

COLLEGE OF ARTS AND SCIENCES

UNIVERSITY OF SOUTH FLORIDA - 1997/98 UNDERGRADUATE CATALOG

The College of Arts and Sciences is a community of scholars dedicated to the idea that educated people are the basis of a just and free society. The essences of education are a capacity for and an appreciation of social change within a context of prior human achievement. The faculty of the Arts and Sciences strive to instill in their students a history of human ideas, a sense of love for learning, and an understanding of the means which scholars have used in their search for beauty and order in the natural world.

The education provided by the disciplines of the Arts and Sciences is the foundation upon which the lives and professions of our students are built, and the basis from which personal growth occurs. The College of Arts and Sciences takes as its goal a melding of the natural, humanistic and social philosophies into a comprehensive whole that encourages the development of new ideas and new approaches to the understanding of our universe.

Great universities provide direction for their communities and service for their needs. The faculty of the Arts and Sciences and the staff, who support and encourage their work, explore their scholarly interests within the home and community created by the academic society. It is the responsibility of scholars to share their discoveries for the betterment of society. Thus, the Arts and Sciences embrace disciplines that strive to make immediate use of knowledge in the service of social goals as well as disciplines whose discoveries contribute to the fund of basic information which is the steppingstone of applied knowledge.

ADMISSION TO THE COLLEGE

Admission to the College of Arts and Sciences is open to students who have been accepted to the University of South Florida and who declare a major in a particular field. Liberal Studies, Mass Communications, and Social Work are limited access degree programs and have additional requirements listed under Programs and Curricula.

Undergraduate students must submit a formal application for admission into the College. This usually occurs during Orientation and Advising for New Students. This application is also available in the Arts and Sciences' Office of Academic Affairs (SOC 102) for continuing students. Following admission, students are counseled by an academic adviser in his/her major field. 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 the medical technology internship program require specialized counseling. Therefore, 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 Academic Affairs (SOC 102), College of Arts and Sciences, University of South Florida, Tampa, Florida 33620.

CASPER

The College of Arts and Sciences Program for Emergency Relief (CASPER) is the ombudsperson program in the college for freshmen. The CASPER staff is dedicated to assisting freshmen in the college to overcoming academic and personal problems which might contribute to leaving USF during the first year. CASPER also sponsors a social event for freshmen and faculty in the college to allow time for faculty-student interaction in a non-academic setting. For more information call 974-6957 and ask for CASPER.

TRANSFER CREDITS

Transfer credit for MAT 1033 will only be acceptable towards a bachelor's degree in the College of Arts and Sciences if it was earned as part of an Associate of Arts degree awarded by a public community college in the State of Florida

or is part of a Florida public community college transcript which explicitly indicates that general education or general distribution requirements have been met.

Students enrolled in the College of Arts and Sciences must receive prior approval to take courses at another institution to apply toward a degree at USF. However, the College of Arts and Sciences does not permit students to count credits earned at another institution toward a degree from USF while on temporary or permanent academic dismissal from USF.

GENERAL REQUIREMENTS FOR DEGREES

The College of Arts and Sciences offers three undergraduate degrees: Bachelor of Arts, Bachelor of Science, and Bachelor of Social Work. A minimum of 120 semester hours credit (124 semester hours for Mass Communications) with an overall average of 2.0 or better in all work completed at the University of South Florida must be attained in order to earn the undergraduate degree. The Bachelor of Independent Studies is an external degree program in which the student proceeds at his/her own pace.

IT IS YOUR RESPONSIBILITY TO MEET GRADUATION REQUIREMENTS.

1. You must complete at least 120 accepted semester hours with an overall gpa of 2.000. Mass Communications requires 124 hours for the 1987-88 catalog and after.
2. You must have an overall major gpa of 2.000. Note: in Mass Communications you must have a 2.500 gpa in major courses in the 1989 catalog or after, Social Work requires a 2.75 major gpa.
3. You must complete the Foreign Language Entrance Requirement if you entered USF fall semester, 1987 or later. If you are pursuing a B.A. degree, you must complete the Foreign Language Exit Requirement
4. If you first enrolled in a college in January, 1983 or after, you must satisfy State Rule 6A-10.30 (Gordon Rule) concerning computation and communications. Transfer students who enter the University of South Florida with 60 or more semester hours from a regionally accredited institution are considered to have met the communications portion of the Gordon Rule.
5. You must satisfy Liberal Arts Requirements.
General Education Requirements (36)
 - Six (6) hours credit in English Composition
 - Six (6) hours credit in Quantitative Methods
 - Six (6) hours credit in Natural Sciences
 - Six (6) hours credit in Social Sciences
 - Six (6) hours credit in Historical Perspectives
 - Three (3) hours credit in Fine Arts
 - Three (3) hours credit in African, Latin American, Middle Eastern, or Asian PerspectivesExit Requirements (9)
 - Six (6) hours credit in Major Works and Major Issues
 - Three (3) hours credit in Literature and Writing
6. Elective Physical Education is limited to 2 semester hours.
7. ROTC is limited to 9 semester hours.
8. Maximum of 20 hours of S/U option; none in major courses.
9. The Audit option is available only during the first 5 days of classes; none permitted later.
10. You must complete at least 9 semester hours during summer terms if you entered USF with fewer than 60 semester hours.
11. "D" grades are not acceptable in the major and supporting sciences for all natural sciences majors. "D" grades are not acceptable for the major area in Communication Sciences and Disorders, Psychology, Social Work, Sociology, Mass Communications, English, History, Humanities, and Communication. Only one "D" is allowed in the major for Criminology. (Important! All grades including "D"s and "F"s are used to calculate all Arts and Sciences major gpa.)
12. You must satisfy all major course requirements.

13. You must complete a minimum of 40 hours of upper-level courses (numbered 3000 or above). Most of the major hours fit here. Lower-level course work from 2-year or 4-year schools, though equivalent to a 3000-level course at USF, does not meet this requirement.
14. Thirty (30) of the last 60 semester hours must be completed at USF to fulfill the residency requirement. The departments of Biology, Chemistry, Mathematics, and Physics have established minimum major course hours to be taken in residency at USF. See the department section of the catalog for the required hours. There must be a minimum of 80 hours (90 for Mass Communications) outside of your major department for all majors in arts and letters and social sciences.
15. You must take and pass the CLAST (College Level Academic Skills Test) exam the semester in which you achieve or pass 45 semester hours or in your first term as an upper level transfer student. Only students with a baccalaureate degree or who have a previous exemption do not have to take the test. (If not passed by 70 hours, remediation will be required. You may still take other courses. If not passed by 96 hours, contact the Office of Evaluation and Testing for further information regarding course work.
16. A maximum of 14 hours of non-degree seeking hours (special student classification) will count for graduation.
17. All USF degree seeking and non-degree seeking students are bound by the drop policy. From the second through the ninth week of classes (time period is different in summer-check class schedule) and between 0-59 semester hours, 3 drops are allowed and between 60 semester hours and graduation 3 more drops are allowed. Students classified as 5 (usually second degree seekers) are also allowed only 3 drops. Additional drops above these numbers result in an automatic "F" grade. Drops within the first 5 days of classes are not considered. Students can drop classes by telephone or by submitting a drop form to the Registrar's Office. Total withdrawal from all classes in a term is not considered toward the drop limitation. After the ninth week or for additional drops students must petition the Academic Regulations Committee (ARC).
18. Students must be in attendance the first day each class meets for all classes registered before classes begin. Failure to attend will result in an automatic drop from the class. **Do not use this policy as a way to drop classes.** Submit a drop slip or drop by telephone. Mandatory First Day Attendance policy is **not** in effect for any classes for which registration occurs during the first week. Open University courses and certain other categories of courses as indicated in the Schedule of Classes **must** be dropped with a drop slip or by telephone.
19. Students are allowed to repeat a course in which a B,C,D or F has been earned and have only the second grade of A, B, C, or D count in the gpa by submitting a Grade Forgiveness Form. A maximum of 3 grade forgiveness are allowed and grade forgiveness may be used for a course only once. Note: Both the original and repeated courses must be taken at USF. All grades (transfer and USF) are considered for honors.
20. Students are in good academic standing unless the grade point average falls below a 2.000 for USF courses. (Transfer grades are not considered.) The first semester the gpa falls below a 2.000 students are placed on academic probation (AP). If the gpa is not raised to a 2.000 the next term of enrollment, students are temporarily dismissed and may re-enroll after one term. Students in this category (TAD) upon returning to USF must achieve a 2.000 in courses taken during the term and raise the USF gpa to a 2.000 after 2 terms. Failure to achieve a 2.000 after 2 terms will result in a permanent dismissal (PAD). A gpa below 1.000 with 12 or more total hours attempted at USF will result in an immediate permanent dismissal. Students who have documentation to support readmission may petition the Academic Regulations Committee.

21. Courses taken at another institution while a USF student must be approved in advance (Transient Student/Cross Enrollment Form). No credit will be given for courses taken at another institution while on dismissal from USF.

Turn in your graduation application to SOC 102 during the 1st to the 4th week of the semester in which you plan to graduate. Applications are not accepted late.

The Departmental Minor

In order to help students develop some concentration in elective work taken in conjunction with their chosen major, the College of Arts and Sciences offers minors in the following departments/programs: Africana Studies, American Studies, Anthropology, Classics, Communication, Communication Sciences and Disorders, Criminology, Economics, English, Foreign Languages, Geography, Geology, Gerontology, History, Humanities, International Studies, Linguistics, Mathematics, Philosophy, Political Science, Psychology, Religious Studies, Sociology, and Women's Studies. In general, these require half as many hours as are required for the major. There are certain restrictions that apply to students earning a minor: (a) students who major and minor in the social sciences and arts and letters may not use courses in the major for the minor or for general distribution requirements; and (b) ISS majors may not earn a minor in any of the social and behavioral sciences incorporated in their contracts. In some departments, S/U grades within the minor curriculum are not countable. Specific requirements for the different minors appear under the departmental summaries listed under Programs and Curricula.

S/U Grades

In the College of Arts and Sciences some courses have S/ U grading as an option. S/U contracts must be negotiated in writing within the first three (3) weeks of the term.

A maximum of 20 hours of optional S/U credits may be counted towards the 120 hours (124 hours for Mass Communications) needed for the degrees. None of the 20 credits may be taken in the student's major unless S/U is the only grading option. Freshman English may not be taken S/U.

PROGRAMS LEADING TO THE BACCALAUREATE DEGREE

The departments and programs in the College of Arts and Sciences are Africana Studies, American Studies, Anthropology, Biology, Chemistry, Classics, Communication, Communication Sciences and Disorders, Criminology, Economics, English, Environmental Science and Policy, Geography, Geology, Gerontology, Government & International Affairs, History, Humanities, Independent Studies, Interdisciplinary Social Sciences, International Studies, Liberal Studies, Library and Information Science, Marine Science, Mass Communications, Mathematics, Medical Technology, Modern Languages and Linguistics, Philosophy, Physics, Political Science, Psychology, Public Administration, Rehabilitation Counseling, Religious Studies, Social Work, Sociology, and Women's Studies. The College of Arts and Sciences offers 53 major fields of study as described in the following pages. In addition to the departmental majors, interdisciplinary majors are offered. Economics offers two majors, one in the College of Arts and Sciences and the other in the College of Business Administration.

Bachelor of Arts

Africana Studies (AFA)
 American Studies (AMS)
 Anthropology (ANT)
 Biology (NSB)*
 Chemistry (CHM) (NSC)*
 Classics - Latin (CLL) - housed in Division of Languages and Linguistics

Classics - Latin/Greek (CLS) - housed in Division of Languages and Linguistics
 Communication (SPE)
 Criminology (CCJ)
 Economics (ECN)
 English (ENG)
 French (FRE)
 Geography (GPY)
 Geology (GLY)
 German (GER)
 Gerontology (GEY)
 History (HTY)
 Humanities (HUM)
 Interdisciplinary Classics (ICL) - housed in Division of Languages and Linguistics
 Interdisciplinary Natural Sciences:
 Biology (INB)
 Chemistry (INC)
 Clinical Laboratory Sciences (INL)
 Geology (ING)
 Mathematics (INM)
 Physics (INP)
 Interdisciplinary Social Sciences (ISS)
 Communication Sciences and Disorders
 Speech-Language-Hearing Concentration (ISH)
 American Sign Language Concentration (ISA)
 Educational Interpreter Concentration (ISI)
 International Studies (INT) - housed in Government & International Affairs
 Italian (ITA)
 Liberal Studies (ALA)
 Mass Communications (COM)
 Mathematics (MTH, MAE*)
 Philosophy (PHI)
 Physics (NSP*, PHY)
 Political Science (POL) - housed in Government & International Affairs
 Psychology (PSY)
 Religious Studies (REL)
 Russian (RUS)
 Sociology (SOC)
 Social Science Education (SSE)*
 Spanish (SPA)
 Women's Studies (WST)

Bachelor of Science Degree

Biology (BIO)
 Chemistry (CHS)
 Environmental Science and Policy (ESP)
 Geology (GLY)
 Gerontology (GES)
 Medical Technology (MET)
 Microbiology (MIC) - housed in Biology
 Physics (PHS)

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

Social Work (SOK)

Bachelor of Independent Studies (B.I.S.)

Independent Studies (BIS)

*Offered jointly with the College of Education.

Honors Programs

Faculty and selected students in the college participate in the University Honors Program. In addition, the College of Arts and Sciences offers undergraduate honors programs in Anthropology, Biology, Classics, Communication, Geology, Mathematics, Philosophy, Political Science, and Psychology. Students interested in one of these honors programs should consult the appropriate department for further information.

CERTIFICATES OF CONCENTRATION
Certificate Programs

The Certificate of Concentration is a short-term program for students who are interested in taking a series of courses in a selected area of Arts and Sciences, but are not necessarily interested in a degree. A minimum of 16 hours of approved course work are required. Students working for a Certificate of Concentration register as special rather than as degree-seeking students. For more information, contact the Coordinators of Advising in the College office.

Certificate in Latin American and Caribbean Studies

The College of Arts and Sciences offers a Certificate in Latin American Studies for students who wish to gain an intensive multi-disciplinary understanding of this important area.

The Certificate in Latin American and Caribbean Studies is designed for the student who wants to learn more about the region and have that knowledge formally recognized in his or her academic record.

The Certificate is granted to a person who takes a minimum of 15 semester hours of courses about Latin America and the Caribbean plus at least 3 hours of relevant foreign language credit. One course must be taken in each of four areas: 1) Anthropology, 2) Geography/Government & International Affairs, 3) History, and 4) Art/Humanities/Literature. A fifth course can be taken from a listing of other courses or from one of the four core areas. Students must take at least one of the indicated surveys (*). If ANT 4162 and ANT 4163 are both taken, they will also count as the required survey.

Students must also either demonstrate proficiency in a Latin American or Caribbean language other than English or have completed at least two semesters in that language (e.g., Spanish I and II, and/or Spanish III and IV). It is very strongly recommended that students who already know Spanish learn Portuguese or another Latin American or Caribbean language.

Study abroad programs are encouraged and will be credited toward the Certificate.

The following courses fulfill the certificate requirement. However, these should be considered as a partial list only. The student is strongly encouraged to consult with the advisor of the Certificate Program about current course offerings.

1) Anthropology

ANT 4162 South American Archaeology**
 ANT 4163 Mesoamerican Archaeology**
 ANT 4340 The Caribbean
 ANT 4324 Mexico and Central America
 ANT 4495 Methods in Cultural Research***

2) Geography/Government & International Affairs

GEA 3300 Geography of Middle America
 GEA 3400 Geography of Latin America*
 CPO 4930 Latin American Politics*
 LAS 3002 Latin America*
 INR 4931 Americas (TV)*
 INR 4931 Latin America through Film
 CPO 5934 Selected Topics: Latin America

3) History

LAH 2734 Latin American History in Film
 LAH 3130 Colonial Latin America
 LAH 3200 Modern Latin America*
 LAH 3430 History of Mexico
 LAH 3470 History of the Caribbean
 LAH 3480 History of Cuba
 LAH 3930 US/Latin American Relations

4) Art/Humanities/Literature

ARH 4796 Latin American Art
 HUM 4462 Ancient Latin American Culture
 HUM 4464 Latin American Culture Since 1492*
 SPN 3520 Spanish American Civilization*

- SPW 3030 Introduction to Hispanic Literature
 SPW 4131 Survey of Spanish American Literature*
 SPT 2524 Women Writers of Latin America (may also be taken in 5, but may not be taken for credit in both areas)

5) Others

- ECO 4935 Selected Topics: Economics of Latin America
 SPN 5525 Modern Spanish American Civilization
 SPW 5135 Colonial Spanish American Literature
 SPW 5355 Spanish American Drama and Poetry
 SPW 5387 Spanish American Prose
 SSE 4380 Global & Multicultural Perspectives in Education
 SPT 2524 Women Writers of Latin America (may also be taken in 4, but may not be taken for credit in both areas)

*Students must take at least one of the indicated surveys
 **ANT 4162 and ANT 4163 may be taken together as the required survey course
 ***Field School

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

Information and advice about the certificate program may be obtained from the Latin American Coordinator. Call 974-3547. The program is open to all majors in all colleges.

Certificate in Russian Studies

The College of Arts and Sciences offers a Certificate in Russian Studies for students who wish to gain an intensive multidisciplinary understanding of this important area. A minimum of 23 to 26 semester hours is required of all students seeking such a certificate, and will be distributed in the following manner:

Language-Linguistics-Literature.

Twelve hours from the following courses, 8 of which must be in language:

- LIN 4930 Selected Topics in Linguistics (Russian or another Slavic language (1-3))
 RUS 2200 Russian III (4)
 RUS 2201 Russian IV (4)
 RUS 3240 Conversation I (4)
 RUS 3500 Russian Civilization (3)
 RUS 4241 Conversation II (4)
 RUT 3110 Russian Classics in Translation (3)
 RUT 3111 Twentieth Century Russian Literature in Translation (3)
 RUS 2270 Overseas Study (1-6)
 RUS 3470 Overseas Study (1-6)
 RUS 4471 Overseas Study (1-6)

History-Political Science-Economics.

Six to eight hours from the following courses:

- CPO 3002 Introduction to Comparative Politics (4)
 ECO 4323 Marxist Political Economy (3)
 EUH 3571 Russian History to 1865 (4)
 EUH 3572 Russian History from 1865 to Present (4)

International Studies-Geography-Philosophy.

Six to eight hours from the following courses:

- EUS 3022 Russia (3)
 GEA 3554 Geography of the USSR (4)
 INR 5086 Issues in International Relations (3)
 INR 3018 World Ideologies (3)
 INR 3770 Comparative Military Systems (3)
 PHP 4788 The Philosophy of Marxism (3)
 INR 4900 Directed Readings (1-4)*
 INR 4910 Directed Research (1-4)*
 INR 3955 Overseas Study (1-6)*

- INR 4931 Selected Topics (1-4)*

*When topic is defined as Russian or directly related area.

Other courses may be substituted for those listed above upon approval of the Russian Studies coordinator.

Certificate in Asian Studies**Requirements for the Certificate in Asian Studies:**

The certificate in Asian Studies is designed for majors in any field who wish to gain a broad knowledge of a world area that is of unique importance. Requirements are as follows:

1. 18 semester hours from the courses listed below.
2. At least two courses must be from Group A and at least two courses must be from Group B. (Other relevant courses may be substituted with the approval of the program advisor.)
3. Students must declare their intention to be awarded the certificate by notifying the program advisor at least one full semester prior to graduation.
4. Students who fail to achieve a cumulative 2.5 GPA or higher in the program will be denied the certificate.

Courses credited toward the Asian Studies Certificate:**Group A -****Art**

- ARH 4530 (4) ARH 4796 (4)

Humanities:

- HUM 3271 (4) HUM 3273 (4) HUM 4402 (4)
 HUM 4404 (4) HUM 4405 (4)

Languages:

- CHI 1120 (4) CHI 1121 (4) CHI 2200 (4)
 CHI 2201 (4) CHI 4905 (1-5) CHI 4930 (1-5)
 JPN 1120 (4) JPN 1121 (4) JPN 2000 (3)
 JPN 2201 (3) JPN 4905 (1-5) JPN 4930 (1-5)

Religion:

- REL 3330 (3) REL 4343 (4) REL 3350 (3)
 REL 4333 (4) REL 4344 (4)

Group B -**Geography:**

- GEA 3194 (4)*

History:

- ASH 3404 (4) ASH 3501 (4)

Int'l Studies:

- ASN 3012 (3) ASN 3014 (3) ASN 3105 (3)
 INR 4900 (1-3)* INR 4910 (1-3)* INR 4931 (1-4)*

Political Science:

- CPO 4930 (3)* CPO 5934 (3) INR 5086 (3)

* with approval by the Advisor for the Certificate in Asian Studies

The advisor for the Certificate in Asian Studies is Professor Renu Khator. She may be contacted at SOC 363, 974-5019, and by e-mail: khator@luna.cas.usf.edu.

Special Non-Degree Program

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

- HUS 3001 HUS 4020 HUS 4100

HEALTH PROFESSIONS

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

The College of Arts and Sciences offers programs designed to prepare students for admission to professional schools of medicine, osteopathic medicine, dentistry, optometry, podiatric medicine, and veterinary medicine. Usually these professions require four years of preprofessional preparation followed by four years of training in a professional school. A few well prepared students with exceptional qualifications may be admitted to some professional schools as early as the completion of the junior year of preprofessional work. The preprofessional programs do not meet requirements for a degree, but students should plan to also complete a degree while at USF because, while not specifying a major, professional schools prefer students with a bachelor's degree. Most preprofessional students major in the sciences because of their interests in the health sciences, and because of the considerable overlap between the preprofessional curriculum and the degree requirements for majors in the biology and chemistry departments. Entrance into all professional schools or programs is competitive, and students should begin establishing a record of excellence with the 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 Arts and Sciences provides academic advising in the Health Professions Advising Office. The office maintains a library of current catalogs and books on admission requirements for professional schools and is an important resource center for preprofessional students. Students considering one of the health professions should contact the College of Arts and Sciences during the first semester at USF to declare their interest in a health professions program. Students are then assigned to the Health Professions Advising Office for curriculum planning, and each semester the office provides students with updated academic records. At the time of application to professional schools, students are provided information about admission tests and the application process, and they are assisted in the process of obtaining faculty evaluations.

Pre-dental - Pre-medical - Pre-podiatry Program

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

Biology:

BSC 2010, 2010L (3,1) BSC 2011, 2011L (3,1)

Chemistry:

CHM 2041 (3) CHM 2210 (3)
 CHM 2045L (1) CHM 2210L (2)
 CHM 2046 (3) CHM 2211 (3)
 CHM 2046L (1) CHM 2211L (2)

Physics:

PHY 2053 (3) PHY 2048 (3)
 PHY 2053L (1) PHY 2048L (1)
 PHY 2054 (3) PHY 2049 (3)
 PHY 2054L (1) PHY 2049L (1)

In addition to these requirements it is generally expected that preprofessional students will complete two semesters of English and mathematics appropriate for their degree. Some schools require calculus and some require one or two courses in biochemistry. CLEP credit usually is not acceptable to professional schools.

The following courses are recommended by some professional schools:

Biology:

MCB 3030C (4) PCB 3023, 3023L (3,1)
 PCB 3063, 3063L (3,1) PCB 4723, 4723L (3,1)
 PCB 5235 (3) ZOO 2713C (4)
 ZOO 4603 (4) ZOO 4753C (4)

Chemistry:

BCH 3023 (3) BCH 4034 (3) CHM 3120C (4)
 CHM 3400 (3) CHM 3401 (3)

An early admission program has been established in affiliation with the University of Florida College of Dentistry, which would allow students to be admitted to dental school after three years at the University of South Florida, completing a baccalaureate degree and dental school in a total of seven years. In order to be eligible for early admission to the College of Dentistry, a high school student must be accepted by the University of South Florida and must meet the following requirements: overall high school gpa of no less than 3.4, as computed by the University of Florida; total SAT of no less than 1200, or ACT of no less than 28, or EACT of no less than 29; high school science gpa of no less than 3.0 with courses completed in both biology and chemistry; apply during the senior year of high school and be approved for admission by the College of Dentistry Admissions Committee following a formal interview. Following admission into the joint program, final acceptance to the College of Dentistry is contingent upon the student completing all required courses; earning a gpa of no less than 3.2 for all courses attempted and no less than 3.0 for courses in biology, chemistry, physics, and mathematics; and completing the Dental Admissions Test with a score of no less than 15 on each section of the test. It is also possible for students to apply for early admission during the freshman and sophomore years at the University of South Florida. Additional information is available in the Health Professions Advising Office.

Pre-optometry Program

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

Biology:

BSC 2010, 2010L (3,1) BSC 2011, 2011L (3,1)
 MCB 3030C (4)

Chemistry:

CHM 2041 (3) CHM 2045L (1) CHM 2046 (3)
 CHM 2046L (1) CHM 2210 (3) CHM 2210L (2)
 CHM 2211 (3) CHM 2211L (2)

Mathematics:

MAC 2233 (4)
 STA 2023 (4) or STA 2122 (3)

Physics:

PHY 2053 (3) PHY 2053L (1) PHY 2054 (3)
 PHY 2054L (1)

Most schools require at least one semester of psychology (PSY 2012). Students should check requirements of individual schools and complete requirements for those schools where they plan to apply for admission.

A joint program between USF and Nova-Southeastern University College of Optometry allows students to complete a baccalaureate degree and doctor of optometry degree in a seven-year program. Freshmen may apply for the joint program by applying for admission to USF and also applying for admission to Nova-Southeastern. To be eligible for admission, students must meet all admission requirements for USF, and in addition must have an SAT minimum score of 1100, an ACT minimum of 25 or an EACT minimum of 27; a minimum high school GPA of 3.3; three years of high school science including biology and chemistry; and high school mathematics through algebra and trigonometry. Once admitted to the program students must earn a minimum GPA of 3.0 each term and satisfactorily complete required courses and the Optometry Admissions Test. Students must be Florida residents by the time they enter Nova-Southeastern.

Pre-veterinary Medicine Program

The pre-veterinary medicine program meets admission requirements of the University of Florida College of Veterinary Medicine, the only veterinary school in the state. Admission into veterinary school is highly selective, and to be competitive

of this catalog under the respective headings in Biology, Chemistry, Mathematics, and Physics.

2. The student may complete requirements of the Interdisciplinary Natural Sciences major with concentration in Biology, Chemistry, Physics, and Mathematics. A complete description of this major is found in this section of this catalog under the heading Interdisciplinary Natural Sciences.

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

PROGRAMS AND CURRICULA

■ AFRICANA STUDIES (AFA)

Africana Studies is a liberal arts program which offers both a major and a minor. This program provides all students with the opportunity (1) to study the history, culture and lived experiences of people of African descent in the United States, Africa, the Caribbean, and elsewhere; (2) to study the influence of Africa and people of African descent on world and U.S. thought, culture, and politics; (3) to study the social construction and consequences of race and racism; (4) to develop needed critical thinking skills to address the often narrow and Eurocentric bias in the current knowledge base; and (5) to examine their personal experiences, prejudices, and possible contributions in a multi-racial, multi-cultural society.

Students who major or minor in Africana Studies have the option of emphasizing African-American Studies (including the Caribbean), African Studies, or both. Admission to the Africana Studies major or minor is open to all students who have been duly admitted to the University of South Florida.

• Requirements for the Major in Africana Studies

The major in Africana Studies consists of a minimum of 36 hours. Students may choose an area of emphasis in African-American Studies, African Studies, or Africana Studies (both). The requirements for the majors are as follows:

Required Core Courses for all areas (15 cr. hours):

AFA 2000 (3) AFH 3200 (3) AMH 3572 (3)
AFH 3100 (3) AMH 3571 (3)

Required Electives (select 21 cr. hours):

African-American Studies (suggested)

AFA 4331 (3) ANT 4340 (3) PUP 3313 (3)
AFA 4335 (3) AML 3604 (3) HUM 2420 (3)
AMS 3700 (3) PHM 4120 (3) AFA 4931 (1-3)

African Studies (suggested)

AFS 2250 (3) CPO 4244 (3) INR 4254 (3)
AFA 4150 (3) INR 4254 (3) PHI 4073 (3)
CPO 4204 (3) HUM 2420 (3) AFA 4931 (1-3)

Africana Studies (suggested)

AFA 4331 (3) ANT 4340 (3) PHI 4073 (3)
AFA 4335 (3) CPO 4204 (3) PHM 4120 (3)
AFS 2250 (3) CPO 4244 (3) PUP 3313 (3)
AML 3604 (3) HUM 2420 (3) AFA 4931 (1-3)

• Requirements for the Minor in Africana Studies

The minor in Africana Studies requires a minimum of 18 credit hours. As in the major, students may choose an area of emphasis in African-American Studies, African Studies, or Africana Studies (both). The requirements for the minor are as follows:

Africana Studies (Minimum of 18 hours):

Required Core Courses (select 9 cr. hours)

AFA 2000 (3) AFH 3100 (3) or AFH 3200 (3)
AMH 3571 (3) or AMH 3572 (3)

Required Electives (select 9 cr. hours)

AFA 4150 (3) AML 3604 (3) INR 4254 (3)
AFA 4335 (3) ANT 4340 (3) PHI 4073 (3)
AFA 4931 (3) CPO 4204 (3) PUP 3313 (3)
AMS 3700 (3) HUM 2420 (3)

African-American Studies (Minimum of 18 hours):

Required Core Courses (9 cr. hours)

AFA 2000 (3) AMH 3571 (3) AMH 3572 (3)

Required Electives (select 9 cr. hours)

AFA 4150 (3) AML 3604 (3) PHM 4120 (3)
AFA 4331 (3) AMS 3700 PUP 3313 (3)
AFA 4335 (3) ANT 4340 (3)
AFA 4931 (1-3) HUM 2420 (3)

African Studies (Minimum of 18 hours)

Required Core Courses (select 9 cr. hours)

AFH 3100 (3) CPO 4204 (3)
AFH 3200 (3) INR 4254 (3)

Required Electives (select 9 cr. hours)

AFA 4150 (3) CPO 4244 (3) INR 4254 (3)
AFA 4931 (1-3) HUM 2420 (3) PHI 4073 (3)

• Program of Study at a Florida Community/ Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured from the university advisor listed above.

If you transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, you must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students are encouraged to complete the following prerequisites, or major, support, or elective courses if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses.

AFA 2000	Introduction to the Black Experience	
	In Africa & Its Diaspora	3
AFS 2250	Culture and Society in Africa	3
AMH 3571	Afro-American History I	3
AMH 3572	Afro-American History II	3

There are no State Mandated Common Prerequisites for this degree program.

Please be aware of the immunization, foreign language, and continuous enrollment policies of the university. This is a non-limited access program with the above courses recommended.

■ 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 1986 the department instituted an honors program to provide its best students with an opportunity to engage in a significant academic experience. Outstanding seniors may participate in a year-long course of study and original research in an area of their choosing under the guidance of a faculty mentor.

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 Center for Applied Anthropology is concerned with applying anthropological knowledge, theory, method, and perspectives to problems of contemporary society. Illustrative areas of activity include human services needs assessment, program planning and evaluation, social and environmental impact assessment, and public policy analysis.

• Requirements for the Major in Anthropology

The major in Anthropology consists of a minimum of 33 credit hours. ANT 2000 is prerequisite to all subsequent courses. ANT 3100, ANT 2410, 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 4000-level elective coursework, including courses from at least three of the four subfield areas shown below.

Archaeology

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

Physical Anthropology

ANT 4520 (3)	ANT 4552 (3)	ANT 4583 (3)
ANT 4587 (3)		

Anthropological Linguistics

ANT 4620 (3)	ANT 4750 (3)
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Cultural Anthropology

ANT 4226 (3)	ANT 4312 (3)	ANT 4442 (3)
ANT 4231 (3)	ANT 4316 (3)	ANT 4462 (3)
ANT 4241 (3)	ANT 4324 (3)	ANT 4495 (3)
ANT 4302 (3)	ANT 4340 (3)	ANT 4705 (3)
ANT 4305 (3)	ANT 4432 (3)	MUH 4054 (3)

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

Required Core Courses (21 cr. hrs.)

ANT 2000 (3)	ANT 3511 (3)	ANT 4034 (3)
ANT 3100 (3)	ANT 3610 (3)	ANT 4935 (3)
ANT 2410 (3)		

• Requirements for the Minor in Anthropology

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

- 2000-level required core course (3 cr. hrs.)
ANT 2000 (3)
- Intermediate level core courses (3-6 cr. hrs.)
ANT 2410 (3) ANT 3100 (3) ANT 3511 (3)
ANT 3610 (3)
- 4000-level elective courses (9-12 cr. hrs.) (as described above)

• Requirements for the Anthropology Honors Program

The purpose of the Honors Program is to provide outstanding Anthropology undergraduates with advanced, individually tailored training in areas of anthropology of interest to them. The program, operating independently of the major itself, involves a year of coursework and research culminating in the writing of an Honors thesis. Students in the second semester of their Junior year, prior to completion of 90 semester hours, may apply to the program, which begins in the Fall semester.

Admission is competitive, based on the student's overall academic record (minimal 3.0 GPA overall, 3.5 GPA for USF anthropology course work) and a letter of recommendation from a member of the Department of Anthropology. Successful completion of the program requires maintenance of a 3.0 overall and a 3.5 major GPA levels, completion of ANT 4932 (4) (Honors Seminar) with a grade of "B" or better, completion of ANT 4970 (3) (Honors Thesis) with a grade of "S" and completion of all other requirements for graduation. See the Anthropology Department Undergraduate Advisor for further information and application forms.

• Program of Study at a Florida Community/ Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete two lower level, introductory courses in Anthropology prior to entering the University. If not taken at the community college, they must be completed before the degree is granted. A grade of "C" is the minimum acceptable grade.

■ BACHELOR OF INDEPENDENT STUDIES (BIS)

The Bachelor of Independent Studies (BIS) Program is the State University System External Degree Program. The universities currently involved are Florida International University, Florida State University, the University of Florida, the University of North Florida, and the University of South Florida. The administrative office for the statewide program is located at USF in Tampa.

Founded in 1968, the external degree program is for adults who find it difficult to attend regular university classes because of career or family commitments. The BIS student proceeds at his/her own pace and, for the most part, in his/her own setting. The exception is the summer seminars which require periodic, short-term campus residence.

Curriculum

The curriculum consists of four study areas: the Humanities, Natural Sciences, Social Sciences and Inter-area Study. The first three areas of study are completed through a tutorial and a resident seminar. While the seminar is of short duration, the tutorial for each area requires a longer commitment of time. The student may begin in any of the first three study areas and is encouraged to start in his/her area of strength.

Tutorials

The tutorial or guided independent study is predominantly print intensive, with core and suggested readings drawn from the BIS Guide to Independent Studies. In the Humanities tutorial, for example, the student reads across the disciplines of the Humanities Study Area which include Language, Literature, Philosophy, Art, Drama, and Architecture. Selected works are reviewed within the framework of historical periods. Tutorial objectives include knowledge of the basic principles of each of the genres and periods, the ability to visualize

relationships between the disciplines, grasp of the nomenclature of the disciplines, and the capacity to apply basic concepts to current issues. The student is responsible for systematic interaction with the faculty mentor who directs the reading process and evaluates the student's progress.

In the Natural Sciences tutorial, the BIS learner studies Science -- Science for the non-scientist. Emphasis is placed on the interrelationships of the disciplines of Science. Topics illustrative of this interdisciplinary approach to Sciences include Mathematics, Physics, Chemistry, Biology, Astronomy, Geology, Ecology, History, and Philosophy of Science, and the impact of Science on Technology. As is the case with other tutorials the learning objectives involve concepts, nomenclature, cross-disciplinary insights, and application of concepts/methods to current issues.

In the Social Sciences tutorial, the student reads selected core and supplementary reading and completes written projects in each of the basic disciplines of the Social Science Study Area. These include Anthropology, Economics, Geography, History, Political Science, Psychology, Women's Studies, and Sociology. Tutorial objectives include knowledge of the basic concepts and principles of each discipline, familiarity with major social science research techniques, understanding of the relationships among the different disciplines, and the ability to apply disciplinary or interdisciplinary concepts or models to current issues.

Following each tutorial, the student completes a comprehensive examination in order to demonstrate that a satisfactory level of proficiency has been attained in the independent study component of a particular area. The exam may be taken on or off campus. A major research paper is also undertaken in each of the tutorials. It is normally done at the end of a tutorial.

Seminars

Students are required to attend two-week seminars on the USF campus. There is a seminar for each of the first three study areas (Humanities, Natural Sciences, and Social Sciences). Each seminar represents a period of intensive residential learning under the direction of a team of faculty members. Seminar faculty teams identify the subject matter and activities of each seminar. Humanities seminars, for example, are often theme-oriented but the focus is on interdisciplinary concerns. A number of historical periods may be approached through discussion of art, music, literature, and architecture. In a Natural Sciences seminar, the focus is on an interdisciplinary approach to learning about Science. Social Sciences seminar faculty focus on the knowledge gained in the tutorial with an emphasis on synthesis, extension, and application of this learning to selected topics such as energy, patterns of human behavior, and human rights.

Seminar activities also vary with the study area. A visit to a museum or art gallery goes with a Humanities Seminar. In Science, laboratory experiences and field trips are utilized to show students the ways of Science and to allow them to experience the excitement of discovery. Many of the activities described in a Social Sciences seminar syllabus are used in other seminars as well, i.e., lectures by faculty team members or guest lecturers, presentations by group members, group discussion, library research, learning journals, and a research paper.

Students in all seminars may be asked to read materials related to the seminar theme prior to the seminar and to complete written assignments after the completion of the two-week seminar period. Seminars meet for two consecutive six-day weeks and activities take up a full day. Further study and assignments occupy the evening hours.

Undergraduate Thesis

The fourth study area or Inter-area Study calls for a synthesis of the first three study areas via the preparation and defense of an undergraduate thesis. The student begins the Area with Inter-area reading leading to the completion of an

undergraduate thesis prospectus under the direction of a primary adviser. Following approval of the prospectus by a committee composed of three faculty, the student writes the study under the direction of the committee chairperson. The final step is to complete successfully an oral examination on the thesis.

Admission Procedures

Applicants must qualify for admission to the University of South Florida and for admission to the B.I.S. Program. The USF Director of Admissions rules on the admission of an applicant to the University. The BIS Committee rules on admission of an applicant to the BIS Program. BIS applicants typically welcome the challenge of liberal studies and the rigor of independent study. BIS students pay regular USF tuition for undergraduate students.

Mechanisms for Recognizing Prior Learning

Program policy allows for recognition of prior learning. Applicants, for example, who demonstrate sufficient competence may waive up to a maximum of two areas of guided independent study. Applications for waivers are processed after pre-enrollment procedures have been completed.

Individuals with an A.A. degree from a State of Florida community or junior college, and Registered Dental Hygienists, Registered Nuclear Medicine Technologists, Registered Nurses, Registered Radiologic Technologists, and Registered Respiratory Therapists with an A.S. degree from a state-approved program qualify for a "two-plus-two interface" with BIS requirements. In other words, those with an appropriate associate's degree complete two substantive study areas involving two tutorials and two seminars. The two study areas (Social Sciences & Natural Sciences or Humanities & Social Sciences or Natural Sciences & Humanities) are stipulated by the BIS Committee. The BIS Committee normally picks the two areas in which a student has the least background.

The Program is academically responsible to the Dean of the College of Arts and Sciences. The BIS Committee is advisory to the Provost.

For further information, contact the State University System, External Degree Program, Bachelor of Independent Studies (BIS) located at HMS 443, University of South Florida, Tampa, Florida 33620-8400. Telephone: 813-974-4058. E-mail: bis@luna.cas.usf.edu

- **Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

There are no State Mandated Common Prerequisites for this degree program.

- **BIOLOGY (BIO/MIC)**

Two specific Bachelor of Science degrees, Biology and Microbiology, are available for students interested in the biological sciences. The B.S. in Biology allows students to concentrate in such areas as Ecology, Cell & Molecular Biology, Physiology, and Marine Biology. The degree is preparatory for careers in such areas as teaching, agriculture, medicine, dentistry, conservation, and biotechnology, or for post-baccalaureate study in the various life sciences. The B.S. in Microbiology provides students with the broad range of courses necessary to qualify for certification by the National

Registry of Microbiologists, American Society of Microbiology, and employment in microbiology and related fields.

In addition to a set of courses in biology, students must have a thorough preparation in other areas of natural sciences 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. Students should study the requirements listed below and then make maximum use of the vigorous advising program maintained by the Department in structuring their programs. See the Undergraduate Program Assistant for further details of advising.

• **Requirements for the Biology B.S. Major (BIO)**

1. Department of Biology Courses - minimum 40 credit hours
 - a. BSC 2010, BSC 2010L, BSC 2011, BSC 2011L
 - b. PCB 3023, PCB 3043, and PCB 3063
 - c. ONE of the following: PCB 3023L, PCB 3043L, or PCB 3063L
 - d. ONE of the following (with laboratory): BOT 3373, MCB 3030, ZOO 3203, ZOO 3713, ZOO 4603, or ZOO 4753
 - e. ONE of the following (with laboratory): BOT 4503, MCB 4404, or PCB 4723
 - f. The remaining credit hours to meet the minimum requirements must come from among structured departmental courses that are applicable to the major and BCH 3023. At least eight (8) of these credit hours must be at the 4000 level or higher. A maximum of four (4) credit hours of Undergraduate Research (BSC 4910) or Biology Honors Thesis (BSC 4970) may be applied.
 - g. A minimum of 20 hours of Biology courses must be taken in residency and be applicable to the major.
2. Supporting Courses in the Natural Sciences - minimum 34 credit hours
 - a. CHM 2041, CHM 2045L, CHM 2046, and CHM 2046L
 - b. CHM 2210, CHM 2210L, CHM 2211, and CHM 2211L
 - c. MAC 2233 and MAC 2234 **OR** MAC 2281 and MAC 2282 **OR** MAC 2311 and MAC 2312 **OR** MAC 3233 and STA 2023
 - d. PHY 2048, PHY 2048L, PHY 2049, and PHY 2049L **OR** PHY 2053, PHY 2053L, PHY 2054, and PHY 2054L
3. Liberal Arts Courses - minimum 45 credit hours
4. Free Elective Courses needed to complete 120 credit hours.

• **Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students should complete the following **prerequisite courses** listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

- BSC 1010/1010L Introduction to Biology I-Cellular Processes (with lab)
Acceptable substitutes: PCB X010, PCB X011, PCB X021, PCB X131, BSC X040, BSC 2012
- BSC 1011/1011L Introduction to Biology II-Diversity (with lab)
Acceptable substitutes: ZOO X010, BOT X010, BSC X041, BOT X013
- CHM 1045/1045L General Chemistry I (with lab)
CHM 1046/1046L General Chemistry II (with lab)
CHM 2210/2210L Organic Chemistry I (with lab)
Acceptable substitutes: PHY 2043/2043L, PHY 2048/2048L, PHY 2049/2049L, or equivalent
- CHM 2211/2211L Organic Chemistry II (with lab)
Acceptable substitutes: PHY 2053/2053L, PHY 2048/2048L, PHY 2049/2049L, or equivalent

MAC X311 Calculus I
Acceptable substitutes: MAC 2233, MAC 2253, MAC X281

MAC X312 Calculus II
Acceptable substitutes: STA 2122, 2014, 2023, 2034, 2321 or equivalent; MAC 2234, 2254, 3282

Please be aware of the immunization, foreign language, and continuous enrollment policies of the university. This is a non-limited access program with the above courses recommended.

• **Requirements for the Microbiology B.S. Major (MIC)**

1. Department of Biology Courses - minimum 42 credit hours
 - a. BSC 2010, BSC 2010L, BSC 2011, BSC 2011L
 - b. PCB 3023, PCB 3023L, PCB 3043, and PCB 3063
 - c. MCB 3030, MCB 4115, MCB 4404, and MCB 4404L
 - d. Ten (10) hours from the following list: BOT 4434, MCB 4502, MCB 4652, MCB 4910, MCB 4934, MCB 5206, MCB 5815, PCB 5235, ZOO 5235, BCH 3023L
 - e. A maximum of four (4) credit hours of Undergraduate Research (MCB 4910) or Biology Honors Thesis (BSC 4970) may be applied.
2. Supporting Courses in the Natural Sciences - minimum 37 credit hours
 - a. CHM 2041, CHM 2045L, CHM 2046, and CHM 2046L
 - b. CHM 2210, CHM 2210L, CHM 2211, and CHM 2211L
 - c. MAC 2233 and MAC 2234 **OR** MAC 2281 and MAC 2282 **OR** MAC 2311 and MAC 2312 **OR** MAC 2233 and STA 2023
 - d. PHY 2048, PHY 2048L, PHY 2049, and PHY 2049L **OR** PHY 2053, PHY 2053L, PHY 2054, and PHY 2054L
 - e. BCH 3023
3. Liberal Arts Courses - minimum 45 credit hours
4. Free Elective Courses needed to complete 120 credit hours.

