUM: ELEMENTARY (3)
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 (3)
Curriculum scope, sequence and interrelationships, with a critical evaluation of current trends.

EDG 5925 EDUCATION WORKSHOP (1-4)
Workshop for the improvement of the curriculum of an elementary or secondary school. Open only to teachers in service. Complete faculty participation required.
EDG 6251 SCHOOL CURRICULUM IMPROVEMENT (3) Workshop for the improvement of the curriculum of an elementary or secondary school. Open only to teachers in service. Complete faculty participation required.

EDG 6667 ANALYSIS OF CURRICULUM AND INSTRUCTION (3) 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 (1-4) PR: Graduate standing and CI. Each topic is a course under the supervision of a faculty member. The title and content will vary according to the topic.

EDG 6947 INTERNSHIP (1-9) PR: CI. Open to graduate degree candidates only. Supervised teaching at the secondary or junior college level as appropriate. (S/U only.)

EDG 6971 THESIS: MASTERS/EDUCATION SPECIALIST (var.) For students in M.A. and Ed.S. programs requiring a thesis. This project is a culminating, integrating experience which aims at relating theory to practice. Repeatable. (S/U only.)

EDG 7025 THE ANALYSIS OF TEACHING (3) 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 (3) 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 (1-4) PR: CC. Selected topics in advanced Education. May be repeated for credit to a maximum of 12 hours.

EDG 7937 GRADUATE SEMINAR (1-4) PR: CC. Seminar in advanced Education. May be repeated for credit to a maximum of 12 hours.

EDG 7980 DISSERTATION: DOCTORAL (var.) PR: Must be admitted to Doctoral Candidacy. Repeatable. (S/U only.)

EDM 6235 SCHOOL CURRICULUM: MIDDLE (3) 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 (3) 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 (3) Individually planned course in a secondary school subject area for in-service teachers.

LAE 5131 CURRICULUM PLANNING AND DEVELOPMENT IN SECONDARY ENGLISH (3) PR: Certification in English or Mass Communications. Examination of new curricular policies and procedures relating to the teaching of English in the secondary school.

LAE 5137 CURRICULUM EVALUATION IN SECONDARY ENGLISH (3) PR: Certification in English or Mass Communications. Examination of new evaluation policies and procedures relating to curricula in English in the secondary school.

DISTRIBUTIVE AND MARKETING EDUCATION

UNDERGRADUATE COURSES

DEC 4174 ORGANIZATION AND COORDINATION OF COOPERATIVE PROGRAMS (3) A study of the purposes and processes used to organize, plan, direct, control, and evaluate cooperative programs.

DEC 4362 SPECIAL TEACHING METHODS: DISTRIBUTIVE EDUCATION (4) Methods, techniques, and materials for skill development.

DEC 4382 METHODS OF TEACHING: DISTRIBUTIVE EDUCATION (3) Methods, techniques, and materials for instruction.

DEC 4905 INDEPENDENT STUDY: DISTRIBUTIVE AND MARKETING EDUCATION PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

DEC 4909 DIRECTED STUDY: DISTRIBUTIVE AND MARKETING EDUCATION (1-3) PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

DEC 4936 SENIOR SEMINAR IN DISTRIBUTIVE AND MARKETING EDUCATION (2) PR: Senior standing. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

DEC 4940 INTERNSHIP: DISTRIBUTIVE AND MARKETING EDUCATION (1-12) One full semester of internship in a public or private school. Intern takes Senior Seminar in Distributive and Marketing Education concurrently. In special programs where the intern experience is distributed over two or more semesters students will be registered for credit which accumulates from 9 to 12 semester hours. (S/U only.)

DEC 4941 SUPERVISED FIELD EXPERIENCE: DISTRIBUTIVE EDUCATION (1-6) PR: CI. Planned supervised functions in the area of specialization and coordinated with selected schools, government offices, social agencies, businesses and industries on site.

GRADUATE COURSES

DEC 5175 PROGRAM MANAGEMENT: DISTRIBUTIVE EDUCATION (3) Organization, coordination, and budgeting of adult, cooperative, and special programs.

DEC 5185 CURRICULUM CONSTRUCTION: DISTRIBUTIVE EDUCATION (3) Curriculum scope, the process of planning and organizing instructional programs with emphasis on task analysis and process evaluation.

DEC 6945 PRACTICUM: DISTRIBUTIVE EDUCATION (3-6) A problem-centered field study in the local community, school, government, office, social agency, business, or industry.

ELEMENTARY EDUCATION

UNDERGRADUATE COURSES

ARE 4313 ART FOR THE CHILD (3) PR: Admission to College of Education. Art and the intellectual, creative, emotional, and aesthetic growth of children.
EDE 4301 ELEMENTARY TEACHING METHODS (3)
PR: EDE 4941 and EDG 4200—Elementary. CR: First semester of EDE 4942. Techniques and strategies appropriate to instruction of children in educational settings.

EDE 4905 INDEPENDENT STUDY: ELEMENTARY EDUCATION (1-4)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

EDE 4909 DIRECTED STUDY: ELEMENTARY EDUCATION (1-3)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

EDE 4936 SENIOR SEMINAR IN ELEMENTARY EDUCATION (2)

EDE 4940 INTERNSHIP: ELEMENTARY EDUCATION (10)
PR: Successful completion of two semesters of EDE 4942. Teacher candidate is required to demonstrate professional competencies during one semester of full-day internship in a public or private elementary school. Concurrent enrollment in EDE 4936. (S/U only.)

EDE 4941 CHILDHOOD EDUCATION INTERNSHIP LEVEL I (4)
PR: Application for admission to the Elementary or Early Childhood programs. Students spend six hours per week in a supervised in-school experience and attend weekly seminar. Concurrent enrollment in EDG 4200—Elementary section. (S/U only.)

EDE 4942 CHILDHOOD EDUCATION INTERNSHIP LEVEL II (4)
PR: Satisfactory completion of EDE 4941. Students spend six hours per week in a supervised internship experience in classroom settings and attend a weekly seminar. Students must enroll in EDE 4942 for two semesters for a total of 8 semester hours. (S/U only.)

EDE 4943 CHILDHOOD EDUCATION SUPPLEMENTARY INTERNSHIP (2)
PR: Satisfactory completion of EDE 4941. Student completes 30 hours of scheduled in-school experience, in Semester IIIa only, to meet certification requirements for the preschool internship. Concurrent attendance at weekly seminar required. Semester IIIa only. (S/U only.)

EEC 2003 INTRODUCTION TO EARLY CHILDHOOD EDUCATION (3)
An overview of early childhood education with emphasis on its historical development, current theories, and practices.

EEC 2403 PROGRAMS IN EARLY CHILDHOOD EDUCATION (4)
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.

EEC 4706 LANGUAGE AND LEARNING IN EARLY CHILDHOOD (3)
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.

EEC 4905 INDEPENDENT STUDY: ELEMENTARY-EARLY CHILDHOOD EDUCATION (1-4)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

EEC 4909 DIRECTED STUDY: ELEMENTARY-EARLY CHILDHOOD EDUCATION (1-3)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

EEC 4936 SENIOR SEMINAR IN ELEMENTARY-EARLY CHILDHOOD EDUCATION (2)

EEC 4940 INTERNSHIP: ELEMENTARY/ELEMENTARY EARLY CHILDHOOD (10)
PR: Successful completion of two semesters of EDE 4942. Teacher candidate is required to demonstrate professional competencies during one semester of full-day internship in a public or private elementary school. Concurrent enrollment in EEC 4936. (S/U only.)

HLP 4460 HEALTH AND PHYSICAL EDUCATION FOR THE CHILD (3)
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 (3)
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 (3)
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 (3)
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 (2)
PR: MAE 4310. Methods for teaching informal geometry, measurement, and probability and statistics.

MAE 4545 DIAGNOSIS AND TREATMENT OF LEARNING DISABILITIES IN SCHOOL MATHEMATICS (3)
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 4315 MUSIC FOR THE CHILD (3)
PR: Admission to the College of Education. Basic music skills and understandings for elementary classroom majors: survey of current music literature, teaching techniques and singing, rhythmic, creative, instrumental and listening experiences appropriate for elementary children.

RED 4310 READING FOR THE CHILD (3)
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 (3)
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 (3)
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 5541 INDIVIDUALIZED INSTRUCTION IN THE ELEMENTARY SCHOOL
PR: Senior or Graduate standing in the College of Education or CI. A study of selected methods and materials available for the implementation of individualized instruction in grades K-6.

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 (1-3)
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 INTELLECTUAL GROWTH IN CHILDHOOD
Intellectual development of the normal child with particular emphasis on the studies of Jean Piaget and how they relate to curriculum for children, ages 0-8. 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.

ECC 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.

EED 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 6301 LANGUAGE LEARNING IN CHILDHOOD
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
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 TREND IN LANGUAGE ARTS
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.
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**  
PR: Cl. 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**  
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

**EED 4936 SENIOR SEMINAR IN EMOTIONAL DISTURBANCE**  

**EED 4940 INTERNSHIP: EMOTIONAL DISTURBANCE**  
One full semester of internship in a public or a private school. Intern takes Senior Seminar in Education concurrently. In special programs where the internship experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 semester hours. (S/U only.)