• **Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students should complete the following **prerequisite courses** listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

- BSC 1010/1010L Introduction to Biology I-Cellular Processes (with lab)
Acceptable substitutes: PCB X010, PCB X011, PCB X021, PCB X131, BSC X040, BSC 2012
- BSC 1011/1011L Introduction to Biology II-Diversity (with lab)
Acceptable substitutes: ZOO X010, BOT X010, BSC X041, BOT X013
- CHM 1045/1045L General Chemistry I (with lab)
CHM 1046/1046L General Chemistry II (with lab)
CHM 2210/2210L Organic Chemistry I (with lab)
Acceptable substitutes: PHY 2043/2043L, PHY 2048/2048L, PHY 2049/2049L, or equivalent
- CHM 2211/2211L Organic Chemistry II (with lab)
Acceptable substitutes: PHY 2053/2053L, PHY 2048/2048L, PHY 2049/2049L, or equivalent
- MAC X311 Calculus I
Acceptable substitutes: MAC 2233, MAC 2253, MAC X281
- MAC X312 Calculus II
Acceptable substitutes: STA 2122, 2014, 2023, 2034, 2321 or equivalent; MAC 2234, 2254, 3282

Please be aware of the immunization, foreign language, and continuous enrollment policies of the university. This is a non-limited access program with the above courses recommended.

Minimum Grade for Majors

A student must receive a "C" grade or better in all Department of Biology courses and Supporting Courses in the Natural Sciences, except if they are used as Free Elective courses. This specification applies to both USF and transfer courses. D and F grades earned in attempting to satisfy major requirements will be used in calculating the GPA, except if they are removed by grade forgiveness.

Biology Honors Program

The Honors Program provides a greater depth and breadth of knowledge to outstanding biology students, provides them an intense research training opportunity, and encourages them to pursue very high academic standards. In addition to satisfying requirements for the Biology or Microbiology degree, successful completion of the program requires a GPA of 3.5 in Department of Biology coursework, an overall GPA of 3.0 in USF coursework, and successful completion of BSC 4931, BSC 4932, and BSC 4402L. The culmination of the Honors Program is the completion and defense of an honors thesis. Invitation to participate in the Program will take place during the spring semester of each academic year. Criteria for selection include, but are not limited to, freshman/sophomore status; A/B in science courses at USF, including BSC 2010; and recommendation from BSC 2010L laboratory instructor. See the Honors Program Coordinator for further details of the program.

■ CHEMISTRY (CHS/CHM)

The Department of Chemistry awards two degrees at the baccalaureate level, the Bachelor of Arts in Chemistry and the Bachelor of Science in Chemistry, and three degrees at the graduate level, a non-thesis Master of Arts, the Master of Science and the Doctor of Philosophy. Each of the graduate degrees offers specialization in the areas of analytical chemistry, biochemistry, inorganic chemistry, organic chemistry and physical chemistry. In addition, a Master of Arts degree is offered as part of a carefully integrated accelerated B.A.-M.A. program. The chemistry faculty is comprised of 24 full-time members all of whom hold the Ph.D. degree. 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.

Majors in chemistry are well-prepared to enter a wide range of chemical careers as well as many interdisciplinary activities which are the hallmark of modern science and technology. These include teaching and research in academic, government and private settings, bio-medical research and clinical practice, environmental activities, materials science, law, business and other professions. The Bachelor of Science is particularly designed for students wishing to continue with graduate training in chemistry and closely-allied disciplines and graduates are certified for membership in the American Chemical Society. The Bachelor of Arts provides opportunities for curricula individually tailored to meet many career objectives.

• Requirements for the Majors in Chemistry

A grade of C or better is required in each chemistry course and each supporting course specified for a chemistry degree. All courses in a chemistry program must be taken with letter grade (A,B,C,D,F,I) except those courses which are graded S/U only. (D and F grades earned in attempting to satisfy chemistry major requirements will be used in calculating the major GPA.) Nine hours of upper-level chemistry courses must be completed at USF.

The required sequence of Chemistry courses should be started immediately in the freshman year and the mathematics and physics requirements should be completed before the junior year so that CHM 3400 (B.A. degree) or CHM 4410 (B.S. degree) can be commenced by that time. CHM 4410 is a prerequisite to other advanced courses required for the B.S. degree in chemistry. CHM 4060 also is a prerequisite to several B.S. degree courses.

Liberal Arts Requirement. The student is required to complete the University's Liberal Arts Requirement. Chemistry and Mathematics courses required for chemistry degrees satisfy the Liberal Arts requirements in the areas of Natural Science and Quantitative Methods.

Free Electives. Courses over and above the required courses should be taken to complete a 120-hour program. Recommended courses are listed in the degree requirements below. 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.

BA in Chemistry (CHM)

The B.A. degree in Chemistry provides a course of study for students whose careers will require a thorough understanding of chemistry required for a variety of professional activities such as in health-related professions, science teaching, business, law and other areas. Inherent in this program is a high degree of flexibility which permits tailoring a course of study to the student's own educational objectives. The B.A. student whose goals change in the direction of graduate study should supplement this curriculum by addition and/or substitution of a selection of advanced courses from the B.S. program.

Required Chemistry Courses (33 cr. hrs.)
 CHM 2041 (3) CHM 2045L (1) CHM 2046 (3)
 CHM 2046L (1) CHM 3610C (4) CHM 2210 (3)
 CHM 2210L (2) CHM 2211 (3) CHM 2211 L (2)
 CHM 3120C (4) CHM 3400 (3) CHM 3401 (3)
 CHM 3402L (1)

Required Chemistry Electives (6 cr. hrs.)
 3000 level or above; may include not more than 1 hr. of CHM 4970.

Suggested courses: BCH 3023, BCH 3023L, CHS 4310, CHM 4060, CHM 4070, CHM 4610, CHM 4970, CHM 4932*.

*Content varies each semester.

Required Supporting Courses (14-16 cr. hrs.)
 MAC 2311 (4)) or (MAC 2281 (3)
 MAC 2312 (4)) MAC 2282 (3)
 PHY 2053 (3)) PHY 2054 (3)
 PHY 2053L (1)) PHY 2054L (1)

Required natural science or engineering electives (8 cr. hrs.)
 Suggested courses: BSC 2010, BSC 2011, GLY 2010, GLY 2100, EVR 2001, CGS 2060.

BA in Chemistry, emphasis in Biochemistry (CHM)

The Chemistry B.A. offers a unique opportunity for students to pursue later studies and/or professional emphasis in Biochemistry and Biotechnology along with a strong foundation in the chemical knowledge and skills that are essential to these areas. The following schedule of courses meets the requirements for a B.A. in Chemistry and provides core courses in other disciplines basic to biochemistry and biotechnology.

Required Chemistry Courses (27 cr. hrs.)
 CHM 2041 (3) CHM 2045L (1) CHM 2046 (3)
 CHM 2046L (1) CHM 2210 (3) CHM 2210L (2)
 CHM 2211 (3) CHM 2211L (2) CHM 3120C (4)
 BCH 3023 (3) BCH 3023L (2)

Required Chemistry Electives. (12 cr. hrs.)

Minimum of 12 hrs. selected from the following:
 CHM 3400 (3)* CHM 3610 (4)* BCH 4034 (3)
 CHM 3401 (3)* CHS 4310 (4)* CHM 4060 (3)

*Students anticipating graduate study are advised to select these courses.

Required Supporting Courses (22-24 cr. hrs.)

MAC 2311 (4)) or (MAC 2281 (3)
MAC 2312 (4)		MAC 2282 (3)
PHY 2053 (3)		PHY 2054 (3)
PHY 2053L (1)		PHY 2054L (1)
BSC 2010 (3)		PCB 3023 (3)
BSC 2010L (1)		PCB 3023L (1)

Other suggested electives important for advanced studies in biochemistry: CHM 4932*, CHM 4070, PCB 3063, PCB 5235, PCB 5525, STA 3023, MCB 3030, MCB 4502, PCB 4253, PCB 5845, EVR 2001.

*Content varies each semester.

BA in Chemistry, emphasis for Health Professions(CHM)

A chemistry core is essential for preparation for medical, dental, veterinarian and other health-related professions. The B.A. in Chemistry includes this core as well as the flexibility to incorporate the other science courses required for admission to programs in the health professions. The course of study outlined below incorporates the goals for health-related careers.

Required Chemistry Courses (30 cr. hrs.)

CHM 2041 (3)	CHM 2045L (1)	CHM 2046 (3)
CHM 2046L (1)	CHM 2210 (3)	CHM 2210L (2)
CHM 2211 (3)	CHM 2211L(2)	CHM 3120C (4)
CHM 3400 (3)	CHS 4300 (3)	CHS 4301 L (2)
BCH 3023 (3)		

Required Chemistry Electives. (9 cr. hrs.)

Minimum of 9 hrs. selected from the following:
 CHM 3400 (3) CHM 3401 (3) CHM 4060 (1)
 CHM 3610 (4) BCH 3023L (2) CHS 4310 (4)
 BCH 4034 (3)

Required Supporting Courses (22-24 cr. hrs.)

MAC 2311 (4)) or (MAC 2281 (3)
MAC 2312 (4)		MAC 2282 (3)
PHY 2053 (3)		PHY 2054 (3)
PHY 2053L (1)		PHY 2054L (1)
BSC 2010 (3)		PCB 3023 (3)
BSC 2010L (1)		PCB 3023L (1)

Other suggested electives important for advanced studies in health professional vocations: BSC 2011, PCB 3063, PCB 5235, PCB 5525, STA 3023, MCB 3030, PCB 4723, ZOO 4753, ZOO 3713, MCB 4502, CHM 4932*, PCB 4253, PCB 5845.

*Content varies each semester.

BS in Chemistry (CHS)

The Bachelor of Science in Chemistry 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 in Chemistry meets the requirements for degree certification by the American Chemical Society. Because of the strong base developed in this curriculum, the B.S. in Chemistry also provides entry into other chemistry-related advanced studies.

Required Chemistry Courses (50 cr. hrs.)

CHM 2041 (3)	CHM 2045L (1)	CHM 2046 (3)
CHM 2046L (1)	CHM 3120C (4)	CHM 2210 (3)
CHM 2210L (2)	CHM 2211 (3)	CHM 2211L (2)

CHM 3610C (4)	CHM 4060 (1)	CHM 4130C (4)
CHM 4131C (4)	CHM 4410 (3)	CHM 4411 (3)
CHM 4412 (3)	CHM 4610 (3)	BCH 3023 (3)

Required Supporting Courses (20-23 cr. hrs.)

MAC 2311 (4)) or (MAC 2281 (3)
MAC 2312 (4)		MAC 2282 (3)
MAC 2313 (4)		MAC 2283 (3)
PHY 2048 (3)		PHY 2049 (3)
PHY 2048L (1)		PHY 2049L (1)

A natural science or engin. elective (except PHY 3020) (3)

Suggested courses: PHY 3101, BSC 3092, MAP 4302, CGS 2060, EVN 3001.

Other suggested Chemistry electives: CHM 4970, BCH 3023L, CHM 4070, CHM 4932*.

*Content varies each semester.

Environmental Concentration:

Chemical science is a core component of environmental science both in the analysis of environmental conditions and in the solution of environmental problems. B.A. and B.S. chemistry majors wishing to concentrate on environmental concerns should complete BSC 2011C and 2010C, GLY 2010 and 2010L, and EVR 2001 and 2001L. Electives that should be considered include GLY 4822, GLY 5246, STA 3023 and EVR 4910.

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, see College of Education section this Catalog and junior college teachers, see USF Graduate Catalog.

- **Combined BA-MA Program Admission**

Regular admission to the program will normally occur towards the end of the sophomore year or early in the junior year, or at transfer from junior college. Students who have completed not less than ten semester credit hours of chemistry courses, and have maintained a "B" average in chemistry courses and overall, may apply. Applications will be considered individually and applicants may be called for interview. Provisional admission may be granted to incoming freshmen whose academic background and performance indicate the likelihood of their meeting the regular requirements in due course. It should be noted that, in view of the heavy research component and orientation of the program, and the limitations of facilities and individual faculty time available for research direction, admission to the program is by no means automatic upon meeting minimum requirements.

Course Requirements

Undergraduate: The B.A. coursework curriculum (q.v.) is augmented as follows:

1. CHM 4410, 4412, and 4130C (or CHS 4310C) replace CHM 3400, 3401 and 3402C.
2. Chemistry coursework hours (excluding research) total 42 rather than 41.
3. Natural sciences supporting coursework hours total 25 rather than 24.

Graduate: Not less than 20 credit hours of formal, regularly scheduled chemistry graduate courses, including not less

than two of the five core courses (BCH 5065, CHM 5225, CHM 5425, CHM 5621, CHM 6150). At least 10 of the credit hours must be at the 6000 level. The core course requirement may be waived in part or entirely by recommendation of the supervisory committee on the basis of past work, performance on a test, or substitution of more comprehensive and advanced courses.

Research and Thesis

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

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

Supervision and Promotion

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

- **Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites) for B.A./B.S. in Chemistry**

Students should complete the following **prerequisite courses** listed below at the lower level prior to entering the University. These include two semesters each of General Chemistry lecture and lab, Organic Chemistry lecture and lab, Calculus, and General Physics lecture and lab. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

CHMX045/X045L General Chemistry I (with lab) **or** CHM 1040&1041, **or** 1045C, **or** 1045E
 CHM X046/X046L General Chemistry II **or** CHM 1046C, **or** 1046E
 MAC 2311 Calculus I
 MAC 2312 Calculus II
 CHM 2210/2210L Organic Chemistry I (with lab) **or** CHM 2210C
 CHM 2211/2211L Organic Chemistry II (with lab) **or** CHM 2211C
 PHY 2048/2048L General Physics I with Lab **or** PHY 2048C, **or** PHY 2053C
 PHY 2049/2049L General Physics II with Lab **or** PHY 2049C, **or** PHY 2054C

Please be aware of the immunization, foreign language, and continuous enrollment policies of the university. This is a non-limited access program with the above courses recommended.

■ COMMUNICATION (SPE)

Communication studies focus on the concepts, theories, and practice of human communication in a variety of contexts. Students apply their understanding of communication research and principles to personal, professional, and community relationships and concerns.

The department encourages students to tailor their program of study to meet their own interests. Majors select from one of three areas of concentration described below.

The Honors Program in Communication allows qualified students to pursue advanced study. A minor in Communication is also available.

- **Requirements for the Major in Communication**

A major in Communication requires a minimum of 36 credit hours from departmental offerings. A final grade of "D" within a departmental course will not be counted toward a Communication major. Courses may not be taken S/U where a grade option exists. The requirements for the Communication major are:

- I. **Prerequisites (3 hours)**

This course is a prerequisite for declaring the communication major.

SPC 2600 Public Speaking (3)

- II. **Core Distribution Requirements (12 hours)**

Students must take each of these four courses as early as possible in the major. These courses are prerequisites for taking many of the more advanced courses in the respective areas.

COM 2000 Introduction to Communication (3)

ORI 2000 Introduction to Communication as Performance (3)

SPC 3301 Interpersonal Communication (3)

SPC 2541 Persuasion (3)

- III. **Area of Concentration (9 hours)**

Students must take a minimum of nine hours in one of the three areas of concentration.

- Performance Communication**

ORI 3950 ORI 4931 ORI 4120

ORI 4310 SPC 4201

- Interpersonal and Organizational Communication**

COM 3120 COM 3014 COM 4124

COM 4942 SPC 3210 SPC 3441

SPC 3712 SPC 4431 SPC 4310

- Public and Cultural Communication**

COM 4030 SPC 3230 SPC 3513

SPC 3631 SPC 3653 SPC 4683

SPC 4632 SPC 4680 SPC 4714

- IV. **Departmental Electives (12) hours**

Students must take twelve additional hours of elective coursework in the Department of Communication at the 3000-level or higher, which must include at least six hours from outside the student's "area of concentration."

Communication Honors Program

The Honors Program in Communication provides an opportunity for exceptional undergraduate students in Communication to work closely with a faculty member in an intensive research experience. Each Honors student is required to complete and defend an undergraduate Honors Thesis. Application to the program ordinarily occurs during the second semester of the junior year or prior to completion of 90 semester hours. Admission to the program is based on the student's overall academic record, performance in communication courses, and recommendations of faculty. To be admitted to the program, a student should have at least a 3.5 GPA in all communication courses and a 3.0 cumulative GPA. Students are required to complete 3 hours of Honors Reading and 3 hours of Honors Thesis. Students interested in the Honors Program should consult the department for further information about admission and program requirements.

- **Requirements for the Minor in Communication**

The minor in Communication is available to students pursuing any other major at USF. The minor in Communication requires a minimum of 18 hours of departmental coursework, including:

SPC 2600 Public Speaking (3)

COM 2000 Introduction to Communication (3)

The other 12 hours may be selected from among departmental offerings and must include a minimum of 6 hours at the 3000-level or higher. A grade of "D" will not be counted toward

a Communication minor. Courses may not be taken S/U where a grade option exists.

• **Program of Study at a Florida Community/ Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students must complete SPC 2600, Public Speaking, before being admitted the Communication major. A student can be admitted to the University without SPC 2600, but it must be completed as part of requirements for the major. A grade of "C" is the minimum acceptable grade.

Please be aware of the immunization, foreign language, and continuous enrollment policies of the university. This is a non-limited access program with the above courses recommended.

■ **COMMUNICATION SCIENCES AND DISORDERS (ISH, ISA, ISI)**

Undergraduate concentrations in the Communication Sciences and Disorders are available through the program of Interdisciplinary Social Sciences (ISS). Concentrations in Speech-Language-Hearing Science, American Sign Language, and Educational Interpreter Training lead to the B.A. degree. The undergraduate concentration in Speech-Language-Hearing Science (ISH) provides preprofessional study for Master's level preparation as a Speech-Language Pathologist, Audiologist, or Deaf Educator. The American Sign Language (ISA) concentration focuses on the study of deaf culture through the development of communicative proficiency in ASL and prepares individuals to work with the deaf in a variety of social service agencies. The Educational Interpreter Training (ISI) concentration prepares students to work in educational settings working with students who require assistance with educational skills due to their hearing impairment or deafness. Students interested in these concentrations should contact the department of Communication Sciences and Disorders regarding academic advising. The department also offers the Master's of Science (M.S.) degree in Speech-Language Pathology, Audiology, and Deaf Education, as well as a Ph.D. specialization in Speech, Language, or Hearing Science through the department of Psychology (Experimental Psychology). The department offers a 5-year M.S. course of study combining undergraduate with graduate courses; however, enrollment into this program is currently not available.

• **Concentrations in Communication Sciences and Disorders (ISH)**

A. General Information

All undergraduates seeking enrollment in this concentration must be in good academic standing as undergraduate students at the University of South Florida. Prior to beginning coursework in the junior year in the concentration, most students should complete general academic distribution requirements, successfully pass the CLAST, and have achieved 60 semester hours of coursework. Students with advising concerns relative to their first 60 semester hours are encouraged to meet with undergraduate departmental advisors since required and recommended courses for admission into the ISH or ISA concentration will also meet other university requirements.

B. Prerequisites for Admission

1. Required Courses

BSC 1085	Human Anatomy and Physiology I
BSC 1085L	Human Anatomy and Physiology I Lab
BSC 1086	Human Anatomy and Physiology II
BSC 1086L	Human Anatomy and Physiology II Lab
or BSC 2092	Human Anatomy and Physiology

2. Recommended Courses

LIN 3010 or LIN 3801 or CGS 2060

Courses in this category should be completed with a

minimum grade of "C."

C. Other Requirements for the ISH Degree (min. 9 cr. hrs.)

1. Required Courses (6-7 cr. hrs.)
STA 2122 (3) or PSY 3213 (4) and ISS 3010 (3)
2. Additional Courses (3 cr. hrs.)
SYG 2000 or ANT 2000 or equivalent

D. Speech-Language-Hearing Concentration (ISH) (min. 39 cr. hrs.)

Coursework is sequenced for the ISH concentration in Speech-Language-Hearing Science. All students must complete study in basic knowledge of the communication sciences and in basic knowledge of communication disorders. Upon admission to the concentration, each student will be assigned an advisor to provide guidance in academic planning.

The course of study includes:

SPA 3002 (3)	SPA 3112 (3)	SPA 4222 (3)
SPA 3004 (3)	SPA 3110 (3)	SPA 4363 (3)
SPA 3011 (3)	SPA 4050 (3)	SPA 4562 (3)
SPA 3030 (3)	SPA 4201 (3)	
SPA 3101 (3)	SPA 4210 (3)	
SPA 3380 (4)	(Recommended)	

Students interested in teacher certification in deaf education must complete required education courses in addition to all ISS requirements listed under Sections B and C. Effective July, 1989, the academic requirement for employment in the public school system for Speech-Language Pathologists is the Master's degree.

E. American Sign Language Concentration (ISA) (min. 30 cr. hrs.)

New students are not being admitted to the ISA Major for the 1997/98 year while the curriculum is being restructured.

The ISA concentration seeks to educate students to communicate with the deaf and to apply this knowledge in work settings where knowledge of the deaf culture is essential for the provision of social services. This ISA concentration is not intended to prepare interpreters for the deaf although exceptionally proficient students may qualify as interpreters. This concentration also does not qualify students for admission into the M.S. programs in Speech-Language Pathology or Clinical and Rehabilitative Audiology, or Deaf Education. Those students choosing to become teachers of the deaf must pursue the ISH concentration in Speech-Language-Hearing Science and obtain the M.S. degree in Aural Rehabilitation/Deaf Education.

General admission requirements and recommendations for ISA are identical to the ISH concentration in Speech-Language-Hearing Science. The specific course of study for the ISA concentration also assumes that the student has completed an A.A. degree or its equivalency. Upon admission to the concentration, each student will be assigned an advisor for the purpose of academic planning. The following courses are included in the major:

SPA 3002 (3)	SPA 3004 (3)	SPA 3030 (3)
SPA 3310 (3)	SPA 3380 (4)	SPA 4332 (3)
SPA 4363 (3)	SPA 4382 (4)	SPA 4383 (4)
Other electives (6).		

F. Educational Interpreter Training Concentration (ISI)

The ISI concentration seeks to educate students to become educational interpreters for deaf students in the public school system. A program of 42 credit hours is planned for the student majoring in the Educational Interpreter Training Concentration. Course content is distributed across five categories of information and skills necessary for a career in Educational Interpreting:

1. Roll of the Educational Interpreter in the Public School Setting
2. Cognitive, Psychosocial, and Language Development of Hearing and Deaf Children in Public Schools
3. Techniques and Applications of Educational Interpreting in the Public School
4. Professional Practices of the Educational Interpreter
5. Internship

General education requirements as well as liberal arts exit requirements for ISI are identical to those for ISA and ISH concentrations. The specific course of study for the ISI concentration assumes that the student has completed an A.A. degree in Interpreter Training or its equivalent. Additionally, prerequisites include proficiency in ASL signing and interpreting skills. Upon admission to the concentration, each student will be assigned an advisor for the purpose of academic planning. Interested students should contact the coordinator of the Educational Interpreter Training Program in the Department.

The following courses are included in the major:

SPA 3001 (3)	SPA 3001L (1)	SPA 3003 (3)
SPA 3003L (1)	SPA 3004 (3)	SPA 3028 (3)
SPA 4386 (3)	SPA 4386L (1)	SPA 4387 (3)
SPA 4387L (1)	SPA 4371 (3)	SPA 4503 (4)
EDF 3214 (3)	EDG 4620 (3)	EEX 4070 (2-3)
EME 2040 (3)	ISS 3010 (3)	

Minimum Grade for Majors

A student must receive a "C" grade or better in all courses within the major and those that are required prerequisites. Any student who receives a grade of "D" or lower in more than two USF Communication Sciences and Disorders courses will be automatically barred from continuing as an undergraduate major in ISH, ISA, or ISI. Grade forgiveness may be used for two courses only and may be used only for course work taken in the first year of study. Courses which comprise the second year of the major may not be repeated.

HONORS PROGRAM

The Honors Program in Communication Sciences and Disorders (ISA, ISH, ISI) provides outstanding undergraduates with advanced, individualized training in their areas of interest as well as additional research training. Admission to the Honors Program requires the student to submit evidence of (1) having completed 70 hours of college level course work with a 3.25 average or better, (2) 9 credit hours within the Communication Sciences and Disorders (CSD) curriculum with at least a 3.5 average in these courses, and (3) a letter of recommendation from a CSD faculty member. After acceptance to the Honors Program, the student will complete the requirements for the major with a GPA above 3.5 for courses taken within the department and an overall GPA above 3.25. The Honors Student will complete 6 credit hours in advanced level courses that pertain to the major, complete 2 credits in Honors Colloquia and write an Honors Thesis.

• Requirements for the Minor in American Sign Language

Students seeking a minor in American Sign Language (ASL) must complete a minimum of 18 credits:

1. A minor must include these four courses:
SPA 3380 - Basic ASL
SPA 4382 - Intermediate ASL
SPA 4383 - Advanced ASL
SPA 4363 - Nature and Needs of the Hearing Impaired
2. In addition, a minor must include one of the following:
SPA 4331 - Fundamentals of Finger Spelling
SPA 4332 - Structure of Sign Language
3. Students transferring credit hours toward a minor in ASL must complete 12 credit hours within the Department of Communication Sciences and Disorders regardless of the number of credit hours transferred.
4. A GPA of 2.0 or better must be achieved in minor course work in order for a student to be certified for graduation with a minor in American Sign Language.

• Program of Study at a Florida Community/ Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

Complete the A.A. degree at the community college. Some

courses required for the Speech-Language-Hearing (ISH) or ASL (ISA) major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured.

Students entering the university without an A.A. degree and fewer than 60 semester hours of acceptable credit, must meet the university's entering freshman requirements including ACT and SAT test scores, GPA, and course requirements.

Students who plan to major in ISH and ISA are encouraged to complete the following prerequisites during the program of study at the community college:

I. ANT 2000 Introduction to Anthropology	3
or	
PSY 2012 Introduction to Psychology	3
or	
SYG 2000 Introduction to Sociology	3
II. And each of the following:	
BSC 1085 Human Anatomy & Physiology I	3
BSC 1085L Human Anatomy & Physiology I Lab	1
BSC 1086 Human Anatomy & Physiology II	3
BSC 1086L Human Anatomy & Physiology II Lab	1
or equivalent work such as:	
BSC 3092 Human Anatomy & Physiology	5
STA 1023 Introduction to Statistics	4
(or equivalent)	

III. Complete the foreign language requirement

NOTE: Students who select ASL as their foreign language and are seeking a bachelor of arts degree in ASL are required by the Department of Communication Sciences and Disorders to complete satisfactorily at least one upper level course in ASL at the University of South Florida or to demonstrate proficiency in ASL.

IV. Admission to the program of study for Educational Interpreters requirement: ability to use ASL at the intermediate level of a standardized ASL competency test such as the Sign Communication Proficiency Index (SCPI) or other equivalent evaluation. It is further recommended that the candidate will have completed a community college interpreter training program curriculum.

There are no State Mandated Common Prerequisites for this degree program.

Please be aware of the immunization, foreign language, and continuous enrollment policies of the university. This is a non-limited access program with the above courses recommended.

■ CRIMINOLOGY (CCJ)

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

The objective of the undergraduate program in Criminology is to develop a sound educational basis either for graduate work or for professional training in one or more of the specialized areas comprising the modern urban criminal justice system. The program offers four areas of concentration within the major as well as a certification program in corrections.

• Requirements for the Major in Criminology:

A minimum of 42 semester hours is required of all undergraduate majors in Criminology including the following courses or their equivalents:

CCJ 3024 (3)*	CCJ 3204 (3)	CCJ 3610 (3)*
CCJ 4501 (3)	CCJ 4934 (3)	

* These are gateway courses and must be taken first.

In addition to the above, the student must select and complete the course requirements from within one of the four areas of concentration described below.

1. Generalist:

CCJ 3621 (3) CCJ 3701 (3) CCJ 4110 (3)
CCJ 4273 (3) CCJ 4306 (3) CCJ 4700 (3)

plus a minimum of 9 hours of Criminology electives.

2. Law Enforcement:

CCJ 3701 or 4700 (3)
CCJ 4110 (3) CCJ 4273 (3) CCJ 4306 (3)
CCJ 4450 (3) CCJ 4511 (3) CCJ 4940 (3)
CJT 4100 (3)

plus a minimum of 3 hours of Criminology electives.

Students may earn up to 6 hours toward their major by successfully completing a Florida Criminal Justice Standards and Training Commission (FCJSTC) approved Basic Recruit Training Academy in Law Enforcement as part of the internship experience within the Law Enforcement area of concentration.

3. Corrections:

CCJ 3701 or 4700 (3)
CCJ 4110 (3) CCJ 4273 (3) CCJ 4282 (3)
CCJ 4316 (3) CCJ 4331 (3) CCJ 4341 (3)
CCJ 4306 (3) CCJ 4940 (3)

4. Juvenile Justice:

CCJ 3701 or 4700 (3)
CCJ 3621 (3) CCJ 4511 (3) CCJ 4513 (3)
CCJ 4540 (3) CCJ 4550 (3) CCJ 4652 (3)
CCJ 4940 (3)

plus a minimum of 3 hours of Criminology electives.

Note: No more than five (5) hours of CCJ 4900, CCJ 4910 or any combination of the two will be accepted toward the minimum number of hours in the major.

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 Criminology as their major will be required, moreover, to take a minimum of 30 credit hours in major coursework at the University of South Florida.

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

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

Certification in Corrections:

The Department of Criminology offers a certificate in corrections. This certificate is recognized by the Florida Criminal Justice Standards and Training Commission (FCJSTC) and by the Florida Department of Corrections (FDOC) as satisfying some of the Basic Recruit Training objectives for Correctional Probation Officers (CPO). This certificate program consists of 21 semester hours comprised of the following courses: CCJ 3024 (3) CCJ 4282 (3) CCJ 4316 (3) CCJ 4331 (3) CCJ 4341 (3) CCJ 4306 (3) and CCJ 4940 (3). Students must receive approval from the department prior to starting their coursework within this certification program. The program is open to all USF students including Criminology majors and minors as well as to persons who have already received their baccalaureate degrees. All of the required coursework within this certification program must be taken at USF and all additional training requirements must be taken at an FCJSTC approved program in order to qualify as a Florida Correction Probation Officer. Students working toward corrections certification are also subject to the Department's "2 D" rule.

• **Requirement for a Minor in Criminology:**

The Department of Criminology offers a minor in Criminology. The minor consists of three required courses (CCJ 3024, 3204, and 3610) totalling 9 credit hours, and the selection of two of the following 3 hour courses (CCJ 4110, 4273, 4306, 4501) for a total of 15 semester hours. Students must receive approval from the Department prior to starting their minor work. A minimum of 9 semester hours must be completed at USF. Students minoring in Criminology are subject to the Department's "2 D" Rule.

• **Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

There are no State Mandated Common Prerequisites for this degree program.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students are encouraged to take the community college Criminology or Criminal Justice programs. Because courses in these programs will not substitute for the USF major requirements listed below, these students should be aware of and look forward to revisiting many of the content areas at the junior and senior levels at USF.

Suggested Electives:

ACG 2001	Accounting I	3
ACG 2011	Accounting II	3
AFA 2001	Introduction to the Black Experience	3
POS 1001	Introduction to Political Science	3
POS 2041	American National Government	3
POS 2112	State and Local Government	3
PSY 2012	Introduction to Psychology	3
SYG 2000	Introduction to Sociology	3

■ **ECONOMICS (ECN)**

Economics offers a clear and logical way of thinking about complicated issues such as unemployment, inflation, pollution, and crime. The department offers broad course choices allowing students to tailor their programs to provide training for professional careers in business, teaching, government, and law. Students interested in majoring or minoring in economics should contact the undergraduate academic advisor in the Economics Department for more information. The Department also offers a minor in economics.

• **Requirements for the Major in Economics:**

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

ECO 2013	Economic Principles: Macroeconomics	(3)
ECO 2023	Economic Principles: Microeconomics	(3)
ECO 3101	Intermediate Price Theory	(3)
ECO 3203	Intermediate Income & Monetary Analysis	(3)
ECO 4935	Economic Statistics	(3)
	or QMB 3200 Business and Economics Statistics II	(3)
	Economics electives numbered 3000 or higher	(18)

ECO 3100, Managerial Economics, may be substituted for ECO 3101. Either ECO 1000 (if taken before both ECO 2013 and ECO 2023) or QMB 2150 (if taken as a prerequisite to QMB 3200) may be substituted for a maximum of 3 hours of upper level elective credit. Students must obtain a grade of "C" or higher in ECO 3101 or ECO 3100 in order to enroll in any course for which ECO 3101, ECO 3100 or ECO 3203 is a prerequisite. At least 9 of the 15 hours of upper level economics electives must be in courses for which either ECO 3101, ECO 3100 or ECO 3203 is a prerequisite. No more than 3 hours credit can be applied toward a major from ECO 4905 and/or ECO 4914. At least 12 hours must be taken in residence at USF. Grades of "C" or better in ECO 2013 and ECO 2023 are required for graduation with a major in Economics. Economics majors working at the regional campuses cannot expect to fulfill all economics course requirements at those campuses.

• **Requirements for the Minor in Economics:**

Students from throughout the University may earn a minor in Economics by satisfactorily completing 18 hours in Economics including:

- ECO 2013 Economic Principles: Macroeconomics (3)
- ECO 2023 Economic Principles: Microeconomics (3)
- Economics electives numbered 3000 or higher (12)

ECO 1000, if taken before both ECO 2013 and ECO 2023, may be substituted for 3 hours of upper level electives. Before being recognized as a minor in economics a student must obtain program approval by the Economics Department Undergraduate Advisor. A grade point average of 2.0 or higher must be achieved in minor course work for certification of the minor for graduation. ECO 4905 and ECO 4914 may not be counted toward the minor. At least 6 hours must be taken in residence at USF.

The Economics Pre-Law Curriculum

Economic principles provide the foundation for much of our legal system. Economics offers a series of courses to provide the abstract and applied skills required by those seeking legal careers.

Beyond ECO 2013 Economic Principles (Macroeconomics) and ECO 2023 Economic Principles (Microeconomics), students should elect ECP 4451 Law and Economics. ECP 3413 Economics of Regulation and Antitrust and ECO 4935 Economics of Crime are strongly recommended. Additional courses of interest are: ECO 4504 Public Finance, ECP 3530 Economics of Health, ECP 3302 Environmental Economics, ECP 3203 Labor Economics, ECP 3201 Economics of Women and Work.

The Economics Pre-Law Curriculum fits easily within the Economics major or minor but is open to other students. The Economics Department Undergraduate Advisor has helpful advice for students taking the Law School Admissions Test or applying for admission to law schools.

• **Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students should complete the following **prerequisite courses** listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

ECO X013 Economic Principles II (Macroeconomics)
and

ECO X023 Economic Principles I (Microeconomics)

or

ECO XXXX Any level economics course, 3 semester hours,
and

ECO XXXX Any level economics course, 3 semester hours
Please be aware of the immunization, foreign language, and continuous enrollment policies of the university.

■ **ENGLISH (ENG)**

Freshman English Requirement

All first-time-in-college students are required to take Freshman English (a sequential two-semester course of study) in accordance with the following conditions:

1. First-time-enrolled students (a) who do not intend to take the CLEP Freshman English Test, or (b) who have been notified of failing CLEP prior to registration and who do not intend to attempt the exam a second time must take ENC 1101 and ENC 1102 sequentially. If a student fails the first course, he/she must repeat it before proceeding to the next Freshman English course. Students should normally take these courses during their freshman year, but these courses are in high demand and it is possible that registration space will not always be available.
2. First-time-enrolled students (a) who have not taken CLEP prior to their arrival on campus, or (b) who have failed but wish to repeat the test, must attempt CLEP during their first nine (9) weeks. During this semester, they should not enroll in ENC 1101. If a student either fails or doesn't attempt the CLEP examination during his/her first nine (9) weeks, the student normally should take ENC 1101 in the following semester. In this case, the student will normally complete the sequence by the first semester of his/her sophomore year. These policies do not apply to first-time-enrolled students who can meet the Freshman English requirement with credit transferred from another institution or with appropriate AP English credit.

• **Requirements for the Major in English:**

The program in English provides options in English and American literature, creative writing, and professional and technical writing. The literature option covers the major periods of English and American literature. The creative writing option includes training in writing and coverage of English and American literature. The professional and technical writing option combines the study of English and American literature with an introduction to writing found in the professional workplace. The English Education program is described under the section for the College of Education. Major requirements for English majors are listed below. A grade of "D" will not be counted toward fulfilling the major requirements. Students may not use more than one Directed Study toward meeting the major requirements.

OPTION I: English and American Literature.

Eleven courses (33 hrs.) as follows:

1. Both of the following:
AML 3031 AML 3032
2. Four of the following:
ENL 3015 ENL 3230 ENL 3251
ENL 3273 ENL 3331 or ENL 3332
3. Five of the following, at least two of which must be at the 4000 level:
AML 3051 AML 3604 AML 4111
AML 4121 AML 4261 AML 4330
ENG 4013 ENG 4060 ENL 3015
ENL 3230 ENL 3251 ENL 3273
ENL 3331 ENL 3332 ENL 4122
ENL 4132 ENL 4171 ENL 4303
ENL 4311 ENL 4338 ENL 4341
LIN 4671 LIN 4680 LIT 3022
LIT 3043 LIT 3073 LIT 3101
LIT 3102 LIT 3144 LIT 3301
LIT 3374 LIT 3410 LIT 3700
LIT 4011 LIT 4930

OPTION II: Creative Writing.

This option is designed for aspiring writers of fiction or poetry. In addition to giving credit for writing through a variety of course offerings, it provides information about procedures for publishing.

1. **FICTION OPTION** (33 hrs.)

All of the following:

CRW 3111 CRW 3112 CRW 3121
CRW 3311 CRW 4120

Note: Except for CRW 3311, the courses above must be taken in sequence. CRW 3311 may be taken at any time after CRW 3111 is completed.

Additional course requirements:

The student must select six literature courses from those listed in OPTION I. Two courses must be from group "1," two more from group "2," and one from group "3." At least two of the courses must have either an ENL or LIT prefix.

2. **POETRY OPTION** (33 hrs.)

All of the following:

CRW 3111 CRW 3311 CRW 3312
CRW 3321 CRW 4320

Note: Except for CRW 3111 the courses above must be taken in sequence. CRW 3111 may be taken at any time after CRW 3311 is completed.

Additional course requirements:

Same as for the Fiction Writing option above.

OPTION III: Professional and Technical Writing.

This 36-hour program allows undergraduates to concentrate their studies in professional writing, wherein they will master special writing skills demanded by industry, business, government, and the professions. Semester-long internships may be arranged by the English Department with local businesses, industries, and professional organizations. Interns will earn three credit hours and, in some cases, receive compensation for their duties.

Students choosing this concentration will also assure themselves of a core of liberal arts studies since they must take 21 credit hours of literature courses in addition to 15 hours of composition courses.

1. **Composition requirements:**

Five of the following:

CRW 2100 ENC 2210 ENC 3213
ENC 3310 ENC 4260 ENC 4311
ENC 4931

2. **Literature requirements:**

The student must select seven literature courses from those listed in OPTION I as follows:

Two courses from group "1," four courses from group "2," and one course from group "3."

• **Requirements for the Minors in English**
English and American Literature Minor (15 hours)

1. **One of the following:**

AML 3031 AML 3032

2. **Two of the following:**

ENL 3015 ENL 3230
ENL 3251 ENL 3273
ENL 3331 or ENL 3332

3. **One course at the 4000 level**4. **One additional 3000- or 4000-level course with AML, CRW, ENC, ENL or LIT prefix****Creative Writing Minor (15 hours)**

1. Either Form and Technique of Fiction (CRW 3111) and Fiction I, II, and III (CRW 3112, 3121, 4120) or Form and Technique of Poetry (CRW 3311) and Poetry I, II, and III (CRW 3312, 3321, 4320).

2. One AML or ENL course at the 3000 or 4000 level.

Professional and Technical Writing Minor (15 hours)

1. ENC 2210
2. ENC 4260
3. One AML or ENL course

4. **Two of the following courses:**

CRW 2100 ENC 3213 ENC 3310
ENC 4311 ENC 4931

• **Program of Study at a Florida Community/ Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A. A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following **prerequisite courses** listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

ENC 1101 Freshman English I
ENC 1102 Freshman English II
or

Six semester hours earned in courses taught in the English Department, each with 6,000 words of evaluated writing for a total of 12,000 words.

Suggested electives:

AMH 2010 American History I	3
AMH 2020 American History II	3
EUH 2021 Medieval History I	3
EUH 2022 Medieval History II	3

■ **ENVIRONMENTAL SCIENCE AND POLICY (EVR)**

The status of the earth's environment has become a major concern since the 1960s. As we proceed into the 21st century, it represents one of the most critical issues facing nearly all nations individually as well as the earth community as a whole. Increased population, technological advances, and diminishing natural resources all play an important role in the changing environment. As a consequence, governments at all levels are devoting resources to help understand the problems that we are facing and to aid in their mitigation. This includes everything from public education to cleaning up toxic waste sites. The environmental industry is a growing arena for employment for degree holders at all levels.

The Bachelor of Science (B.S.) in Environmental Science and Policy degree was approved in summer of 1995. This interdisciplinary program spans multiple colleges within the University but is housed in the College of Arts and Sciences. The program is designed to provide a broad approach to an understanding of the environment and to the various problems associated with human intervention in natural systems. As we move into the next century, it is increasingly necessary that professionals who are employed in any aspect of the environmental industry be versed in a broad spectrum of topics overlapping several traditional disciplines. The curriculum combines principles of natural and social sciences in order to provide students with a wide variety of choices to satisfy the degree requirements. There are several required courses and also a wide selection of electives within the degree curriculum. After completing the core requirements, each student selects either the science track or the policy track for modest concentration. Each of these tracks has a combination of required courses and electives to provide this concentration.

The core is required for all majors. It includes a number of introductory courses and is capped by two courses taken in the last year: a seminar and either a research project or an internship. Students who elect the science track must further declare an option of earth science, life science, or physical science. Students who select the policy track may choose between economics, ethics, planning, or policy for further emphasis.

• **Requirements for the Major in Environmental Science and Policy**

All students majoring in Environmental Science and Policy are required to see the advisor each semester prior to registration for the following term. The availability of elective courses that can be applied to the major changes regularly and all such courses must be approved by the program advisor.

CORE REQUIREMENTS FOR ALL MAJORS (41 hours)

All of the following:

EVR 2001	EVR 2001L	EVR 2861
BSC 2010C	BSC 2011C	CHM 2041
CHM 2045L	CHM 2046	CHM 2046L
PUP 4201	PHI 3640	EVR 4921

one approved statistics course

one approved geology or physics course with lab.

Plus: either EVR 4910 or EVR 4940

Select either the Science or the Policy track.

Science (18-24 hours)

MAC 2233 and MAC 2234 OR MAC 2281 and MAC 2282 OR MAC 2311 and MAC 2312

plus 4 approved science/engineering electives: only one of which may be an introductory course and 3 must be selected from within one of these areas - earth science, life science, or physical science.

Policy (18-22 hours)

ECO 3302 and POS 3697 or CCJ 4260

plus 4 approved policy-related electives: only one of which may be an introductory course and 3 must be selected from within one of these areas - economics, ethics, planning, or policy.

• **Program of Study at a Florida Community/ Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

There are no State Mandated Common Prerequisites for this degree program.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

For Science Concentration only:

MAC 2233 & MAC 2234 Elementary Calculus	4
or	
MAC 2281 & MAC 2282 Engineering Calculus	4
or	
MAC 2311 & MAC 2312 Calculus	3

and

BSC 2010, 2010L & BSC 2011, 2011L
Biology I and II with Lab 8

and

CHM 2041 & CHM 2045L General Chemistry with Lab 4
CHM 2046 & CHM 2046L General Chemistry II
with Lab 4

plus

STA 2023 Statistics 3
One approved Geology or Physics Course with Lab 4

For Policy Concentration:

BSC 2010, 2010L & BSC 2011, 2011L
Biology I and II with Lab 8
CHM 2041 & CHM 2045L General Chemistry with Lab 4
CHM 2046 & CHM 2046L General Chemistry II
with Lab 4

plus

STA 2023 Statistics 3
1 Approved Geology or Physics course with Lab 4

■ **GEOGRAPHY (GPY)**

The degree program in Geography provides options in Environmental Studies, Urban Studies, and General Geography. The Environmental Studies option focuses on major environmental systems including the geosphere, hydrosphere, atmosphere, pedosphere, and biosphere. Particular emphasis is put on the human modification of the natural environment and the global interconnections of the major earth systems. The Urban Studies option focuses on the social and spatial effects of the growth of cities, including issues such as the historical evolution of urban form and function, land-use changes and conflicts, economic restructuring, the growth and decline of inner-cities, and urban racial and ethnic relations. The General Geography option offers instruction in a broad range of topics in geography, including both physical and human processes.

• **Requirements for the Major in Geography**

A major in geography consists of 37 credit hours as follows:

Required core courses (21 credit hours):

GEO 3013 (4) GEO 4100C (4) GEO 4933 (1)
GEO 3402 (4) GEO 4114C (4) or GEO 4164 (4)
Plus one course with a GEA prefix (4)

Supporting Courses (16 credit hours): Students may select Option 1 (Environmental), Option 2 (Urban), or Option 3 (General).

Option 1: Environmental Studies

In addition to required Geography core courses, students in Option 1 select:

Required: GEO 4372 (4) and

Two of the following (8 credit hours):

MET 4002 (4) GEO 4201C (4) GEO 4280C (4)
MET 4010C (4) GEO 4210 (4) GEO 4340 (4)

Any additional 4 credit hours in Geography excluding:

GEO 3901 GEO 4900 GEO 1930
GEO 3931C GEO 4910

Option 2: Urban Studies

In addition to required Geography core courses, students in Option 2 select:

Required: GEO 3602 (4) and

Two of the following (8 credit hours):

URP 4052 (4) GEO 4502 (4) GEO 4604 (4)
GEO 4470 (4) GEO 4700 (4)

Any additional 4 credit hours in Geography excluding:

GEO 3901 GEO 4900 GEO 1930
GEO 3931C GEO 4910

Option 3: General Geography

In addition to required Geography core courses, students in Option 3 select:

One of the following (4 credit hours):

MET 4002 (4) GEO 4210 (4)
MET 4010C (4) GEO 4280C (4)

One of the following (4 credit hours):

GEO 3602 (4)	GEO 4460 (4)	GEO 4604 (4)
GEO 4421 (4)	GEO 4470 (4)	GEO 4700 (4)
GEO 4440 (4)	GEO 4502 (4)	

Any additional 8 credit hours in Geography excluding:

GEO 1930	GEO 3901	GEO 4900
GEO 3931C	GEO 4910	

- **Requirements for the Minor**

A minor in Geography consists of 16 credit hours, with a minimum grade-point average of 2.0. The required courses are:

GEO 3013 (4) GEO 3402 (4)

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

- **Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete two lower level, introductory courses in Geography prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Students are encouraged to complete the following prerequisites, or major, support, or elective courses if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

Major and Supporting Courses:

GEA 3005	Global Geography
GEO 3013	Introduction to Physical Geography
GEO 3402	Human Geography
GEO 4421	Cultural Geography

And any other geography course offered in the community college A.A.

Electives:

AMH 2010	American History I
AMH 2020	American History II
	World Civilization I, II (EUH Courses)
POS 2041	National Government
POS 2112	State and Local Government
GLY 2100	Geology
BOT 2010	Botany
ANT 2000	Anthropology

■ GEOLOGY (GLY)

The Department of Geology offers programs leading to Bachelor of Arts, Bachelor of Science, Master of Science, and Doctor of Philosophy degrees. 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 has two tracks, the Geology Track and the Environmental Geology Track. Both provide the student with a broad foundation in the basics of the science. The Geology track is designed for the student interested in pursuing graduate studies or employment in

industry and government agencies. The Environmental Geology track is designed for the student interested in the fields of hydrogeology or environmental geology. 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 pursue advanced studies in nearly all areas of geology. As a result of faculty interests and geographic location, several geologic subdisciplines are emphasized, including applied geophysics, carbonate geology, coastal geology, experimental mineral kinetics, geochemistry, hydrogeology, paleontology, and volcanology.

- **Requirements for the Major in Geology (B.A.)**

1. Geology Courses (32 sem. hrs.)

GLY 2010 (3)	GLY 3200 (4)	GLY 4550 (4)
GLY 2010L (1)	GLY 3400C (4)	GLY 4552 (4)
GLY 2100 (3)	GLY 3610 (4)	
GLY 2100L (1)	GLY 4310 (4)	

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

a. CHM 2041 (3)	CHM 2046 (3)
CHM 2045L (1)	CHM 2046L (1)
b. One year of calculus (MAC 2233, 2234 or 2311, 2212 or 2281, 2282)	
c. Two courses in biology or physics selected from:	
BSC 2010C (4)	BOT 2010C (4)
PHY 2053-2053L (4)	PHY 2048-2048L (4)
PHY 2054-2054L (4)	PHY 2049-2049L (4)

3. Liberal Arts Requirements

The student is required to complete the University's Liberal Arts Requirements.

4. Free Electives

Courses over and above required courses should be taken to complete a 120-hour program.

5. D and F grades earned in attempting to satisfy major requirements will be used in calculating the major GPA.

- **Requirements for the Major in Geology (B.S.)**

1. Geology Courses (32 sem. hrs.)

GLY 2010 (3)	GLY 3200 (4)	GLY 4552 (4)
GLY 2010L (1)	GLY 3400C (4)	GLY 4550 (4)
GLY 2100 (3)	GLY 3610 (4)	
GLY 2100L (1)	GLY 4310 (4)	

2. Geology Track or Environmental Geology Track (6-8 sem. hrs.)

a. The Geology track has a field geology requirement: A minimum six-week, six-hour field course, approved by the geology advisor.

b. The Environmental Geology track requires:
GLY 4822 (4)
and GLY 4700 (4) or GEO 4210 (4)

3. Supporting Courses (22-24 sem. hrs.)

CHM 2041 (3)	CHM 2046 (3)
CHM 2045L (1)	CHM 2046L (1)
MAC 2281 (3)	MAC 2311 (4)
MAC 2282 (3)	MAC 2312 (4)
PHY 2048 (3)	PHY 2049 (3)
PHY 2048L (1)	PHY 2049L (1)

4. Liberal Arts Requirements

The student is required to complete the University's Liberal Arts Requirements.

5. Free Electives 19-25 sem. hrs.

The student will choose, in consultation with his/her Geology adviser, such courses in the 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 students anticipating a major in Geology are advised to enroll in:

GLY 2010 GLY 2100 CHM 2041 CHM 2046
GLY 2010L GLY 2100L CHM 2045L CHM 2046L
in the freshman year and to seek curriculum counseling with a Geology advisor.

6. D and F grades earned in attempting to satisfy major requirements will be used in calculating the major GPA.

Geology Honors Program

The purpose of the Honors Program is to provide a select group of undergraduate Geology majors an opportunity to undertake an intensive, individualized research experience. The culmination of the program is the completion and presentation of an honor's thesis. To apply, interested students should contact the Geology undergraduate advisor during the second semester of the student's junior year. Admission to the program requires a GPA of 3.5 in the major and an overall GPA of 3.2.

• Requirements for the Minor in Geology

A minor in geology consists of 16 credit hours and must include GLY 2010, GLY 2010L and GLY 2100, GLY 2100L. Additional courses, approved by the geology advisor, are designed to complement the student's major program. Only those courses which are acceptable toward the major in geology may be used toward the minor.

Teacher Education Programs

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

• Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following **prerequisite courses** listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

CHM 1045/1045L General Chemistry I (with lab) **or** CHM 1040 & CHM 1041 **or** CHM 1045C **or** CHM 1045E

CHM 1046/1046L General Chemistry II (with lab) **or** CHM 1046C **or** CHM 1046E

GLY 2010C Introduction to Physical Geology
GLY 2100 History of the Earth and Life **or** other GLY course

MAC 2311 Calculus I
PHY 2048C General Physics and Laboratory I **or** PHY 2048/2048L

PHY 2049C General Physics and Laboratory II **or** PHY 2049/2049L

PHY 2053C Physics
PHY 2054C Physics

The choice physics sequence depends on the area of geology specialization.

■ GERONTOLOGY (GEY)

Gerontology is the study of the process of human aging in all its many aspects: physical, psychological, and social. In the Department of Gerontology particular emphasis is placed upon applied gerontology, with the goal of educating students who in their professional careers will work to sustain or improve the quality of life of older persons. Since Gerontology is an interdisciplinary field, dual majors with other departments are encouraged. The Department offers the degrees of Bachelor of Arts in Gerontology, Bachelor of Science in Gerontology, a minor in Gerontology, and Master of Arts in Gerontology. The Department of Gerontology also hosts the University-wide Ph.D. in Aging Studies.

• Requirements for the Major in Gerontology (B.A.)

The Bachelor of Arts Degree in Gerontology entails 37 semester hours of required course work. In this program the course of study is intended to provide students with a liberal education in gerontology and some exposure to the various career opportunities in the field of aging. This degree is especially appropriate for students who plan to pursue graduate or professional work in gerontology, or some other field, or who plan to work with older adults in careers other than Nursing Home Administration.

Required Courses:

GEY 3000 (3)	HUS 4020 (4)	GEY 4640 (3)
HUS 3001 (3)	GEY 4327 (3)	GEY 4935 (3)
GEY 3601 (3)	GEY 4360 (3)	GEY 4945 (6)
GEY 3625 (3)	GEY 4401 (3)	

A required prerequisite is STA 3122.

B.A. students may, upon approval of the departmental advisor, arrange to complete the B.A. internship (GEY 4945) half-time over two semesters, or to substitute 6 hours of GEY electives for the internship. The departmental advisor will also consider other requests for course substitution as long as the 37 semester hours in Gerontology are attained.

• Requirements for the Major in Gerontology (B.S.)

The Bachelor of Science Degree in Gerontology is a 39 semester hour specialist degree which, in addition to providing students with a basic education in gerontology, is intended to prepare them for entry level positions in Nursing Home Administration. It is especially appropriate for students who intend to begin working immediately following completion of the degree program.

Required courses:

BUL 3320 (3)	GEY 4329 (3)	MAN 3025 (3)
GEY 3601 (3)	GEY 4360 (3)	MAN 3240 (3)
GEY 4327 (3)	GEY 4640 (3)	MAN 3301 (3)
GEY 4328 (3)	GEY 4945 (9)	

Students also complete the following twelve (12) hours of prerequisites: ACG 2021, ACG 2071, CGS 2000, and GEY 3000.

These courses are intended to reflect educational requirements mandated by the State of Florida and specified in Chapter 21z.11 of the Florida Administrative Code.

Students in the B.S. program should understand that they will only be allowed to register for the full-time internship (GEY 4945) after successful completion of all (or all but one) of the required courses in the B.S. major. Because the B.S. internship requires full-time effort, students will be allowed to take no more than four (4) credits concurrent with the B.S. internship.

The gerontology prerequisite can only be satisfied by a student's having taken GEY 3000 at this university or its equivalent at another institution. The prerequisites of accounting can be fulfilled by taking ACG 2021 and ACG 2071 at this university or comparable work at another institution.

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

- **Requirements for the Minor in Gerontology**

An undergraduate minor in Gerontology is available for students interested in pursuing careers in conjunction with any undergraduate major, but it should be particularly beneficial to persons majoring in such disciplines as anthropology, communication sciences and disorders, government and international affairs, nursing, psychology, health care, social work, and sociology. Requirements for the minor in Gerontology are a total of 16 hours of the following upper-level courses:

GEY 3000 (3) GUY 3625 (3) HUS 4020 (4)
 GEY 3601 (3) GUY 4360 (3)

- **Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

For those seeking the Bachelor of **Science** degree, students complete the **prerequisite courses** listed below prior to be admitted to the upper-division major. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

ACG X021 Financial Accounting **or** ACG X001
 ACG X071 Managerial Accounting **or** ACG X011 **or**
 ACG X630

CSG X000 Computers in Business **or** EME X402, COC
 X317, CSG X101, X361, X001, **or** X060

GEY X000 Introduction to Gerontology

For those seeking the Bachelor of **Arts** degree, students should complete STA X122 (Social Science Statistics) at the lower level prior to entering the University. If this course is not taken at the community college, it must be completed before the degree is granted. A grade of "C" is the minimum acceptable grade. Acceptable substitutes for STA X122 are: QMB 2150 or QMB X100, STA 2022, X013, X014, X040, X023, or X024. There are no other common prerequisites for the Gerontology program leading to the Bachelor of **Arts** degree.

■ GOVERNMENT & INTERNATIONAL AFFAIRS (INT/POL/PAD)

The Department of Government and International Affairs includes programs in International Studies, Political Science, and Public Administration. Its goal is to provide students the opportunity to study the nature of government, politics and administration at the local, national and international levels, as well as the interdisciplinary nature of the international system. Towards that end it offers students a choice of two undergraduate degrees, one in International Studies and another in Political Science. The Department of Government and International Affairs provides students with a range of courses of study and areas of concentration, including electives offered through the Public Administration program. For more specific details students are advised to consult the description of each specific program below.

INTERNATIONAL STUDIES (INT)

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

- **Requirements for the Major in International Studies**

The major consists of a minimum of 37 semester hours. At least 18 of these hours (six courses) must be from the International Studies Program offerings. The six required courses are:

INR 3003 (3) INR 3081 (3) INR 3038 (3) INR 4936 (3)
 plus one topical and one area studies course chosen from the INT upper division electives. It is recommended that the student complete INR 3003 before taking INR 3081.

The additional 19 hours may be selected from course offerings of other departments, which are approved by the major adviser as having adequate international or cross-cultural content. Students may also take upper level electives from the International Studies curriculum.

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

Required Supporting Courses

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

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

- **Requirements for the Minor in International Studies**

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

INR 3003 (3) INR 3081 (3) INR 3038 (3)
 and 3 upper level courses chosen from the International Studies Program's offerings. Each student's program must be planned with the International Studies Program major advisor, who is empowered to approve appropriate substitutions when educationally justified.

- **Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the

university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete two lower level introductory courses in International Relations prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. A grade of "C" is the minimum acceptable grade. Students are encouraged to complete the following prerequisites, or major, support, or elective courses if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses.

AMH 2010 American History I	3
AMH 2020 American History II	3
ANT 2000 Introduction to Anthropology	3
ECO 2013 Principles of Economics I	3
ECO 2023 Principles of Economics II	3
Foreign Language	11
GEA 3000 World Geography	4
POS 2041 American National Government	3
Western or World Civilization I, II	6
Courses to improve writing & speaking skills	

POLITICAL SCIENCE (POL)

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

• Requirements for the Major in Political Science

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

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

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

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

Required Core Courses (12 cr. hrs.)

CPO 2002 (3) or INR 2002 (3)	
POS 2041 (3)	POT 3003 (3) POS 3713 (3)

Note that either CPO 2002 or INR 2002 must be taken as a core course. However, the other course not taken as a core course may be taken as an elective.

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

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

Field I	Political Theory		
	POT 3013 (3)	POT 4064 (3)	POT 5626 (3)
	POT 4054 (3)	POT 4204 (3)	
Field II	Comparative Government and Politics		
	CPO 4034 (3)	CPO 4930 (3)	CPO 5934 (3)
Field III	International Relations		
	INR 3102 (3)	INR 3370 (3)	INR 4403 (3)
	INR 3038 (3)	INR 4035 (3)	INR 4502 (3)
	INR 3336 (3)	INR 4254 (3)	INR 4334 (3)
	INR 5086 (3)		
Field IV	American National and State Governments		
	POS 2080 (3)	POS 3273 (3)	POS 4413 (3)
	POS 2112 (3)	POS 3453 (3)	POS 4424 (3)
	POS 3173 (3)	POS 4204 (3)	POS 5094 (3)
	POS 3182 (3)	PUP 4323 (3)	
Field V	Urban Government and Politics		
	POS 3142 (3)	POS 4165 (3)	URP 4050 (3)
	POS 3145 (3)	POS 5155 (3)	PUP 4534 (3)
Field VI	Public Policy		
	INR 3102 (3)	INR 4334 (3)	POS 3145 (3)
	PUP 4002 (3)	PUP 4007 (3)	PUP 4203 (3)
	PUP 4323 (3)	PUP 4534 (3)	PUP 5607 (3)
	URP 4050 (3)		
Field VII	Law and Politics		
	INR 4403 (3)	POS 3691 (3)	POS 4624 (3)
	POS 3283 (3)	POS 4614 (3)	POS 4693 (3)

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

PAD 3003 (3)	POS 4936 (3)	PAD 4204 (3)
POS 4941 (3-15)	POS 4905 (1-3)	POS 4970 (3)
POS 4910 (1-3)	POS 3931 (3)	POT 4109 (3)
POT 4661 (3)	POT 4936 (3)	

• Requirements for the Minor in Political Science

A minor in political science consists of a minimum of 18 credit hours, made up of two courses (6 credit hours) from among CPO 2002 (or INR 2002), POS 2041, and POT 3003. An additional 12 credit hours in regularly scheduled political science courses are required.

Students transferring credit hours toward a minor in political science must complete 12 credit hours within the Department, regardless of the number of credit hours transferred, in order to be certified for a minor.

Field Work

The Department of Political Science has a field work program which provides students with part-time internships with state and local government and with political parties at the state and local level. Academic credit is available for such internships. For further information, contact the Department of Government and International Affairs.

Honors in Political Science

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

record. Students admitted will write an honors thesis, POS 4970 (3).

• **Program of Study at a Florida Community/ Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students should complete any two introductory courses with a POS, INR or CPO prefix (ideally POS 1041 or POS 2041, and POS 1112 or POS 2112) at the lower level prior to entering the University. If these introductory courses are not taken at the community college, they must be completed before the degree is granted. A grade of "C" is the minimum acceptable grade.

Economics (any ECO)	6
ENC 1101 English I--Essay Writing	3
ENC 1102 English II--Essay Writing	3
Foreign Language I	4
Foreign Language II	4
Geography (any GEO)	3
History (any AMH or EUH)	6
POS 2112 State and Local Government	3
Psychology (any PSY)	3
Sociology (any SOC)	3
SPC 2600 Public Speaking	3

Requirements for the Pre-Law Plan in Political Science

The area 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. Majors are guided to those courses which develop skills and provide information needed for good performance in the study of law. Students receive 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 Political Science's pre-law advisor.

Prior to admission to law school, a student must take the Law School Admission Test (LSAT). This test is given by the Educational Testing Service of Princeton, New Jersey.

The Law School Admission Test is given simultaneously several times each year at the University of South Florida and numerous other testing centers throughout the state. Students should plan to take the test at least one year prior to planned enrollment in law school. Additional information is available from the Department of Government and International Affairs, 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's degree in an arena of personal choice. It is generally agreed that knowledge and understanding of the political, economic, and social context within which legal problems arise facilitate a career in law.)

• **Program of Study at a Florida Community/ Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

There are no State Mandated Common Prerequisites for this degree program.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students are encouraged to complete the following prerequisites, or major, support, or elective courses if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

AMH 2010 American History I	3
AMH 2020 American History II	3
ENC 3310 English--Essay Writing	3
EUH 1000 World Civilization I	3
EUH 1101 World Civilization II	3
POS 2112 State and Local Government	3
SPC 2600 Public Speaking	3

International Affairs Focus in Political Science

The area of Political Science offers a number of courses that prepare students for graduate study in International Relations and career opportunities in private or public transnational organizations.

Basic courses in the area include:

INR 2002 Introduction to International Relations
CPO 2002 Introduction to Comparative Politics
INR 3102 American Foreign Policy

In addition, Political Science offers the following upper-level courses:

CPO 4034 Politics of Developing Areas
CPO 4930 Comparative Politics of Selected Areas
INR 4334 Defense Policy
INR 4035 International Political Economy
INR 4403 International Law
INR 4502 International Organizations
CPO 5934 Selected Topics in Comparative Politics
INR 5086 Issues in International Relations

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

PUBLIC ADMINISTRATION (PAD)

The Public Administration Program offers courses which serve as electives for undergraduate students. Completion of these courses will benefit those students preparing for a career in local, state, or federal agencies of government, non-profit organizations, and special service districts and/or graduate work in public administration and related fields. The courses listed below may be taken for undergraduate credit. Please note that the 5000-level courses listed are available to seniors and graduate students only.

PAD 3003 Introduction to Public Administration
PAD 4204 Public Financial Administration
PAD 5035 Issues in Public Administration and Public Policy
PAD 5333 Concepts and Issues in Public Planning
PAD 5605 Administrative Law
PAD 5612 Administrative Regulation
PAD 5700 Research Methods in Public Administration
PAD 5807 Administration of Urban Affairs
PAD 5836 Comparative Public Administration

For further information, please contact the Public Administration Program.

■ **HISTORY (HTY)**

The discipline of history embraces a world of ideas, peoples, and events. Our faculty seek to inform and question, to provoke, and to challenge our students to a higher level of understanding of the past. History at South Florida offers the student an opportunity to explore civilizations from around the globe and from the ancient through contemporary eras. We

encourage diversification. Our faculty endeavors to move students beyond traditional memorization of material to a critical level of thinking, analysis, and synthesis.

• Requirements for the Major in History

A minimum of 32 semester hours is required for a major in history. Twelve hours of 2000 level courses, or their equivalent, constitute the lower level requirements. At least 12 hours of course work must be drawn from the 3000-4000 level in addition to HIS 4104 and 4936, which constitute the upper level requirements for the degree. A minimum grade of "C" or better must be attained in each course counted for the 32 hours of history. Grades of "D" or "F" in history coursework will, however, be used in calculating the major GPA unless the course is retaken under the grade forgiveness policy. It is recommended that history majors take ENC 3310, "Advanced Expository Writing," SPC 2023, "Fundamentals of Speech Communication," LIS 2001, "Information Resources and Library Research," CGS 2080 and CGS 3060 (computer service courses), and additional hours drawn from the following disciplines: Africana Studies, American Studies, Anthropology, Economics, Geography, Government and International Affairs, Psychology, Philosophy, Sociology, Women's Studies, 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. Open University courses are not eligible for major field credit.

• Requirements for the Minor

The minor in History entails a 15-hour program organized and contracted by the student and the department around the specific needs of the student's major program. 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 advisor as early in their undergraduate program as possible. Open University courses are not eligible for minor field credit.

• Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete two lower level introductory courses in History prior to entering the University. Students are encouraged to complete the following prerequisites, or major, support, or elective courses if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

Western or World Civilization I, II
 American History I, II
 Latin American History I, II
 English--Essay Writing, Foreign Languages, Anthropology, Geography, Economics, Political Science, Philosophy, Literature, Humanities, Sociology, Black Studies.

■ HUMANITIES & AMERICAN STUDIES (HUM/AMS)

The Department of Humanities and American Studies offers students a choice of two undergraduate degrees, one in Humanities and one in American Studies. Students may also minor in each area. For more specific details, students are advised to consult the description of each specific program below.

HUMANITIES (HUM)

The Humanities Program is an interdisciplinary curriculum that deals with the visual arts, music, literature and the culture from which they emerge. Secondary sources are used sparingly; students are encouraged to make a vigorous, personal response to specific works of art, literature, and music.

• Requirements for the Major in Humanities

The curriculum for the Humanities major comprises interdisciplinary courses in the verbal, visual and musical arts of specified periods and cultures. Course requirements are as follows:

1. 28 credits of Humanities courses. Not over 2 courses or eight of these 28 credits may be taken below the 3000-level.
2. Humanities 4931, Seminar in Humanities, four credit hours.
3. Two or more classes in the creative or performing arts, either lower or upper level, totaling at least four semester hours.
4. Majors must earn a "C" or better in all Humanities courses.

• Requirements for the Minor in Humanities

The curriculum for the Humanities minor is comparable to that of the program for the B.A. degree, but it is less comprehensive. Course requirements are as follows:

1. Eighteen semester hours of Humanities courses.
2. Not over eight of these eighteen hours may be taken below the 3000 level.

• Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

There are no State Mandated Common Prerequisites for this degree program.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

ENC 1101 English I	3
ENC 1102 English II	3
Humanities (HUM 2000-level courses)	6
Imaginative Writing courses (CRW courses)	3-6
Introductory courses in applied and non-applied Fine Arts (ART, MUS)	6
Literature in Translation (RUT, CLT courses)	3-6
Social Science (AMH, EUH courses)	6

AMERICAN STUDIES (AMS)

The American Studies major is designed for students who seek to understand the cultural patterns, beliefs and values that have unified and sometimes divided Americans. American Studies is an interdisciplinary program which emphasizes the diversity of American people and institutions; the importance of gender, race, ethnicity and social class; the material and technological foundations of American society; the development of distinctive regions within the United States; and creative expression in art, architecture, film, literature, music and photography.

• **Requirements for the Major in American Studies**

36 credit hours, including AMS 3001, AMS 3210, AMS 4935, AMS 4936, either AMS 3201 or AMS 3230, a minimum of 8 additional credit hours in other AMS courses and a minimum of 8 additional elective hours selected from AMS and/or related disciplines in consultation with the Undergraduate Director.

• **Requirements for the Minor in American Studies**

18 credit hours, including AMS 3001 and a minimum of 8 credit hours of other AMS courses plus a minimum of 6 additional elective hours selected from AMS and/or related disciplines in consultation with the Undergraduate Director.

• **Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

There are no State Mandated Common Prerequisites for this degree program.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students are encouraged to complete the following prerequisites, or major, support, or elective courses if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

AMH 2010 American History I	3
AMH 2020 American History II	3
ENC 1101 English I	3
ENC 1102 English II	3
ISS 2221 International Relations	3
POS 2041 American National Government	3

■ **INTERDISCIPLINARY NATURAL SCIENCES (INB/INC/ING/INL/INM/INP)**

The Bachelor of Arts in the Interdisciplinary Natural Sciences major is designed for majors seeking a broad program in the natural sciences and for majors in Science Education and Mathematics Education. Concentrations exist in Interdisciplinary Natural Sciences-Biology (INB), Interdisciplinary Natural Sciences-Chemistry (INC), Interdisciplinary Natural Sciences - Clinical Laboratory Sciences (INL), Interdisciplinary Natural Sciences-Geology (ING), Interdisciplinary Natural Sciences-Mathematics (INM), and Interdisciplinary Natural Sciences-Physics (INP). For information on teacher certification

in science or mathematics, prospective teachers should consult the section entitled Teacher Education Programs, and also consult the College of Education section of the catalog.

The requirements for graduation for this degree are the same as those contained in Arts and Sciences General Requirements for Degree except for the following:

1a. For Science Education and Mathematics Education Majors, only completion of a major consisting of a minimum of 45 hours in natural sciences courses applicable to majors in the natural sciences. In these emphases, 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 selected from natural science courses. 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 Biology (INB), Chemistry (INC), Geology (ING), Mathematics (INM), and Physics (INP) concentrations, 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 of the following departments:

BSC 2010C (4)	BSC 2011C (4)
CHM 2041 (3)	CHM 2046(3)
CHM 2045L (1)	CHM 2046L(1)
MAC 2233(4)	MAC 2311(4)
MAC 2234(4)	MAC 2312(4)
	MAC 2281(3)
	MAC 2282 (3)

PHY 2053 (3)	PHY 2048 (3)
PHY 2053L (1)	PHY 2048L (1)
PHY 2054 (3)	PHY 2049 (3)
PHY 2054L (1)	PHY 2049L (1)
GLY 2010 (3)	GLY 2010L (1)
GLY 2100 (3)	GLY 2100L (1)

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

Unstructured courses are not counted to fulfill the major requirements.

1c. The Clinical Laboratory Sciences emphasis is designed to prepare students for application to a clinical program in Medical Technology or Cytology following graduation or employment in a laboratory. Students planning to apply to clinical programs in Medical Technology need to include a course in Immunology. Students contemplating graduate study should pursue a major in the discipline of their interest, such as Biology, Chemistry, or Microbiology. For the Clinical Laboratory Sciences emphasis, completion of a minimum of 54 credit hours in natural sciences with a "C" or higher in each major and supporting course.

Supporting Courses:

BSC 2010, 2010L (3,1)	BSC 2011, 2011L (3,1)
CHM 2041, 2045L (3,1)	CHM 2046, 2046L (3,1)
MAC 2233 (4)	STA 2023 (4)

Major Courses:

BCH 3023 or CHS 4300 (3)	
CHM 2210, 2210L (3,2)	CHM 2211, 2211L (3,2)
MCB 3030C (4)	

Two (2) Biology major electives including at least one with lab (min. 6 hours)

Select from the following list noting prerequisites where applicable:

BOT 4434C	MCB 4115
MCB 4404, 4404L	PCB 3023, 3023L
PCB 3063, 3063L	PCB 4064C
PCB 5115C	PCB 5235
ZOO 4753C	

Majors sciences electives in Biology, Chemistry, or Physics to total minimum of 54 hours. Select from the following list, noting prerequisites where applicable, and not duplicating courses used to meet the above requirements:

BCH 3023	BCH 3023L	BCH 4034
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BOT 4434C	CHM 3120C	CHM 4060
CHS 4100C	CHS 4300	CHS 4301L
MCB 4115C	MCB 4404	MCB 4404L
MCB 4502C	MCB 5206	MCB 5815
PCB 3023	PCB 3023L	PCB 3063
PCB 3063L	PCB 4064C	PCB 4723
PCB 4723L	PCB 5235	PCB 5525
PHY 2053	PHY 2053L	PHY 2054
PHY 2054L	ZOO 4753C	ZOO 5235

NOTE: Transfer students with credit for two semesters of anatomy and physiology with laboratories may substitute these courses for BSC 2011, 2011L.

Computer competency is essential for work in a modern laboratory. Students lacking computer skills should take CGS 2060.

• **Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

There are no State Mandated Common Prerequisites for this degree program.

Students are encouraged to complete the following prerequisites, or major, support, or elective courses if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

One year each, if offered, of:

Biology I (BSC 2010, 2010L) and Biology II (BSC 2011, 2011L)	8
Calculus (MAC 2233 and MAC 2234 or MAC 2311 and MAC 2312)	6 - 8
General Chemistry (CHM 2041, CHM 2045L, and CHM 2046, CHM 2046L)	8
General Physics (PHY 2053, PHY 2053L and PHY 2054, PHY 2054L or PHY 2048, PHY 2048L and PHY 2049, PHY 2049L)	8
Introduction to Physical Geology (GLY 2010, GLY 2010L) and History of the Earth and Life (GLY 2100, GLY 2100L)	8

■ **INTERDISCIPLINARY SOCIAL SCIENCES (ISS)**

This program of study is designed to provide an interdisciplinary integration of the social sciences for students who are interested in a broad educational experience. ISS offers a wide choice of courses, and an opportunity to design a quality program of study geared toward individual needs and interests. Students plan their program in ongoing consultation with the advisor who approves each individual curriculum contract.

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

1. required core courses for the major are ISS 3010, ISS 4935, and STA 2122.
2. the ISS student chooses between two cognate areas and completes twelve hours in each. Twenty available cognates (listed below) range from Africana Studies, to Criminal Justice, Sociology, and Women's Studies. Three special electives--emphasizing cultural diversity--are added.
3. it is suggested that the student work out a program of study at the onset of the junior year, particularly before too many

courses are completed in CAS. No student should assume that courses already completed in CAS will automatically count toward the ISS degree.

4. the completion of 42 approved hours of course work from the College of Arts and Sciences (CAS), with a minimum of 30 hours at the 3000 or above level.
5. students must maintain a minimum grade point average of 2.0 in ISS to graduate.
6. other personal curricula may be tailored for those highly motivated students, with a minimum grade point average of 3.2, developed with the approval of the advisor. This course of study will be directed toward the special educational interests of these students. An in-depth Honors Research Paper will be required of students taking this option.
7. students in Communications Sciences and Disorders major in ISS with an emphasis in (a) Speech and Hearing Science, (b) Interpreter Training for the Deaf, or (c) American Sign Language. Advising for this concentration is handled at the Communication Sciences and Disorders Department.

No transfer courses with grades of "D" are acceptable for credit in the ISS major.

COGNATE AREAS - you select two areas, and take 12 hours in each. Cognates must be selected from the areas of study listed below:

AFA, ANT, CCJ, ECN, EVR, GEY, GPY, HTY, HUM, HUS, INT, ISA, ISH, LAS, PAD, POL, PSY, SOC, SOW, and WST.

Interdisciplinary Core Courses

Two of these courses, an introductory course (3010) and the senior seminar (4935), introduce and employ the interdisciplinary social science perspective. These courses involve students in the study of human systems; the various concepts, theories and methods studied in the social sciences; and apply them to the issues of the day. Social Science Statistics is the third core course required for majors in Interdisciplinary Social Sciences.

• **Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

There are no State Mandated Common Prerequisites for this degree program.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students are encouraged to choose from the following courses if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

AFA 2000 Black Experience	3
AMH 2010 or 2020 American History	3
ANT 2000 Introduction to Anthropology	3
CCJ 3020 Introduction to Criminal Justice	3
ECO 2013 Economic Principles (Macroeconomics)	3
ECO 2023 Economic Principles (Microeconomics)	3
GEA 3000 World Geography	4

POS 2041 National Government	3
or	
POS 2112 State and Local Government	3
SYG 2000 Introduction to Sociology	3
WST 3010 Women's Studies	3

Please be aware of the immunization, foreign language, and continuous enrollment policies of the university. This is a non-limited access program with the above courses recommended.

LIBERAL STUDIES (ALA)

The Liberal Studies Degree is conceived to fulfill the intent of the traditional Liberal Arts degree and is offered for students who require a broad academic approach for realization of their conceived academic or pre-professional goals.

For admission to the program, the students must (1) have a minimum of 20 (to a maximum of 80) semester hours, (2) have a minimum overall grade point average of 3.00 at the time of admission, and (3) submit a written proposal explaining the student's special academic circumstances and goals for which this major is appropriate. This proposal must be approved by a faculty committee of three professors (Chair to be selected by the student) to be assembled by the student and the Director in the Dean's Office.

The student must complete the General Education Requirements (and all other university requirements), and a minimum of 4 semesters of one foreign language. The remaining hours will be devoted to interdisciplinary study in the College of Arts and Sciences. Ideally, the 90 hours will include courses in the sciences, letters, and social and behavioral sciences. In the student's last semester, a senior paper must be approved by the faculty committee.

When admitted to the program, the student will formulate, in collaboration with the faculty committee, a program of studies to be pursued toward his/her particular academic goals. For information, contact the Coordinator of Advising in SOC 102.

Program of Study at a Florida Community/ Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

There are no State Mandated Common Prerequisites for this degree program.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

To be admitted to the Liberal Studies program, the student must have a minimum of 20 (to a maximum of 80) semester hours, have a minimum overall GPA of 3.0 at the time of admission, and submit a written proposal explaining the student's special academic circumstances and goals for which this major is appropriate. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

LANGUAGES AND LINGUISTICS

The Division of Languages and Linguistics offers students several undergraduate degrees. Although a baccalaureate degree is not offered in Linguistics, a minor is available to students. Comprehensive information about these programs is listed below.

CLASSICS (CLL, CLS, ICL)

The major programs in Classics are designed to meet the needs of students who desire competence in Latin and/or Greek and a broad understanding of ancient culture and literature. The majors are of particular interest to students who wish to teach the languages, to those who plan graduate study in a humanistic discipline, and to those who want an undergraduate major which focuses on the ancient civilizations which are the cornerstone of the Western tradition.

Requirements for the Major in Classics

Major programs leading to the Bachelor of Arts degree are offered in Classics-Latin, Classics-Latin/Greek, and Interdisciplinary Classics. Major programs in Classics require a minimum of 36 hours of course-work. The minor is offered in Latin, Greek, and Interdisciplinary Classics. The minors consist of a minimum of 22 hours of course-work.

CLASSICS-LATIN

(Basic preparation for the Classics-Latin major: a minimum of two years of high school Latin or LAT 1120 and LAT 1121). LAT 1120 and LAT 1121 may be used to satisfy foreign language requirements but do not count as credit toward the major.

Required courses for the Classics-Latin major

24 hours selected from the following:

LNW 2660 (4)	LNW 4363 (4)	LNW 4634 (4)
LNW 4670 (4)	LNW 4381 (4)	LNW 4644 (4)
LNW 4500 (4)	LNW 4654 (4)	LNW 4930 (4)
LNW 4501 (4)	LNW 4900 (1-4)	

Supporting courses required for the major

12 hours selected from the following:

ARH 4100 (4)	CLT 3102 (3)	EUH 3402 (4)
ARH 4170 (4)	CLT 3370 (3)	EUH 3412 (4)
CLA 3103 (3)	EUH 2011 (3)	EUH 3413 (4)
CLA 3123 (3)	EUH 2012 (3)	PHP 4000 (3)
CLT 3040 (3)	EUH 3401 (4)	PHP 4010 (3)
CLT 3101 (3)		

CLASSICS-LATIN/GREEK

Required courses for the Classics-Latin/Greek major
16 hours in advanced Latin (see Classics-Latin major above) and 8 hours in beginning Classical Greek, GRE 1120, 1121.

Supporting courses required for the Classics-Latin/Greek major

12 hours selected from the list of supporting courses given for the Classics-Latin major above.

Requirements for the Latin minor

16 hours in advanced Latin (see Classics-Latin major above).

Supporting courses required for the Latin minor

8 hours selected from the following:

CLT 3102 (3)	CLT 3370 (3)	EUH 3412 (4)
EUH 3413 (4)		

Requirements for the Greek minor

16 hours in advanced Greek.

Supporting courses required for the Greek minor

8 hours selected from the following:

ARH 4170 (4)	CLA 3103 (3)	CLT 3101 (3)
CLT 3370 (3)	EUH 3401 (4)	EUH 3402 (4)
PHH 3062 (3)	PHP 4000 (3)	PHP 4010 (3)

INTERDISCIPLINARY CLASSICS

1. Basic Preparation
Beginning Latin or Greek or high school equivalent (no major credit)
2. Required Courses
 - a. Two advanced courses in Latin or Greek.
(See Classics-Latin and Classics-Latin/Greek) (8)
 - b. Prehistoric and Ancient Art (ARH 4100) (4)
Greek and Roman Art (ARH 4170) (4)
 - c. History of Philosophy: Ancient & Medieval (PHH 3062) (3)

- Plato (PHP 4000) or Aristotle (PHP 4010) (3)
 - d. Classical Mythology (CLT 3370) (3)
 - e. Two courses from:
 - Ancient History I (EUH 2011) (3)
 - Ancient History II (EUH 2012) (3)
 - Classical Greece (EUH 3401) (4)
 - Age of Alexander (EUH 3402) (4)
 - Roman Republic (EUH 3412) (4)
 - Roman Empire (EUH 3413) (4)
 - f. One course from:
 - Ancient Civilizations (CLA 3000) (4)
 - Greek Civilization (CLA 3103) (3)
 - Roman Civilization (CLA 3123) (3)
 - Egyptian Civilization (CLA 4160) (3)
 - Mesopotamian Civilization (CLA 4171) (3)
 - Greek Literature in Translation (CLT 3101) (3)
 - Roman Literature in Translation (CLT 3102) (3)
 - New Testament Greek I (GRE 2040) (3)
 - New Testament Greek II (GRE 2041) (3)
- (38-41 Hours)

• Requirements for the Interdisciplinary Classics Minor

1. One year of Latin or Greek at the University level. (LAT 1120, LAT 1121, or GRE 1120, GRE 1121) (8)
 2. One course in Art History (4)
 3. One course in Ancient Philosophy (3)
 4. Classical Mythology (3)
 5. One course in Ancient History (3)
- (21 Hours)

HONORS PROGRAM

Admissions Criteria

1. Senior status.
2. Completion of the "core" courses required for a major in the Department with a GPA above 3.5.
3. An overall GPA above 3.0.
4. Two letters of recommendation from Departmental faculty followed by Departmental approval.

Dismissal Procedures

The student must maintain a Departmental GPA of 3.5; must submit the Honors Thesis on time, and must pass the scheduled Departmental Honors Examination. Otherwise, the candidate receives no Honors.

Requirements for Completion of Departmental Honors:

1. Completion of requirements for a major in the Department with a GPA above 3.5 and an overall GPA of 3.0.
2. Acceptance of a Senior Thesis by a committee of faculty members in the Department.
3. Passing the Honors Examination at the end of the senior year.

• Program of Study at a Florida Community/ Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should demonstrate proficiency at the intermediate level within the target language. This may be accomplished by completing 6-12 hours within the language or by demonstrated competency at the intermediate level. If this coursework (or associated competency) is not completed at the community college, it must be completed before the degree is granted. A grade of "C" is the minimum acceptable grade. Students are encouraged to complete the following prerequisites, or major, support, or elective courses if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses.

ENC 1101 English I	3
ENC 1102 English II	3
EUH 2011 Ancient History I	3
EUH 2012 Ancient History II	3
Beginning and Intermediate Basic Preparation for Major (LAT 1120, 1121, or GRE 1120, 1121)	16

LINGUISTICS (LIN)

Linguistics is primarily an upper-level and graduate discipline with strong interdisciplinary concerns. Although no baccalaureate degree is offered, the minor in linguistics may provide a broader educational experience for students majoring in adjacent arts and sciences such as Anthropology, Communication, Communication Sciences and Disorders, English, Foreign Languages, Philosophy, Psychology, Sociology, and others.

• Requirements for the Minor

The minor in Linguistics requires a minimum of 18 semester hours as follows:

LIN 3010 (3)		
plus 15 semester hours from the following:		
ANT 3610 (3)	CLT 3040 (3)	LIN 4600 (3)
LIN 4710 (3)	LIN 3801(3)	SPC 2050 (3)
LIN 4040 (3)	SPC 3210 (3)	

MODERN LANGUAGES (FRE/GER/ITA/RUS/SPA)

Foreign Language major programs are designed to meet the needs of students who desire competency in a language and an expanded understanding of its culture and literature. They are of particular interest to students who wish to teach languages, those who plan to further their studies in graduate school, and those who seek careers in various types of foreign or foreign-related employment, either in government or business.

Major programs leading to the bachelor of arts degree are offered in French, German, Italian, Modern Greek, Russian, and Spanish. All major programs in foreign language require a total of 32 hours of coursework above the intermediate level.

The following languages may also be taken as a minor: French, German, Italian, Latin, Modern Greek, Russian, and Spanish. The minor consists of 15 hours of course work in French and Spanish above the second-year level, and 16 hours in the other languages except for the less commonly taught languages. In order to begin taking courses for the minor, the student will have satisfactorily completed the intermediate level or have equivalent proficiency in the foreign language. Instruction in less commonly taught languages may be available upon sufficient demand.

• French (FRE)

Required courses for the major (15 cr. hrs.)

FRE 3230 (3)	FRW 4100 (3)
FRE 2240 (3)	FRW 4101 (3)
FRE 3420 (3)	

Supporting courses required for the major

17 hours in 3000, 4000, or 5000 level courses planned with the advisor.

Required courses for the minor (6 cr. hrs.)

FRE 2240 (3)	FRE 3420 (3)
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Supporting courses required for the minor

9 hours in 3000, 4000, or 5000 level courses except courses in translation.

- **German (GER)**

Requirements for the major (14 cr. hrs.)

GER 3244 (3) GEW 4100 (4)
 GER 3420 (3) GEW 4101 (4)

Supporting courses required for the major

18 hours in 3000, 4000, or 5000 level courses, including approved courses in related disciplines, planned with the advisor.

Required courses for the minor (6 cr. hrs.)

GER 3244 (3) GER 3420 (3)

Supporting courses required for the minor

10 hours in 3000, 4000, or 5000 level courses except courses in translation.

- **Modern Greek (GRK)**

Required courses for the minor (16 cr. hrs.)

GRK 2200 (4) GRK 4905 (4)
 GRK 2201 (4) GRK 4930 (4)

- **Italian (ITA)**

Required courses for the major (15 cr. hrs.)

ITA 2240 (4) ITW 4100 (4)
 ITA 3420 (3) ITW 4101 (4)

Supporting courses required for the major

17 hours in 3000 or 4000 level courses, including approved courses in related disciplines, planned with the advisor.

Required courses for the minor (7 cr. hrs.)

ITA 2240 (4) ITA 3420 (3)

Supporting courses required for the minor

9 hours in 3000 or 4000 level courses except courses in translation.

- **Russian (RUS)**

Required courses for the major (14 cr. hrs.)

RUS 3240 (4) RUT 3110 (3)
 RUS 4241 (4) RUT 3111 (3)

Supporting courses required for the major

18 hours in 3000 or 4000 level courses planned with the advisor.

Required courses for the minor (8 cr. hrs.)

RUS 3240 (4) RUS 4241 (4)

Supporting courses required for the minor

8 hours in 3000 or 4000 level courses.

- **Spanish (SPA)**

Required courses for the major (15 cr. hrs.)

SPN 3300 (3) SPW 4301 (3)
 SPW 4101 (3) SPW 4131(3)
 SPW 4100 (3)

Supporting courses required for the major:

17 hours in 3000, 4000 or 5000 level courses planned with the advisor.

Required courses for the minor (3 cr. hrs.)

SPN 3300 (3)

Supporting courses required for the minor

12 hours in 3000, 4000 or 5000 level courses except courses in translation.

- **Program of Study at a Florida Community/ Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

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The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should demonstrate proficiency at the intermediate level within the target language. This may be accomplished by completing 6-12 hours within the language or by demonstrated competency at the intermediate level. If this coursework (or associated competency) is not completed at the community college, it must be completed before the degree is granted. Students are encouraged to complete the following prerequisites, or major, support, or elective courses if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

ECN 1101 English I	3
ECN 1102 English II	3
Social Science (any HIS, SOC, ANT, etc.)	6
Humanities (any HUM)	6
Beginning and Intermediate "Target Language" (XXX 1120, 1121, and 2200)	14-19

- **LIBRARY AND INFORMATION SCIENCE (LIS)**

The School of Library and Information Science offers undergraduate classes to meet a wide range of information literacy needs in support of the university's academic programs. The courses provide the understanding and skills needed to access essential information resources in an increasingly information-driven, technological world, whether in support of scholarship in academic disciplines or the occupational demands of society.

Students are able to take a variety of classes that will prepare them to access and assess these information resources. Topics taught in these classes include: using the Internet to answer educational and research needs; designing and creating web pages; efficiently finding and using the information resources of the modern, and increasingly electronic, library. The School also offers the following classes that focus on using library resources in specialized areas: Science Information Sources; Business Information Sources; and Social Science Information Sources.