**EED 4941 UNDERGRADUATE SUPERVISED PRACTICUM IN BEHAVIOR DISORDERS**  
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 9 hours.

**GRADUATE COURSES**

**EED 6201 EDUCATIONAL IMPLICATIONS OF PATHOLOGICALLY DISTURBED CHILDREN AND YOUTH**  
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 EDUCATION PROGRAMMING FOR EMOTIONALLY DISTURBED CHILDREN (3)**  
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 (3)**  
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 (3)**  
PR: EDF 5136, EED 6201, EED 6221, or Cl. 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 (3)**  
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 9 semester hours.

**ENGLISH EDUCATION**

**UNDERGRADUATE COURSES**

**LAE 4335 METHODS OF TEACHING ENGLISH—LITERATURE AND READING (3)**  
CR: EDF 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 Cl. 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 (3)**  
PR: Acceptance into College of Education. CR: EDF 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 (1-4)**  
PR: Cl. 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 (1-3)**  
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

**LAE 4936 SENIOR SEMINAR IN ENGLISH EDUCATION (2)**  

**LAE 4940 INTERNSHIP: ENGLISH EDUCATION (1-12)**  
One full semester of internship in a public or private school. Intern takes Senior Seminar in Education concurrently. In special programs where the internship experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 semester hours. (S/U only.)

**GRADUATE COURSES**

**LAE 5932 SELECTED TOPICS IN THE TEACHING OF ENGLISH (3)**  
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 (3)**  
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 (3)**  
Curricular patterns and instructional practices in secondary English.

**LAE 6644 CURRENT TEACHING OF THE ENGLISH LANGUAGE (3)**  
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 (3)**  
Characteristics and needs of Specific Learning Disabilities.
Emotional Disturbance and Socially Maladjusted, Gifted, Hearing Impaired, Mentally Retarded, Physically Handicapped, Speech Impaired, and Visually Limited.

EEX 4070 EXCEPTIONAL STUDENTS AND THEIR EDUCATION (3)
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 (3)
PR: EDF 3214, EEX 2010, 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 (1-4)
PR: Cl. 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 (1-3)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

EEX 4936 SENIOR SEMINAR IN EXCEPTIONAL CHILD EDUCATION (2)
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 semester of internship in a public or private school. Intern takes Senior Seminar in Education concurrently. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 semester hours. (S/U only.)

GRADUATE COURSES

EEX 6201 PSYCHO-EDUCATIONAL APPRAISAL OF EXCEPTIONAL CHILDREN (3)
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 (3)
PR: Cl. Procedures 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 (3)
PR: EEX 6836 and Cl. 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 (3)
Survey of current trends and issues related to the education of exceptional children.

EEX 6936 SEMINAR IN EXCEPTIONAL CHILD EDUCATION (3)
A survey of the education of exceptional children.

EEX 7203 EDUCATIONAL IMPLICATIONS OF PSYCHOSOCIAL ASPECTS OF EXCEPTIONAL CHILDREN (1-5)
PR: Cl. 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 5 hours.

EEX 7301 SELECTED TOPICS IN EXCEPTIONAL CHILD EDUCATION (1-8)
PR: EEX 7341 or Cl. 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 8 hours.

EEX 7341 RESEARCH STUDIES AND THEIR IMPLICATIONS IN THE EDUCATION OF EXCEPTIONAL CHILDREN (3)
PR: EDF 6431, EDF 6481 or equivalent Cl. 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 (3)
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 (1-5)
PR: Cl. Practical field experience in curriculum development, classroom teaching, supervision and/or administrative areas in special education. May be repeated for a maximum of 5 hours.

EEX 7911 SPECIALIZED STUDY IN: MENTAL RETARDATION, EMOTIONAL DISTURBANCE, SPECIFIC LEARNING DISABILITIES, AND GIFTED EDUCATION (1-8)
PR: Cl. 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 8 hours.

EEX 7930 SEMINARS IN EXCEPTIONAL CHILD EDUCATION (1-7)
PR: Preliminary admission to the Graduate Program and Cl. Seminar Topics will vary to include neuropsychological mechanisms, current trends, issues, and curriculum development in Special Education. May be repeated for a maximum of 7 hours.

FOREIGN LANGUAGE EDUCATION

UNDERGRADUATE COURSES

FLE 4164 FOUNDATIONS OF BILINGUAL EDUCATION (2)
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 FOREIGN LANGUAGE TEACHING IN THE SECONDARY SCHOOL (3)
PR: EDG 4200 or CR in EDG 4200. Techniques and materials of instruction in foreign languages. To be taken in the semester prior to internship.