The School's faculty will counsel those undergraduates interested in graduate study in librarianship. The Library and Information Science Master's program is accredited by the American Library Association, and graduates are prepared for professional positions in all types of libraries, media centers, and information agencies. The Library and Information Science program at the University of South Florida meets the Florida State Board of Education requirements for certification as an Educational Media Specialist (grades K-12).

For more information, visit our web site at <http://www.cas.usf.edu/lis>.

- **MARINE SCIENCE (MSC)**

Although the department does not offer an undergraduate degree, graduate courses in the Department of Marine Science are open to advanced undergraduates in other natural science disciplines. In addition, the Department of Marine Science has recently increased the number of courses specifically geared for undergraduates; consult the Schedule of Classes for course titles currently being offered. Some Department of Marine Science courses are available on all campuses by means of distance learning.

The Department of Marine Science (DMS) at the University of South Florida offers M.S. and Ph.D. degrees in Marine Science. The student may emphasize biological, chemical, geological, or physical oceanography, or develop an interdisciplinary program in Oceanography through course work and thesis or dissertation research. More than 100 students are currently pursuing degrees under the direction of 26 full-time faculty. Study areas range from estuarine and near-shore systems to remote areas of the Pacific, Atlantic and Indian Oceans, as well as the Arctic and Antarctic. Additional information on faculty research and departmental facilities is

available from the department upon request.

The department's location on St. Petersburg's Bayboro Campus allows immediate access to Tampa Bay and the Gulf of Mexico. Bayboro Harbor is home port to the R/V **Bellocs** (71 ft.) and the R/V **Suncoaster** (110 ft.). These vessels are operated by the Florida Institute of Oceanography (FIO) for the entire State University System. The department's principal building is shared with FIO and is adjacent to the Florida Marine Research Institute (FMRI), the research arm of the Florida Department of Environmental Protection. A newly occupied research building is shared by DMS and FMRI and houses a remote-sensing, satellite data-acquisition center. The U.S. Geological Survey (USGS) center for Coastal Geology and Regional Studies, the office of the Tampa Bay National Estuary Program, FMRI, and the Department of Marine Science are all located on the Bayboro Campus. Consequently, St. Petersburg is home to one of the largest concentrations of marine scientists in the southeastern United States; many of these scientists serve on advisory committees of DMS graduate students.

■ MASS COMMUNICATIONS (COM)

The School of Mass Communications, accredited by the Accrediting Council on Education in Journalism and Mass Communications, offers approximately 70 courses varying in content from the highly technical and field-specialized in some cases to an essential liberal arts orientation in others. The program introduces students to the theories, principles, and problems of communications, emphasizing the concept of freedom of information as the cornerstone of Constitutional Democracy and preparing students for future leadership roles in communications media. Graduates should understand the structure and functions of mass media systems as well as the basic processes of communication. In addition, students specialize in an area of mass communications (advertising, journalism, public relations, or telecommunications) to blend a strong introduction to professional skills with the theoretical orientation.

Majors seeking careers in the mass media will be directed to the various media with which the School maintains close contact for summer internships, practica and part-time work. A limited number of students will have the opportunity to serve as interns with a mass communications organization and take MMC 4945 for three hours credit. See MMC 4945 in catalog course listings.

Note: Students may not receive credit for both an internship (MMC 4945) and a practicum (ADV 4940, JOU 3940, JOU 4941, PUR 4700, RTV 3941, RTV 4942, VIC 3943).

• Requirements for the Major in Mass Communications

To be admitted to the core curriculum in Mass Communications, students must have completed 45 hours with a 2.7 minimum Overall Grade Point Average, and ENC 1101 and 1102 with a minimum grade of "C" in each. Applicants must establish a minimum score of 60 percent on the Mass Communications Diagnostic Test prior to entering MMC 2100 (Writing for Mass Media). Both courses in the Mass Communications core curriculum (MMC 2100 and MMC 3602) must be completed with a minimum grade of "C" before any other Mass Communications course may be taken. Students failing to achieve a minimum grade of "C" in both MMC 2100 and MMC 3602 will be disallowed as majors in the School. A 2.5 GPA in Mass Communications courses is required for graduation, and no student may graduate with a grade lower than "C" in any Mass Communications course.

The Mass Communications major requires six hours of core curriculum courses (MMC 2100 and MMC 3602) and 28 hours of a combination of required and selective sequence courses for a total of 34 hours in Mass Communications within the 124-hour degree requirement. Six hours in Mass Communications writing courses (three hours in addition to MMC

2100) are a part of the graduation requirement.

Mass Communications majors are required to take a minimum of 90 hours in courses outside the journalism and mass communications areas, with no fewer than 65 hours in the basic liberal arts and sciences. (Liberal Arts courses are listed in materials available from the School program advisor.) To facilitate this, no more than 34 hours of Mass Communications courses may be applied toward the bachelor's degree within the 124-hour graduation requirement. Mass Communications majors taking more than 34 hours of Mass Communications courses, regardless of the departments in which those courses are listed, must add those hours to the 124 hours required for graduation. In particular, film and photography courses offered in other departments may be considered to be Mass Communications courses and added to the 124-hour degree requirement.

A maximum of nine semester hours in Mass Communications courses will be accepted from a community college or other lower-level program toward a degree in Mass Communications. It is suggested that the nine hours include the equivalent of the School core curriculum and one sequence introduction course. Approval by an appropriate advisor is required.

At least eighteen (18) hours of resident School courses are required.

All material submitted by students as assignments in writing, reporting, editing, photography and electronic news gathering and production classes is subject to publication or broadcast. The School uses a variety of print and electronic media outlets.

Sign Language may be used as an option by Mass Communications majors to fulfill the language requirement.

The School sequence requirements are:

School Core Curriculum

MMC 2100 (3) MMC 3602 (3)

Sequence Requirements

1. ADVERTISING Requirements

ADV 3000 (3) ADV 4800 (3) MMC 4203 (3)
ADV 3101 (3) ADV 4940 (1) MMC 4420 (3)
ADV 3300 (3)

Selective Requirements (9 hrs. required, selected with advisor's approval)

Note: The following courses are required outside the School to complete sequence requirements: ACG 3074, ECO 1000, and MAR 3023. See specific courses for prerequisites.

2. JOURNALISM Requirements

News-Editorial Option
JOU 2100 (3) JOU 4200 (3) JOU 4206 (3)
JOU 3101 (3) MMC 4200 (3) or
JOU 4104 (3) PGY 3610 (3)

Selective Requirements (10 hrs. required, selected with advisor's approval)

Magazine Option

JOU 2100 (3) JOU 4200 (3) MMC 4200 (3)
JOU 3101 (3) MMC 4936 (3) MMC 4420 (3)
JOU 3300 (3)

Selective Requirements (7 hrs. required, selected with advisor's approval)

Note: The following courses are required outside the School to complete sequence requirements: ECO 1000, PHI 1103, POS 2041, and POS 2112 or POS 3142, and SYG 3010. For Magazine sequence, CRW 2100 is also required. See specific courses for prerequisites.

3. PUBLIC RELATIONS Requirements

ADV 3000 (3) PUR 3000 (3) PUR 4100 (3)
JOU 2100 (3) PUR 4001 (3) PUR 4401 (3)
MMC 4420 (3)

Selective Requirements (7 hrs. required, selected with advisor's approval)

Note: The following courses are required outside the School to complete sequence requirements: ECO 1000, MAN 3025, POS 2041, and POS 2112 or POS 3142.

4. TELECOMMUNICATIONS Requirements

News Option

MMC 4200 (3) MMC 4420 (3) RTV 3001 (3)
RTV 3304 (4) RTV 4301 (3)

Selective Requirements (12 hrs. required, selected with advisor's approval)

Programming and Production Option

RTV 3001 (3) RTV 3304 (4) MMC 4200 (3)
RTV 2100 (3) RTV 4220 (3) MMC 4420 (3)
RTV 4500 (3) RTV 4320 (3)

Selective Requirements (3 hrs. required, selected with advisor's approval)

Note: The following courses are required outside the School to complete sequence requirements:

For News: ORI 2000, PHI 1103, POS 2041, POS 2112 or POS 3142, and SPC 2023.

For Programming and Production: CRW 2100 or ENC 3310, and PHI 1103. See specific courses for prerequisites.

Selective Requirements (6 hrs. required, selected with advisor's approval)

Note: Most Mass Communications courses have prerequisites. They are specified in the course description. Refer to each prerequisite listed to determine progressive prerequisites for each course.

• **Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

This is a limited access program. Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete 18 semester hours outside the Mass Communications curriculum at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. A grade of "C" is the minimum acceptable grade. Students are encouraged to complete the following prerequisites, or major, support, or elective courses if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses.

English Composition (minimum grade of "C") 6
MMC 3602 Mass Communications and Society 3

Prior to being admitted to the School of Mass Communications, a student must:

Complete a minimum of 45 semester hours including all General Education requirements and six hours of English composition (with a minimum grade of "C"), earn a 2.7 overall GPA, and pass a School-administered English diagnostic test.

• **Requirements for the Minor in Mass Communications**

The minor in Mass Communications is available to students pursuing any other major at USF. Students who wish to minor must apply for admission to the School of Mass Communications and must meet all admission standards required of majors. Please see "Requirements for the Major in Mass Communications" for more admission information.

The minor in Mass Communications requires a minimum of 18 hours of School coursework, including:

MMC 2100 (3) MMC 3602 (3)

The other 12 hours may be selected from among School offerings and must include a minimum of 9 hours at the 3000-level or higher. All major course prerequisites must be met. A grade of "D" or "F" will not be counted toward a mass communications minor and a 2.5 grade point average in all minor coursework must be maintained. All minor hours must be completed at USF.

■ **MATHEMATICS (MTH)**

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

The Department of Mathematics consists of 31 full-time faculty members, whose areas of interest include: algebra, applied mathematics, approximation theory, celestial mechanics, complex analysis, dynamical systems, functional analysis, graph theory, logic, number theory, ordinary differential equations, partial differential equations, potential theory, probability theory, real analysis, statistics, theoretical computer science, and topology.

• **Requirements for the Major in Mathematics**

The courses taken to satisfy the requirements below will constitute the major program referred to in the general graduation requirements of the College of Arts and Sciences. A minimum of 12 hours of 4000 level or higher mathematics courses must be taken in residency and must be applicable to the major.

1. Mathematics Requirement (Min. 45 cr. hrs.)

Majors must complete the following core courses:

COP 4313	Symbolic Computations in Mathematics	3
MAA 4211	Intermediate Analysis I	4
MAC 2311	Calculus I	4
MAC 2312	Calculus II	4
MAC 2313	Calculus III	4
MAP 2302	Differential Equations	3
MAS 3105	Linear Algebra	3
MAS 4301	Elementary Abstract Algebra	3
MAT 2936	Technology Seminar	1
MAT 4937	Mathematics Majors Seminar	1
MGF 3301	Bridge to Abstract Mathematics	3
STA 4442	Introduction to Probability	3

In addition, majors must complete three (3) courses from the following electives:

CGS 3422	Problem Solving Using Pascal or C	3
MAA 4212	Intermediate Analysis II	3
MAA 4402	Complex Variables	3
MAD 4401	Numerical Analysis	4
MAD 4504	Theory of Computation	3
MAD 5305	Introduction to Graph Theory	3
MAP 5345	Applied Partial Differential Equations	3
MAP 5407	Methods of Applied Mathematics	3
MAS 4124	Numerical Linear Algebra	3
MAS 4156	Vector Calculus	3
MAS 4214	Elementary Number Theory	3
MHF 5405	History of Modern Mathematics	3
MTG 4212	Geometry	4
MTG 4302	Introduction to Topology	3
STA 4321	Introduction to Statistics	3
STA 5166	Computational Statistics	3
STA 5228	Sampling Techniques	3

Special topics courses, listed under MAT 4930, or other 5000-level mathematics courses can also be taken as electives, with the approval of an undergraduate advisor. In addition, one elective of high mathematical content can be taken from another department, with the approval of an undergraduate advisor and the chairman.

An undergraduate advisor will work with the student in recommending electives which are appropriate for the student's interests and goals.

The following is a typical mathematics course program for mathematics majors:

Semester 1		
MAC 2311	Calculus I	4
Semester 2		
MAC 2312	Calculus II	4
MAT 2936	Technology Seminar	1
Semester 3		
MAC 2313	Calculus III	4
MGF 3301	Bridge to Abstract Mathematics	3
Semester 4		
MAP 2302	Differential Equations	3
MAS 3105	Linear Algebra	3
Semester 5		
MAS 4301	Elementary Abstract Algebra	3
COP 4313	Symbolic Computations in Mathematics	3
Semester 6		
STA 4442	Introduction to Probability	3
Elective		3-4
Semester 7		
MAA 4211	Intermediate Analysis I	4
Elective		3-4
Semester 8		
MAT 4937	Mathematics Majors Seminar	1
Elective		3-4

2. Mathematics-related Courses (6-8 cr. hrs.)

Majors, except for majors in mathematics for teaching, must take two courses with laboratories in the Departments of Biology, Chemistry, Geology, or Physics that are required courses for the major within those departments.

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

AST 3033	GEB 3121	STA 2023
GEB 2111	PHY 2020	STA 2122

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

• Requirements for the Minor in Mathematics

The minor in mathematics is open to all students. Students with majors in the sciences, engineering, business, and the social sciences are particularly encouraged to pursue the minor. A student wishing to receive a minor in mathematics must meet the following course requirements (minimum of 24 cr. hrs.):

1. Required Courses (18 cr. hrs.)

Either		
MAC 2311	Calculus I	4
MAC 2312	Calculus II	4
MAC 2313	Calculus III	4
Or		
MAC 2281	Engineering Calculus I	3
MAC 2282	Engineering Calculus II	3
MAC 2283	Engineering Calculus III	3
MAP 2302	Differential Equations	3

Also, both of the following:

MAS 3105	Linear Algebra	3
MGF 3301	Bridge to Abstract Mathematics	3

2. Elective Courses (Min. 6 cr. hrs.)

Any 2 courses (3 or more credit hours each) which are required or elective for the major in mathematics.

• Teacher Education Programs

For information concerning the degree programs for secondary school teachers, see the description given in the Mathematics Education section of this catalog.

• Technical Concentrations

The Department of Mathematics offers specialized technical concentrations within the general Bachelor of Arts degree in mathematics that emphasize a subfield of Environmental Science. These concentrations are more structured than the general B.A. program and require additional study in a related field comparable to earning a minor in that field. This cross disciplinary training prepares the student for a career in Environmental Science. Furthermore, the student is able to pursue graduate work in either mathematics or the related field.

Environmental Biology Concentration

1. Mathematics requirement		
Completion of the mathematics major, including		
STA 4321	Introduction to Statistics	3
2. Supporting courses		
CHM 2041	Introductory General Chemistry	3
CHM 2045L	General Chemistry I Lab	1
CHM 2046	General Chemistry II	3
CHM 2046L	General Chemistry II Lab	1
3. Biology courses		
BSC 2010	Biology I - Cellular Processes	3
BSC 2010L	Biology I - Cellular Processes Lab	1
BSC 2011	Biology II - Diversity	4
BSC 2011L	Biology II - Diversity Lab	1
ZOO 3203C	Invertebrate Zoology	4
PCB 3063	General Genetics	3
PCB 4043C	Principles of Ecology	3
PCB 4674	Organic Evolution	3

Environmental Chemistry Concentration

1. Mathematics requirement		
Completion of the mathematics major, including		
STA 4321	Introduction to Statistics	3
2. Chemistry courses		
CHM 2041	Introductory General Chemistry	3
CHM 2045L	General Chemistry I Lab	1
CHM 2046	General Chemistry II	3
CHM 2046L	General Chemistry II Lab	1
CHM 2200	Organic Chemistry	4
CHM 4410	Physical Chemistry I	3
CHM 4411	Physical Chemistry II	3
And either		
CHM 3120C	Elementary Analytic Chemistry	4
or		
CHM 3610C	Intermediate Inorganic Chemistry	4

Environmental Geology Concentration

1. Mathematics requirement		
Completion of the mathematics major, including		
STA 4321	Introduction to Statistics	3
The student must complete one of the sequences		
MAS 4123	Numerical Linear Algebra	3
MAD 4401	Numerical Analysis	4
or		
MAP 5407	Methods of Applied Mathematics	3
MAP 5345	Applied Partial Differential Equations	3
2. Supporting courses		
PHY 2053	General Physics	3
PHY 2053L	General Physics Lab	1
PHY 2054	General Physics and Lab	3
PHY 2054L	General Physics Lab	1
3. Geology courses		
GLY 2010	Dynamic Earth: Introduction to Physical Geology	3
GLY 2010L	Dynamic Earth Lab	1
GLY 2100	History of the Earth and Life	3
GLY 2100L	Earth History Lab	1

GLY 4822	Introduction to Hydrogeology	4
And either		
GLY 3400C	Structural Geology	4
or		
GLY 5827	Advanced Hydrogeology	4

• **Accelerated BA/MA Program**

This program is designed for superior students having a solid background in high school mathematics and the ability to handle a fast paced, challenging program leading to a BA and MA degree in mathematics in four to five years.

The program meets all the requirements for the BA degree, but requires the students to take those 5000 and 6000 level courses required for the MA degree during the last two years in the program. By awarding up to 20 hours of dual credit (undergraduate and graduate), the student also uses these courses to satisfy the requirements for the MA in mathematics.

For admission to the program, a student must have completed at least 30 hours of college credit including 8 hours of 3000-level or above mathematics courses; have an overall grade point average of 3.0 or above; and have a grade point average of 3.5 or above in all mathematics courses taken at the 3000-level or above. Further information is available on request from the Department of Mathematics (974-2643).

• **Honors Program in Mathematics**

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

Students are eligible for admission to the program when they

1. have completed Elementary Abstract Algebra (MAS 4301),
2. have at least a 3.0 average in all college courses, and
3. have at least a 3.5 average in college mathematics courses.

Applications are submitted to the Undergraduate Committee of the Department of Mathematics.

The requirements for a B.A. degree in mathematics with honors are as follows:

1. completion of requirements for the major in mathematics,
2. six credit hours of graduate mathematics courses at USF,
3. completion of MAT 4970, Mathematics Senior Thesis,
4. at least a 3.0 average for all courses, and
5. at least a 3.5 average for mathematics courses.

• **Program of Study at a Florida Community/ Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured.

A student who transfers without an A.A. degree and has fewer than 60 semester hours of acceptable credit must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following **prerequisite courses** listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

- COP XXXX Computer Language Course
(Pascal, FORTRAN, C, C+, or C++)
- MAC X311 Calculus I

MAC X312 Calculus II
MAC X313 Calculus III
Students must also complete two laboratory-based science courses, 4 - 8 semester hours total, from the respective science majors: Biology, Chemistry, or Physics.

■ **MEDICAL TECHNOLOGY (MET)**

The University of South Florida offers a four-year program leading to the Bachelor of Science degree in Medical Technology. The first three years are completed on campus; the fourth year (12 months) is completed at one of five affiliated hospitals in Florida, located in Tampa, Orlando, Tallahassee, and Jacksonville. Admission to the fourth year is limited by the number of openings in affiliated hospitals, and at the present time is competitive. Selection for the clinical program is made by the hospitals and students not admitted to a clinical program may need to select an alternative degree. Generally hospitals require a minimum GPA of 2.5, and our students admitted to clinical programs in recent years have had a mean GPA of about 3.0.

All courses required for admission to the clinical program must be completed prior to beginning the clinical year. These requirements include:

1. A minimum of 90 semester hours (excluding physical education.)
2. All University Liberal Arts requirements.
3. Writing and computation requirements for 6A- 10.30.
4. All sciences and mathematics requirements listed below, including Common Prerequisites and those specific to USF, with a "C" or higher in each course.

• **Program of Study at a Florida Community/ Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured.

A student who transfers without an A.A. degree and has fewer than 60 semester hours of acceptable credit must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following **prerequisite courses** listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade. They may be completed at a community college or other institution or at USF. Courses available at USF are indicated with an asterisk.

- 1) General Biology I with lab (4)
(e.g. BSC 1010, 1010L; BSC 2010, 2010L*)
 - 2) Human Anatomy and Physiology I with lab (4)
(e.g. BSC 1085, 1085L) **and**
Human Anatomy and Physiology II with lab (4)
(e.g. BSC 1086, 1086L)
- or**
- Human Physiology with lab (4-5)
(e.g. PCB 4703C; BSC 3092*) and one of the following options:
General Biology II with lab (4)
(e.g. BSC 1011, 1011L; BSC 2011, 2011L*)
- or**
- Genetics with lab (4)
(e.g. PCB 3063, 3063L*)
- or**
- Cell Biology with lab (4)

- (e.g. PCB 3023, 3023L*)
- or**
- Human Anatomy with lab (4)
(e.g. BSC 1095, 1095L; ZOO 3733C)
- 3) General Microbiology with lab (4)
(e.g. MCB 2010, 2010L; MCB 3030C*)
- 4) General Chemistry I & II with labs (8)
(e.g. CHM 1045, 1045L, 1046, 1046L;
CHM 2041, 2045L, 2046, 2046L*)
- 5) Organic Chemistry I with lab (4-5)
(e.g. CHM 2210, 2210L*)
- 6) Organic Chemistry II with lab (4-5)
(e.g. CHM 2211, 2211L*)
- or**
- Quantitative Analysis (4)
(e.g. CHM 2120C; CHM 3120C*)
- 7) Statistics (3-4)
(e.g. STA 2023*)

In addition to the Common Prerequisites listed above, the following courses are required for the degree at USF:

- College Algebra (MAC 2102 or MAC 2132) (3)
Determinative Bacteriology (MCB 4115) (5)
Immunology (PCB 5235 or equivalent) (3)
Clinical Chemistry (CHS 4300) (3)

Ability to use computers is essential for work in a modern laboratory. Hospitals recommend elective courses in use of computers and in management.

Upon successful completion of this curriculum and acceptance by one of the affiliated hospitals, the student will complete 12 continuous months of training at that hospital. Hospital programs begin in July or early August each year, and some hospitals also have programs beginning in January or February. During this clinical training, the student 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 4031 MLS 4861 MLS 4863 MLS 4865
MLS 4860 MLS 4862 MLS 4864 MLS 4866

These courses, listed under "Interdisciplinary Arts and Sciences," will be taught at the hospital. A "C" or higher must be earned in each course. Students successfully completing this program will be granted a Bachelor of Science degree in Medical Technology.

■ PHILOSOPHY (PHI)

• Requirements for the Major in Philosophy

Majors in philosophy must complete at least 30 credit hours made up as follows:

- PHH 3062 History of Philosophy: Ancient and Medieval
PHH 3420 History of Philosophy: Modern
- PHI 2100 Introduction to Formal Logic
or
PHI 5135 Symbolic Logic
- PHI 2600 Ethical Theory
- At least one of the following:
PHI 4300 Theory of Knowledge
PHI 5225 Philosophy of Language
PHI 4320 Philosophy of Mind
PHI 3404 Scientific Method
- 6 credit hours of 4000 or 5000 level Philosophy courses
- 9 credit hours of Philosophy electives

• Requirements for the Minor in Philosophy

A minor in philosophy consists of the completion of at least 18 credit hours which includes the following courses or an approved substitute for one only:

- PHH 3062 History of Philosophy: Ancient and Medieval
PHH 3420 History of Philosophy: Modern
PHH 4600 Contemporary Philosophy

or

- PHH 4440 Continental Philosophy

PHI 2100 Introduction to Formal Logic
No credit taken on an "S/U" basis may be applied toward the minor.

Honors Program

The Honors Program in Philosophy allows superior students to pursue philosophical studies at a more advanced level than is customary in undergraduate philosophy programs. Students in the Honors Program will be required to do independent research, to participate in an Honors Seminar, and to write and defend an undergraduate thesis.

Admission Criteria:

- Students must complete
PHI 2100 Introduction to Formal Logic
PHH 3062 History of Philosophy: Ancient and Medieval
PHH 3420 History of Philosophy: Modern
with a grade point average of 3.6.
- Students must have an overall grade point average of 3.0, and their grade point average in Philosophy must be at least 3.5.
- Students must be nominated for admission into the Philosophy program by a faculty member in Philosophy, and a majority of the faculty who have taught the student must approve the student's admission into the program.

Program Requirements:

Students must complete the requirements for the Philosophy major in accordance with the following provisions:

- students must take either PHH 4440 Continental Philosophy or PHH 4600 Contemporary Philosophy
- students must take one course from each of the following groups:

Group 1

- PHI 3404 Scientific Method
PHI 4320 Philosophy of Mind
PHI 4300 Theory of Knowledge
PHI 5225 Philosophy of Language
PHP 4784 Analytical Philosophy

Group 2

- PHI 2600 Ethical Theory
PHI 3601 Contemporary Moral Issues
PHI 3700 Philosophy of Religion
PHI 4800 Aesthetics
PHM 3021 Philosophies of Love and Sex
PHM 3400 Introduction to Philosophy of Law

Group 3

- PHM 3100 Social Philosophy
PHM 4322 Ancient and Medieval Political Philosophy
PHM 4331 Modern Political Philosophy
PHM 4340 Contemporary Political Philosophy
PHP 4788 Philosophy of Marxism

Group 4

- PHH 4700 American Philosophy
PHP 3786 Existentialism
PHP 4000 Plato
PHP 4010 Aristotle
PHP 4410 Kant
PHP 4740 The Rationalists
PHP 4745 Empiricists

- Students must take an Honors Seminar in their senior year.
- Students must write a senior thesis and undergo an oral examination on the thesis before a committee of two faculty members, with the Chair as an *ex officio* member of every such committee.
- Students cannot receive a grade lower than a "B" in any Philosophy course, and their grade point average in Philosophy must be at least a 3.5 to remain, or be graduated from the Philosophy Honors program.
- Students must complete 35 credit hours in Philosophy, including the 3-hour thesis course and the 3-hour Honors Seminar.

• **Program of Study at a Florida Community/ Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

There are no State Mandated Common Prerequisites for this degree program.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

Mathematics (any courses).
Foreign Languages (Beginning and Intermediate German, French, or Latin) (1120-1121 level and 2200-2201 level)
Classics (CLT, CLA for example)

■ **PHYSICS (PHY/PHS)**

The Department of Physics offers programs leading to a Bachelor of Arts or a Bachelor of Science degree, to a Master of Science degree, and to a Ph.D. in Applied Mathematics or Engineering Science with emphasis in Applied Physics. Both thesis and non-thesis programs are available for the M.S. degree. An interdisciplinary arrangement with the Department of Mathematics and with the College of Engineering provides for the Ph.D. opportunity. Students should consult with the Physics Graduate Advisor for details.

• **Requirements for the Majors in Physics**

1. Physics Courses

B.A. PHYSICS (PHY) (34 cr. hrs.)

PHY 2048¹ (3) PHY 3221 (3) PHY 4324C (4)
PHY 2048L¹ (1) PHY 3323C (4) PHY 4823L (2)
PHY 2049¹ (3) PHY 3822L (2) PHY 4910 (1-4)
PHY 2049L¹ (1) PHY 4222 (3) PHY 4930 (1)
Physics Electives (6)

B.S. PHYSICS (PHS) (44 cr. hrs.)

PHY 2048¹ (3) PHY 3323C (4) PHY 4604 (3)
PHY 2048L¹ (1) PHY 3424² (4) PHY 4823L (2)
PHY 2049¹ (3) PHY 3822L (2) PHY 4910 (1-4)
PHY 2049L¹ (1) PHY 4222 (3) PHY 4930 (1)
PHY 3101 (3) PHY 4324C (4) PHZ 5405² (3)
PHY 3221 (3) PHY 4523 (3)

¹The sequence PHZ 2101 (2), PHY 2053 (3), PHY 2053L (1), PHY 2054 (3), and PHY 2054L (1) may be substituted for the sequence indicated.

²Substitutions permitted subject to approval of adviser.

2. Supporting Courses in the Natural Sciences

B.A. and B.S. PHYSICS (20 cr. hrs.)
CHM 2041 (3) CHM 2046L (1) MAC 2313³ (4)
CHM 2045L (1) MAC 2311¹ (4) MAP 2302 (3)
CHM 2046 (3) MAC 2312³ (4)

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

3. Liberal Arts Requirements

[General Education Requirements (36 cr. hrs.); Exit Requirements (9 cr. hrs.)]

The student is required to complete the University's Liberal Arts Requirements.

4. Free Electives

Courses over and above required courses should be taken to complete a 120-hour program.

5. Residency Requirement

A minimum of 20 credit hours of physics courses (1 above) in residency.

6. D and F grades earned in attempting to satisfy major requirements will be used in calculating the major GPA.

Teacher Education Programs

For information concerning the degree programs for secondary school teachers, see Teacher Education Programs this college; for junior college teachers, see USF Graduate Catalog.

• **Program of Study at a Florida Community/ Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following **prerequisite courses** listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

CHM 1045/1045L General Chemistry I (with lab) **or** CHM 1040 & CHM 1041 **or** CHM 1045C **or** CHM 1045E

CHM 1046/1046L General Chemistry II (with lab) **or** CHM 1046C **or** CHM 1046E

Students must complete the **prerequisite courses** listed below prior to be admitted to the upper-division major. Students who do not complete these prerequisites can be admitted to the University, but not to the upper-division major. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

MAC 2311 Calculus I

MAC 2312 Calculus II

MAC 2313 Calculus III

PHY 2048/2048L General Physics I with Lab **or** PHY 2048C

PHY 2049/2049L General Physics II with Lab **or** PHY 2049C

■ **PSYCHOLOGY (PSY)**

Psychology involves the scientific study of behavior and mental processes. Because of this focus, psychology is relevant to many other areas of study both inside and outside of the social and behavioral sciences. The undergraduate program in Psychology offers the student a well-rounded liberal arts education. In addition, the program provides excellent training for qualified students who wish to pursue graduate work in such disciplines as Clinical, Experimental or Industrial Psychology, Education, Gerontology, Counseling, Management, Medicine, Law, and other human service programs. The undergraduate major emphasizes the breadth of psychology while allowing the student some electives to pursue in depth a particular aspect of the field. The graduate faculty of the Psychology Department are divided into three broad program areas: Clinical, Experimental, and Industrial/Organizational.

Each of these program areas offers Ph.D.-level training as well as instruction at the undergraduate level.

• Requirements for the Major in Psychology

Majors must complete at least 34 semester hours in the field. A minimum grade of "C" or better must be attained in each course in the major. All majors must complete:

- 2000/3000 Level Requirement (6 semester hours)
Successful completion of: PSY 3044 (3 semester hours) and one of the following:
INP 2101 PSY 2012 PSY 3022 SOP 3742
- 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.
- 4000 Level Requirement (21 semester hours)
Successful completion of 7 additional Psychology courses numbered at the 4000 level selected as follows: At least two courses from each of the two groups below:
Group I
EXP 4204C EXP 4404 PSB 4013C
EXP 4304 EXP 4523C
Group II
CLP 4143 INP 4004 SOP 4004
DEP 4005 PPE 4004
and 3 additional courses numbered at the 4000 level.

Note: No more than a total of 3 hours of the following courses may count toward the major:

PSY 4913 Directed Study
PSY 4970 Honors Thesis

PSY 4932 may not count toward the major.

PSY 4205 is recommended for students planning graduate training. Functional mathematics and biological science are also recommended. Otherwise, students majoring in psychology are encouraged to complete a varied undergraduate program.

A prerequisite for all 4000-level courses is a grade of "C" or better in both PSY 3044 and PSY 3213. For students minoring in Psychology or those majoring in Interdisciplinary Social Sciences, a grade of "C" or better in any college-level statistics course will substitute for the PSY 3213 requirement.

• Requirements for the Minor in Psychology

A minor in Psychology consists of a minimum of 15 credit hours, comprising PSY 2012, PSY 3044, and any three 4000-level psychology courses except PSY 4913. A GPA of 2.0 or better in the minor is required for certification. The purpose of the minor is to help students majoring in other disciplines to obtain an appropriate psychology background that will complement their work in their major. See the Psychology Department Undergraduate Advisor for suggested minor programs for students majoring in various fields.

Psychology Honors Program

The purpose of the Honors Program is to provide a select group of undergraduate Psychology majors an opportunity to undertake an intensive individualized research experience. The culmination of the Honors Program is the completion and defense of an honors thesis. Application for the program will take place during the second semester of the student's junior year or, typically, prior to completion of 90 semester credits. Admission to the program is competitive and based on the student's overall academic record, performance in psychology courses, and a letter of recommendation from a member of the Psychology Department faculty. Successful completion of the program requires a GPA of 3.5 in major coursework, an overall GPA of 3.25 at USF, and, typically, completion of 43 hours in Psychology including PSY 4932 (6) and PSY 4970 (6). See the Psychology Department Undergraduate Advisor for details of the program and an application form.

• Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following **prerequisite courses** listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

PSY X012 Introduction to Psychology **or** Any other lower level Psychology course
STA XXXX Any level Statistics course
BSC XXXX Any level Biology course **or** Any lower level Zoology course

■ REHABILITATION COUNSELING (REF)

A five-year master's program is available to undergraduates where an M.A. degree in Rehabilitation Counseling and a bachelor's degree in another major (if desired) can be earned in a total program of 150 semester hours. Students admitted through the five-year program (REF) must have completed 90 semester hours of work, and have satisfied General Distribution, CLAST, and Rule 6A-10.30 (Gordon Rule) requirements. Minimum admission requirements include a total Verbal-Quantitative score of at least 1000 on the GRE or a "B" average over the last 60 semester hours. The GRE must be taken by all applicants whether or not they have a 3.0 grade-point average. A detailed description of the M.A. program in Rehabilitation Counseling may be found in the Graduate Catalog and on the internet at http://www.usf.cas.edu/rehab_counseling/index.html.

Undergraduates interested in the five-year program (REF) should contact the department during their sophomore year. They should concentrate on taking required courses in their undergraduate major, and should generally defer taking electives until admitted to the five-year program. Applications for the five-year program are available from the Department. GRE scores must be reported to USF before any application can be processed, and three letters of recommendation are required.

The mission of Rehabilitation Counseling is to help individuals with physical, mental, and psychiatric disabilities return to full, rewarding, and productive lives. Rehabilitation Counselors work in a wide variety of settings, including public and private rehabilitation programs and facilities, mental health treatment settings, and substance abuse treatment settings. Some establish their own private rehabilitation or mental health counseling practices.

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

The graduate program in Rehabilitation Counseling is fully accredited by the Council on Rehabilitation Education (CORE), the national accrediting body for rehabilitation counselor training programs. Upon completion of the program, graduates are eligible to sit for the national certification examination of the Commission on Rehabilitation Counselor Certification. After passing this examination, the graduate is registered with the Commission as a Certified Rehabilitation Counselor (CRC). Within the 60 hour M.A. program, graduates are also able to meet Florida's educational standards for licensure as a Clinical Mental Health Counselor.

■ RELIGIOUS STUDIES (REL)

In Religious Studies, students are exposed to a cross-cultural and multi-disciplinary study of the way in which both individuals and civilizations are deeply influenced by human religious experience. The goal is to enable the educated person to understand better the various ways in which religious values and institutions shape human behavior through a comparative study of religions and cultures. Such an education is invaluable for careers as diverse as journalism, law, medicine, business, as well as careers more directly related to the practice of religion. Majors in Religious Studies will also find courses designed to give them the methodological, theoretical and linguistic skills needed to go on to advanced graduate study in the field.

• Requirements for the Major in Religious Studies

A total of 36 credit hours chosen from Religious Studies courses. Transfer students may not apply more than 12 hours taken elsewhere toward the major at the University of South Florida. Only letter grades will be counted toward the (minimum of 24 credit hours taken at the University of South Florida for transfer students or) 36 (for non-transfer students) credit hours necessary to complete the 36 credit hours required for the major. Students taking Religious Studies as a second major need to complete only 30 credit hours. To do so they must make a written request to the Undergraduate Director at the time they declare their major.

All majors must take

- REL 3003 Introduction to Religion (3); and
- REL 4949 The Development of Religious Studies (3); and
- REL 4931 Seminar in Religion (3)
- An additional 27 credit hours chosen from Religious Studies courses. Students are expected to study at least two different religious traditions.

All transfer student must take a minimum of 24 hours in Religious Studies courses at the University of South Florida.

It is the prerogative of the Department of Religious Studies to determine whether courses taken at other universities may be applied toward the major at the University of South Florida. This will be decided as soon as the student becomes a major in the Department of Religious Studies at the University of South Florida.

The department's course offerings are sufficiently varied that a student should expect to enroll in its scheduled classes. No more than three directed studies courses may be applied toward the major. Any student who wishes to take any type of directed study, including REL 3900, must have the (written) approval of his/her instructor, and the director of undergraduate studies.

• Requirements for the Minor in Religious Studies

A total of 18 credit hours chosen from Religious Studies courses. Transfer students may not apply more than 6 credit hours taken elsewhere toward the minor at USF. Only letter grades will be counted for transfer. Requests for transfer of credit must be made to the Undergraduate Director in writing when declaring a minor.

All minors must take

- REL 3003 Introduction to Religion (3); and

- REL 4949 The Development of Religious Studies (3); and
- REL 4931 Seminar in Religion (3) - various topics
- An additional 9 credit hours chosen from Religious Studies courses. Students are expected to study at least two different religious traditions.

It is the prerogative of the Department of Religious Studies to determine whether courses taken at other universities may be applied toward the minor at USF. This will be decided as soon as the student declares a minor in the Department of Religious Studies at USF.

• Program of Study at a Florida Community/ Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

There are no State Mandated Common Prerequisites for this degree program.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

ENC 1101	English I	3
ENC 1102	English II	3
any HUM	Humanities	6
REL 3240	Introduction to the New Testament	3
REL 3210	Hebrew Bible/Old Testament	3
any HIS or SOC or ANT	Social Studies	6
any CLA or HEB	Ancient Studies	
any HIS	History	
any AML or LIT or ENL	Literature	
any PHI	Philosophy	

■ SOCIAL WORK (SOK)

The University of South Florida offers a program leading to a Bachelor of Social Work (B.S.W.) degree in the School of Social Work, College of Arts and Sciences. This program has been developed in accordance with the guidelines set forth by the Council on Social Work Education, the national accrediting body for social work education programs, and in accordance with the recommendations of the National Association of Social Workers. The B.S.W. program is fully accredited by the Council on Social Work Education. The primary objective of the B.S.W. program is the preparation of the graduate for beginning level professional practice as a social work generalist.

The secondary objectives of the B.S.W. program are

- 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;
- to prepare graduates for additional professional training at the graduate level in social work or in related human service professions;
- to provide an exposure to social work as a profession and to contemporary issues in the social welfare field.

In preparing the B.S.W. graduate for beginning professional practice, the curriculum provides the student with an opportunity to develop a knowledge base and skill base as a "generalist" practitioner. The student will develop an understanding of various interventive methods and skills in their application to a variety of client systems. For example, interventive methods may take the form of individual and

group counseling, resource development, consultation, teaching, advocacy, etc. Client systems may be individuals, families, groups, community groups, organizations, or social welfare organizations. The student will develop an understanding of the dynamics of human behavior in individual, group and organizational contexts and the influences of the sociocultural environment upon those behaviors. The student will learn about the development of social welfare systems and institutions and the social, economic, and political processes affecting policy development and program implementation. The student will develop an understanding of the utilization of basic social research skills particularly related to the processes of problem-solving, planning, and evaluation.

The student will also become aware of the value base of the profession and engage in a self-examination process as it relates to the development and reflection of ethical and effective professional practice. The B.S.W. program, as any professional program, places great emphasis on the development of a professionally responsible graduate in terms of one's obligations to the client system served, the profession itself, the organization in which one works, and to the general public which ultimately provides any profession with legitimacy.

Enrollment in the B.S.W. program is limited. Unlike many academic programs where the student may declare a major, the B.S.W. program is a limited access program. Students may apply for admission to the School for the B.S.W. 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 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. Furthermore, no student will be allowed to enter field placement with a "D" grade on any SOW core courses, even if the student's GPA is 2.75 or above with the inclusion of the "D" grade.

Admission to the B.S.W. program is a three-stage process, i.e., common prerequisites, foundation, and core curriculum. Any student who holds a minimum of Sophomore standing and has completed common prerequisite work in political science, biology, economics, psychology and sociology (see specific requirements below) may declare a presocial work major. This is done by filing a declaration of major form with the College of Arts and Sciences, Records and Advising Office. All pre-majors will be assigned to an advisor within the School who will assist the student in selecting courses. Many students will have already taken most of the common prerequisite courses as part of general distribution at USF or in their course of study at a community college. After completion, a student will be ready for foundation courses in the pre-social work major, a final step in applying 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 common prerequisites and foundation courses (see listing);
3. A student must complete an application for admission and file it with the School of Social Work before the beginning of the semester in which admission is sought; dates will be posted in the Social Work office;

4. A student may be asked to complete an admission interview with a favorable action from the Undergraduate Committee.
5. A student must achieve a grade of "B" or better in SOW 3302, Introduction to Social Work, and SOW 3203, The American Social Welfare System, to be considered for admission.
6. A student must have successfully completed CLAST. CLAST may be repeated and the applicant may reapply to the program after successful completion of CLAST. A student must achieve a GPA of 2.75 in all Social Work courses to enroll in field placement and subsequently graduate with the B.S.W. degree.

Common Prerequisite Courses (P)

A student must successfully complete, by earning a "C" or better:

One course in each of the following cognate areas or equivalency--

Human Biology:

Food: Personal and Global Perspectives
Sex and Today's World
Principles of Biology for Non-majors
Human Anatomy & Physiology
Human Sexual Behavior

Political Science:

American National Government
State and Local Government and Politics
Florida Politics and Government

Psychology:

Introduction to Contemporary Psychology
Contemporary Problems in Psychology
Experimental Psychology
Psychology of Adjustment

Sociology:

Introduction to Sociology
Contemporary Social Problems
Social Psychology
Sociology of Sex Roles
Social Stratification
Sociological Aspects of Deviance

Economics:

Basic Economics -SS

Foundation Courses (P*) for Pre-Social Work Majors

1. One of the following cross-cultural courses or equivalency

Africana Studies:

Introduction to the Black Experience
Social Institutions and the African-American Community
Black Women in America
Culture and Society in Africa
Racism in American Society
Blacks in the American Political Process

Anthropology:

Introduction to Anthropology
The Anthropological Perspective
Cultural Anthropology
Sex Roles in Cross-Cultural Perspective
Ethnic Diversity in the USA
The Individual and Culture

Sociology:

Racial and Ethnic Relations

Women's Studies:

Introduction to Women's Studies
Psychology of Women
Sex Roles in Cross-Cultural Perspective
Women and Politics
Issues in Feminism
American Women in Contemporary Society I
American Women in Contemporary Society II
Literature by American Women of Color
The Image of Women in Literature (also offered in English)

- Third World Women Writers (also offered in English)
2. Both of the following Social Work courses, earning a "B" or better:

American Social Welfare System
Introduction to Social Work

• **Requirements for the Major in Social Work (Core Courses)**

- Human Behavior and Social Environment Courses
SOW 3101 (4) SOW 3102 (4)
- Social Welfare: Policy & Program Course
SOW 4233 (4)
- Social Research Course
SOW 3401 (4)
- Social Work Practice Courses
SOW 4341 (5) SOW 4343 (5)
- Directed Field Experience
SOW 4510 (3) SOW 4510L (6)
- Multi-cultural America
SOW 4522 (3)

Summary:

Core Courses	29 hours
Field Experience	9 hours
TOTAL	38 hours

• **Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

This is a limited access program. Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following **prerequisite courses** listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade. Students will be admitted to the **Pre-Social Work** program upon completion of these five courses:

American Government
Biology
Introduction to Economics
Macroeconomics or Microeconomics
Introductory Psychology
Introductory Sociology or Introduction to Social Problems

Once the **following** courses are completed **and** other admissions criteria are met, students may be admitted to the School of Social Work.

Life cycle course, spanning birth to death in an individual's life, 3-4 semester hours.*

Cross-cultural issues, 3 semester hours.

SOW 3302 Introduction to Social Work, minimum grade = B.

SOW 3203 American Social Welfare, minimum grade = B.

* course phased out as requirement in 1998

■ **SOCIOLOGY (SOC)**

Sociology is the study of social life and the social causes and consequences of human behavior. Sociologists investigate the structure of groups, organizations, and societies. Because all human behavior is social, the subject matter of

sociology ranges from intimate families to hostile mobs; from crime to religion; from the divisions of race, gender, and social class to the shared beliefs of a common culture; from the sociology of work to the sociology of emotions.

The Sociology major is designed to provide students with a broad liberal arts education and a greater understanding and insight into the social systems and processes that bear upon everyday lives. Opportunities for students with Bachelor's degrees in Sociology are quite varied. Some go on to work for human service agencies; others work in personnel, criminal justice, and urban planning; others enter graduate programs in sociology, education, law, medicine, or social work. Toward these ends, all students are encouraged to become skilled in the use of computers and libraries.

• **Requirements for the Major in Sociology**

The major consists of a minimum of 36 credit hours of Sociology coursework plus ISS STA 2122: Social Science Statistics or its equivalent. All university-wide regulations regarding transfer credits and credits needed for graduation apply, at least 27 of the 36 hours of coursework in Sociology must be USF credits. Only courses in which a grade of "C" or better is attained will count toward the minimum hours although lower grades are included in calculating the major GPA.

The minimum of 36 credit hours in Sociology must include the following four core courses (12 hours):

SYG2000 Introduction to Sociology (May be replaced with an upper level sociology elective if a total of 12 or more hours of sociology coursework is completed before declaring a Sociology major)

SYA 3010 Classical Theory

SYA 3300 Research Methods (Prerequisite: STA 2122 Social Science Statistics or its equivalent)

SYA 4935 Senior Seminar (Students earning a grade less than "C" in this course must take an additional course in Sociology. In that event, the minimum number of Sociology credits is 39)

The remaining 24 hours of sociology coursework may be comprised of any of the courses offered by the Sociology department **with the exception of** SYG 2412 Marriage. This course counts toward the total number of hours needed to graduate but it does not count toward the minimum number of sociology hours needed for the major. No more than three hours of SYA4910 individual Research may count toward the 36 hour minimum

Students are encouraged to make an appointment to talk with the Sociology Department Undergraduate Advisor when they have questions about major requirements or about which electives offered each semester would best meet their educational and career goals.

• **Requirements for the Minor in Sociology**

A minor in Sociology consists of a minimum of 18 credit hours in Sociology, at least 12 of which must be USF credits. Minors must take SYG 2000 Introduction to Sociology and SYA 3010 Classical Theory. No more than three hours of SYA 4910 Individual Research, may count toward the 18 hour minimum; SYG 2412 Marriage does not count toward the total number of minimum hours for the minor. Only courses in which a grade of "C" or better is attained will count toward the minimum hours.

While students do not declare a Sociology minor until application for graduation, they are encouraged to make an appointment with the Sociology Department Undergraduate Advisor if they wish to discuss which Sociology electives offered each semester would best meet their educational and career goals.

• **Program of Study at a Florida Community/ Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete two lower level introductory courses in Sociology prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. A grade of "C" is the minimum acceptable grade. Students are encouraged to take the following prerequisites, or major, support, or elective courses, if available, during the program of study at the community college, and when feasible in General Education/ Gordon Rule courses.

STA 2122 Social Science Statistics	3
SYG 2000 Introduction to Sociology	3
WST 2010 Introduction to Women's Studies	3

■ **WOMEN'S STUDIES (WST)**

• **Requirements for the Major in Women's Studies**

The major in Women's Studies provides a well-rounded Liberal Arts education based on the best and most current scholarship on women in many disciplines. Its subject is not only the evolution of historical attitudes, ideologies, and practices concerning women but also an analysis of the current status of different classes, races and groups of women.

Women's Studies offers excellent undergraduate preparation as well for (1) those who wish to apply to law school or to graduate study in a variety of fields, e.g., Urban or Medical Anthropology, Counselor Education, Criminal Justice, Gerontology, History, Rehabilitation Counseling, Social Work, Women's Studies; (2) those who want to focus on women in specific disciplines or professions; and (3) those whose training would benefit from a close scrutiny of the major issues facing women today.

Majors must complete 36 hours distributed as follows:
Required Core Courses (6 hours)

- | | |
|----------|----------|
| WST 3011 | WST 4935 |
|----------|----------|
- and at least 1 course from each of the following 6 areas of concentration (18 hours) and 12 hours of electives
- | | |
|-------------------------|------------------|
| 1. MULTICULTURAL ISSUES | 2. HISTORY |
| WST 3275 | AMH 3561 |
| AFA 4335 | AMH 3562 |
| ANT 4302 | WST 3210 |
| WST 4260 | WST 3220 |
| WST 5266 | WST 2309 |
| | WST 4310 |
| 3. HUMANITIES | 4. SCIENCES |
| REL 3145 | SOP 3742 |
| WST 4335 | SYD 4800 |
| AMS 3370 | WST 2380 |
| WST 4262 | WST 4320 |
| WST 4263 | WST 4350 |
| 5. THEORY/PHILOSOPHY | 6. PUBLIC POLICY |
| WST 4342 | POS 4693 |
| PHI 4632 | POS 4694 |
| PHM 5125 | PUP 4323 |
| WST 5001 | |
| WST 5318 | |

The following courses, not included within the six areas of concentration, may be used to complete elective hours:

WST 3010	WST 4930
WST 3360	WST 5934
WST 4900	STA 2122
WST 4910	

Students electing to major in Women's Studies should consult the Undergraduate Advisor for timely scheduling of classes.

• **Requirements for the Minor in Women's Studies**

A student wishing to minor in Women's Studies will be required to take six courses:

WST 3010 or WST 3011

Plus 5 electives chosen from the 6 areas of concentration with no more than 2 courses from any one area and with at least 2 courses at the 4000 level and above.

Students who minor in Women's Studies must be certified by the Undergraduate Advisor.

Minor in "WOMEN OF COLOR"

Women's Studies offers a specific concentration in the area of Women of Color whose focus will be to examine the relationship between women of color and institutions of power. For those interested in the difficult task of creating a harmonious multi-ethnic world, this course of study should be personally and socially rewarding as well as academically challenging.

The concentration prepares students for graduate work and/or professional careers in traditional and non-traditional areas such as health and education, international relations, the creative arts, law, medicine, social work, government and public policy, the social sciences, and community organization.

The requirements for the minor are 15 hours which are to be selected from the following upper-level courses:

AFA 4335	WST 4260	WST 4930
ANT 4302	WST 4262	WST 5266
WST 3275	WST 4263	

• **Program of Study at a Florida Community/ Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

There are no State Mandated Common Prerequisites for this degree program.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students are encouraged to take the following prerequisites, or major, support, or elective courses, if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

- Social Sciences
- Liberal Arts
- WST 3010 Intro to Women's Studies
- Courses to improve reading and writing skills

STUDENT ORGANIZATIONS IN THE COLLEGE OF ARTS AND SCIENCES

Alpha Epsilon Delta (AED) - National Premedical Honor Society - Open to all USF students with an interest in health professions. To be inducted into the national honorary, students must have 3.0 overall GPA and science GPA with a minimum of 3 semesters of college work completed, including one semester at USF. Students do not need to be in the national honorary in order to participate in the chapter at USF.

Alpha Phi Sigma-To recognize and promote high scholastic achievement among students in the Criminal Justice major by supporting service projects, tutoring services, and other goal directed activities.

American Chemical Society-To enhance the students knowledge of chemistry and chemistry related fields.

American Criminal Justice Association-To offer students an organization that exposes them to career opportunities in fields related to criminology. We also provide interaction between students and professionals in the field of criminal justice.

American Medical Student Association (AMSA) - Open to all Pre-Medical students. AMSA sponsors student-run projects carried out at the local level that allows future physicians to work in their communities as teachers and advocates of health promotion and disease prevention.

Anthropology Club-To promote and encourage an interest in Anthropology among individuals within the USF community, to provide a forum for the exchange of anthropological ideas between faculty and students, and foster an informal and creative atmosphere for interaction.

Arts and Sciences College Council-To represent the students of the College of Arts & Sciences in expressing their opinions, to help them participate in determining college policy, to provide services that may help in furthering their interests and education in the Arts and Sciences.

Arts and Sciences Honor Society-To recognize high academic achievement by students in the College of Arts and Sciences.

Association of Minority Communicators-To inform and help facilitate minority students interested in Communication about the profession and help them gain practical experience.

Blacks Organized for Social Science - This is a service club for students majoring or interested in the social science field who wish to enhance studies and broaden leadership skills.

Colloquia in Literature and Linguistics - Provides a stimulating environment in which graduate students in French, Spanish, and Linguistics can share and expand their scholarly endeavors. Sponsors guest lectures.

Communication Council-To encourage and promote extracurricular learning as well as social interaction among communication majors and minors.

French Club - To promote the interest of the French language, Francophone culture and civilization through programs scheduled at club meetings and through social events of the club.

Gamma Theta Upsilon-To foster academic excellence in the Geographic disciplines.

Geography Club-To foster understanding of and stimulate interest in the discipline of Geography and its subfields.

Geology Club - The Geology Club at USF involves its members along with the department in many activities such as trips, annual T-shirt sales and extracurricular academic participation. These events include hosting weekly lecture series by professional geologists and providing opportunities for members to teach geology to local elementary schools.

German Club-To promote the interest of German language, culture, and civilization through programs scheduled at club meetings and through social events of the club.

Humanities and American Studies Society - This organization's stated purpose according to its Constitution, is "to inspire a greater appreciation of our past and present through the study and enjoyment of various art forms." Activities range from gallery strolls to lectures, film series, and campus theatre performances.

International Studies Organization-To promote interaction between students and faculty. To enlighten the student populace of USF of the values of International studies and to foster gender relations among international studies majors.

Italian Club - The purpose of the Circolo Culturale Italiano is to provide educational opportunities and experiences in the American Life to its members and help them to improve their knowledge of the Italian language and culture. It also sponsors lectures, social events and grants scholarships to deserving students of Italian.

Legal Brief -To publish an annual law journal devoted to the exploration of legal issues through articles, interviews and practice experiences.

Minority Preprofessional and Science Society - The objectives of the Society are to:

- (1) promote minority student interest in careers in the natural sciences and the health professions;
- (2) provide a support network to enable students to be academically successful.

The Society meets twice monthly on Wednesday afternoons. Membership is open to all students in the College of Arts and Sciences. For further information call the Health Professions Advising office, 974-2674/3874.

NASW Sub Unit (National Assoc. of Social Workers)-To be a subunit of the National Association of Social Workers, and to provide a social organization for the School of Social Work students.

National Student Speech Language Association-Association was created because of students' desire for a closer affiliation with professionals in the discipline of human communication sciences and disorders.

Phi Sigma Iota - International Honor Society for outstanding majors and minors in Classics, all Foreign Languages and Literatures, Bilingual Education, Foreign Language Education and Comparative Literature.

Pi Gamma Mu-International Honor Society for the Social Sciences.

Pi Mu Epsilon - The mathematics honor society to which the best scholars among our students are invited. Particular emphasis is given to performance in mathematics courses.

Pi Sigma Alpha-To function as an integral part of the political science department in the promotion of worthwhile extracurricular activities related to public affairs.

Pre-Dental Society - The Pre-Dental Society is open to all students with an interest in Dentistry. Through the Society

students have an opportunity to not only get to know other Pre-Dental students, but to meet and hear presentations from dental school admissions officers and practicing dentists. The Society also has organized an extensive mentor program through which students can arrange to observe dentists from each of the specialties as they work in their offices.

Preoptometry Society - This new society will provide students an opportunity to learn more about the profession of optometry and to meet other students interested in the profession. Any interested student is invited to join.

Preveterinary Society - USF Preveterinary Society provides fellowship and exchange among students interested in veterinary medicine, animal science and/or research. Membership is open to students from USF and other local colleges who wish to participate in a variety of activities which will enhance their knowledge in animal science. Activities have included tours at EPCOT - the Land of the Seas, Sea World, Lowry Park Zoo, an ostrich farm, and University of Florida College of Veterinary Medicine. Students meet a variety of specialists in the area.

Religious Studies Community Forum (RSCF) - The purpose of RSCF is two-fold. First, we establish cohesion among students and among students and faculty. Secondly, we also build a social structure that supports our academic goals and extends our interaction beyond the classroom.

Student Broadcasting Association - To give students with an interest in television/radio journalism on-hands experience and the opportunity to produce a news program for public access television.

Student Chapter of the Mathematical Association of America - A club for students who enjoy doing, discussing and learning mathematics.

Student Society for Technical Communication-SSTC offers students scholarships, publication competitions, internship opportunities, resume and computer workshops and networking socials with local professionals who are established in the field.

Women's Studies Student Association - To promote interest in women's issues and provide an informative and social atmosphere for all interested Women's Studies affiliates.

ARTS AND SCIENCES FACULTY

Africana Studies

Director: N. C. James; **Associate Professors:** K. R. Glover, N. C. James, D. G. Plant, T. W. Purcell; **Assistant Professor:** C. R. Rodriguez, D. Turner; **Other Faculty:** F. U. Ohaegbulam, L. W. Morehouse, P. J. Collins, K. Davis, S. Garcia, M. Mitchell, J. B. Moore, H. Regis, A. A. Smith, S. M. D. Stamps, D. Thomas, B. Townsend, K. Vaz, K. Wiredu.

Anthropology

Chairperson: S. D. Greenbaum; **Distinguished Service Professor:** A. W. Wolfe; **Professors:** M. V. Angrosino, G. Kushner, L. M. Whiteford, C. W. Wienker; **Associate Professors:** R. D. Baer, S. D. Greenbaum, L. Madrigal, J. J. Smith, N. M. White; **Assistant Professors:** C. T. H. Ho, R. H. Tykot, B. R. Weisman, K. A. Yelvington; **Courtesy Faculty:** J. Coreil, C. Rodriguez A. Smith; **Other Faculty:** K. Borman, T. Purcell, J. Sokolovsky.

Bachelor of Independent Studies

Director: F. Steier; **Coordinator:** F. Eilers; **Area Coordinators:** W. Heim (BIS Humanities), S. Kranc (BIS Natural Sciences), R. Wheeler (BIS Social & Behavioral Sciences).

Biology

Chairperson: J. T. Romeo; **Distinguished Research Professors:** C. J. Dawes, G. E. Woolfenden; **Professors:** M. R. Alvarez, G. W. Arendash, S. S. Bell, B. C. Cowell, F. E. Friedl, G. W. Hinsch, J. M. Lawrence, D. V. Lim, R. L. Mansell, E. D. McCoy, H. R. Mushinsky, G. G. Robinson, J. L. Simon, S. L. Swihart, D. TeStrake, R. P. Wunderlin; **Associate Professors:** B. J. Cochran, M. L. Dao, F. I. Eilers, F. B. Essig, P. J. Motta, M. J. Saunders, P. D. Stiling; **Assistant Professors:** J. R. Brooks, A. C. Cannons, J. R. Garey, K. M. Gray, S. A. Karl, M. Kimble, M. B. Rogers; **Lecturers:** C. F. Hendry.

Chemistry

Chairperson: J. C. Davis, Jr.; **Distinguished Research Professors:** R. M. Castle, B. Stevens; **Distinguished Service Professor:** D. F. Martin; **Professors:** J. S. Binford, Jr., R. S. Braman, J. C. Davis, Jr., S. H. Grossman, M. D. Johnston, Jr., G. R. Jurch, Jr., L. Mandell, G. Meisels, G. R. Newkome, E. D. Olsen, R. M. O'Malley, T. C. Owen, J. H. Worrell; **Associate Professors:** R. L. Potter, J. A. Stanko, E. Turos, J. E. Weinzierl, G. R. Wenzinger; **Assistant Professors:** L. Carlacci, J. Harmon, K.W. Jung, A. Malik, L. J. Ming, J. Robert; **Adjunct Faculty:** J. A. Barltrop, R. Benson, J. W. Palmer; **Courtesy Faculty:** M. Ben, R. Conan, P. Dooris, B. B. Martin, L. H. Garcia-Rubio, W. E. Swartz, Jr.

Communication

Chairperson: E. Eisenberg; **Professors:** A. P. Bochner, K. N. Cissna, E. M. Eisenberg, L.S. Pettegrew, R. J. Schneider; **Associate Professors:** B. F. Downs, C. J. Jablonski, N.C. James, M. Neumann, A. D. Payne, F. Steier, M. L. Vanderford; **Assistant Professors:** E. E. Bell, J. Jorgenson, G. Rodman; **Courtesy Faculty:** M. Myerson.

Communication Sciences and Disorders

Chairperson: A. M. Guilford; **Professors:** A. M. Guilford, J. F. Scheuerle, D. C. Shepherd, E. R. Silliman, W. Strange; **Associate Professors:** J. B. Crittenden, T. Hnath-Chisolm; **Assistant Professor:** R. Huntley Bahr; **Instructors:** P. Blake-Rahter, P. Carr, L. Carrera, W. Collins, S. Diehl, N. Diss, C. Fernandez, C. Ford, S. Graham, E. Kaplon, V. Laughlin, K. Smith, K. Richardson, M.J. Witkind.

Criminology

Chairperson: W. R. Blount; **Professors:** W. R. Blount, R. Dembo, J. B. Halsted, K. M. Heide, I. J. Silverman, M. Silverman, L. Territo; **Associate Professors:** M. Bromley, J. Cochran, C. Greek, T. Mieczkowski, C. Sellers; **Assistant Professors:** W. Palacios; **Professor Emeritus:** J.T. Reilly, M. Vega; **Courtesy Appointment:** J. Feegal; **Academic Administrator:** M. Johnson.

Economics

Chairperson: J. W. Rowe, Jr.; **Professors:** D. M. Bellante, T. D. Curtis, J. S. DeSalvo, K. Gyimah-Brempong, J. S. Hodgson, M. G. Herander, P. K. Porter, J. W. Rowe, Jr., E. W. Shows; **Professors Emeriti:** G. Brunhild, W. J. Herman; **Associate Professors:** J. P. Cooke, E. J. Ford, C. A. Green, E. A. Hanni, R. F. Shannon, J. G. Spence, C. R. Thomas, R. M. Wilson; **Assistant Professors:** B. Kamp, S. S. Lee, G. Picone, J. Racine, J. Swinton; **Lecturers:** S. Bartlett, S. Brandmeyer, V. H. Grigg.

English

Chairperson: S. M. Deats; **Professors:** J. P. W. Rogers (DeBartolo Chair in the Liberal Arts), L. R. Broer, S. M. Deats, H. A. Deer, I. Deer, R. F. Dietrich, F. J. Fabry, S. R. Fiore, W. Garrett, J. S. Hatcher, E. F. Henley, E. W. Hirshberg (**Emeritus**), J. J. Iorio, D. L. Kaufmann, A. J. Kubiak, J. B. Moore, W. E. Morris, J. M. Moxley, G. A. Olson, W. D. Reader, W. T. Ross, S. J. Rubin, W. H. Scheuerle, E. E. Smith, D. A. Wells;

Associate Professors: R. M. Baum, A. G. Bryant, R. E. Chisnell, R. M. Figg III, R. E. Hall, M. C. Harmon, W. J. Heim, R. L. Hewitt, E. A. Metzger, P. J. Sipiara, N. J. Tyson, R. D. Wylly, Jr.
Assistant Professors: V. J. G. Allen, P. J. Collins, E. A. Hirsh, F. T. Mason, L. L. Runge, F. J. Zbar; **Instructor:** D. L. Jacobs;
Lecturers: I. F. Ceconi (**Emeritus**), V. W. Valentine (**Emeritus**).

Environmental Science and Policy

Director: R. Khator; **Assistant Director:** I. Bartsch

Geography

Chairperson: G. Tobin; **Professors:** R. T. Aangeenbrug, G. Tobin; **Associate Professors:** K. Archer, R. Brinkmann; **Assistant Professors:** J. Althausen, J. E. Garcia, R. Johns, T. Newsome; **Adjuncts:** H. Aruffo, N. Duncan-Tabb, L. Essenson.

Geology

Chairperson: M. T. Stewart; **Professors:** R. A. Davis, Jr., M. J. Defant, M. T. Stewart, H. L. Vacher; **Associate Professors:** T. M. Quinn, L. L. Robbins, J. G. Ryan; **Assistant Professors:** P. J. Harries, S. E. Kruse, E. A. Oches, C. I. Steefel; **Instructors:** T. C. Juster, E. Snow; **Courtesy Faculty:** R. B. Halley, B. W. Leyden, M. Luo, A. Rosenzweig, A. H. Sallenger, T. M. Scott, R. Stewart, W. H. Taft, S. Upchurch; **Assistant Curators:** R. Denicourt, B. R. Marcin, E. J. Marcin.

Gerontology

Chairperson: W. E. Haley; **Professors:** W. E. Haley, S. V. Saxon, H. Sheppard; **Associate Professors:** J. L. Garcia, W. P. Mangum, L. J. Polivka, J. H. Skinner; **Adjunct Professors:** M. Brooks, M. J. Etten, S. Hoffman, M. Kaplan, B. McCulloch, L. Mosby, M. Mushel, G. Paveza; **Courtesy Professor:** J. Mortimer.

History

Chairperson: J. M. Belohlavek; **Professors:** R. O. Arsenault, J. M. Belohlavek, C. B. Currey, R. P. Ingalls, G. H. Mayer, G. R. Mormino; **Associate Professors:** G. Benadusi, D. R. Carr, P. Dosal, G. H. Kleine, W. M. Murray, F. Ottanelli, K. A. Parker, E. M. Silbert, G. K. Tipps; **Assistant Professors:** G. Alexopoulos, A. de la Fuente, L. Edwards, K. Fischer, C. Greene, K. Paul, W. Stavig, R. J. Van Neste; **Other Faculty:** C. W. Arnade.

Humanities and American Studies

Chairperson: S. L. Gaggi; **Professors:** C. B. Cooper, S. L. Gaggi, T. B. Hoffman (**Emeritus**), H. Juergensen (**Emeritus**), G. S. Kashdin (**Emeritus**), E. M. MacKay (**Emeritus**), J. Moore, D. Rutenberg (**Emeritus**), R. E. Snyder, A. J. Sparks, S. A. Zylstra; **Associate Professors:** R. A. Banes, P. J. Brewer; **Assistant Professors:** D. Belgrad, J. D'Emilio, N. Yavneh; **Other Faculty:** S. A. Zylstra.

Interdisciplinary Social Sciences

Coordinator: R. J. Gagan; **Professor:** S. M. D. Stamps, Jr., R. H. Wheeler; **Associate Professor:** S. E. Cahill; **Assistant Professor:** C. R. Kasee; **Lecturer:** R. J. Gagan.

International Studies

Director: D. Slider; **Professors:** C. W. Arnade, A. Hechiche, H. W. Nelsen, M. T. Orr; **Associate Professors:** M. M. Amen, R. Barylski, E. Conteh-Morgan, S. S. Northcutt, D. Slider; **Assistant Professor:** D. Peng; **Joint Appointments: Professors:** F. U. Ohaegbulam, H. Vanden; **Associate Professors:** K. R. Glover, R. Khator, M. Milani.

Languages & Linguistics

Director: R. W. Cole; **Professors:** G. A. Brulotte, C. W. Capsas, C. J. Cargill, R. W. Cole, W. R. Hampton, D. Ierardo, A. L. Motto, E. J. Neugaard, R. C. O'Hara (**Emeritus**), V. E. Peppard,

R. A. Preto-Rodas, R. A. Stelzmann, C. E. Scruggs; **Associate Professors:** J. C. Cafilisch, C. J. Cano, M. Esformes, J. D. Noonan, C. M. Probes, J. C. Tatum; **Assistant Professors:** J. Flaitz, J. Thompson; **Instructors:** J. S. Campbell, J. A. Feliciano-Butler, R. E. Horn, E. Palacio, I. A. Nemchonok, S. Wohlmut; **Courtesy Faculty:** A. G. Grognet; **Other Faculty:** S. Fox, K. Mukerjee, W. M. Murray, A. Starr, J. F. Strange, G. K. Tipps.

Library and Information Science

Director: K. de la Peña McCook; **Professors:** K. McCook, F. C. Pfister; **Associate Professors:** V. Gregory, A. Perrault, M. Stauffer, T. C. Wilson; **Courtesy Associate Professor:** Y. L. Ralston; **Assistant Professor:** J. Carey; **Professors Emeriti:** J. K. Gates, J. M. Knego, J. A. McCrossan, A. G. Smith, H. M. Smith; **Instructors:** A. M. Smith, S. R. Wohlmut; **Visiting Instructors:** K. Swetland, T. Keene.

Marine Science

Chairperson: P. R. Betzer; **Professors:** N. J. Blake, R. H. Byrne, K. L. Carder, L. J. Doyle, K. A. Fanning, P. Hallock-Muller, A. C. Hine, T. L. Hopkins, J. H. Paul, W. M. Sackett, J. J. Torres, E. S. Van Vleet, G. A. Vargo, J. J. Walsh, R. H. Weisberg; **Professors Emeriti:** J. C. Briggs, H. J. Humm; **Associate Professors:** B. Galperin, M. E. Luther, F. Muller-Karger, J. B. Rose, R. R. Wilson, Jr.; **Assistant Professors:** P. G. Coble, G. Mitchum, D. F. Naar, S. F. Tebbens; **Visiting Assistant Professor:** S. G. Tolley; **Courtesy Professors:** R. A. Davis, B. Halley, C. W. Holmes, G. Litman, W. R. Parker, A. Sallenger, S. Schott, A. C. Smith, Y. Tardy; **R. Wollast;** **Courtesy Associate Professors:** R. C. Baird, S. B. Gallagher, G. E. Rodrick, K. A. Steidinger; **Courtesy Assistant Professor:** A. B. Meylan, R. G. Muller, E. C. Peters, J. E. Reynolds; **Courtesy Lecturers:** S. Gallagher, S. Schott.

Mass Communications

Director: E. J. Friedlander; **Professors:** J. Black, D. L. Dickerson, E. J. Friedlander, G. M. Killenberg, M. Lucoff; **Associate Professors:** D. S. Bagley III, T. M. Counts, R. Dardenne, W. G. Fudge, L. Z. Leslie, H. Regis; **Assistant Professors:** K. F. Brown, S. Liu, R. Miller, B. K. Petersen; **Instructors:** K. Killebrew, G. Werner, R. Wilber; **Professor Emeritus:** A. M. Sanderson;

Mathematics

Chairperson: W. R. Stark; **Associate Chairperson:** M. M. McWaters; **Distinguished Research Professor:** E. B. Saff; **Professors:** W. E. Clark, M. Ismail, A. G. Kartsatos, J. J. Liang, M. N. Manougian, A. Mukherjee, M. E. Parrott, A. N. V. Rao, J. S. Ratti, B. Shekhtman, W. R. Stark, V. Totik, C. P. Tsokos, C. A. Williams, Y. You; **Associate Professors:** R. W. R. Darling, G. L. McColm, M. M. McWaters, R. W. Oberste-Vorth, J. F. Pedersen, K. L. Pothoven, E. Rakhmanov, K. M. Ramachandran, F. J. Zerla; **Assistant Professors:** S. V. Gomatam, N. Jonoska, M. Saito, S. Suen; **Instructor:** M. Krajcevski; **Professors Emeriti:** J. R. Britton, A. W. Goodman, D. C. Rose.

Medical Technology

Director: C. F. Hendry; **Courtesy Professors:** I. L. Browarsky (Tampa General Hospital), W. Burgert (Tallahassee Memorial Regional Medical Center), N. M. Hardy (University Medical Center/Jacksonville), R. F. Holcomb (Florida Hospital), M. Patterson (St. Vincent's Medical Center); **Courtesy Lecturers:** L. Chakkaphak (St. Vincent's Medical Center), L. Ferguson (Tampa General Hospital), V. Craig (Tallahassee Memorial Regional Medical Center), P. Rogers (Florida Hospital), J. Sigler (University Medical Center).

Philosophy

Chairperson: W. H. Truitt; **Professors:** J. P. Anton (Distinguished Professor of Greek Philosophy & Culture), J. A. Bell, P. A. French (Cole Chair in Ethics), J. A. Gould, L. L. McAlister,

B. Silver, W. H. Truitt, R. C. Weatherford, K. Wiredu; **Distinguished Research Professors:** K. S. Shrader-Frechette, S. P. Turner; **Associate Professors:** R. N. Taylor, J.B. Waugh; **Assistant Professor:** M. R. Schonfeld; **Courtesy Associate Professor:** M. Myerson; **Courtesy Professor:** D. J. Fasching.

Physics

Chairperson: R. S. F. Chang; **Professors:** S. C. Bloch, H. R. Brooker, R. S. F. Chang, L. Clarke, S. R. Deans, N. Djeu, R. W. Flynn, N. C. Halder, L. Jastrzebski, W. D. Jones, D. K. Killinger, J. Lagowski; **Associate Professors:** J. L. Aubel, M. K. Kim, P. Mukherjee, S. Witanachchi; **Lecturer:** D. D. Spurgin.

Political Science

Director: L. W. Morehouse; **Professors:** R. A. Factor, W. E. Hulbary, R. M. Khaton, S. MacManus, J. Merrick, F. U. Ohaegbulam, H. E. Vanden; **Associate Professors:** J. E. Benton, M. T. Gibbons, K. R. Glover, A. E. Kelley, M. M. Milani, L. W. Morehouse, D. G. Paulson, P. N. Rigos; **Assistant Professors:** C. Hall, S. Tauber, K. Tenpas; **Professor Emeritus:** A. E. Kelley; **Joint Appointments: Professors:** C. W. Arnade, J. E. Jreisat, D. C. Menzel, H. W. Nelsen; **Associate Professors:** R. Barylski, E. Conteh-Morgan, D. Slider, J. B. Snook.

Public Administration

Director: W. J. Pammer, Jr.; **Professors:** J. E. Jreisat, S. A. MacManus, D. C. Menzel; **Associate Professors:** J. L. Daly, W. J. Pammer, Jr.; **Assistant Professor:** A. Njoh; **Joint Appointments: Professors:** J. C. Merrick; **Associate Professors:** J. E. Benton, R. Khaton, P. N. Rigos.

Psychology

Chairperson: E. L. Levine; **Distinguished Research Professors:** M. S. Goldman, J. J. Jenkins, D. L. Nelson, C. D. Spielberger; **Professors:** W. C. Borman, M. A. Finkelstein, R. Fowler, E. L. Gesten, B. N. Kinder, R. C. LaBarba, E. L. Levine, D. McGuinness, C. E. Nelson, L. A. Penner, W. P. Sacco, P. E. Spector, D. E. Stenmark, J. K. Thompson, T. Tighe; **Professor Emeritus:** H. H. Meyer; **Associate Professors:** T. Brandon, M. T. Brannick, J. A. Bryant, J. M. Clingman, M. D. Coovert, P. Jacobsen, V. Phares, T. Sanocki, S. Schneider, K. J. Tarnowski; **Assistant Professors:** K. Brandon, C. R. Cimino, J. B. Epps, C. L. Kirstein, D. F. Lopez, T. Shimizu; **Assistant Research Professor:** M. de Perczel; **Courtesy, Adjunct, & Joint Appointments:** G. Arendash, H. P. Bahrick, H. B. Clark, M. E. Clark, D. Cohen, G. Curtiss, F. Del Boca, M. T. Dickey, J. A. Eison, D. Goldsmith, P. Greenbaum, W. Haley, N. R. Hall, D. Hann, K. Jenkins-Hall, W. L. Hartman, E. B. Kimmel, M. D. Knox, C. L. McEvoy, D. McKinstry, K. McNelis, R. K. Otto, R. Plutchik, N. Poythress, J. Robyak, A. I. Rosenblatt, J. C. Ruckdeschel, D. J. Rundus, E. Salas, J. Sandler, L. Schonfeld, W. P. Schultz, D. V. Sheehan, A. A. Smith, R. Spana, M. L. Stedman, T. F. Stokes, W. Strange, R. Vanderploeg, I. R. Weiner, S. Zheutlin.

Rehabilitation Counseling

Chairperson: J. D. Rasch; **Professors:** W. G. Emener, J. D. Rasch; **Associate Professor:** T. J. Wright; **Assistant Professors:** C. Dixon, S. Kelley; **Clinical Instructor:** J. Ferrandino.

Religious Studies

Chairperson: D. J. Fasching; **Professors:** D. J. Fasching, D. Jorgensen, S. Mandell, M. G. Mitchell, J. Morreall, T. Sonn, J. F. Strange; **Distinguished Research Professor:** J. Neusner; **Other Faculty:** J. S. Hatcher, E. E. Smith.

Social Work

Interim Director: J. Amuso; **Assistant Program Director:** C. K. Bennett; **Associate Professors:** J. A. Giordano, T. U. Hancock, W. S. Hutchison, Jr., C. S. Roberts, A. A. Smith, P. L. Smith; **Assistant Professors:** P. Ouellette, M. Rank, A. L. Storzler;

Instructors: C. K. Bennett, S. Speer; **Courtesy Faculty: Associate Professors:** M. L. Coulter, G. J. Paveza; **Visiting Faculty:** D. Bassett, J. Callan, J. Carpenter, A. Castro, D. Ducett, J. Hall, M. J. Monahan, R. Tilden.

Sociology

Chairperson: D. Loseke; **Professors:** C. Ellis, D. Stamps; **Associate Professors:** G. Brandmeyer, S. Cahill, J. Friedman, B. Gunter, R. Hansen, M. Kleiman; **Assistant Professors:** L. Graham, S. Green, L. Kutcher, C. Ponticelli; **Visiting Assistant Professor:** L. Mayfield-Brown; **Instructor:** R. Buenteo; **Emeriti:** R. Francis, E. Nesman.

Women's Studies

Chairperson: L. L. McAlister; **Professor:** L. L. McAlister; **Associate Professors:** M. Myerson, J. B. Snook; **Assistant Professors:** I. Bartsch, C. DiPalma, G. Grewal, K. Vaz; **Courtesy Associate Professors:** R. A. Banes, L. M. Whiteford.

ARTS AND SCIENCES COURSES

Africana Studies

- AFA 2000 INTRODUCTION TO THE BLACK EXPERIENCE [IN AFRICA AND ITS DIASPORA] -6A -AF (3)**
Fundamental perspectives on the nature and significance of the Black Experience in Africa and the black communities in the Americas.
- AFA 4150 AFRICA AND THE UNITED STATES -SS -HP -AF (3)**
An examination of the historical and current political, economic, and cultural relations between the United States and Africa. (Also listed under International Studies.)
- AFA 4331 SOCIAL INSTITUTIONS AND THE AFRICAN-AMERICAN COMMUNITY (3)**
A study of social institutions as they relate to the African-American Community, with emphasis on social systems operating within and on the African-American community.
- AFA 4335 BLACK WOMEN IN AMERICA -6A -XMW (3)**
An interdisciplinary survey of the contemporary experience of black women in America, including the African roots, myths and realities surrounding that experience. (Also listed under Women's Studies.)
- AFA 4900 DIRECTED READINGS (2-3)**
Independent readings in a particular area of African and Afro-American Studies, selected by student and instructor.
- AFA 4931 SELECTED TOPICS IN AFRICANA STUDIES (1-3)**
Topics offered are selected to reflect student needs and faculty interests. In depth study in such areas as the Black Student and the American Educational Process; the Black Experience in the Americas; European Expansion in Africa to 19th century; Contemporary Economic Problems in Africa.
- AFH 3100 AFRICAN HISTORY TO 1850 -HP -AF (3)**
An outline survey of pre-colonial African history including a prefatory introduction to the use of primary sources (such as archaeology, oral tradition, cultural anthropology, comparative linguistics, documents) in reconstructing the African past. (Also listed under History.)
- AFH 3200 AFRICAN HISTORY SINCE 1850 -HP -AF (3)**
Survey of the colonial and post-colonial history of Africa. Emphasis on the impact of European and other alien influences on the continent, emergence of independent African states and post independence problems of nation building and economic development. (Also listed under History.)
- AFS 2250 CULTURE AND SOCIETY IN AFRICA -6A -AF (3)**
Topics include: African religion, value systems, art and the aesthetics, family and life-cycle, impact of Islam and Christianity and conflict of cultures.
- AFS 3251 ENVIRONMENTAL-CULTURAL STUDY IN AFRICA -SS -AF -FA (3)**
PR: AFS 2250 or Cl. Study tour. A study of traditional African society and culture, the relationship between life and the environment, and the impact of modernization on the culture and the environment.

AMH 3571 AFRICAN AMERICAN HISTORY TO 1865 -HP (3)
A survey of African American history, with an emphasis on North America to 1865. Topics include pre-colonial Africa, transatlantic slave trade, slavery, and the Civil War. (Also offered under History.)

AMH 3572 AFRICAN AMERICAN HISTORY SINCE 1865 -HP (3)
A survey of African American history, with an emphasis on North America, from 1865 to the present. Topics include reconstruction, World War I, World War II, and the Civil Rights Movement. (Also offered under History.)

AML 3604 AFRICAN AMERICAN LITERATURE -6A -XLW (3)
A study of black American literature from the nineteenth century to the present, including the works of such writers as W. E. B. DuBois, Jean Toomer, Langston Hughes, Richard Wright, Ralph Ellison, LeRoi Jones, and Nikki Giovanni. (Also offered under English Department.)

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

ANT 4340 THE CARIBBEAN - 6A -XMW (3)
PR: ANT 3410 or CI. Main themes include the depopulation of the aboriginal population and the resettlement of the area via slavery, indenture, and migration; contemporary ethnic heterogeneity; economic problems of Third World microstates; development of a modern social and political consciousness. Religious diversity, music, the graphic arts, and the literature of the contemporary Caribbean will also be surveyed. (Also offered under Anthropology.)

CPO 4204 GOVERNMENT AND POLITICS OF AFRICA -SS -AF (3)
Designed to provide the information and analytical tools necessary to interpret current Sub-Saharan African politics. Survey of political organization in traditional African societies; politics under colonial rule; the struggle for independence, and post-independence politics.

CPO 4244 GOVERNMENT AND POLITICS OF EAST, CENTRAL AND SOUTHERN AFRICA (3)
In depth study of political developments, ideologies and modernization in East, Central and Southern Africa including race relations and white minority rule in Southern Africa.

HUM 2420 ARTS AND MUSIC OF THE AFRICAN PEOPLE (3)
An examination of the visual arts painting, sculpture, architecture and music of Sub-Saharan Africa; their meaning and impact on the arts and music of the Western World.

INR 4254 AFRICA IN WORLD AFFAIRS -XMW (3)
An examination of Africa's place and role in world affairs, including an analysis of the impact of external forces, international relations in post-colonial Africa, the relations of African states with the major world powers, the U.N. and its agencies.

ISS 5934 SELECTED TOPICS (1-3)
PR: CI plus senior standing or graduate status. Interdisciplinary studies with course content dependent on student demand and instructor's interest. May be repeated as topics vary.

PHI 4073 AFRICAN PHILOSOPHY -6A -XMW (3)
A descriptive and analytical study of African philosophical thought, featuring reflective comparisons of African and Western categories of thought. (Also offered under Philosophy.)

PHM 4120 MAJOR BLACK THINKERS -XMW (3)
Survey of major themes and issues in African/African-American intellectual and political thought with an emphasis on theories of nationalism. Works of individuals such as Martin Delany, Booker T. Washington, W. E. B. DuBois, Marcus Garvey, Malcolm X, and Angela Davis are considered.

PUP 3313 BLACKS IN THE AMERICAN POLITICAL PROCESS (3)
An examination of the political experience of Blacks in the American political process including their political socialization, and struggle to become effective participants in the

American political process. (Also offered under Political Science.)

SPC 3712 COMMUNICATION AND CULTURAL DIVERSITY -SS (3)
Examination of communication and cultural diversity within the United States. Cultural groups include racial and ethnic (e.g. African American, Latino American, Asian American), social class, age and generational, religious (e.g. Jewish) and gender. (Also offered under Communication.)

Anthropology

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

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

ANT 2410 CULTURAL ANTHROPOLOGY -SS -AF (3)
PR: ANT 2000 or CI. Discussion of major methods of and orientations to the crosscultural study of the world's peoples. Representative case studies are used to demonstrate variations in human adaptations and to encourage an appreciation of diverse values and lifestyles.

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

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

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

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

ANT 4034 THEORIES OF CULTURE (3)
PR: Senior standing with major in anthropology or equivalent. The major concepts that form the anthropological view of humanity are viewed in historical perspective. Basic ideas of the western philosophical tradition are analyzed from the Greeks to the 19th century when they became incorporated into the new discipline of anthropology. 20th century anthropological developments on these themes are considered.

ANT 4124 ARCHAEOLOGICAL FIELD METHODS (4-12)
PR: ANT 3100 or CI. Offered as all or part of a summer (or other semester) field session. May or may not be combined with Florida Archaeology and Laboratory Methods in Archaeology. Students learn appropriate methods of archaeological survey, excavation, data and materials recovery, recording, and processing.

ANT 4153 NORTH AMERICAN ARCHAEOLOGY -6A (3)
PR: ANT 3100 or CI. An examination of the evidence regarding the human settlement of North America from its

beginnings through the development of aboriginal culture to the period of European conquest. Emphasis on the comparative study of material culture at selected sites from all time periods. No field work is involved.

- ANT 4158 FLORIDA ARCHAEOLOGY (4)**
PR: ANT 3100 or CI. Culture history and culture process over 10,000 years from the time of the first people in Florida (Paleo-Indians) through the elaborate Weeden Island and Safety Harbor burial and temple mound cultures to the Spanish entrada and consequences of European conquest. Review of temporal and spatial relationships within the entire eastern U.S. and elsewhere. May be part of a summer (or other semester) field school, combined with Field Methods in Archaeology and Laboratory Methods in Archaeology.
- ANT 4162 SOUTH AMERICAN ARCHAEOLOGY (3)**
PR: ANT 3100 or CI. Describes and analyzes the sequence of cultural development in prehistoric South America. Cultures such as the Inca, Chavin, Mochica, Wari, Chimu are included. Emphasis on the environmental setting and the relationship between cultural ecology and the growth of civilization.
- ANT 4163 MESOAMERICAN ARCHAEOLOGY (3)**
PR: ANT 3100 or CI. The chronological sequence from its beginnings through Protohistoric development is described and analyzed. Cultures such as the Maya, Aztec, Mixtec, Zapotec, Olmec, and Toltec are included, with emphasis on the environmental setting and the relationship between cultural ecology and the growth of civilization.
- ANT 4172 HISTORICAL ARCHAEOLOGY -6A -XMW (3)**
PR: ANT 3100 or CI. A survey and analysis of archaeology focused on the historic period. Laboratory research with data recovered from historic sites in addition to classwork.
- ANT 4180 LABORATORY METHODS IN ARCHAEOLOGY (2-4)**
PR: ANT 3100 or CI. Data and materials recovered from archaeological survey and excavation are processed in the laboratory; includes artifact cleaning, cataloging, identification, and analysis; soil flotation; reconstruction and conservation of artifacts, mapmaking, etc. May be offered as part of a summer (or other semester) field session. May be combined with Florida Archaeology and Field Methods in Archaeology.
- ANT 4181 MUSEUM METHODS (4)**
PR: ANT 3100 and CI. Design, preparation and installation of exhibits in the Department of Anthropology Teaching Exhibit Gallery. Emphasis on theory, research, design, and construction. Discussion of museum-related issues such as administration and curation.
- ANT 4226 ANTHROPOLOGY OF ART -6A (3)**
PR: ANT 2410 or CI. An examination of the relationship between the visual arts (sculpture, painting, masks, carving, etc.) and culture in non-Western societies. Emphasis on formal symbolic and functional comparative analysis of specific art styles based on crosscultural materials. Consideration of diffusion and change of art forms, commercial and ethnic arts, and role of the artist.
- ANT 4231 FOLKLORE -6A (3)**
PR: ANT 2410 or CI. Focuses on crosscultural methods and techniques regarding the collection, classification, and analysis of such materials as myths, jokes, games, and items of material culture. African (or African-derived), Oceanic and Native American societies are surveyed.
- ANT 4241 MAGIC AND RELIGION -6A -XMW (3)**
PR: ANT 2410 or CI. The crosscultural study of the social and cultural aspects of religion. Religious activities in traditional and modern societies will be discussed. Ritual behavior, religious practitioners and symbols of belief will be considered in light of their impact on the social, political or economic aspects of peoples' lives.
- ANT 4302 SEX ROLES IN CROSS-CULTURAL PERSPECTIVE -XMW (3)**
PR: ANT 2410 or CI. Focuses on various theories, models and beliefs about male-female behaviors and interactions

in human cultures throughout history and in various societies in the world today. (Also offered under Women's Studies.)

- ANT 4305 VISUAL ANTHROPOLOGY (3)**
PR: ANT 2410 or CI. The use of photographic techniques for the crosscultural recording and analysis of human activities. The study of ethnographic photography as both art and science, and the production of an anthropological study that expresses the goal of "visual literacy." Review and evaluation of the uses of visual techniques and the evidence they provide to the social scientist.
- ANT 4312 NORTH AMERICAN INDIANS (3)**
PR: ANT 2410 or CI. An examination of the evidence for the origin and antiquity of human beings in North America and of patterns of regional development until the period of contact with European colonists. Emphasis on varieties of ecological adaptation, social, political and religious systems, enculturation and worldview, folklore and visual art.
- ANT 4316 ETHNIC DIVERSITY IN THE UNITED STATES -XMW (3)**
PR: ANT 2410 or CI. Special concerns include ethnic diversity in American society, historical and contemporary diversity in values, experiences, and lifestyles, and an examination of policies and problems affecting ethnic groups in the United States.
- ANT 4324 MEXICO AND CENTRAL AMERICA -XMW (3)**
PR: ANT 2410 or CI. Focuses on the history, contemporary values and interpersonal relationships, and patterns of rural and urban life in Mesoamerica. Guatemala and Mexico are emphasized.
- ANT 4340 THE CARIBBEAN -6A -XMW (3)**
PR: ANT 2410 or CI. Main themes include: the depopulation of the aboriginal population and the resettlement of the area via slavery, indenture, and migration; contemporary ethnic heterogeneity; economic problems of Third World microstates; development of a modern social and political consciousness. Religious diversity, music, the graphic arts, and the literature of the contemporary Caribbean will also be surveyed. (Also offered under Africana Studies.)
- ANT 4432 THE INDIVIDUAL AND CULTURE -6A -XMW (3)**
PR: ANT 2410 or CI. The relationship between the individual and society is studied crossculturally. Main themes include child-rearing practices, psychosomatic illness and curing. Discussion of theories and models of personality development with special reference to their applicability to the emerging field of cross-cultural mental health planning.
- ANT 4442 URBAN LIFE AND CULTURE (3)**
PR: ANT 2410 or CI. The crosscultural study of urbanization, urbanism and human problems associated with metropolitan environments. Emphasis on the ethnography of city life and its relationship to the practical applications of urban research.
- ANT 4462 HEALTH, ILLNESS, AND CULTURE (3)**
PR: ANT 2410 or CI. The study of health and human behavior in crosscultural perspective. Main themes include: the impact of disease on the development of human culture; comparative studies of curing practices; medical systems in their relationship to ideology. Emphasis on understanding the role of medicine, and the behavior of both practitioners and patients in modern societies.
- ANT 4495 METHODS IN CULTURAL RESEARCH (3)**
PR: CI. The stages in the development and execution of ethnological research are discussed and practiced. Literature search, hypothesis formation, selection of data collection techniques, elicitation of information, data analysis, and report presentation are stressed. Research design models from the case literature are studied and supervised research in the local community is designed and carried out.
- ANT 4520 FORENSIC ANTHROPOLOGY (3)**
A detailed overview of forensic anthropology, skeletal variation, techniques of determining sex, age, population affiliation, aspects of osteological individuality and identification, methods of osteological analysis. Open to majors/minors only.