FLE 4905 INDEPENDENT STUDY: FOREIGN LANGUAGE EDUCATION (1-4)
PR: Cl. 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 (1-3)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.
FLE 4936 SENIOR SEMINAR IN FOREIGN LANGUAGE EDUCATION (2)

FLE 4940 INTERNSHIP: FOREIGN LANGUAGE EDUCATION (1-12)
One full semester of internship in a public or private school. Intern takes Senior Seminar in Education concurrently. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 semester hours. (S/U only.)

GRADUATE COURSES

FLE 6665 CURRENT TRENDS IN SECONDARY FOREIGN LANGUAGE EDUCATION (3)
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 (3)
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 (3)
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 (4)
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 (3)
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 (3)
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 (3)
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 (3)
PR: Upper level standing. A comparison of contemporary educational systems of selected countries with that of the United States.

EDF 4905 INDEPENDENT STUDY: EDUCATIONAL FOUNDATIONS (1-4)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

EDF 4904 DIRECTED STUDY: EDUCATIONAL FOUNDATIONS (1-3)
PR: Senior Standing. To extend competency in teaching field. Offered only as a scheduled class.

EDF 5136 ADOLESCENCE (3)
A study of the educational, intellectual, personality, physical, social and vocational factors in adolescence.

EDF 5285 PROGRAMMED INSTRUCTION AND TEACHING MACHINES (3)
Principles for programming in the several academic subjects.

EDF 6120 CHILD DEVELOPMENT (3)
PR: EDF 6211 or CI. Educational, emotional, hereditary, intellectual, social and physical factors influencing child growth and development.

EDF 6143 MEASUREMENT OF INDIVIDUAL INTELLIGENCE (4)
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 (3)
Selected topics in psychology of human development and learning.

EDF 6213 BIOLOGICAL BASES FOR LEARNING AND BEHAVIOR (3)
PR: One course in Educational Psychology. A study of human biological development and its influence upon learning and behavior.

EDF 6215 PRINCIPLES OF LEARNING (3)
A consideration of several theories of learning and related research studies in regard to classroom application.

EDF 6217 BEHAVIOR THEORY AND CLASSROOM LEARNING (3)
A comparative and integrated study of personality development according to major psychological theories. Application of the theoretical constructs to education and guidance.

EDF 6517 HISTORICAL FOUNDATIONS OF AMERICAN EDUCATION (3)
Historical and comparative problems in American education which are relevant to contemporary issues.

EDF 6544 PHILOSOPHICAL FOUNDATIONS OF AMERICAN EDUCATION (3)
Major philosophies of education which are relevant to an understanding of contemporary educational issues.

EDF 6606 SOCIO-ECONOMIC FOUNDATIONS OF AMERICAN EDUCATION (3)
Significant socio-economic factors as they relate to major problems facing American education.

EDF 6712 PROSEMINAR IN COMPARATIVE EDUCATION (3)
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 (3)
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 (3)
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 demands; 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 (1-3)
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 (1-4)
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 (3)
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 (3)
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, demography, politics, media, and technology as they relate to reform. Emphasis will be placed on ways of conceptualizing and evaluating problems and issues.

EDF 7655 ORGANIZATION DEVELOPMENT IN EDUCATIONAL INSTITUTIONS (3)
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 (3)
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: the theory 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 PSYCHOEDUCATIONAL DIAGNOSIS AND PRESCRIPTION I, II (5,5)
PR: Acceptance to graduate program in School Psychology. Course 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 two consecutive semesters, 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 (4)
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 (1-3)
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 9 credit hours (with different subject matter).

GIFTED CHILD EDUCATION

UNDERGRADUATE COURSES

EGI 3011 INTRODUCTION TO GIFTED CHILDREN (3)
PR: Junior class standing. Diagnosis, characteristics, and educational provision of the gifted and talented.

EGI 3941 FIELD WORK WITH GIFTED CHILDREN (1-4)
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 (3)
Characteristics and educational needs of gifted children and youth.

EGI 5232 EDUCATIONAL PROCEDURES FOR THE GIFTED (3)
PR: EGI 5051 or CI. Curriculum adjustments, methods and techniques, classroom organization necessary for teaching the gifted.

EGI 5942 SUPERVISED PRACTICUM FOR THE GIFTED (1-9)
Planned supervised participation in activities related to specific areas of the gifted.

EGI 6936 SEMINAR IN EDUCATION OF THE GIFTED: RECENT RESEARCH (3)
A critical survey of the literature related to the psychological and educational problems of gifted children.

HEALTH EDUCATION

UNDERGRADUATE COURSES

HES 2000 CONTEMPORARY HEALTH SCIENCE (3)
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 (2)
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, endocrine, and respiratory systems. (S/U only.)

HES 3123 HUMAN STRUCTURE AND FUNCTION II (2)
PR: HES 3122. A continuation of HES 3122. Course includes the