- ANT 4552 EVOLUTIONARY BIOLOGY OF THE PRIMATES** (3)
PR: ANT 3511 or CI. A survey of non-human primates focusing on biological and evolutionary patterns. Anatomy, genetics, and evolution are stressed; major primate types are surveyed for their biological adaptation. Primate socio-biology is discussed.
- ANT 4583 PREHISTORIC HUMAN EVOLUTION -NS** (3)
PR: ANT 3511 or CI. A survey of the fossil record from the early primates through the ascent of Homo sapiens sapiens, focusing on the human lineage. Biosocial patterns and cultures of the past are also covered.
- ANT 4587 HUMAN VARIATION** (3)
PR: ANT 3511 or CI. An overview of evolution and biological variations of human races. Anatomical, morphological, and physiological patterns are surveyed geographically. Cultural influences on racial biology are explored.
- ANT 4620 LANGUAGE AND CULTURE -6A** (3)
PR: ANT 3610 or CI. Examines the relationships between language and culture in crosscultural perspective. Explores the extent to which languages shape the world views of their speakers. Emphasis on the nature and degree of fit between linguistics and other cultural systems of knowledge.
- ANT 4705 APPLIED ANTHROPOLOGY** (3)
PR: ANT 2410 or CI. A review of approaches applying the anthropological perspective to contemporary human problems. Particular emphasis placed on public policy issues in United States society. Discussion of the historical development of applied anthropology, problems of economic development of the Third World, and the ethics of applied research and intervention.
- ANT 4750 LANGUAGE AND SOCIAL INTERACTION -6A** (3)
PR: ANT 3610 or CI. Examines the role of language and other modes of communication in the social settings of speech communities. Student field projects focus on the crosscultural description and analysis of patterns of communication in ethnographic contexts.
- ANT 4901 DIRECTED READING** (1-4)
PR: CI. Individual guidance in concentrated reading on a selected topic in anthropology. Contract required prior to registration. (S/U only.)
- ANT 4907 INDIVIDUAL RESEARCH** (2-4)
PR: CI. Individual guidance in a selected research project. Contract required prior to registration. (S/U only.)
- ANT 4930 SPECIAL TOPICS IN ANTHROPOLOGY** (3)
PR: CI. Topics to be chosen by students and instructor permitting newly developing interdisciplinary special interests to be explored. May be repeated as topics vary.
- ANT 4932 HONORS SEMINAR** (4)
PR: Admission to the honors program in anthropology and CI. Seminar designed to provide the honors student with an opportunity to present, discuss and defend his/her own research and to explore in-depth topics in several areas of anthropology.
- ANT 4935 RETHINKING ANTHROPOLOGY -6A** (3)
PR: Senior standing with major in anthropology, or equivalent. Through discussion of readings and student papers, students rethink and reevaluate anthropology as a discipline and the integration of its branches and specialty fields. Students develop and articulate their current images of anthropology.
- ANT 4970 HONORS THESIS** (3)
PR: Admission to the honors program, completion of the honors seminar and CI. The student under the supervision of a faculty member will formalize, conduct, analyze, and report in writing a research project in anthropology. (S/U only.)
- ANT 5904 DIRECTED READING** (1-4)
PR: CI. Individual guidance in concentrated reading on a selected topic in anthropology. Contract required prior to registration. (S/U only.)
- ANT 5915 INDIVIDUAL RESEARCH** (2-4)
PR: CI. Individual guidance in a selected research project. Contract required prior to registration. (S/U only.)

- ANT 5937 SEMINAR IN ANTHROPOLOGY** (2-4)
PR: Graduate standing. Topics to be chosen by students and instructor.

Astronomy

- AST 2005 ASTRONOMY OF THE SOLAR SYSTEM -NS** (4)
Introduction to the Astronomy of the Solar System. No Physics background assumed. Topics covered include properties of light, stellar coordinates, timekeeping, eclipses, formation and dynamics of the solar system, properties of the sun and planets, space exploration of planets and the moon, life on other worlds. This course is complementary to but independent of AST 2006. Either may be taken before the other or taken by itself.
- AST 2006 STELLAR ASTRONOMY AND COSMOLOGY -NS** (4)
An introduction to Astrophysics and the structure of the universe. No Physics background assumed. Topics covered include properties of light, stellar coordinates, measurement of the physical properties of stars, formation, structure and evolution of stars, normal and peculiar galaxies, cosmology. This course is complementary to but independent of AST 2005. Either may be taken before the other or taken by itself.
- AST 2032C ILLUSTRATIVE ASTRONOMY** (3)
Constellations, use of small telescopes, etc., apparent motions of celestial objects, comets and meteors, seasons, weather. Current events in the space program. Planetarium and open sky demonstrations. Lec.-lab.
- AST 3033 CONTEMPORARY THINKING IN ASTRONOMY -NS** (3)
PR: Junior or Senior Standing or CI. Seminar designed to assist the layman, with no scientific background, in comprehending contemporary developments in Astronomy. Necessary background material is provided by the instructor and a text. Topics covered in recent years include the space program, pulsars, x-ray astronomy, black holes, extra-terrestrial life, interacting galaxies, cosmology.
- AST 3044 ARCHAEOASTRONOMY** (3)
PR: Jr. or Sr. Standing or CI. Astronomical concepts and observational techniques used by prehistoric/ancient peoples for detecting change of seasons, constructing calendars, predicting eclipses, etc. Particular attention is given to Stonehenge, and to works of N.A. Indians, the Maya and Aztecs, and the Egyptians. Lec.-lab.
- AST 3652 NAVIGATION** (3)
PR: Some knowledge of geometry, algebra, and trigonometry. Timekeeping, use of sextant, constellations, celestial navigation with minimum equipment, spherical astronomy.
- AST 3930 SELECTED TOPICS IN ASTRONOMY** (1-4)
PR: CI. Course content will depend upon the interest of the faculty member and student demand. May be repeated up to 8 credit hours.
- AST 5506 INTRODUCTION TO CELESTIAL MECHANICS** (3)
PR: MAC 2313 or MAC 2283 and some knowledge of differential equations, or CI. The two-body problem, introduction to Hamiltonian systems and canonical variables, equilibrium solutions and stability, elements of perturbation theory.
- AST 5932 SELECTED TOPICS IN ASTRONOMY** (1-5)
PR: Senior or advanced junior standing or CI. Intensive coverage of special topics to suit needs of advanced students.

Bachelor of Independent Studies

- HUM 4909 BIS HUMANITIES, INDEPENDENT STUDY** (15)
(S/U only)
- HUM 4939 BIS HUMANITIES, SEMINAR** (15)
PR: BIS HUM 4909 or CI (S/U only)
- IDS 4990 BIS INTER-AREA STUDIES** (30)
PR: ISS 4909, ISS 4939, ISC 4909, ISC 4939, HUM 4909, HUM 4939. (S/U only)
- ISC 4909 BIS NATURAL SCIENCES, INDEPENDENT STUDY**(15)
(S/U only)
- ISC 4939 BIS NATURAL SCIENCES, SEMINAR** (15)
PR: BIS ISC 4909 or CI (S/U only)

- ISS 4909 *BIS SOCIAL SCIENCES, INDEPENDENT STUDY* (15)
(S/U only)
- ISS 4939 *BIS SOCIAL SCIENCES, SEMINAR* (15)
PR: BIS ISS 4909 or CI (S/U only)

Biology

NOTE: Designated levels indicate for whom courses are intended: 2000-Freshmen/Sophomore, 3000-Junior, 4000-Senior, 5000-Advanced Seniors and Graduate Student status. Student who attempt higher-level courses too early may not do well in them.

- BOT 3373C VASCULAR PLANTS: FORM AND FUNCTION** (4)
PR: BSC 2010, 2010L, BSC 2011, 2011L. Introduction to morphology, physiology, and evolution of vascular plants, integrating form and function to understand diversity. Lec-lab.
- BOT 4143C FIELD BOTANY** (3)
PR: BOT 3373C. Identification and classification of native and naturalized flowering plants of Florida including historical, climatic and floristic aspects of plant communities. Conducted largely in the field. Lec-lab.
- BOT 4223C PLANT ANATOMY** (3)
PR: BOT 3373C. Comparative studies of tissue and organ systems of fossil and present-day vascular plants. Functional and phylogenetic aspects stressed. Lec-lab.
- BOT 4434C MYCOLOGY** (3)
PR: BOT 3373C or MCB 3030C. A survey of the fungi with emphasis on their taxonomy, morphology, physiology and economic importance. Lec-lab.
- BOT 4503 PLANT PHYSIOLOGY** (3)
PR: PCB 3023. Fundamental activities of plants: absorption, translocation, transpiration, metabolism, growth, and related phenomena. Lec.
- BOT 4503L PLANT PHYSIOLOGY LABORATORY** (1)
CR/PR: BOT 4503. Laboratory portion of Plant Physiology.
- BOT 4713C PLANT TAXONOMY** (4)
PR: BOT 3373C. Principles of vascular plant systematics and evolution. Lec-lab.
- BOT 4810 ECONOMIC BOTANY** (3)
PR: BOT 3373C. Study of the uses of plants by man for food, chemicals, fibers, and medicines. Lec.
- BOT 4850 MEDICAL BOTANY** (3)
PR: BSC 2010, 2010L, BSC 2011, 2011L, CHM 3211, and Junior standing. Study of agents that are produced by plants and that are toxic or psychoactive in human beings or are useful as remedies. Lec.
- BOT 5185C MARINE BOTANY** (4)
PR: BOT 3373C and PCB 3043 or CI. A field course in marine plants with emphasis on ecology and functional morphology. Field work will stress the ecological aspects of plants in a subtropical marine environment in Florida. Lec-lab.
- BSC 1005 BIOLOGICAL PRINCIPLES FOR NON-MAJORS-NS** (3)
Lectures and demonstrations of selected biological principles, usually taught by television. For non-majors only. NO CREDIT FOR MAJORS.
- BSC 2010 BIOLOGY I-CELLULAR PROCESSES -NS** (3)
CR/PR: CHM 2041. An analysis of biological systems at the cellular and subcellular levels: cell structure and function, respiration, photosynthesis, mitosis and meiosis, genetics and gene expression. Lec.
- BSC 2010L BIOLOGY I CELLULAR PROCESSES LABORATORY** (1)
CR/PR: BSC 2010. Laboratory portion of Biology I Cellular Processes.
- BSC 2011 BIOLOGY II-DIVERSITY-NS** (3)
An analysis of biological systems at the organismal and supraorganismal levels: evolution, speciation, history of life, and ecology. Lec.
- BSC 2011L BIOLOGY II DIVERSITY LABORATORY** (1)
CR/PR: BSC 2011. Laboratory portion of Biology II Diversity.
- BSC 2022 BIOLOGY OF AGING-NS** (3)
An introduction to the basic biology of aging. Emphasis will

be placed on understanding basic principles of biology relevant to time and the aging process which begins at birth. Lec. **May be taken by majors for free elective credit.**

- BSC 2025 FOOD: PERSONAL AND GLOBAL PERSPECTIVES -NS** (3)
The application of basic biological principles to human nutritional problems, to learn how various cultures achieve adequate nutrition and how environmental changes impact both personal and global nutrition. Lec. **May be taken by majors for free elective credit.**
- BSC 2030 SAVE THE PLANET-NS** (3)
An introduction to environmental sciences via television and independent study. Emphasis will be placed on understanding basic principles of ecology relevant to problems and topics of the earth's environment. **May be taken by majors for free elective credit. Credit will be given for either BSC 2030 or BSC 2050, but not both.**
- BSC 2035 SEX & TODAY'S WORLD-NS** (3)
The application of basic biological principles to female and male sexual behavior and reproduction; current social problems are treated from a biological perspective. Lec. **May be taken by majors for free elective credit.**
- BSC 2050 ENVIRONMENT-NS** (3)
The application of basic scientific principles to global environmental problems; how human activities impact the environment. Lec. **May be taken by majors for free elective credit. Credit will be given for either BSC 2030 or BSC 2050, but not both.**
- BSC 2092 HUMAN ANATOMY & PHYSIOLOGY** (5)
PR: BSC 2010. Structure and functions of the human body. Lec. **May be taken by majors for free elective credit.**
- BSC 2932 SELECTED TOPICS IN BIOLOGY** (1-4)
May be repeated.
- BSC 3263 MARINE BIOLOGY** (3)
PR: BSC 2010, 2010L, BSC 2011, 2011L. A survey of marine environment, the types of organisms found inhabiting a variety of marine habitats, and the adaptations of the organisms to those habitats. Emphasis is on shallow water Florida environments. Lec.
- BSC 4057 ENVIRONMENTAL ISSUES-XMW** (3)
Study of biological, economic, ethical, legal, political and social issues relating to current environmental problems. Lec. **May be taken by majors for free elective credit only.**
- BSC 4402L BIOLOGICAL RESEARCH METHODS** (3)
PR: BSC 4931 or BSC 4932. A course to prepare Biology Honors students to work on their Honors theses. Enrollment is limited to Biology Department students. **S/U only.**
- BSC 4850 SOCIOBIOLOGY** (3)
An analysis of Animal and human behavior such as sex, territoriality, and aggression in the context of evolution. This course is restricted to seniors.
- BSC 4905 INDEPENDENT STUDY** (1-3)
PR: CI and CC. Specialized independent study determined by the student's needs and interests. The written contract required by the Department of Biology specifies the regulations governing independent study. May be repeated. **S/U only.**
- BSC 4910 UNDERGRADUATE RESEARCH** (1-4)
PR: CI and CC. Individual investigation with faculty supervision. **S/U only.**
- BSC 4931 BIOLOGY HONORS SEMINAR I** (2)
A course linked to the Biology Departmental Seminar in which students read publications related to the seminars, discuss the presentations and write critiques. Enrollment is limited to Biology Department Honors students.
- BSC 4932 BIOLOGY HONORS SEMINAR II** (3)
A reading and discussion course involving areas of general interest in biology. Enrollment is limited to Biology Department Honors students.
- BSC 4933 SELECTED TOPICS IN BIOLOGY** (1-3)
May be repeated.
- BSC 4970 BIOLOGY HONORS THESIS** (1-3)
PR: BSC 4402L. A thesis based on independent research carried out by the student. Enrollment is limited to Biology Department Honors students. May be repeated; only four credit hours may count for the major. **S/U only.**

- BSC 5931 SELECTED TOPICS IN BIOLOGY** (1-3)
May be repeated.
- ENY 4004C INTRODUCTION TO ENTOMOLOGY** (3)
PR: BSC 2010, 2010L, BSC 2011, 2011L. An introduction to general aspects of insect morphology, development, and classification. The identification of local forms will be emphasized. Lec-lab.
- ENY 5005C AQUATIC ENTOMOLOGY** (3)
PR: ENY 4004C or CI. Taxonomy, development, and ecology of aquatic insects with emphasis on local forms. Lec-lab.
- MCB 3020C GENERAL MICROBIOLOGY** (4)
PR: BSC 2010, BSC 2011, and CHM 2210. Genetics is recommended. Introduction to the biology of microorganisms: structure, physiology, and ecology of bacteria, algae, viruses, protozoa and lower fungi. The laboratory involves preparation of culture media, staining, pure culture methodology, isolation of microbes from nature, enumeration techniques, resistance to infectious disease. Lec-lab.
- MCB 4115C DETERMINATIVE BACTERIOLOGY** (5)
PR: MCB 3020C. Survey of bacterial classification; detailed examinations of bacteria important to man in agriculture, industry and as pathogens. Lec-lab.
- MCB 4404 MICROBIAL PHYSIOLOGY AND GENETICS** (4)
PR: MCB 3020C, PCB 3023, and BCH 3023. A study of the physiological, metabolic, and genetic phenomena pertinent to understanding the growth, development, ecology, regulation, and reproduction of microorganisms. The course emphasizes the interdependence of physiological and genetic approaches to microbiology. Lec.
- MCB 4404L MICROBIAL PHYSIOLOGY & GENETICS LABORATORY** (1)
CR/PR: MCB 4404. Laboratory portion of Microbial Physiology & Genetics.
- MCB 4502 VIROLOGY** (3)
PR: MCB 3020C. The biology of viruses associated with plants, animals, and bacteria will be considered; the nature of viruses, mechanisms of viral pathogenesis, and interactions with host cells. Lec.
- MCB 4910 MICROBIOLOGY UNDERGRADUATE RESEARCH** (1-4)
PR: CI AND CC. Individual investigation with faculty supervision. **S/U only.**
- MCB 4934 SEMINAR IN MICROBIOLOGY** (1)
CC. Advanced Junior or Senior standing. May be repeated. **S/U only.**
- MCB 5206 PUBLIC HEALTH AND PATHOGENIC MICROBIOLOGY** (3)
PR: MCB 3020C or CI. A comprehensive survey of pathogenic microbes responsible for disease in man and other animals and the impact of these infectious agents on the public health. These pathogens will be studied with respect to their morphology, cultivation, mechanisms of pathogenicity, laboratory diagnosis, and epidemiology. Lec.
- MCB 5815 MEDICAL MYCOLOGY** (3)
PR: MCB 3020C or CI. A modern biological survey of the medically important fungi (yeasts and molds) important to microbiologists and environmental scientists. Lec-lab.
- PCB 3023 CELL BIOLOGY** (3)
PR: CHM 2211, 2211L, and PCB 3063. A discussion of the concept and significance of the cell to biology; biological molecules and metabolic processes within the cell; cellular energy conversion systems; and control of cellular metabolism. Lec.
- PCB 3023L CELL BIOLOGY LABORATORY** (1)
CR/PR: PCB 3023. Laboratory portion of Cell Biology.
- PCB 3043 PRINCIPLES OF ECOLOGY** (3)
PR: BSC 2010, 2010L, BSC 2011, 2011L. An introduction to the basic principles and concepts of ecology at the ecosystem, community, and population level of organization. Lec.
- PCB 3043L ECOLOGY LABORATORY** (1)
CR/PR: PCB 3043. Laboratory portion of Principles of Ecology.
- PCB 3063 GENERAL GENETICS** (3)
PR: BSC 2010, 2010L, BSC 2011, 2011L. Introduction to genetics including the fundamental concepts of Mendelian, molecular and population genetics. Lec.
- PCB 3063L GENETICS LABORATORY** (1)
CR/PR: PCB 3063. Laboratory portion of General Genetics.
- PCB 4064C EXPERIMENTAL GENETICS** (3)
PR: PCB 3063. Experimental analysis of genetic systems. Lec-lab.
- PCB 4253 DEVELOPMENTAL BIOLOGY** (3)
PR: PCB 3023. Topics in modern developmental biology to gain a working knowledge and understanding of the cellular and molecular mechanisms of cell differentiation in both plants and animals. Lec.
- PCB 4674 ORGANIC EVOLUTION** (3)
PR: PCB 3063. An introduction to modern evolutionary theory. Population genetics, adaptations, speciation theory, phylogeny, human evolution and related areas. Lec.
- PCB 4723 ANIMAL PHYSIOLOGY** (3)
PR: PCB 3023. Advanced presentation of mechanisms employed by animals to interact with their environments and to maintain their organization. Lec.
- PCB 4723L ANIMAL PHYSIOLOGY LABORATORY** (1)
CR/PR: PCB 4723. Laboratory portion of Animal Physiology.
- PCB 5235 PRINCIPLES OF IMMUNOLOGY** (3)
PR: PCB 3023 or CI. Course will emphasize the basic cellular and molecular mechanisms involved in the vertebrate immune response. Lec.
- PCB 5306 LIMNOLOGY** (3)
PR: CI. An introduction to the physical, chemical, and biological nature of freshwater environments. Lec.
- PCB 5306L LIMNOLOGY LABORATORY** (1)
CR/PR: PCB 5306. Laboratory portion of Limnology.
- PCB 5415 BEHAVIORAL ECOLOGY** (3)
PR: PCB 3043 or CI. An emphasis on the evolutionary mechanisms that influence an organism's behavioral responses to environmental events. The theoretical framework is presented and analyzed. Lec.
- PCB 5525 MOLECULAR GENETICS** (3)
PR: PCB 3063 or CI. Detailed examination of DNA, RNA, and protein synthesis; the effects of mutations on proteins, cellular control; selected aspects of viral, bacterial, and fungal genetics. Lec.
- PCB 5845 PRINCIPLES OF NEUROSCIENCE** (4)
PR: PCB 4723 or CI. Study of the mammalian brain's structure and function with an emphasis on the neuroanatomy, neuropharmacology, and neurophysiology of the human brain. Lec.
- ZOO 2203 INVERTEBRATE ZOOLOGY** (3)
PR: BSC 2010, 2010L, BSC 2011, 2011L. An introduction to the major invertebrate groups with emphasis on local forms. Field work will be required. Lec.
- ZOO 2203L INVERTEBRATE ZOOLOGY LABORATORY** (1)
CR/PR: ZOO 2203. Laboratory portion of Invertebrate Zoology.
- ZOO 2713C COMPARATIVE VERTEBRATE ANATOMY** (4)
PR: BSC 2010, 2010L, BSC 2011, 2011L. Anatomy of selected vertebrate types emphasizing evolutionary trends. Lec-lab.
- ZOO 4513C ANIMAL BEHAVIOR** (3)
PR: PCB 3043 and PCB 3063. An introduction to comparative animal behavior (Ethology) with emphasis on communication, social use of space, and behavioral evolution. Lec.
- ZOO 4603C ANIMAL EMBRYOLOGY** (4)
PR: PCB 3023. Structural and functional events involved in differentiation and morphogenesis. Lec-lab.
- ZOO 4753C HISTOLOGY** (4)
PR: PCB 3023. Comparative approach to the study of tissues and the relation of their structure and function. Lec-lab.
- ZOO 5235 PARASITOLOGY** (3)
PR: BSC 2010, 2010L, BSC 2011, 2011L or CI. Fundamentals of animal parasitology and parasitism, the biology

of selected animal parasites, including those of major importance to man. Lec.

ZOO 5425C HERPETOLOGY (3)

PR: ZOO 2713C or Cl. Major aspects of amphibian and reptilian biology emphasizing fossil history, evolutionary morphology, sensory physiology, life history and reproductive behavior. Field trip-Lec-lab.

ZOO 5456C ICHTHYOLOGY (4)

PR: Senior or GS in Department and ZOO 2713C or Cl. PCB 4674 is recommended. Evolution, systematics, structure, behavior, physiology, and ecology of fishes. Lec-lab.

ZOO 5555C MARINE ANIMAL ECOLOGY (4)

PR: PCB 3043 or Cl. Investigation of energy flow, biogeochemical cycles, and community structure in marine environments. Lec-lab.

Chemistry

BCH 3023 INTRODUCTORY BIOCHEMISTRY (3)

PR: CHM 2200 or CHM 2211 and BSC 2010C. Introduction to the chemistry and intermediary metabolism of biologically important substances. Lec.

BCH 3023L BASIC BIOCHEMISTRY LABORATORY (2)

CR: BCH 3023. Practical work in determination and characterization of important biomolecules. Lec.-lab.

BCH 4034 ADVANCED BIOCHEMISTRY (3)

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

BCH 5045 BIOCHEMISTRY CORE COURSE (3)

PR: Either CHM 2211, CHM 2211L, and CHM 3400 or CHM 4410 or graduate standing. A one-semester survey course in biochemistry for graduate students in chemistry, biology, and other appropriate fields and for particularly well-qualified undergraduates. Lec.

CHM 2021 CHEMISTRY FOR TODAY (3)

A one semester terminal course designed to survey some of the important concepts and technologies of modern chemistry. No credit for science majors.

CHM 2030 INTRODUCTION TO GENERAL, ORGANIC AND BIOCHEMISTRY I (3)

First half of a two-semester sequence. Fundamental concepts of general, organic, and biological chemistry. No credit for science majors.

CHM 2031 INTRODUCTION TO GENERAL, ORGANIC AND BIOCHEMISTRY II (3)

PR: CHM 2030. Second half of general, biological and organic chemistry. No credit for science majors.

CHM 2040 INTRODUCTORY GENERAL CHEMISTRY -NS (4)

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

CHM 2041 GENERAL CHEMISTRY I -NS (3)

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

CHM 2045L GENERAL CHEMISTRY I LABORATORY (1)

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

CHM 2046 GENERAL CHEMISTRY II -NS (3)

PR: CHM 2041 or CHM 2045L or equivalent. Continuation of General Chemistry. Lec.-dis.

CHM 2046L GENERAL CHEMISTRY II LABORATORY (1)

PR: CHM 2045L. Laboratory portion of General Chemistry II. Continuation of chemistry laboratory.

CHM 2200 ORGANIC CHEMISTRY (4)

PR: CHM 2046 or equivalent. Fundamental organic chemistry principles. Structure, nomenclature, properties, preparation, reactions of hydrocarbons, alkyl halides, alcohols, phenols, ethers, sulfur analogs and other compounds. A one-semester course.

CHM 2210 ORGANIC CHEMISTRY I (3)

PR: CHM 2046, CHM 2046L. Fundamental principles of organic chemistry. Lecture.

CHM 2210L ORGANIC CHEMISTRY LABORATORY I (2)

CR: CHM 2200 or CHM 2210. Laboratory portion of Organic Chemistry I. Introduction of organic laboratory principles and techniques.

CHM 2211 ORGANIC CHEMISTRY II (3)

PR: CHM 2210 or equivalent. Continuation of organic chemistry. Lecture.

CHM 2211L ORGANIC CHEMISTRY LABORATORY II (2)

PR: CHM 2210L, CR: CHM 2211. Continuation of organic chemistry laboratory.

CHM 2932 SELECTED TOPICS IN CHEMISTRY (3)

Topics of interest to students relating to chemistry and other sciences.

CHM 3120C ELEMENTARY ANALYTICAL CHEMISTRY (4)

PR: CHM 2046, CHM 2046L. Fundamentals of gravimetric, volumetric, spectrophotometric analysis. Lec.-lab.

CHM 3400 ELEMENTARY PHYSICAL CHEMISTRY I (3)

PR: CHM 2046, CHM 2046L, MAC 2281 or MAC 2311, PHY 2054, PHY 2054L. Introduction to thermodynamics. Properties of solutions with emphasis on biological applications.

CHM 3401 ELEMENTARY PHYSICAL CHEMISTRY II (3)

PR: CHM 3400. Reaction kinetics, enzyme kinetics, macromolecular systems, radiochemistry, molecular spectroscopy, and chemical bonding.

CHM 3402L ELEMENTARY PHYSICAL CHEMISTRY LABORATORY (1)

PR: CHM 3120C. CR: CHM 3400 and/or CHM 3401. A physical chemistry laboratory with emphasis on modern techniques and instruments. Lab.

CHM 3610C INTERMEDIATE INORGANIC CHEMISTRY (4)

PR: CHM 2046, CHM 2046L. Fundamental principles of inorganic chemistry including atomic structure, bonding theories and structural consequences, transition metal chemistry and illustrative laboratory work. Lec.-lab.

CHM 4060 USE OF THE CHEMICAL LITERATURE (1)

Discussions and assignments using abstracts, bibliographies, indices, encyclopedias, journals, patent files, electronic databases, and other information sources to obtain chemical and technical material and including written and oral presentations. Career information and opportunities also discussed.

CHM 4070 HISTORICAL PERSPECTIVES IN CHEMISTRY -6A -XMW (3)

PR: One year of college chemistry; or senior standing and Cl. A study in depth of the historical and philosophical aspects of outstanding chemical discoveries and theories. Lec.-dis.

CHM 4130C METHODS OF CHEMICAL INVESTIGATION I (4)

PR: CHM 3120C, CHM 2211, CHM 2211L, CHM 4060, CHM 4410. Theory and applications of instrumental methods in chemical research, chemical synthesis and analysis; electrochemical and calorimetric techniques, separation methods, spectroscopy, statistical analysis of data, computer data handling, and individual projects.

CHM 4131C METHODS OF CHEMICAL INVESTIGATION II (4)

PR: CHM 4130C. Continuation of CHM 4130C.

CHM 4300 BIOMOLECULES I (3)

PR: CHM 2211. Nature, structure, elucidation, synthesis and (in selected cases) organic chemical mechanisms of biochemical involvement of the major classes of organic compounds found in living systems. Lec.

CHM 4410 PHYSICAL CHEMISTRY I (3)

PR: CHM 3120C and MAC 2282 or MAC 2312, and PHY 2054 or PHY2049. Thermodynamics, the states of matter, solutions. Lec.

- CHM 4411 PHYSICAL CHEMISTRY II** (3)
PR: CHM 3120C, and MAC 2282 or MAC 2312, and PHY 2054 or PHY 2049. Introduction to quantum mechanics and molecular spectroscopy. Lec.
- CHM 4412 PHYSICAL CHEMISTRY III** (3)
PR: CHM 4410. Electrochemistry, kinetic theory of gases, chemical kinetics, surface and nuclear chemistry. Lec.
- CHM 4610 ADVANCED INORGANIC CHEMISTRY** (3)
PR: CHM 3610 and CHM 4410 or CI. An advanced descriptive and theoretical treatment of inorganic compounds. Lec.
- CHM 4905 INDEPENDENT STUDY** (1-3)
PR: CI. Specialized independent study determined by the student's needs and interests. The written contract required by the College of Arts and Sciences specifies the regulations governing independent study. May be repeated. (S/U only)
- CHM 4932 SELECTED TOPICS IN CHEMISTRY** (1-3)
PR: CI. The course content will depend on the interest of faculty members and student demand.
- CHM 4970 UNDERGRADUATE RESEARCH** (1-3)
PR: CI. (S/U only)
- CHM 5225 INTERMEDIATE ORGANIC CHEMISTRY** (3)
PR: CHM 2211, CHM 2211L, or equivalent. This course will extend organic chemistry beyond the undergraduate level and will emphasize concepts of stereochemistry and reaction mechanisms.
- CHM 5226 INTERMEDIATE ORGANIC CHEMISTRY II** (3)
PR: CHM 5225 or CI. An introduction to synthetic organic chemistry for graduate students and advanced undergraduates. Lec. Semester II.
- CHM 5425 APPLICATIONS IN PHYSICAL CHEMISTRY** (3)
PR: CHM 4411, CHM 4412 or equivalent. Applications of chemical theory to chemical systems.
- CHM 5452 POLYMER CHEMISTRY** (3)
PR: Either CHM 2211, CHM 2211L, and CHM 3400 or CHM 4410 or graduate standing. Fundamentals of polymer synthesis, structure, properties, and characterization.
- CHM 5621 PRINCIPLES OF INORGANIC CHEMISTRY** (3)
PR: CHM 4411 or CI. Chemical forces, reactivity, periodicity, and literature in inorganic chemistry; basic core course. Lec.
- CHM 5931 SPECIAL TOPICS IN CHEMISTRY** (1-3)
PR: CI. The following courses are representative of those that are taught under this title: Natural Products, Stereochemistry, Reactive Intermediates, Photochemistry, Instrumental Electronics, Advanced Lab Techniques, Heterocyclic Chemistry, etc.
- CHS 4100C NUCLEAR CHEMISTRY** (3)
PR: CHM 3120C. Theory and application of natural and induced radioactivity. Emphasis on the production, properties, measurement, and uses of radioactive tracers. Lec.-lab.
- CHS 4300 FUNDAMENTALS OF CLINICAL CHEMISTRY** (3)
PR: BCH 3033. Theoretical and practical aspects of the analysis of various body fluids, with emphasis on the medical significance. Clinical chemistry majors must take CHS 4301L concurrently. Lec.
- CHS 4301L CLINICAL LABORATORY** (2)
PR: BCH 3033 and CI, CHM 3120C. Laboratory experience in some of the most important clinical determinations. CHS 4300 must be taken concurrently. Lec.-lab.
- CHS 4302 CLINICAL CHEMISTRY PRACTICE** (2-12)
PR: CI. Laboratory practice in clinical chemistry laboratories in the Tampa Bay area. (S/U only)
- CHS 4310C INSTRUMENTAL ANALYSIS** (4)
PR: CHM 4412 or CI. Theory and practice of instrumental methods of chemical analysis. Lec.-lab.

Classics

- CLA 3103 GREEK CIVILIZATION -HP** (3)
Study of Greek Civilization from its beginning to the Roman period, with emphasis on social customs, political institutions, and daily life.

- CLA 3123 ROMAN CIVILIZATION -HP** (3)
Study of Ancient Roman Civilization with emphasis on social customs, political institutions, and daily life.

Courses in Translation

- CLT 3040 CLASSICAL WORD ROOTS IN SCIENCE** (3)
A course in the Greek and Latin word elements used in science and technology.
- CLT 3101 GREEK LITERATURE IN TRANSLATION -6A -XMW** (3)
Reading and discussion of major works in Greek literature. Special emphasis on the *Iliad*, the dramatists Aeschylus, Sophocles, Euripides and Aristophanes. Some attention is given to the social and political background of the works. All readings are in English.
- CLT 3102 ROMAN LITERATURE IN TRANSLATION -6A -XMW** (3)
Reading and discussion of major works in Roman literature. Special emphasis is placed on the *Aeneid*, comedy and satire. Some attention is given to the political background of the works. All readings are in English.
- CLT 3370 CLASSICAL MYTHOLOGY -HP** (3)
Study of Greek and Roman myths embodied in classical literature and of their impact on Western civilization. All readings are in English.

Greek

- GRE 1120 BEGINNING CLASSICAL GREEK I** (4)
An introductory course in classical Greek grammar with appropriate readings.
- GRE 1121 BEGINNING CLASSICAL GREEK II** (4)
PR: GRE 1120 or equivalent. An introductory course in classical Greek grammar with appropriate readings.
- GRE 2200 INTERMEDIATE CLASSICAL GREEK** (4)
PR: GRE 1121 or equivalent. Readings in Greek at an intermediate level.
- GRW 4905 DIRECTED READING** (1-4)
Departmental approval required.
- GRW 5905 DIRECTED READING** (1-4)
Departmental approval required.
- GRW 5934 SELECTED TOPICS** (4)
Study of an author, movement or theme. May be repeated up to 12 credit hours.

Latin

- LAT 1120 BEGINNING LATIN I** (4)
An introductory course in Latin grammar with appropriate readings.
- LAT 1121 BEGINNING LATIN II** (4)
PR: LAT 1120 or equivalent. An introductory course in Latin grammar with appropriate readings.
- LAT 2200 INTERMEDIATE LATIN** (4)
PR: LAT 1121 or equivalent. Readings in Latin at an intermediate level.
- LNW 2660 VERGIL** (4)
PR: LAT 1121 or equivalent. Readings in Vergil's *Aeneid*. Study of the tradition, techniques, and artistry of Roman epic poetry. Available to majors and non-majors.
- LNW 4381 LIVY** (4)
PR: Basic knowledge of Latin. Readings in the ideas and artistry of this Roman historian.
- LNW 4500 CICERO AND ROMAN PHILOSOPHY** (4)
PR: Basic knowledge of Latin. Readings in the philosophic writings of Cicero, together with a consideration of eclectic thought.
- LNW 4501 SENECA AND ROMAN PHILOSOPHY** (4)
PR: Basic knowledge of Latin. Readings in the philosophic writings of Lucius Annaeus Seneca, together with an examination of Stoic, Epicurean, and Eclectic thought.
- LNW 4634 CATULLUS** (4)
PR: Basic knowledge of Latin. Readings in Catullus. Study of techniques and tradition in Roman lyric poetry.
- LNW 4644 CICERO** (4)
PR: Basic knowledge of Latin. Readings in the epistles of Cicero.

- LNW 4654 HORACE** (4)
PR: Basic knowledge of Latin. Readings in the Odes and Epodes of Horace; study of the Ode's tradition.
- LNW 4670 OVID** (4)
PR: LAT 1121 or equivalent. Readings in Ovid's *Metamorphoses*. Study of Ovid's technique, style, and artistry.
- LNW 4900 DIRECTED READING** (1-4)
Departmental approval required.
- LNW 4930 SELECTED TOPICS** (4)
Study of an author, movement, or theme.
- LNW 5900 DIRECTED READING** (1-4)
Departmental approval required. (S/U only.)
- LNW 5934 SELECTED TOPICS** (4)
Study of an author, movement or theme. May be repeated up to 12 credit hours.

Communication

- COM 2000 INTRODUCTION TO COMMUNICATION -SS** (3)
Introduction to the roles, contexts, and issues in contemporary human communication. Required of Communication majors.
- COM 3014 COMMUNICATION, GENDER AND IDENTITY** (3)
Examines the communicative origins and implications of gender roles.
- COM 3110 COMMUNICATION FOR BUSINESS AND THE PROFESSIONS** (3)
Identification of communication situations specific to business and the professions. Analysis of variables related to communication objectives and preparation of oral presentations in the form of informational reports, conference management, persuasive communications, interviews, and public hearing. Note: For non-majors only.
- COM 3120 INTRODUCTION TO COMMUNICATION THEORY IN ORGANIZATIONS** (3)
PR: majors, COM 2000 or CI; non-majors, COM 3122 or COM 3110 or CI. A survey of communication concepts which impact upon organizational effectiveness.
- COM 3122 INTERVIEW COMMUNICATION** (3)
A study of communication theory relative to interview situations with emphasis on the employment interview, appraisal interview, and persuasive interview. **Students must sign up for a one-hour lab and the mass lecture.**
- COM 3122L INTERVIEW COMMUNICATION LAB** (0)
Interview laboratory for practice and individual consultation. Students must take this course in conjunction with the mass lecture COM 3122. Open to majors and non-majors. Not repeatable.
- COM 4030 WOMEN AND COMMUNICATION -6A -XMW** (3)
Examines women's patterns of communication in a variety of contexts. Cross-listed with Women's Studies.
- COM 4015 WRITING LIVES -6A** (3)
PR: Junior/Senior standing or CI. Emphasizes writing stories about our lives and the lives of others as a way to understand, cope with and communicate social experiences.
- COM 4027 COMMUNICATING ILLNESS, GRIEF, AND LOSS -6A** (3)
PR: Junior/Senior standing or CI. Focus on stories of illness, grief, and loss to make sense of these experiences; to understand the cultural and rhetorical influences on how stories are told; and to explore the context of everyday life, romantic relationship, families, institutions, and culture in which they occur.
- COM 4124 COMMUNICATION AND ORGANIZATIONAL CHANGE** (3)
PR: COM 3120 or CI. An advanced course covering current issues in organizational transformation (e.g., organizational dialogue, learning organizations, reengineering, work teams), and the role communication processes play in such changes.
- COM 4942 COMMUNICATION INTERN SEMINAR** (3)
PR: Communication major, minimum GPA 3.0, 75 hours completed, 15 hours of core requirements and 9 elective hours completed, and CI. Seminar provides students with an opportunity to put into practice concepts and skills acquired in their study of communication. Weekly seminar sessions augment intern experience. Application for seminar must be submitted one semester prior to seminar offering.
- COM 5930 TOPICS IN COMMUNICATION STUDIES** (3)
Topical issues in communication. Rpt. up to 12 hours as topics vary.
- ORI 2000 INTRODUCTION TO COMMUNICATION AS PERFORMANCE** (3)
Designed to develop proficiency in the understanding and oral communication of literary and other written materials.
- ORI 3950 COMMUNICATION AS PERFORMANCE LAB** (1-3)
PR: ORI 2000 or CI. The study, rehearsal, and performance of literature for Readers Theatre and Chamber Theatre productions. May be repeated (maximum total six hours).
- ORI 4120 PERFORMANCE OF POETRY** (3)
PR: ORI 2000 or CI. Critical appreciation of lyric and narrative poetry and communication of that appreciation to audience. Study of poetic theory and prosodic techniques.
- ORI 4310 GROUP PERFORMANCE OF LITERATURE** (3)
PR: ORI 2000 or CI. Designed to introduce the student to and give experience in various forms of group approaches to performance.
- ORI 4931 PERFORMANCE AND VIDEO** (3)
PR: ORI 2000. CR: ORI 3950. This course features adaptation, direction, and performance of literature for video productions.
- ORI 5930 TOPICS IN PERFORMANCE GENRES** (3)
Variable topics course. Rpt. up to 12 hours as topics change.
- SPC 2600 PUBLIC SPEAKING -SS** (3)
The nature and basic principles of human communication; emphasis on improving speaking and listening skills common to all forms of oral communication through a variety of experience in public discourse.
- SPC 2541 PERSUASION** (3)
Examines the role of persuasion in public and social life. Students will be introduced to key concepts and theories of persuasion from a variety of historical and contemporary perspectives. Students will use these concepts to create, analyze, and respond to persuasive messages.
- 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; communication as a process.
- SPC 3230 RHETORICAL THEORY -HP** (3)
This course surveys the foundations and historical evolution of major concepts, issues, theorists, and approaches to the study of rhetoric from Plato to recent contemporary theorists.
- SPC 3301 INTERPERSONAL COMMUNICATION -SS** (3)
PR: Junior standing or CI. A study of interpersonal communication in informally structured settings with emphasis on the understanding, description, and analysis of human communication.
- SPC 3441 GROUP COMMUNICATION** (3)
PR: Junior standing or CI. A survey of theory and research in group communication. Group discussions and communication exercises to increase awareness of the dynamics of human communication in small group settings.
- SPC 3513 ARGUMENTATION AND DEBATE** (3)
PR: Junior standing or CI. Study of principles of argumentation as applied in oral discourse, analysis of evidence and modes of reasoning. Practice in debate preparation and delivery.
- SPC 3601 ADVANCED PUBLIC SPEAKING** (3)
PR: SPC 2600 or CI. Study and application of communication strategies in speaking extemporaneously and from manuscript. The course includes study of selected public addresses as aids to increased understanding of speaking skills.
- SPC 3631 RHETORIC OF THE SIXTIES -HP** (3)
Survey of the rhetorics associated with the civil rights

- movement, the Great Society, the anti-Vietnam War movement, the counterculture, the black power movement, and the women's movement.
- SPC 3653 POPULAR FORMS OF PUBLIC COMMUNICATION (3)**
PR: Junior standing or CI. Analysis of public communication with emphasis on various presentational forms.
- SPC 3681 RHETORICAL ANALYSIS (3)**
This course introduces students to fundamentals of message analysis. Student examines persuasive strategies and language in oral and written discourse (not repeatable).
- SPC 3712 COMMUNICATION AND CULTURAL DIVERSITY -SS (3)**
Examination of communication and cultural diversity within the United States. Cultural groups include racial and ethnic (e.g., African American, Latino American, Asian American), social class, age and generational, religious (e.g. Jewish) and gender. (Also offered under Africana Studies.)
- SPC 4201 ORAL TRADITION -XMW (3)**
Study of orality, its forms, functions, and transformations, in traditional and literate societies from folkloric and psychological traditions and from contemporary communication and cultural studies perspectives.
- SPC 4305 COMMUNICATING EMOTIONS -6A (3)**
PR: Junior/Senior standing or CI. Study of emotional experience, what emotions mean to us, how we talk about them, and the ways group and cultural membership influence them. Focus on attachment and loss in romantic, family and group relationships.
- SPC 4310 RELATIONSHIPS ON FILM (3)**
Examination of the ways in which cinema inscribes conceptions and meanings of romance, love, intimacy and sexuality. Focus on systems of interpretation fostered by cinema representations of intimacy, sexuality, emotional, subjectivity, and betrayal.
- SPC 4431 FAMILY COMMUNICATION (3)**
Examines the processes and functions of communication in the development of families. Examination of scholarly and popular literature on family structure, family systems, family development, and family stories. Analysis of families in fiction and cinema.
- SPC 4632 RHETORIC OF SOCIAL CHANGE (3)**
PR: SPC 3230 or SPC 3681. This course examines how social change is symbolized and motivated in the rhetorics of institutions, campaigns, social movements and individuals.
- 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 4683 RHETORICAL ANALYSIS OF MASS MEDIA (3)**
PR: SPC 3230 or SPC 3681; Open to non-majors with CI. An introduction to the criticism of media forms and effects. Contemporary perspectives of the aesthetic and persuasive dimensions of mass media are examined. Students will engage in critical study of media artifacts.
- SPC 4714 COMMUNICATION, CULTURE AND COMMUNITY -XMW (3)**
Examines the relationships among culture, communication, institutions, and public and private life. Students explore the possibilities and problems of contemporary forms of community through service in a volunteer organization.
- SPC 4900 DIRECTED READINGS (1-3)**
PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and CI. Maximum 6 hours.
- SPC 4903 HONORS READINGS (3)**
PR: Admission to Communication Honors Program. Focused readings directed toward preparation of a proposal for an undergraduate honors thesis. May be repeated up to six credits.
- SPC 4905 UNDERGRADUATE RESEARCH (1-3)**
PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and CI. Maximum 6 hours. Individual investigations with faculty supervision.
- SPC 4930 SELECTED TOPICS (1-3)**
PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and CI. May be repeated.
- SPC 4932 SENIOR SEMINAR IN COMMUNICATION (3)**
PR: Senior standing, minimum GPA 3.0, 15 hours of core requirements and 9 elective hours completed, and CI. Communication major. Exploration of selected topics of current significance to the several areas of communication through group discussion and research.
- SPC 4970 HONORS THESIS (3)**
PR: Admission to Communication Honors Program. Involves individual research and preparation of an undergraduate honors thesis. May be repeated up to six credit hours.
- SPC 5930 TOPICS IN DISCOURSE (3)**
Variable topics course. Rpt. up to 12 hours.

Communication Sciences and Disorders

- SPA 3001 INTRODUCTION TO INTERPRETING IN PUBLIC SCHOOLS (3)**
PR: Admission to ISI Program. CR: SPA 3001L. This course introduces the overview of the roles and responsibilities of interpreters for the deaf working in public school classes grades K - 12 and the overview of historical and current public school practices in educational interpreting in the U.S. This course is designed for ISI majors but may be elected by non-majors with the approval of the instructor.
- SPA 3001L INTRODUCTION TO INTERPRETING IN PUBLIC SCHOOLS LAB (1)**
PR: Admission to ISI Program. CR: SPA 3001. The lab assists students in assessing and improving their interpreting and transliterating skills through videotapes of simulated interpreting assignments
- SPA 3002 INTRODUCTION TO DISORDERS OF SPEECH AND LANGUAGE -SS (3)**
PR: Junior standing and CI. The scope of speech-language pathology as a profession and a field of study. An introduction to speech and language disorders, etiologies, major treatment approaches, and research findings.
- SPA 3003 OVERVIEW OF LANGUAGE LEARNING IN DEAF CHILDREN (3)**
PR: Admission to ISI Program. CR: SPA 3003L. Overview of language development of deaf children from infancy through young adulthood, including various theories of language development in the deaf and communication/language of the deaf assessment techniques, and interpreting skills relating to learning processes. This course is restricted to majors only.
- SPA 3003L OVERVIEW OF LANGUAGE LEARNING IN DEAF CHILDREN LAB (1)**
PR: Admission to ISI Program. CR: SPA 3003. An exploration and overview of communication modes and language used in public school settings by deaf children. Includes a study of how systems overlap and a development of flexibility in using different modes and languages, and the implications for interpreters. This course is restricted to majors only. This course may be repeated for up to 2 credits.
- SPA 3004 INTRODUCTION TO LANGUAGE DEVELOPMENT AND DISORDERS (3)**
PR: SPA 3002, SPA 3112 or CI. This course introduces theoretical concepts and research findings concerning the normal developmental processes of language learning as a basis for differentiating developmental delay or disorder of language.
- SPA 3011 INTRODUCTION TO SPEECH SCIENCE (3)**
PR: SPA 3101 and SPA 3112. Concentrated study of the acoustic, physiological and perceptual aspects of sound as related to normal and pathological speech communication. Introduction to instrumentation and measurement procedures.
- SPA 3028 INTRODUCTION TO AUDITORY FUNCTIONS (3)**
PR: Admission to ISI Program. An overview of hearing science and speech science relating to the educational

- environment. This course orients the student to the variables extent in oral-aural communication among children who have hearing impairment. It addresses techniques and methods of hearing measurement and amplification of sound as well as the interpreter's role in audiological evaluation and speech language therapy. This course is restricted to majors
- SPA 3030 INTRODUCTION TO HEARING SCIENCE (3)**
PR: Junior standing and Cl. Introduction to the field of hearing including: physics of sound, auditory anatomy and physiology, and psychophysics of hearing.
- SPA 3101 ANATOMY AND PHYSIOLOGY OF THE SPEECH AND HEARING MECHANISM (3)**
PR: Junior standing and Cl. The neurological and anatomical basis of communication disorders. Comparisons of normal and pathological organic structures and their functional dynamics.
- SPA 3112 APPLIED PHONETICS IN COMMUNICATION DISORDERS (3)**
PR: Junior standing and Cl. Introduction to phonetic analysis of normal and disordered speech, including extensive training in transcription using the International Phonetic Alphabet.
- SPA 3310 INTRODUCTION TO DISORDERS OF HEARING (3)**
PR: SPA 3030 and SPA 3101. The etiology, pathology, and management of disorders of the outer ear, middle ear, inner ear, retrocochlear, and central auditory systems.
- SPA 3380 BASIC AMERICAN SIGN LANGUAGE (4)**
PR: Cl. Introduction to American Sign Language (ASL) as used in the deaf community. General discussion of ASL structure and introduction to various manual communication systems and philosophies. Emphasis on building a basic vocabulary. One hour laboratory course work is included. Open to all majors.
- SPA 4000 COMMUNICATION DISORDERS IN THE PUBLIC SCHOOLS (3)**
PR: Cl. An examination of the speech, language and hearing problems affecting school-age children and the classroom teacher's role in the detection, prevention and amelioration of communication disorders. (Non-major course only).
- SPA 4050 INTRODUCTION TO THE CLINICAL PROCESS -XMW (3)**
PR: SPA 4930 and SPA 3310. Observation and participation in speech-language pathology and audiology practice in the University clinical laboratory.
- SPA 4201 PHONOLOGICAL DEVELOPMENT AND DISORDERS (3)**
PR: SPA 3011. An examination of normal and deviant articulatory acquisition and behavior. Presentation of major theoretical orientations and the therapeutic principles based upon them.
- SPA 4210 VOCAL DISORDERS (3)**
PR: SPA 3011 and SPA 3310. A comprehensive study of the medical and physical aspects of voice disorders. Primary emphasis is on therapeutic management.
- SPA 4222 FLUENCY DISORDERS (3)**
PR: SPA 4201. A comprehensive study of disfluent speech behavior. Differential diagnosis, principles of therapeutic intervention, procedures for children and adults will be studied. Major theories and models of the development and origin of stuttering are also presented.
- SPA 4331 FUNDAMENTALS OF FINGERSPELLING (2)**
PR: Cl. A concentrated study of technique in fingerspelling emphasizing clarity and rhythm in expression as well as receptive understanding.
- SPA 4332 STRUCTURE OF SIGN LANGUAGE (3)**
PR: Cl. Semiotic and linguistic consideration of American Sign Language (ASL). Includes aspects of phonology, syntax, semantics, and discourse in ASL.
- SPA 4335 SIGN LANGUAGE CODES (3)**
PR: Cl. A review of the sign systems (SEE I, SEE II, L.O.V.E., and Signed English) used to code messages through the use of sign. The student will have the opportunity to practice one of the sign systems.
- SPA 4363 NATURE AND NEEDS OF HEARING IMPAIRED (3)**
A study of the effects of auditory disorders upon the organization and expression of behavioral patterns as they relate to motivation, adjustment and personality.
- SPA 4371 LEGAL, ETHICAL, AND TECHNICAL ISSUES OF WORKING WITH DEAF (3)**
PR: Admission to ISI Program. This course provides the discussion of ethical, technical, procedural, communicative, as well as legal issues and activities that apply to practice of interpreting in educational situations. It focuses on the professionalism and integration of interpreter roles in educational settings. This course is restricted to majors.
- SPA 4382 INTERMEDIATE AMERICAN SIGN LANGUAGE (4)**
PR: SPA 3380 and Cl. A continuation of the basic course which expands the student's signing skills and introduces American Sign Language (ASL) idioms. Provides a greater opportunity for skill development in ASL structure and idiomatic usage. One hour laboratory course work is included.
- SPA 4383 ADVANCED AMERICAN SIGN LANGUAGE (4)**
PR: SPA 4382 and Cl. A continuation of the study of American Sign Language (ASL) at the advanced skill level. Added emphasis on idioms, body language, and facial expression as an integral part of ASL. One hour laboratory course work is included. Open to all majors.
- SPA 4383L AMERICAN SIGN LANGUAGE LABORATORY (1)**
PR: Cl. Laboratory course designed to offer students added practice with the material presented in the ASL coursework through video and audio tapes.
- SPA 4386 INTERPRETING IN PUBLIC SCHOOLS I (3)**
PR: Admission to ISI Program. CR: SPA 4386L. This course provides techniques for interpreting instructional/non-instructional activities and the development of communication modes and languages used by deaf children. Includes interpreting practices and understanding teaching methods. This course is restricted to majors only
- SPA 4386L INTERPRETING IN PUBLIC SCHOOLS I LAB (1)**
PR: Admission to ISI Program. CR: SPA 4386. This course provides practical application of interpreting the subjects taught in the public school classes. Discussion includes class goals, instructional style, interpreter roles and ethics, language or mode choice, and analysis of the classroom for accessibility and appropriateness for interpreting. This course is restricted to majors only. May be repeated up to 2 credits.
- SPA 4387 INTERPRETING IN PUBLIC SCHOOLS II (3)**
PR: SPA 4386, SPA 4386L. CR: SPA 4387L. This course provides advanced techniques for interpreting instructional/non-instructional activities and the development of communication modes and languages used by deaf children. Includes interpreting practices and understanding teaching methods. This course is restricted to majors only
- SPA 4387L INTERPRETING IN PUBLIC SCHOOLS II LAB (1)**
CR: SPA 4387. This course provides advanced assessment of interpreting skills and interpreting integration of targeted school classes and activities. Selection criteria for using a particular sign system, mode, or language will be assessed and discussed in individualized meetings. This course is restricted to majors only
- SPA 4503 PRACTICUM: INTERPRETING IN SCHOOLS (4)**
This course provides practice sessions in school settings under supervision of an experienced interpreter and course instructor. Each practicum student will shadow an interpreter, and participate in discussion about the overall performance. This course is restricted to majors.
- SPA 4562 COUNSELING OF COMMUNICATIVELY HANDICAPPED AND FAMILY (3)**
PR: SPA 3011 and SPA 3310. Discussion of role of counseling in the treatment of communication disorders. Based on exploration of theoretical constructs, this course demonstrates application of therapeutic methodologies to reduction of communication handicaps.
- SPA 4930 SELECTED TOPICS (3)**
PR: Cl. Intensive study of topics in Speech-Language

Pathology, Audiology, and/or Aural Rehabilitation conducted under the supervision of a faculty member.

SPA 5132 AUDIOLOGY INSTRUMENTATION (2)

PR: CI. Calibration, usage and specific applications of specialized instruments available in dealing with the identification and measurement of hearing disorders.

SPA 5150 ADVANCED SPEECH SCIENCE (3)

PR: SPA 3011 or equivalent. Advanced study of the acoustics, production and perception of normal and disordered speech.

SPA 5150L SPEECH SCIENCE INSTRUMENTATION (2)

PR: CI or SPA 3011 or equivalent. This course offers experience in the use of speech recording, monitoring and analyzing equipment for the evaluation of normal and disordered voice and speech characteristics.

SPA 5303 ADVANCED HEARING SCIENCE (3)

The study of the physiological acoustics of the auditory periphery; the neuroanatomy and electrophysiology of the central auditory system; and psychoacoustic principles as they relate to clinical audiologic measurement paradigms.

SPA 5312 PERIPHERAL AND CENTRAL AUDITORY TESTS (4)

PR: CI. The study of behavioral and electrophysiologic clinical tests designed to assess the function of the peripheral and the central auditory system. Tests which incorporate nonspeech stimuli and those which utilize speech stimuli will be included.

SPA 5328 AURAL REHABILITATION: ADULTS (3)

This course is designed to provide information about and strategies for aural rehabilitation intervention with hearing-impaired adults. Topics covered include: speechreading, auditory training, hearing and assistive listening devices.

SPA 5403 COMMUNICATION DISORDERS: LANGUAGE (3)

PR: CI. Examination of research and clinical literature presenting major theoretical orientations pertaining to the etiology, evaluations, and treatment of those factors that hinder or interrupt normal language acquisition or function.

SPA 5408 LANGUAGE LEARNING IN THE SCHOOL-AGE YEARS (3)

Metalinguistic and metacognitive development are linked to the interactional demands of classroom and clinical discourse; observational tools are applied to evaluation and intervention planning.

SPA 5506 SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY PRACTICUM (1-8)

PR: CI. Participation in speech-language pathology and audiology practicum in the University Communication Disorders Center and selected field settings.

SPA 5552 DIAGNOSTIC PRINCIPLES AND PRACTICES (2)

PR: CI. The evaluation, interpretation and reporting of diagnostic tools and their results in the assessment of speech and language disorders.

Criminology

CCJ 3003 CRIME AND JUSTICE IN AMERICA - SS (4)

This course is a non-technical survey of the nature of crime in the United States and the ways our society seeks to deal with criminal offenders and victims of crime. May be taken by both majors and non-majors for credit, subject to departmental approval for declared majors.

CCJ 3024 SURVEY OF THE CRIMINAL JUSTICE SYSTEM -SS (3)

An introduction to the structure and operation of law enforcement, prosecution, the courts, and corrections. Also included brief coverage of major reported crimes.

CCJ 3204 SUBSTANTIVE CRIMINAL LAW (3)

PR: CCJ 3024. Examines the historical basis of the American criminal law system, the substantive elements of crimes, and court procedures.

CCJ 3610 THEORIES OF CRIMINAL BEHAVIOR (3)

PR: CCJ 3024. Provides a basic understanding of the complex factors related to crime, with concentration on principal theoretical approaches to the explanation of crime.

CCJ 3621 PATTERNS OF CRIMINAL BEHAVIOR (3)

Reviews the nature and extent of the crime problem. The course will concentrate on major patterns of offender

behavior including crimes against the person, property crimes, violent crimes, economic/white collar offenses, syndicated (organized) crimes, consensual crimes, female crime, political crime, and will examine criminal career data.

CCJ 3701 RESEARCH METHODS IN CRIMINAL JUSTICE I (3)

PR: CCJ 3024 or CCJ 3610 or CI. Introduces the student to some of the fundamentals of knowledge-generating processes in criminal justice.

CCJ 4109 CRITICAL ISSUES IN POLICING (3)

PR: CCJ 3024 or CCJ 4110 or CI. Focuses on some of the most critical issues in law enforcement today including: understanding and controlling police use of deadly force; police deviance; police prejudice and discrimination; violence-prone police officer; substance abuse by police officers; and administrative review of alleged police brutality.

CCJ 4110 AMERICAN LAW ENFORCEMENT SYSTEMS (3)

PR: CCJ 3024 or CCJ 3610 or CI. Provides a comprehensive examination of the American law enforcement system at the federal, state, and local levels and an assessment of career opportunities within the community.

CCJ 4260 ENVIRONMENTAL LAW AND CRIME (3)

PR: CCJ 3024 or CI. The course provides students with an introduction to issues in the area of environmental crime and environmental law. NOTE: Credit for this course may also be awarded through a similar course offered in the Environmental Science and Policy Program.

CCJ 4273 CRIMINAL RIGHTS AND PROCEDURES (3)

PR: CCJ 3024 or CI. Emphasizes the Constitutional issues and rules that are applied and enforced by the courts while processing criminal cases.

CCJ 4282 CORRECTIONAL LAW (3)

PR: CCJ 3024 or CI. The course provides students with an introduction to legal issues in the area of correctional, with an emphasis on civil and criminal liability for correctional staff and administrators and on convict's rights.

CCJ 4306 AMERICAN CORRECTIONAL SYSTEMS (3)

PR: CCJ 3024 or CCJ 3610 or CI. Analysis of the different treatment philosophies and techniques currently in use in the field, with special attention to experimental and demonstration programs.

CCJ 4316 CORRECTIONAL ADMINISTRATION (3)

PR: CCJ 3024 or CI. The course provides students with an introduction to issues in correctional administration in both institutional and community corrections.

CCJ 4331 ALTERNATIVES TO INCARCERATION (3)

PR: CCJ 3024 or CCJ 3610 or CI. This course explores a variety of alternatives to imprisoning the offender, including probation, parole, diversion, and other community-based intervention and treatment modalities.

CCJ 4341 INTERVENTION TECHNIQUES AND STRATEGIES (3)

PR: CCJ 3024 or CCJ 3610 or CI. Introduces the student to theories and methods underlying treatment modalities currently employed in corrections.

CCJ 4450 CRIMINAL JUSTICE ADMINISTRATION (3)

PR: CCJ 4110 or CJT 4100 or CI. This course is designed to provide an in-depth examination of both the practical and theoretical aspects of the administration of criminal justice agencies. The major focus will be on law enforcement and correctional agencies.

CCJ 4501 JUVENILE JUSTICE SYSTEM (3)

PR: CCJ 3024 or CCJ 3610 or CI. Provides coverage of the juvenile and family courts, their clientele, and the complex of human service agencies and facilities that contribute to efforts at juvenile correctional intervention.

CCJ 4511 POLICE AND JUVENILE DELINQUENCY (3)

PR: CCJ 3024 or CI. Focuses on the unique aspects of law enforcement interaction with juveniles and their families. Issues which emerge when working with multi-cultural populations will be discussed. Police efforts at early detection, intervention, and diversion. Interaction with status offenders and children-in-need-of-assistance will be a topic of concern. Community based policing efforts will be analyzed. Gang intervention strategies and school

programs such as school resource officers will be discussed.

- CCJ 4513 JUVENILE RIGHTS AND PROCEDURES (3)**
PR: CCJ 4501 or CI. The course provides students with an introduction to the Juvenile Justice system, particularly with the issues on juveniles' rights as they relate to the juveniles in trouble who are processed through the beginning of the system as well as with the rights and subsequent procedures that juveniles will encounter as they are processed further through the juvenile justice system or possibly transferred to the adult criminal justice system.
- CCJ 4540 JUVENILE CORRECTIONAL ALTERNATIVES (3)**
PR: CCJ 4501 or CI. Focuses on juvenile correctional responses from diversion to the use of secure facilities. How the system attempts to handle status offenders and children-in-need-of-supervision will be covered. Diversion, detention, probation, and community-based non-secure facilities will be discussed.
- CCJ 4550 DEVELOPMENTAL ASPECTS OF JUVENILE DELINQUENCY (3)**
PR: CCJ 3610 and CCJ 4501 or CI. Provides the student with a developmental/life course perspective of the processes, events, and factors which occur during childhood and adolescence and cause juvenile delinquency. This course focuses on the conditions which are critical in shaping the delinquent's behavior during their formative years.
- CCJ 4604 ABNORMAL BEHAVIOR AND CRIMINALITY (3)**
PR: CCJ 3610 or CI. A systematic introduction to the relationship between mental illness and criminality, with focus on psychiatric labeling of deviant behavior and its implications for the handling of the criminal offender.
- CCJ 4652 JUVENILE SUBSTANCE USE (3)**
PR: CCJ 4501 or CI. Focuses on youth and drugs. It will cover such topics as the rates and patterns of the use of different drugs by youths with varying socio-demographic characteristics, the context and effects of use of various drugs, the drugs-crime connection, prevention, early intervention and treatment efforts, and drug use policy.
- CCJ 4700 STATISTICAL RESEARCH METHODS IN CRIMINAL JUSTICE II (3)**
PR: CCJ 3024 or CCJ 3610 or CI. Beginning with the scientific method, the tools commonly used to analyze criminal justice data will be emphasized. Recommended for students who intend to continue their education beyond the B.A.. Required of students attending the M.A. in CCJ at USF. This course may not be taken for credit if the student has already successfully completed STA 3122 or GEB 3121.
- *CCJ 4900 DIRECTED READINGS (1-3)**
PR: CI. This course is specifically designed to enable advanced students the opportunity to do in-depth independent work in the area of criminal justice. Each student will be under the close supervision of a faculty member of the program. No more than five hours of CCJ 4900 or CCJ 4910 or any combination of the two will be accepted toward the minimum number of hours required for the major.
- *CCJ 4910 DIRECTED RESEARCH (1-3)**
PR: CI. This course is designed to provide students with a research experience in which they will work closely with faculty on the development and implementation of research projects in the area of criminal justice. No more than five hours of CCJ 4910 or CCJ 4900 or any combination of the two will be accepted toward the minimum number of hours required for the major.
- *NOTE:** CCJ 4900 and CCJ 4910. (a) Students wishing to enroll must make arrangements with a faculty member during the semester prior to actually taking the course, (b) a minimum of four (4) CCJ courses must have been completed satisfactorily prior to enrollment, (c) first consideration will be given to Criminology majors, and (d) individual faculty members may add additional requirements at their discretion.

- CCJ 4933 SELECTED TOPICS IN CRIMINOLOGY (3)**
PR: Junior standing. Lecture course. Topic varies and is designed to address a wide variety of issues in criminology and criminal justice. Open to non-majors with CI.
- CCJ 4934 SEMINAR IN CRIMINOLOGY -6A -XMW (3)**
PR: Senior standing and CI. These variable topic seminars are used for an in-depth study and discussion of the relationships among culture, gender, ethics, age, society, and criminal behavior. Such examinations may include the options the criminal justice does (or does not) have to deal with these interactions, and the ethics and efficacy of the system's response. Open to non-majors with CI.
NOTE: CCJ 4933 and CCJ 4934. No more than 6 hours of CCJ 4933, CCJ 4934, or any combination of the two will be accepted toward the minimum number of hours required for the major.
- CCJ 4940 INTERNSHIP FOR CRIMINAL JUSTICE MAJORS (3)**
PR: Senior standing. The internship will consist of placement with one or more of the agencies comprising the criminal justice system. This course will enable the students to gain meaningful field experience related to their future careers. The three-hour block of credit will require a minimum of ten hours of work per week within the host agencies in addition to any written work or reading assignments. See requirements for the B.A. degree in Criminology for the number of hours required. (S/U only).
- CJT 4100 CRIMINAL INVESTIGATION (3)**
PR: CCJ 3024 or CCJ 3610 or CI. Covers the major components of criminal investigation, with special attention to the scientific aspects of criminal investigation and the management of major cases.
- CJT 4801 PRIVATE SECURITY SYSTEMS (3)**
PR: Junior standing and CCJ 4110 or CI. Examines some of the principal methods and techniques currently used to reduce or prevent losses due to theft and casualty.

Economics

- ECO 1000 BASIC ECONOMICS -SS (3)**
Survey of Economic principles and issues. Scarcity, choice, markets, prices, the monetary system, unemployment, inflation, international trade and finance. (No credit after completing ECO 2023/2013.)
- ECO 2013 ECONOMIC PRINCIPLES (MACROECONOMICS) -SS (3)**
Introduction to the theory of income determination with emphasis on monetary and fiscal policies. Objectives of full employment, price stability, economic growth, balance of payments stability.
- ECO 2023 ECONOMIC PRINCIPLES (MICROECONOMICS) -SS (3)**
PR: ECO 2013. Introduction to the theory of price determination. How an economy decides what to produce, how to produce and how to distribute goods and services.
- ECO 2935 SELECTED TOPICS IN ECONOMICS (1-3)**
PR: CI. Topics selected by department. May be repeated if topics vary. Not available for credit to upper-level students admitted to the College of Business.
- ECO 3100 MANAGERIAL ECONOMICS (3)**
PR: ECO 2023. Application of microeconomic theory to problems in business decision making with a special focus on price determination. (No credit after completing ECO 3101.)
- ECO 3101 INTERMEDIATE PRICE THEORY (3)**
PR: ECO 2023. The price system and allocation of scarce resources between competing uses. (No credit after completing ECO 3100.)
- ECO 3203 INTERMEDIATE INCOME & MONETARY ANALYSIS (3)**
PR: ECO 2013 and ECO 3100 or ECO 3101 with a grade of "C" or better. Determination of income, employment, prices, and interest rates. Aggregate demand and aggregate supply.
- ECO 3622 AMERICAN ECONOMIC HISTORY (3)**
PR: ECO 2023. Growth and evolution of American economic institutions from Colonial times to the present.

- ECO 3703 INTERNATIONAL ECONOMICS -XMW** (3)
PR: ECO 3100 or ECO 3101 with a grade of "C" or better. Role of international trade in the U.S. economy. Gains from trade, balance of payments, exchange rate determination, balance of payments stability and international commercial policy.
- ECO 4105 ADVANCED PRICE THEORY** (3)
PR: ECO 3100 or ECO 3101 with a grade of "B" or better. An advanced survey of special topics in microeconomics: borrowing and saving, decision making under certainty, markets for capital and labor, game theory, production and exchange efficiency, social welfare, and efficiency consequences of market and non-market allocation.
- ECO 4201 ADVANCED MACROECONOMIC THEORY** (3)
PR: Grade of "B" or better in ECO 3203. An advanced survey of special topics in macroeconomics. Develops and contrasts the neoclassical growth, endogenous growth, real business cycle and new Keynesian models. Relevant empirical studies are presented.
- ECO 4303 HISTORY OF ECONOMIC THOUGHT** (3)
PR: ECO 3100 or ECO 3101 with a grade of "C" or better. Development of economic thought from Plato to Marshall.
- ECO 4323 MARXIST POLITICAL ECONOMY -XMW** (3)
PR: ECO 2013 or CI. The Marxist school of thought in economics. Application of Marxist theory to problems of advanced capitalist and socialist societies.
- ECO 4401 INTRODUCTION TO MATHEMATICAL ECONOMICS** (3)
PR: ECO 2023 and MAC 2233 or CI. Mathematical models of optimizing behavior and economic equilibrium.
- ECO 4421 INTRODUCTION TO ECONOMETRICS** (3)
PR: QMB 3200 with grade of "B" or better or CI. Survey of basic econometric techniques. Regression analysis employed to estimate consumption, investment, demand, cost, and production functions. Examines problems of autocorrelation, heteroscedasticity, multicollinearity, and specification errors.
- ECO 4504 PUBLIC FINANCE** (3)
PR: ECO 3100 or ECO 3101 with a grade of "C" or better. The public sector and its contribution to economic welfare. Government expenditures and revenues. Resource allocation, income distribution, stabilization, and economic growth.
- ECO 4713 INTERNATIONAL MONETARY RELATIONS** (3)
PR: ECO 3203 Advanced analysis of international macroeconomic relationships. Foreign exchange market, international monetary system balance of payments.
- ECO 4723 INTERNATIONAL COMMERCIAL POLICIES** (3)
PR: ECO 3100 or ECO 3101 with a grade of "C" or better. Advanced analysis of international trade theory and commercial policy, international economic integration, multinational enterprise.
- ECO 4905 INDEPENDENT STUDY** (1-3)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated up to 6 credit hours. (S/U only.)
- ECO 4914 INDEPENDENT RESEARCH** (1-3)
PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 6 hours.
- ECO 4935 SELECTED TOPICS IN ECONOMICS** (1-3)
PR: CI. Topics to be selected by the instructor or instructors on pertinent economic issues.
- ECP 3201 ECONOMICS OF WOMEN AND WORK -XMW** (3)
PR: ECO 1000 or ECO 2013 and 2023. Survey of research on women, men and work in the labor market and the household. Focuses on the economic status of women. Includes historical perspective, examination of the family as an economic unit, changing work roles, gender differences in occupation and earnings.
- ECP 3203 LABOR ECONOMICS** (3)
PR: ECO 3100 or ECO 3101 with a grade of "C" or better. Determinants of wage and employment levels; occupation, industrial and geographical wage differentials, union and

public policy effects on labor markets; the economics of discrimination; inflation and unemployment.

- ECP 3302 ENVIRONMENTAL ECONOMICS -XMW** (3)
PR: ECO 2023. An economic analysis of environmental issues. The economics of resource use and pollution control are examined using the concepts of externalities, cost-benefit analysis, public goods, and property rights.
- ECP 3413 ECONOMICS OF REGULATION AND ANTITRUST** (3)
PR: ECO 2023. Economic analysis of the rationale and performance of government regulation and antitrust policy. Examination of antitrust issues or price fixing, mergers, and monopolization, and issues of regulating electric utilities, airlines, trucking, consumer product safety, product quality, and the environment.
- ECP 3530 ECONOMICS OF HEALTH** (3)
PR: ECO 3100 or ECO 3101 with a grade of "C" or better. Application of economic methods to health care topics. Demand for medical care, public and private health insurance; physician and hospital supply of medical care; government regulations and national healthcare systems.
- ECP 3613 ECONOMICS OF THE URBAN ENVIRONMENT** (3)
PR: ECO 2013 and ECO 2023. Economic analysis of cities and urban social problems. Poverty, discrimination, housing, transportation, pollution, crime and fiscal considerations.
- ECP 4232 COLLECTIVE BARGAINING AND PUBLIC POLICY** (3)
PR: ECO 2023 or CI. Administration of labor management agreements. Impact of the government role in collective bargaining and labor relations.
- ECP 4451 LAW AND ECONOMICS** (3)
PR: ECO 2023. Advanced analysis of the economic impact of tort, criminal, property and contract law as well as in the formation and adjudication of law.
- ECS 3013 ECONOMIC DEVELOPMENT** (3)
PR: ECO 2013 or CI. Economic development in emerging nations.
- ECS 4003 COMPARATIVE ECONOMIC SYSTEMS -XMW** (3)
PR: ECO 2013 or CI. The major economic systems: traditional, capitalism, democratic socialism, communism and fascism.

English

- AML 3031 AMERICAN LITERATURE FROM THE BEGINNINGS TO 1860** (3)
A study of representative works from the period of early settlement through American Romanticism, with emphasis on such writers as Cooper, Irving, Bryant, Hawthorne, Emerson, Melville, Thoreau, and Poe, among others.
- AML 3032 AMERICAN LITERATURE FROM 1860 TO 1912** (3)
A study of representative works of selected American Realists and early Naturalists, among them Whitman, Dickinson, Twain, James, Howells, Crane, Dreiser, Wharton, Robinson, Dunbar, and Johnson.
- AML 3051 AMERICAN LITERATURE FROM 1912-1945** (3)
A study of poetry, drama, and fiction by such writers as Pound, Stein, Fitzgerald, Hemingway, Faulkner, Porter, Toomer, Cummings, Williams, Anderson, Steinbeck, Wright, West, Stevens, Henry Miller, and others.
- AML 3453 HISTORICAL PERSPECTIVES IN EARLY AMERICAN LITERATURE** (3)
Examines American Literature from the Colonial Period to the Civil War as a manifestation of geographical, political, social, and intellectual forces. Will not be counted toward the English major.
- AML 3604 AFRICAN-AMERICAN LITERATURE -6A -XLW** (3)
A study of African-American literature from the nineteenth century to the present, including the works of such writers as W.E.B. Dubois, Jean Toomer, Langston Hughes, Richard Wright, Ralph Ellison, LeRoi Jones, and Nikki Giovanni. (Also offered in Africana Studies.)
- AML 4111 NINETEENTH-CENTURY AMERICAN NOVEL** (3)
A study of the American novel from its beginnings through 1900, including such novelists as Cooper, Hawthorne, Melville, James, Twain, Crane, and Dreiser, among others.

- AML 4121 TWENTIETH-CENTURY AMERICAN NOVEL (3)**
A study of major trends and influences in American prose fiction from 1900 to the present. Includes works by such writers as Hemingway, London, Wharton, Fitzgerald, Faulkner, West, Mailer, Bellow, Ellison, Donleavy, Updike, Vonnegut, and others.
- AML 4261 LITERATURE OF THE SOUTH (3)**
A study of the major writers of the "Southern Renaissance," including writers such as Faulkner, Wolfe, Caldwell, Hellman, McCullers, O'Connor, Warren, Styron, Tate, Davidson, and Dickey.
- AML 4330 SELECTED AMERICAN AUTHORS (3)**
The study of two or three related major authors in American literature; the course may include such writers as Melville and Hawthorne, Hemingway and Faulkner, James and Twain, Pound and Eliot, Stevens and Lowell, etc. Specific topics will vary. May be repeated twice for credit with different topics.
- CRW 2100 NARRATION AND DESCRIPTION -6A (3)**
A study of narrative and descriptive techniques in prose. By making the student sensitive to language usage, it is designed to bridge the gap between expository writing and imaginative writing.
- CRW 3111 FORM AND TECHNIQUE OF FICTION -6A (3)**
A study of short narrative forms such as the anecdote, tale, character sketch, incident, monologue, epistolary story, and short story as they have been used in the development of fiction and as they exist today.
- CRW 3112 FICTION I -6A (3)**
PR: CRW 3111. An introduction to fiction writing, beginning with a practical study of the various elements of fiction and proceeding through the many processes of revision to arrive at a completed work of art.
- CRW 3121 FICTION II -6A (3)**
PR: CRW 3111, CRW 3112. A fiction workshop which provides individual and peer guidance and direction for student writing and which also attempts to encourage the development of critical skills.
- CRW 3311 FORM AND TECHNIQUE OF POETRY (3)**
An examination of the techniques employed in fixed forms from the couplet through the sonnet to such various forms as the rondel, ballad, villanelle, sestina, etc. Principles in the narrative, dramatic, and lyric modes are also explored.
- CRW 3312 POETRY I (3)**
PR: CRW 3311. An introduction to poetry writing utilizing writing exercises employing poetic language and devices; the exercises progress to the writing of both rhymed and unrhymed metrical and non-metrical forms.
- CRW 3321 POETRY II (3)**
PR: CRW 3311, CRW 3312. A poetry workshop which provides individual and peer guidance and direction for the student's writing and which also attempts to encourage the development of critical skills.
- CRW 4120 FICTION III (3)**
PR: CRW 3111, CRW 3112, CRW 3121. An advanced fiction workshop wherein works may be carried over from CRW 3121 or longer forms such as the novel may be begun. May be taken twice for credit.
- CRW 4320 POETRY III (3)**
PR: CRW 3311, CRW 3312, CRW 3321. An advanced poetry workshop wherein students are expected to create works exhibiting a firm knowledge of the principles explored in the preceding courses. May be taken twice for credit.
- CRW 4930 SELECTED TOPICS IN CREATIVE WRITING (1-4)**
PR: 12 hours of CRW courses or CI. The focus of the course will be governed by student demand and instructor interest. Topics to be covered may include writing the literary essay, writing in mixed genres, and utilizing popular conventions in serious works. May be repeated up to 8 credit hours.
- ENC 1101, 1102 FRESHMAN ENGLISH -6A -EC (3,3)**
Instruction and practice in the skills of writing and reading. Courses must be taken in numerical sequence.
- ENC 1121 FRESHMAN ENGLISH: HONORS -6A -EC (3)**
Honors Section of ENC 1101. Reserved for students in the University's Honors Program.
- ENC 1122 FRESHMAN ENGLISH II: HONORS -6A -EC (3)**
PR: ENC 1121. Honors Section of ENC 1102. Reserved for students in the University's Honors Program.
- ENC 2210 TECHNICAL WRITING -6A (3)**
Effective presentation of technical and semi-technical information.
- ENC 3213 PROFESSIONAL WRITING -6A (3)**
Introduction to the techniques and types of professional writing, including correspondence and reports most often found in business, technical, and scientific communities.
- ENC 3310 EXPOSITORY WRITING -6A (3)**
A course teaching the techniques for writing effective prose, excluding fiction, in which student essays are extensively criticized, edited, and discussed in individual sessions with the instructor.
- ENC 4260 ADVANCED TECHNICAL WRITING (3)**
PR: ENC 2210, or ENC 3310, or CI. Advanced Technical Writing is a course designed to develop writing skills of a high order: technical exposition; technical narration, description, and argumentation; graphics; proposals; progress reports; physical research reports; and feasibility reports.
- ENC 4311 ADVANCED COMPOSITION (3)**
PR: ENC 3310 or CI. Instruction and practice in writing effective, lucid, and compelling prose, with special emphasis on style, logical argumentation, and critical thinking.
- ENC 4931 SELECTED TOPICS IN PROFESSIONAL AND TECHNICAL WRITING (3)**
PR: ENC 3213, ENC 2210, or ENC 3310 or CI. Focus of the course will be determined by student demand and instructor interest. Topics to be covered may include legal writing, the conventions of business writing, and writing for the social sciences.
- ENG 4013 LITERARY CRITICISM (3)**
A study of the works of major literary critics from Aristotle to the present, with emphasis on their meaning, their implied world view, and their significance for our own time and literature.
- ENG 4060 HISTORY OF THE ENGLISH LANGUAGE (3)**
The evolution of language from Anglo-Saxon through Middle English to Modern English. Development of the English lexicon. Changes in the pronunciation, syntactic, and semantic systems; discussion of the forms which influenced them.
- ENG 4906 INDIVIDUAL RESEARCH (1-4)**
Directed study in special projects. Special permission of chairperson required.
- ENG 4907 DIRECTED READING (3)**
Readings in special topics.
- ENL 3015 BRITISH LITERATURE TO 1616 (3)**
A survey of representative prose, poetry, and drama from its beginnings through the Renaissance, including such poems and figures as Beowulf, Chaucer, Malory, More, Hooker, Skelton, Wyatt, Sidney, Spenser, Shakespeare, Donne, and Jonson.
- ENL 3230 BRITISH LITERATURE 1616-1780 (3)**
A survey of 17th Century and Neoclassical Literature, including such figures as Donne, Herbert, Crashaw, Vaughan, Marvell, Milton, Pope, Swift, Johnson, Boswell, and Goldsmith.
- ENL 3251 BRITISH LITERATURE 1780-1900 (3)**
The poetry and poetics of the Romantic figures, with attention to the continuing importance of romantic thinking in contemporary affairs and letters; a survey of representative figures of the Victorian and Edwardian periods, including poetry, prose, and drama.
- ENL 3273 BRITISH LITERATURE 1900-1945 (3)**
Survey of poetry, drama, and fiction of such writers as Eliot, Yeats, Thomas, Conrad, Shaw, Joyce, Lawrence, Huxley, Woolf, Forster, Waugh, Owen, Auden, O'Casey, and others.
- ENL 3331 EARLY SHAKESPEARE (3)**
A study of from six to eight of Shakespeare's comedies, histories, and early tragedies, ending with *Hamlet*. Special attention to developing the student's ability to read and interpret the text.

- ENL 3332 LATE SHAKESPEARE** (3)
A study of from six to eight of Shakespeare's problem plays, major tragedies, and late romances. Special attention to developing the student's ability to read and interpret the text.
- ENL 4122 BRITISH NOVEL THROUGH HARDY** (3)
A study of early and later British novels such as Fielding, Smollett, Sterne, Austen, Scott, Dickens, Eliot, and Hardy, among others.
- ENL 4132 BRITISH NOVEL: CONRAD TO THE PRESENT** (3)
A critical study of British fiction from 1900 to the present, with emphasis on such writers as Conrad, Lawrence, Joyce, Woolf, Huxley, Orwell, Burgess, Murdoch, Golding, and others.
- ENL 4171 HISTORY OF BRITISH DRAMA TO 1912** (3)
A study of the history of British Drama from its liturgical origins to the beginning of the twentieth century, exclusive of Shakespeare. Included are the mystery and morality plays, and representative works by Marlowe, Jonson, Middleton, Dryden, Congreve, Sheridan, and Wilde, and others.
- ENL 4303 SELECTED AUTHORS** (3)
The study of two or three related major figures in English, American, or World Literature. The course may include such writers as Fielding and Austen, Keats and Yeats, Joyce and Flaubert, etc. Specific topics will vary. May be taken twice for credit with different topics.
- ENL 4311 CHAUCER** (3)
An intensive study of *The Canterbury Tales* and major critical concerns.
- ENL 4338 ADVANCED STUDIES IN SHAKESPEARE** (3)
PR: ENL 3331 or ENL 3332, or CI. Intensive study of selected plays of Shakespeare, with special attention to significant critical issues and to the Elizabethan and Jacobean cultural setting.
- ENL 4341 MILTON** (3)
Study of the poetry and major prose of John Milton, with special emphasis on *Paradise Lost*.
- LIN 3670 ENGLISH GRAMMAR AND USAGE** (3)
A course in the basics of traditional English grammar designed as a complement to our composition and creative writing courses, as a review for those students who will take preprofessional exams, and as a basic course for students interested in improving their knowledge of English. Will not be counted toward the English major.
- LIN 4671 TRADITIONAL ENGLISH GRAMMAR** (3)
A course primarily using the sentence diagram to present a detailed analysis of the parts of speech, verb tenses, sentence functions, and other basic grammatical classifications of traditional English grammar.
- LIN 4680 STRUCTURE OF AMERICAN ENGLISH** (3)
An introductory survey of traditional, structural, and generative transformational grammars and their techniques for the analysis and description of linguistic structure in general, and contemporary American English, in particular.
- LIT 2000 INTRODUCTION TO LITERATURE -6A** (3)
The nature and significance of literature in its various forms: fiction, drama, poetry; emphasis on the techniques of reading literature for informed enjoyment. Will not be counted toward the English major.
- LIT 2010 INTRODUCTION TO FICTION -6A -HP** (3)
A study of the short story and novel as literary forms; approached from an historical perspective though not restricted to any historical period. Will not be counted toward the English major.
- LIT 2021 CURRENT SHORT FICTION** (3)
Traditional and experimental short stories of this generation: such writers as Updike, Malamud, O'Connor, Roth, Barth, Ionesco, and Barthelme. Will not be counted toward the English major.
- LIT 2030 INTRODUCTION TO POETRY -6A** (3)
A study of the poem as literary form; approached from an historical perspective though not restricted to any historical period. Will not be counted toward the English major.
- LIT 2040 INTRODUCTION TO DRAMA -6A -HP** (3)
A study of the major forms of drama as literature and theatre; approached from an historical perspective though not restricted to any historical period. Will not be counted toward the English major.
- LIT 2046 DRAMA: TEXTS AND FILMS** (3)
A study of the great works of drama, with emphasis on recent forms and themes. Films will demonstrate the possibilities of visualization. Will not be counted toward the English major.
- LIT 2091 CURRENT NOVELS** (3)
A study of major British and American novels since WW II; attention will be given to the cultural influences and recent literary trends. Will not be counted toward the English major.
- LIT 2310 FANTASY AND SCIENCE FICTION** (3)
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. Will not be counted toward the English major.
- LIT 2931 SELECTED TOPICS IN ENGLISH STUDIES** (1-4)
Varying from semester to semester, the course examines in depth a predominant literary theme or the work of a select group of writers. Will not be counted toward the English major.
- LIT 3022 MODERN SHORT NOVEL** (3)
A study of the novella from the nineteenth century to the present. Writers include: James, Dostoevsky, Camus, Styron, Nabokov, Gardner, Roth, Vonnegut, among others.
- LIT 3043 MODERN DRAMA** (3)
A study of such modern and contemporary dramatists as Ibsen, Strindberg, Chekhov, Pirandello, Shaw, O'Neill, Pinter, Stoppard, Brecht, Beckett, and Ionesco.
- LIT 3073 CONTEMPORARY LITERATURE -6A -XLW** (3)
An introduction to the fiction, poetry, and drama written since 1945--American, British, Continental, or Multicultural. Focus may be on one, two, or all three genres or on works from any combination of nationalities.
- LIT 3101 LITERATURE OF THE WESTERN WORLD THROUGH THE RENAISSANCE -6A** (3)
A study in English of the great works of Western Literature from its beginnings through the Renaissance, including the Bible, Homer, Sophocles, Plato, Euripides, Virgil, Cicero, Dante, Petrarch, Machiavelli, and Rabelais, among others.
- LIT 3102 LITERATURE OF THE WESTERN WORLD SINCE THE RENAISSANCE -6A** (3)
A study in English of the great works of Western Literature from the Neoclassic to the Modern Period, including such writers as Moliere, Racine, Voltaire, Dostoevsky, Chekhov, Ibsen, Kafka, Gide, Sartre, and Camus, among others.
- LIT 3103 GREAT LITERATURE OF THE WORLD -6A -XMW -XLW** (3)
PR: Junior/Senior standing. A survey of world literature including samples from the ancient and modern era, western and eastern traditions, male and female writers, and various ethnic cultures. Focus on values/ethics, race, ethnicity, and gender; thinking and writing skills. Will not be counted toward the English major.
- LIT 3144 MODERN EUROPEAN NOVEL** (3)
A study of the Modern European novel in translation as it developed from the nineteenth century to the present, including such writers as Dostoevsky, Flaubert, Kafka, Hesse, Camus, and Solzhenitsyn.
- LIT 3155 TWENTIETH CENTURY LITERATURE -HP** (3)
Examines major literary works of the 20th Century written in English and explores ways authors have expressed the age, its great issues and conflicts, in order to gain an historical perspective that will help relate the present to the recent past. Designed for non-majors, but majors may take it by special arrangement.
- LIT 3301 CULTURAL STUDIES AND THE POPULAR ARTS -6A -XMW -XLW** (3)
A study of twentieth century culture as it is represented in film, fiction, and other cultural artifacts.

- LIT 3374 THE BIBLE AS LITERATURE -XMW** (3)
Major emphasis on literary types, literary personalities of the Old and New Testaments, and Biblical archetypes of British and American literary classics. Fall Semester, Old Testament; Spring Semester, New Testament. Course may be repeated for credit with change of content; may be counted only once toward the English major.
- LIT 3383 THE IMAGE OF WOMEN IN LITERATURE** (3)
A survey of 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. Will not be counted toward the English major. (Also offered under Women's Studies.)
- LIT 3410 RELIGIOUS AND EXISTENTIAL THEMES** (3)
Theological and philosophical ideas, allusions, and symbols in the writings of Dostoevsky, Nietzsche, Mann, Joyce, Eliot, Camus, Sartre, among others.
- LIT 3451 LITERATURE AND THE OCCULT -6A -XMW -XLW** (3)
An introduction to the occult tradition as a major ingredient in English, Continental, American, and Multicultural literature; analysis of the origins, classifications, and areas of the various magic arts from classical times through the present. Will not be counted toward the English major.
- LIT 3700 SURVEY OF POETRY** (3)
A chronological sampling of the major poems written in English from the Middle Ages to the present. Recommended as the first course in the poetry option.
- LIT 4011 THEORY OF FICTION** (3)
Intensive study of the genres and varieties of fiction to ascertain the theoretical and technical problems involved in the work of fiction.
- LIT 4386 BRITISH AND AMERICAN LITERATURE BY WOMEN -6A -XLW -XMW** (3)
Survey of women's literary tradition in England and America from the seventeenth century to the present. Thematic focus includes self, marriage, sexuality, madness, race, and generations. Open to majors and non-majors. Writing intensive.
- LIT 4930 SELECTED TOPICS IN ENGLISH STUDIES** (1-4)
The content of the course will be governed by student demand and instructor interest. It will examine in depth a recurring literary theme or the work of a small group of writers. Special courses in writing may also be offered under this title. May be repeated with different topics.
- REA 1105 ADVANCED READING** (3)
Designed to help students develop maximum reading efficiency. The course includes extensive instruction and laboratory practice in the improvement of adequate rates of reading, vocabulary, and comprehensive skills. An independent study approach is also available for students who prefer to assume responsibility for their own progress. Will not be counted toward the English major.
- REA 1605 LEARNING STRATEGIES WITHIN ACADEMIC DISCIPLINES** (2)
To provide within any academic discipline the necessary learning strategies needed for success related to academic coursework. Practice of learning strategies will be within the framework of the student's coursework, providing direct transfer to academic area material. Will not be counted toward the English major.
- REA 2405 SPEED READING DEVELOPMENT** (2)
A course designed to develop speed reading techniques on various levels of difficulty. Emphasis is placed on comprehension via numerous practice drills. Will not be counted toward the English major. (S/U only.)
- REA 2505 VOCABULARY** (3)
A practical course in rapid vocabulary improvement for students in all areas. Stress is on words in context. Will not be counted toward the English major.
- WST 4262 LITERATURE BY AMERICAN WOMEN OF COLOR - 6A -XLW** (3)
An introduction to contemporary women writers of color in the U.S.: Native Americans, African Americans, Asian Americans, and Chicanas/U.S. Latinas. Readings will

- include literature and contextual articles on historical and cultural issues. Will not be counted toward the English major. (May also be taken for credit in Women's Studies.)
- WST 4263 THIRD WORLD WOMEN WRITERS -6A -XLW** (3)
Introduces the literature of women from various anglophone countries in Africa, the Caribbean, and South Asia; some U.S. writers will be included to represent a third world diasporic consciousness. Will not be counted toward the English major. (May also be taken for credit in Women's Studies.)

Environmental Science and Policy

- EVR 2001 INTRODUCTION TO ENVIRONMENTAL SCIENCE** (3)
CR: EVR 2001L. An introductory lecture course linking the human and physical/chemical world. The course will develop an understanding of population and resource interactions.
- EVR 2001L ENVIRONMENTAL SCIENCE LAB** (1)
CR: EVR 2001. A laboratory course linking the human and physical/chemical world. The lab will develop an understanding of population and resource interactions and complement the lecture course. Field trips.
- EVR 2861 INTRODUCTION TO ENVIRONMENTAL POLICY** (3)
An introduction to environmental policy using class lectures, student projects, and independent readings. Emphasis will be placed on understanding basic policy mechanisms and major policy actions relating to environmental issues at the national and international level.
- EVR 4027 WETLAND ENVIRONMENTS -XMW** (3)
PR: PCB 3043 or Cl. Study of the general properties and ecology of wetlands, examination of the distribution and functions of wetlands, and consideration of wetland conservation and policies.
- EVR 4910 ENVIRONMENTAL SCIENCE AND POLICY PROJECT** (3)
Environmental science project consisting of research in a field related to environmental science/environmental policy. Supervised by a faculty member. Open to senior majors only. (S/U only.)
- EVR 4921 ENVIRONMENTAL SCIENCE AND POLICY SEMINAR** (1)
A reading and discussion seminar focusing on the interdisciplinary nature of environmental science and environmental policy. Restricted to senior majors. Repeatable up to 3 cr. hrs. (S/U only.)
- EVR 4930 SELECTED TOPICS** (1-4)
Each topic is a course under the direction of a faculty member with the content depending on the interests of the students and faculty involved. All areas of Environmental Science, Policy, Ethics, Economics and Law included.
- EVR 4940 ENVIRONMENTAL SCIENCE INTERNSHIP** (3)
The purpose of this course is to promote the student's understanding and application of environmental science within a practical organizational context. Contract and project report required. Open to senior majors only. (S/U only.)

Geography

- GEA 2005 GLOBAL GEOGRAPHY -SS -HP -AF** (4)
Comparative and analytical analysis of representative regions of the world with emphasis on cultural, political, economic, environmental, and physical diversity.
- GEA 3009 GENERAL GEOGRAPHY** (4)
Selected topics in regional and topical geography offered as survey courses. Open to all students.
- GEA 3194 REGIONAL GEOGRAPHY** (4)
Variable title course to systematically study and compare special regions identified by the instructor.
- GEA 3202 GEOGRAPHY OF ANGLO-AMERICA** (4)
- GEA 3300 GEOGRAPHY OF MIDDLE AMERICA** (4)
- GEA 3360 GEOGRAPHY OF GULF OF MEXICO** (4)
- GEA 3405 GEOGRAPHY OF LATIN AMERICA -6A** (4)
- GEA 3500 GEOGRAPHY OF EUROPE -6A** (4)
- GEA 3554 GEOGRAPHY OF THE USSR** (4)
- GEA 3600 GEOGRAPHY OF AFRICA** (4)

- GEO 1930 GEOGRAPHY OF CURRENT EVENTS -SS** (4)
Application of basic geographic principles of the analysis of contemporary events in various parts of the world.
- GEO 2041C MAP INTERPRETATION** (4)
Analysis and synthesis of various types of maps and map projections.
- GEO 2371 INTRODUCTION TO EARTH SYSTEMS SCIENCE -NS** (3)
The application of basic earth system science analysis to environmental problems. Review of impact of human activities on the surface of the earth at local and global scales. For non-majors only.
- GEO 3013 INTRODUCTION TO PHYSICAL GEOGRAPHY** (4)
Principles and concepts of the discipline; maps, earth-sun relationships, weather, climate, soil, water, and landforms.
- GEO 3402 HUMAN GEOGRAPHY** (4)
Systematic treatment of humans' activities and relationships on earth; population, settlement, agriculture, industry, trade, transportation, and political aspects are among those considered.
- GEO 3602 URBAN GEOGRAPHY** (4)
PR: GEO 3402 or CI. Geographic analysis of urban areas; development, site, situation, internal structure, and hinterland are considered.
- GEO 3901 ELEMENTS OF GEOGRAPHY** (1)
Independent study; various topics in physical and cultural geography. (S/U only.)
- GEO 3931C SELECTED TOPICS** (4)
- GEO 4100C CARTOGRAPHY** (4)
PR: GEO 3013. Map compilation and graphic presentation.
- GEO 4114C GEOGRAPHIC TECHNIQUES AND METHODOLOGY** (4)
PR: 12 credit hours in Geography or CI. Selected topics in various geographic techniques and methodologies and their application.
- GEO 4124C AIR PHOTO INTERPRETATION** (4)
PR: GEO 3013 or CI. Detection, identification, and analysis of objects on the earth's surface. Techniques other than photographic are also considered.
- GEO 4164C QUANTITATIVE METHODS** (4)
PR: 12 credit hours in Geography or CI. Statistical analysis in geographic research.
- GEO 4201C ADVANCED PHYSICAL GEOGRAPHY** (4)
PR: GEO 3013 or CI. Intensive study of a topic selected from physical geography.
- GEO 4210 PROCESS GEOMORPHOLOGY** (4)
PR: GEO 3013 or GLY 2010 or CI. Origin, evolution, and distribution of the landforms of North America.
- GEO 4280C HYDROLOGY** (4)
PR: GEO 3013 or CI. Hydrologic cycle; precipitation, evapotranspiration, water budget, streamflow, and probability analysis.
- GEO 4340 HUMAN RESPONSE TO NATURAL HAZARDS** (4)
The impact of hurricanes, tornadoes, earthquakes, sink holes, fire, freezes, and droughts on people; attempts to overcome or avoid these hazards.
- GEO 4372 GLOBAL CONSERVATION - 6A -XMW** (4)
The distribution, exploitation, and conservation of physical and human resources, ecology.
- GEO 4421 CULTURAL GEOGRAPHY** (4)
PR: GEO 3402 or CI. The interrelationships of culture and environment, from earlier times to the present.
- GEO 4460 HISTORICAL GEOGRAPHY** (4)
PR: GEO 3402 or CI. Survey of evolving landscapes through time; analysis is made by means of systematic and regional methods in order to reconstruct the changing culture-environment equation.
- GEO 4470 POLITICAL GEOGRAPHY -XMW** (4)
PR: GEO 3402 or CI. The factors underlying geo-political decisions and influencing their outcome; the geographic consequences of these decisions.
- GEO 4502 ECONOMIC GEOGRAPHY** (4)
PR: GEO 3402 or CI. The spatial organization of economic production, consumption, and exchange systems.
- GEO 4604 ADVANCED URBAN GEOGRAPHY -XMW** (4)
PR: GEO 3402, GEO 3602, or CI. Intensive examination of

issues such as economic restructuring and inner-city decline, ghetto formation, gentrification, transportation, and policy-making.

- GEO 4700 TRANSPORTATION GEOGRAPHY** (4)
PR: GEO 3402 or CI. Interrelationships between freight and passenger transportation and land use, in terms of site, traffic generation, and circulation.
- GEO 4900 DIRECTED READING** (1-4)
PR: 20 hours in geography and CI prior to registration. May be repeated.
- GEO 4910 INDIVIDUAL RESEARCH** (1-4)
PR: 20 hours in geography and CI prior to registration. May be repeated.
- GEO 4933 GEOGRAPHY COLLOQUIUM** (1)
PR: Senior standing in Geography. Weekly topical lectures by faculty and outside speakers. Students will develop a plan for their professional or graduate careers.
- GEO 5058 GEOGRAPHIC LITERATURE AND HISTORY** (3)
PR: Senior or graduate standing in geography, or CI. The origins and development of the discipline as revealed through an examination of the principal written sources. Special attention paid to leading personalities and modern periodicals.
- MET 4002 CLIMATOLOGY** (4)
PR: GEO 3013 or CI. An introductory course which includes an examination of climatic classification systems, problem climates, and the application of climate to selected topics such as world vegetation patterns, agriculture, housing and health.
- MET 4010C METEOROLOGY** (4)
PR: GEO 3013 or CI. The earth's atmosphere and its processes; weather forecasting and analysis; instrumentation.
- URP 4052 URBAN AND REGIONAL PLANNING** (4)
The geographic foundations of the modern city, metropolitan development, and the trend toward megalopolis. Examined are the political problems of conflicting jurisdictions at the local, county, state, national, and international levels.

Geology

- GLY 2010 DYNAMIC EARTH: INTRODUCTION TO PHYSICAL GEOLOGY -NS** (3)
Study of minerals, rocks, and processes of the earth's crust. Introduction to origin and classification of earth's materials and landforms.
- GLY 2010L DYNAMIC EARTH LABORATORY** (1)
PR: GLY 2010 or concurrent registration. Laboratory study of earth materials, landforms, geologic structures, topographic and geologic maps. Lec-lab-field trips. Required for Geology majors; open to non-majors.
- GLY 2030 ENVIRONMENTAL GEOLOGY -NS** (3)
A first course in geology emphasizing environmental aspects of the earth's crust, such as earthquakes, depletion of the earth's resources, water supply problems, and geologic land use and planning. No credit for students with 2010. May substitute for 2010 for geology majors.
- GLY 2040 ORIGINS: FROM THE BIG BANG TO THE ICE AGE -NS** (3)
The history of the cosmos, origin of the universe, galaxies, the solar system, and earth, evolution of life, great extinctions including the dinosaurs, evolution of the primates, and the environmental future of the planet. (For both non-science and science majors.)
- GLY 2100 HISTORY OF THE EARTH AND LIFE -NS** (3)
PR: A course in geology. Study of the physical and biological history of the earth including evolution of the major groups of organisms, continental drift, and interpretation of ancient environments.
- GLY 2100L EARTH HISTORY LABORATORY** (1)
Laboratory study of the history of the earth and life. Required for Geology majors; open to non-majors.
- GLY 2930 SELECTED TOPICS IN GEOLOGY** (1-3)
Topical courses in geology of general interest. Does not count toward the geology major.

- GLY 3200 MINERALOGY (4)**
PR: GLY 2010, one year of chemistry, or Cl. Principles of crystal chemistry, crystallography and mineralogy with emphasis on common rock-forming minerals. Lec.-lab.
- GLY 3400C STRUCTURAL GEOLOGY (4)**
PR: 12 hours of geology, MAC 2132 or equivalent or Cl. Study of the origin and development of structural features of the earth's crust. Applications of principles of geology, physics, and mathematics to understanding relationships of strata and interpreting structural features. Study of regional tectonics and major structural provinces. Lec.-lab.
- GLY 3610C INTRODUCTION TO INVERTEBRATE PALEONTOLOGY (4)**
PR: GLY 2100, BSC 2010C or equivalent strongly encouraged as background. Lectures cover principles and applications of paleontology, including biostratigraphy, taphonomy, paleoecology, and micro- and macroevolutionary patterns and processes. Labs survey the invertebrate phyla comprising the bulk of the fossil record.
- GLY 3850 GEOLOGY FOR ENGINEERS (3)**
PR: Junior standing in College of Engineering or Cl. An examination of geologic materials and processes designed for engineering students; classification and properties of earth materials, surface processes, site investigation techniques, applications of geology to the solution of engineering problems. (No credit toward the geology major, or for those with credit for GLY 2010.)
- GLY 4310 PETROLOGY (4)**
PR: GLY 3200, Cl. The formation of igneous and metamorphic rocks in varying tectonic environments. Emphasis is placed on the identification of igneous and metamorphic rocks in hand specimens and thin sections. Lec.-lab.
- GLY 4550 DEPOSITIONAL SYSTEMS (4)**
PR: GLY 4552C. Study of modern sedimentary environments and their relationships to one another in order to understand environments preserved in the rock record. Physical, chemical, and biological aspects of terrestrial, transitional and marine sedimentary environments will be examined in light of their eventual preservation in the stratigraphic record.
- GLY 4552C SEDIMENTARY GEOLOGY AND GEOCHEMISTRY (4)**
PR: GLY 2010, GLY 3200, and one year of chemistry. A lecture and laboratory class that integrates knowledge of the lithosphere, atmosphere, biosphere, hydrosphere, and cyrosphere to study the sedimentary rock record. Examination of the rock record to solve problems in sedimentary geology.
- GLY 4700 GEOMORPHOLOGY (4)**
PR: Senior or advanced junior standing and Cl. Origin, evolution and distribution of land forms and soils. Dynamics of the earth's surface. Lec.-lab-field trips.
- GLY 4730 MARINE GEOLOGY (3)**
PR: 12 hours of geology or Cl. General survey of the geology of the ocean floor from beaches to ocean trenches including sediments, processes, tectonics and history.
- GLY 4734 BEACHES AND COASTAL ENVIRONMENTS -XMW (3)**
PR: Junior standing. A comprehensive introduction to the nature of all coastal environments including beaches, dunes, tidal inlets, estuaries, reefs, and river deltas. Emphasis will be on the natural state of these environments and how human activities have and will impact them. Consideration of coastal management policies involving economics, ethics, policy, and environmental law.
- GLY 4780 GEOLOGICAL FIELD STUDIES (1-3)**
PR: 1 geology course. Lectures and field trip to study modern geologic systems and/or geologic origins of specific regions. Mapping and field description techniques introduced. Topic/destination of trip varies. Trip requires camping and vigorous physical activity. May be repeated up to 9 hours, as destinations vary. Lec. Field trip.
- GLY 4822 INTRODUCTION TO HYDROGEOLOGY (4)**
PR: GLY 2010, advanced junior or senior standing, one year each physics and calculus or Cl. Ground water flow

- systems, ground water geology, introduction to numerical and analytical models of ground water flow. Lec.-lab.-field trips.
- GLY 4905 INDEPENDENT STUDY (1-3)**
PR: Cl. Specialized independent study determined by the student's needs and interests. May be repeated. (S/U only)
- GLY 4915 UNDERGRADUATE RESEARCH (1-3)**
PR: Senior or advanced junior standing and written permission of department prior to registration. Individual experimental investigations with faculty supervision. (S/U only)
- GLY 4920 GEOLOGY COLLOQUIUM (1)**
PR: Senior standing in Geology. Weekly topical lectures by faculty, graduate students and invited speakers. (S/U only)
- GLY 4930 SELECTED TOPICS IN GEOLOGY (1-4)**
Each topic is a course under the direction of a faculty member with the content depending on the interests of the students and faculty involved. All areas of geology included. Departmental permission required prior to registration.
- GLY 4970 UNDERGRADUATE HONORS THESIS (3)**
Open to seniors admitted to the Geology undergraduate honors program. Students will complete an independent research project under supervision of a faculty member, and present results in a senior thesis and a public presentation.
- GLY 4981 MOONS, PLANETS AND METEORS: AN INTRODUCTION TO PLANETARY SCIENCE -XMW (3)**
PR: Junior standing. Solar System exploration, from Aristotle to NASA. Modern views on the origins of meteorites, the Moon, Mars, Venus, and other planetary bodies, and the methods of planetary study. Meteor impacts, their effects, future hazard. Space science as a tool in the study of the Earth. Field trips, lectures, Internet exercises.
- GLY 5752 GEOLOGICAL FIELD EXCURSION (2)**
Lectures and 2-3 week field excursion to study regional geology, structure and lithogenesis of geologically complex terrain. Mapping and outcrop description techniques are emphasized. Destination of trip varies. Trip requires camping and vigorous physical activity. Lec.-field trip.
- GLY 5865 STATISTICAL MODELS IN GEOLOGY (3)**
PR: STA 2023 or equivalent or Cl. Application of statistical methods to geological problems. Emphasis on sampling plans, nature of geologic distributions, and application of analyses of variance to solving geological problems. Lec.
- GLY 5932 SELECTED TOPICS IN GEOLOGY (1-4)**
PR: Senior or advanced junior standing and CC. Each topic is a course in directed study under supervision of a faculty member. All areas of geology included. Departmental permission required prior to registration.
- OCE 2001 INTRODUCTION TO OCEANOGRAPHY -NS (3)**
Overview of biological, chemical, geological, and physical oceanography. May substitute for 2010 for geology majors. (Also listed under Marine Science.)

Gerontology

- GEY 3000 INTRODUCTION TO GERONTOLOGY -SS (3)**
This course is designed to be an introduction to the study of aging. The aging process is viewed from a multi-disciplinary perspective including the biological, psychological, and sociological aspects of aging.
- GEY 3601 BEHAVIOR CHANGES IN LATER LIFE (3)**
A survey of physical and psychological aspects of aging from middle age through older age. Course emphasis will be on basic age-related changes and their implications for behavior in older age.
- GEY 3625 SOCIOCULTURAL ASPECTS OF AGING -6A -SS -AF (3)**
Consideration of human aging in a broad sociocultural context. Course emphasis will be on historical, philosophic, and demographic aspects of aging, theories of social gerontology, attitudes toward aging and the aged, cross-cultural perspectives on aging, the sociology of retirement, and aging and the community.

- GEY 4327 LONG-TERM CARE ADMINISTRATION I** (3)
PR: GEY 3000. A survey of Long Term Care (LTC) environments. Explored are such issues as definitions of LTC, physiological conditions of LTC uses, the institutional setting, the sociopsychological context, and methods of evaluation and intervention.
- GEY 4328 LONG-TERM CARE ADMINISTRATION II** (3)
PR: GEY 4327. Administration of long-term care institutions from a group dynamics perspective. Emphasis on informed problem solving and decision-making via analysis of the psychosocial and sociocultural environment in the nursing home community, including case studies and actual visits to nursing homes. Course objective is to create efficient and humane living and working conditions in nursing homes.
- GEY 4329 LONG-TERM CARE ADMINISTRATION III** (3)
PR: GEY 4328. This course will familiarize the student with the basic aspects of nursing home administration through the practical application of management theory and concepts.
- GEY 4360 GERONTOLOGICAL COUNSELING** (3)
An introduction to the study of the major mental health problems of the elderly. Current approaches to counseling the elderly in community and institutional settings are discussed.
- GEY 4401 RESEARCH METHODS IN GERONTOLOGY** (3)
PR: STA 2122 or equivalent. Restricted to Gerontology majors, others by departmental permission. Methods and techniques of social research in gerontology. Design of gerontological studies, collection and analysis of data, interpretation of results, and preparation of reports.
- GEY 4610 PSYCHOLOGY OF AGING** (3)
A comprehensive overview of psychological aspects of aging. Topics will include age-related changes in sensation/perception, cognition, and personality, as well as application to late-life psychopathology. (Also offered under Psychology.)
- GEY 4640 DEATH AND DYING** (3)
PR: GEY 3000. A broad overview of the basic concepts and psychosocial issues relating to the meaning of loss and death, the process of death, and the experience of grieving. Health care practices are considered along with community resources.
- GEY 4900 DIRECTED READINGS** (1-3)
PR: Cl. A reading program with topics in gerontology conducted under the supervision of a faculty member.
- GEY 4935 SPECIAL TOPICS IN GERONTOLOGY** (3)
Courses on topics such as preretirement, mental health, human services organization, nursing home administration, the older woman, and elder abuse will be offered.
- GEY 4945 FIELD PLACEMENT** (3-9)
PR: Cl. Internship in an agency or community setting. An assignment to an agency or organization, engaged in planning or administering programs for older people if in the BA program (3-6 hours). A full-time assignment to a nursing home in the BS program (9 hours) subject to availability of internship sites approved by the Department of Gerontology.
- GEY 5620 SOCIOLOGICAL ASPECTS OF AGING** (3)
Examines, within a sociological frame of reference, the interrelationships between the aged (or aging) and the structure and function of the social systems and its major institutionalized subsystems.
- GEY 5630 ECONOMICS AND AGING** (3)
Examines basic economic systems as they impact the aged. Emphasis is on applied aspects of economic planning, pensions, insurance, social security, and other support systems.
- GEY 5642 PERSPECTIVES ON DEATH AND DYING** (3)
Study of the various psychological, medical, legal, and religious problems caused by dying and death, and of how individuals and groups have responded in the past and present.
- HUS 3001 INTRODUCTION TO HUMAN SERVICES** (3)
An introduction to the field of human services. Study of the

professions and agencies involved in providing human services. Analysis of the values and ethics of various professional associations.

- HUS 4020 THE LIFE CYCLE** (4)
An examination of individuals and the physiological and psychosocial changes which occur during infancy, childhood, adolescence, young adulthood, middle age and old age.

History

- AFH 3100 AFRICAN HISTORY TO 1850 -HP -AF** (3)
An outline survey of pre-colonial African history including a prefatory introduction to the use of primary sources (such as archaeology, oral tradition, cultural anthropology, comparative linguistics, documents) in reconstructing the African past. (Also offered under Africana Studies.)
- AFH 3200 AFRICAN HISTORY SINCE 1850 -HP -AF** (3)
Survey of the Colonial and post-colonial history of Africa. Emphasis on the impact of European and other alien influences on the continent, emergence of independent African states, and postindependence problems of nation building and economic development. (Also offered under Africana Studies.)
- AMH 2010, 2020 AMERICAN HISTORY I, II -HP** (3,3)
A history of the United States with attention given to relevant developments in the Western Hemisphere, AMH 2010: European origins to 1877; AMH 2020: 1877 to present.
- AMH 3110 AMERICAN COLONIAL HISTORY TO 1750** (4)
A study of the evolution of American society from the Age of Reconnaissance to 1750. Attention is given to the transformation from colonies to provinces with emphasis on ethnocultural conflict, religion, labor systems, and political culture.
- AMH 3130 THE AMERICAN REVOLUTIONARY ERA** (4)
Emphasis on the causes of the American revolution, the nature of Constitution-making, and the establishment of the federal system. Also examines the significance of loyalism, violence, and slavery in American society from 1750-1789.
- AMH 3140 THE AGE OF JEFFERSON** (4)
A comprehensive study of American society and political culture from 1789-1828. Focuses on demographic trends, party systems, expansionism, Indian policy, labor, and ethno-cultural conflicts.
- AMH 3160 THE AGE OF JACKSON** (4)
The United States from 1828-1850, with emphasis on social and political conflict. Consideration of evangelicalism, reform, labor movements, urbanization, and political activity in the antebellum era.
- AMH 3170 THE CIVIL WAR AND RECONSTRUCTION** (4)
An examination of political, social, and economic climate of the 1850's that led to the American Civil War. The course does focus upon the war itself in its military, diplomatic, and political consequences through the end of the Reconstruction (1877).
- AMH 3201 THE UNITED STATES, 1877-1914** (4)
A study of the United States from the end of Reconstruction to World War I. Ranging over political, social, and international developments, the course covers industrialization, immigration, unions, reform, feminism, race relations, and imperialism.
- AMH 3231 THE UNITED STATES, 1914-1945** (4)
A study of the United States from World War I to the end of World War II. Covering political, social, and international developments, the course examines the lives of Americans, including minorities and women, during prosperity, war, and the Great Depression.
- AMH 3270 THE UNITED STATES, SINCE 1945** (4)
A study of the U.S. role in the Cold War, in VietNam, and in the post-Cold War era. It also examines domestic developments such as the consumer culture, protest movements, and the abuses of political power.

- AMH 3403 THE SOUTH SINCE 1865** (4)
Southern history since the surrender at Appomattox. Topics covered include Reconstruction, the Populist revolt, race relations, demagoguery and disfranchisement, Southern women, and the Civil Rights Movement.
- AMH 3421 EARLY FLORIDA** (4)
A history of colonial Florida under the Spanish and English. Florida as an area of discovery, colonization, and imperial conflict; the emergence of Florida within the regional setting.
- AMH 3423 MODERN FLORIDA** (4)
An historical survey of Florida from the territorial period to the modern era. An examination of the social, political, and economic changes occurring in Florida between 1821 and the 1980s.
- AMH 3500 AMERICAN LABOR HISTORY** (4)
A study of American workers from the colonial period to the present. Examines the changing nature of work, its effects on workers (including minorities and women), and their responses as expressed in strikes, unions, and political action.
- AMH 3510 U.S. DIPLOMATIC HISTORY TO 1898 -6A** (4)
The development of American Foreign Relations in the Agricultural era.
- AMH 3511 U.S. DIPLOMATIC HISTORY IN THE 20TH CENTURY** (4)
A history of American Foreign Relations in the Industrial era.
- AMH 3530 IMMIGRATION HISTORY** (4)
A study of the composition and character of the "American" people with emphasis on the period from 1840s to the 1920s. Examines old world backgrounds of immigrants and their responses to the new world's social, economic and political conditions.
- AMH 3540 UNITED STATES MILITARY HISTORY** (4)
A study of American military policy and practices from colonial days to the present. Attention is given both to tactics and to strategy in the unfolding formulation and development of American armed might.
- AMH 3545 WAR AND AMERICAN EMPIRE** (4)
The U.S. evolved in 200 years from 13 colonies to the number one power in the world. To achieve this goal we utilized war to achieve empire. This course will examine the link between American War and empire from the Revolution through Viet Nam.
- AMH 3561 AMERICAN WOMEN I** (4)
A study of women in the evolution of American society from European origins to 1877. Women's roles in the family, economy, politics, wars, and reform movements will be examined. (May also be taken for credit in Women's Studies.)
- AMH 3562 AMERICAN WOMEN II** (4)
A study of women in the evolution of American society from 1877 to the present. Women's roles in the family, economy, politics, immigration, wars, religion and reform movements will be examined. (May also be taken for credit in Women's Studies.)
- AMH 3571 AFRICAN AMERICAN HISTORY TO 1865 -HP** (3)
A survey of African American history, with an emphasis on North Americas to 1865. Topics include pre-colonial Africa, transatlantic slave trade, slavery, and the Civil War. (May also be taken for credit in Africana Studies.)
- AMH 3572 AFRICAN AMERICAN HISTORY SINCE 1865 -HP** (3)
A survey of African American history, with an emphasis on North America, from 1865 to the present. Topics include reconstruction, World War I, World War II, and the Civil Right Movement. (May also be taken for credit in Africana Studies.)
- AMH 3800 HISTORY OF CANADA** (4)
A study of Canadian experience from its French origins through the British conquest to its present multi-racial character. Attention will also be given to the forces of nationalism, separatism, and regionalism.
- ASH 3404 MODERN CHINA -SS - HP -AF** (4)
Political, economic, and social history of China from the time of the first major Western contacts (17th-18th Centuries) through the consolidation of socialism in the late 1950's, and the Great Leap Forward.
- ASH 3501 HISTORY OF INDIA** (4)
A study of the major themes of Indian history from the Indus culture to the present. Emphasis will be given to the Classical, Mogul and British periods as well as the modern independent sub-continent.
- EUH 2011 ANCIENT HISTORY I -HP** (3,3)
An introductory survey of ancient history. EUH 2011 treats the ancient Near East and Greece from the origins of civilization to the full development of the Hellenistic kingdoms prior to conflict with Rome.
- EUH 2012 ANCIENT HISTORY II -HP** (3,3)
An introductory survey of ancient history. EUH 2012 deals with Rome through the Regal, Republican, and Imperial periods, from the beginnings of civilization in Italy to the division of the Roman Empire, A.D. 395.
- EUH 2021, 2022 MEDIEVAL HISTORY I, II -HP** (3,3)
A thematic survey of the Middle Ages. EUH 2021 deals with the nascent, Christian civilization of European, circa 300-1050 A.D.; EUH 2022 treats the mature medieval civilization of Europe, circa 1050-1500.
- EUH 2030, 2031 MODERN EUROPEAN HISTORY I, II -HP** (3,3)
A thematic survey of Europe in the modern age. EUH 2030 treats the period from the Renaissance to the French Revolution; EUH 2031, from the French Revolution to the present.
- EUH 3142 RENAISSANCE AND REFORMATION** (4)
A history of Europe from the Renaissance to the Thirty Years' War (1400-1618). The cultural, social, and economic characteristics will provide the framework for artistic, philosophical, religious, and political developments.
- EUH 3181 MEDIEVAL CULTURE** (4)
A survey of thought, culture, and art in the Middle Ages. Medieval attitudes as manifested in literature, art, philosophy, education, and religion; with emphasis upon Medieval man's changing perception of himself and his world.
- EUH 3185 VIKING HISTORY** (4)
The role of the Vikings in the shaping of Western history. A comprehensive survey of their institutions, outlook and daily life. Viking expansion into Europe and North America.
- EUH 3188 MEDIEVAL SOCIETY** (4)
A study of the daily life and attitudes of the medieval nobleman, peasant, townsmen, and the agrarian-urban economy and society which affected their lives.
- EUH 3189 MEDIEVAL POLITICS** (4)
An inquiry into the nature, distribution, and use of political power during the Middle Ages, in such institutions as feudalism, monarchy, cities, and the church.
- EUH 3202 HISTORY OF 17TH AND 18TH CENTURY EUROPE** (4)
A history of Europe from the beginning of the Thirty Years' War to the outbreak of the French Revolution. Political and intellectual developments will be assessed in the light of society and the economy.
- EUH 3205 HISTORY OF NINETEENTH CENTURY EUROPE** (4)
A comparative study of economic, political, social, and intellectual developments in nineteenth century Europe.
- EUH 3206 HISTORY OF TWENTIETH CENTURY EUROPE** (4)
A comparative study of economic, political, social, and intellectual developments in twentieth century Europe.
- EUH 3401 CLASSICAL GREECE** (4)
A study of ancient Greece focusing on the brilliant period following the Persian Wars, but embracing as well the formative Bronze, Middle and Archaic ages, and the decline culminating in the conquest of Greece by Philip II of Macedon in 338 B.C.
- EUH 3402 AGE OF ALEXANDER** (4)
A study focusing on the career of Alexander the Great and on the Greek and Macedonian conquest of Imperial Persia. Also treated are the great hellenistic kingdoms prior to Rome's conquest of the eastern Mediterranean.
- EUH 3412 ROMAN REPUBLIC** (4)
A study of the Roman Republic from 509 B.C. to the assassination of Julius Caesar in 44 B. C., with a prelude

- treating Rome's early development under royal rule. Political growth and change provide the framework for the treatment.
- EUH 3413 ROMAN EMPIRE (4)**
A study of Imperial Roman from the assassination of Julius Caesar in 44 B.C. to the death of the emperor Constantine in A.D. 337. Emphasized is Rome's government of a vast Mediterranean empire including much of the near East and Europe.
- EUH 3461 GERMAN HISTORY TO 1870 (4)**
A political, social, and cultural approach to the history of the Germanies from 1500 through 1870, with emphasis on the Protestant Reformation, the rise of Brandenburg-Prussian, and the unification under Bismarck.
- EUH 3462 GERMAN HISTORY 1870 TO PRESENT (4)**
A political, social, and cultural approach to the history of the German Empire from 1870 through the 1970's. The nation's two attempts to try for world power status are highlighted, as well as the Weimar Republic, prototype of the embattled democracy.
- EUH 3501 BRITISH HISTORY TO 1688 (4)**
A study of major developments in British history from the 15th century to 1688.
- EUH 3502 BRITISH HISTORY 1688 TO PRESENT (4)**
A study of the major themes of British history since the Glorious Revolution, including social, political, and economic developments leading to the creation of the modern demographic welfare state.
- EUH 3530 BRITISH EMPIRE AND COMMONWEALTH (4)**
A study of the development of the British Empire from the age of initial expansion overseas to the creation of the multinational commonwealth. Included are examinations of theory and myth of colonialism as well as the literature of imperialism.
- EUH 3571 RUSSIAN HISTORY TO 1865 (4)**
A survey of the social, political, economic, and cultural development of Russia from the year 800 to 1865. Topics include the personality of Russian rulers, the origins of Russian Socialism, and Russia's relationship to the West.
- EUH 3572 RUSSIAN HISTORY 1865 TO PRESENT (4)**
An analysis of the tradition from late imperial society to the contemporary Soviet system. Emphasis will be placed on continuity and change in the economic, political, and cultural aspects of Russia from 1865 to present.
- HIS 2931 SPECIAL TOPICS (2-4)**
This course emphasizes a selected historical problem or issue. A variety of instructional approaches will be taken, and topics may vary.
- HIS 3474 SCIENCE AND CIVILIZATION (4)**
A thematic study of the interrelationship of science and society in modern history emphasizing the institutional forms, value structures, and social relations in science as they have developed from the scientific revolution to the present.
- HIS 3930 SPECIAL TOPICS (2-4)**
This course is designed to emphasize a selected historical problem or issue that is meaningful and challenging to the student. A variety of instructional approaches will be taken to the material. Topics will be changed each semester.
- HIS 4104 THEORY OF HISTORY (4)**
Recommended to be taken during the senior year. Required of all history majors. An analysis of the foundations of historical knowledge and historical methodology. Includes a survey of historical thinking and writing from ancient times to the present.
- HIS 4900 DIRECTED READING (1-4)**
PR: Cl. Arrangement with instructor prior to registration. Readings in special topics.
- HIS 4920 COLLOQUIUM IN HISTORY (2-4)**
Reading and discussion of selected topics in the various fields of history. The subject and scope of inquiry will be determined by the instructor for each section. May be repeated for credit.
- HIS 4936 PRO-SEMINAR IN HISTORY -6A -XMW (4)**
PR: Cl. Advanced topics in the various fields of history.
- Emphasis on discussion of assigned readings and on research and writing of a major paper. Required of all history majors. May be repeated up to 12 credit hours.
- HIS 5215 HISTORICAL WRITING (2)**
A course for graduate and advanced undergraduates to combine library, archival and research skills with an examination of various writing styles. Analytic and synthetic skills are stressed in writing articles, reviews and essays.
- LAH 2020 LATIN AMERICAN CIVILIZATION (3)**
An introduction to selected issues, events, and people in Latin America from 1492 to the present. Focus on Argentina, Brazil, Chile, Cuba, and Mexico.
- LAH 2734 LATIN AMERICAN HISTORY IN FILM -HP - AF (3)**
Through the use of films and readings, the course introduces the broad sweep of Latin American history from the pre-Columbian period to today. Emphasis is placed on the social-cultural context to understand the peoples and events that have shaped Latin America.
- LAH 3130 COLONIAL LATIN AMERICA (4)**
A study of the Spanish and Portuguese Colonial empires in the New World from 1492-1830.
- LAH 3200 MODERN LATIN AMERICA (4)**
A study of the emergence of the Latin American states. The course will examine developments in Latin America during the nineteenth and twentieth centuries. Special attention is given to the Third World character of the region.
- LAH 3430 HISTORY OF MEXICO (4)**
Mexican history from pre-Columbian cultures to the twentieth century. Emphasis falls on the colonial political economy, social development, the wars of independence, development of the 19th century Mexican state and the Mexican revolution.
- LAH 3470 HISTORY OF THE CARIBBEAN (4)**
A thematic study of the circum-Caribbean from pre-Columbian cultures to the twentieth century, emphasizing the development of the Caribbean political economy with emphasis on monoculture, plantation society, and colonial/neo-colonial relationships.
- LAH 3480 HISTORY OF CUBA (4)**
Cuban history from pre-Columbian cultures to the Cuban Revolution. Emphasis on colonization, the sugar economy, the struggles for independence, the political economy of the Republic, and the 20th century revolutionary process.
- WST 3210 WOMEN IN WESTERN CIVILIZATION I -6A -HP (3)**
Survey of women in the ancient Near East, ancient Greece, ancient Rome, early Middle Ages. Origins of Western attitudes toward sex roles, female sexuality, relation of power to gender. (May also be taken for credit in Women's Studies.)
- WST 3220 WOMEN IN WESTERN CIVILIZATION II -HP (3)**
Survey of European women from the late Middle Ages to the twentieth century; differing consequences of historical change for women and men. (May also be taken for credit in Women's Studies.)

Humanities and American Studies

- AMS 2030 INTRODUCTION TO AMERICAN STUDIES -SS -HP(3)**
An overview of American Studies, the interdisciplinary study of American culture. Analysis of the arts and literature, including music; social issues; popular culture; material culture; cultural diversity; and social change. These approaches will be applied to a specific cultural era.
- AMS 2363 ISSUES IN AMERICAN CIVILIZATION (1-4)**
An examination of selected topics such as natural environment and the quality of life, sports and American society, popular music, American communities, vigilante tradition, jazz music, role of the family, American success myth, youth in America. Topic varies.
- AMS 3001 AMERICAN CULTURE 1880-1915 -6A -HP (4)**
Integration of major aspects of American life between the 1880s and World War I.
- AMS 3201 COLONIAL AMERICAN CULTURE -HP (4)**
An examination of cultural patterns in America as they developed between 1600 and 1780 with an emphasis on the texture of everyday life.

- AMS 3210 REGIONS OF AMERICA -HP** (4)
The pattern of American culture as revealed through an examination of selected writings and other pertinent materials dealing with selected American regions. Topic varies. Repeatable up to eight credit hours.
- AMS 3230 AMERICA DURING THE TWENTIES AND THIRTIES** (4)
Selected interdisciplinary materials are used to examine the relationships among regionalism, nationalism and internationalism during the twenties and thirties. Emphasis is placed on the measure of cultural nationalism attained by the United States during this period.
- AMS 3260 AMERICAN CULTURE, 1830-1860 -6A -HP** (4)
Examines the patterns of American culture in the years leading up to the Civil War. Topics include religion and social reform, race relations, and the impact of industrialization.
- AMS 3302 ARCHITECTURE AND THE AMERICAN ENVIRONMENT** (3)
By means of slides, lectures and discussion the course examines 350 years of American architectural history. Architectural styles, aesthetics and the relation between a building and its social environment are stressed.
- AMS 3370 SOUTHERN WOMEN: MYTH AND REALITY -6A -HP** (3)
This course will identify the myths surrounding Southern Women, discern their sources and purposes, and contrast them with history. (Also offered under Women's Studies.)
- AMS 3601 MATERIAL CULTURE AND AMERICAN SOCIETY -SS -HP** (3)
By means of slides, lectures and student projects, examines connections between artifacts and American cultural attitudes from 17th century to present. Topics include: architecture, furniture, gravestones, toys, and the material subcultures of women, African-Americans and communal societies.
- AMS 3700 RACISM IN AMERICAN SOCIETY -SS - HP** (3)
An introduction into the causes and effects of racism in American history, literature, art, the media, and folklore. Related concepts of ethnocentrism and class conflict will also be studied. (Also offered under Africana Studies.)
- AMS 3930 SELECTED TOPICS IN AMERICAN STUDIES** (1-4)
Offerings include Cultural Darwinism in America, America Through Foreign Eyes, and The Female Hero in American Culture.
- AMS 4152 FILM IN AMERICAN CULTURE** (3)
Surveys the contributions to American culture of major films, studios, directors, stars, theaters, and controversies from the perspectives of genres and styles, critical methodologies and theories. Variable topics such as: series on a region, director, performer, subject, or period of time.
- AMS 4804 MAJOR IDEAS IN AMERICA -XMW** (3)
Investigates the role of one or more influential ideas in American culture, for example: individualism, identity, community, dissent, reform, utopianism, democracy. Emphasizes the critical analysis of a variety of primary texts. Topic varies. May be repeated up to 6 credit hours.
- AMS 4910 INDIVIDUAL RESEARCH** (1-4)
The content of the course will be governed by student demand and instructor interest. Instructor approval required prior to registration.
- AMS 4930 SELECTED TOPICS IN AMERICAN STUDIES** (1-4)
Offerings include social implications of American Painting, Technology in Twentieth Century America, American Environmental Problems, Popular Culture in America, American Military Experience, and Labor in America.
- AMS 4935 SENIOR SEMINAR IN AMERICAN STUDIES** (4)
PR: Senior in American Studies or CI.
- AMS 4936 SENIOR SEMINAR IN AMERICAN STUDIES** (4)
PR: Senior in American Studies or CI.
- HUM 2024 THE ARTS -FA** (3)
Analysis of selected works of literature, music, film, and visual art, representing artists of diverse periods, cultures, genders, and races. Especially recommended for students who later take 4000-level Humanities courses.
- HUM 2211 STUDIES IN CULTURE: THE ANCIENT THROUGH MEDIEVAL PERIODS -HP** (3)
A survey of literature and the arts of ancient Greece, Rome, and medieval Europe. Issues to be examined may include the dialogue between local traditions and cosmopolitan cultures, the relationship of the individual to society, and the bases for moral values.
- HUM 2243 STUDIES IN CULTURE: THE RENAISSANCE THROUGH THE TWENTIETH CENTURY -HP** (3)
A historical survey of the visual arts, literature, music and thought of Europe from the Renaissance through the twentieth century. Issues to be examined may include the relationship between science and the arts and the consequences of the growing contacts among world civilizations and the impact of technological change.
- HUM 2930 SELECTED TOPICS** (1-4)
An introductory course dealing with a recurrent theme in the arts or focusing on a particular artistic center (a nation or city at a particular time). May be repeated up to 8 credit hours with change of content.
- HUM 3251 STUDIES IN CULTURE: THE TWENTIETH CENTURY -HP** (3)
Analysis of selected works of twentieth century art, including films, paintings, music, and literature, in the context of major political, social, and economic events, such as war, depression, totalitarianism, and technological change.
- HUM 3271 EASTERN AND WESTERN CULTURE FROM ANTIQUITY TO 1400 -AF** (3)
A comparative treatment of music, visual arts, theatre, literature, and philosophy in the East and West, proceeding chronologically from Ancient times through the Middle Ages, emphasizing Europe and India.
- HUM 3273 EASTERN AND WESTERN CULTURE SINCE 1400 -AF** (3)
A comparative treatment of music, visual arts, theatre, literature, and philosophy in the East and West, proceeding chronologically from the Renaissance through the present, emphasizing Europe, the United States, and India.
- HUM 4402 HUMANITIES IN INDIA** (4)
PR: Sophomore standing or CI. Examples from the arts and letters of India and the relationship of these arts to the Hindu and Buddhist philosophy-religions.
- HUM 4404 HUMANITIES IN CHINA** (4)
PR: Sophomore standing or CI. Examples from the arts and letters of China; their relationship to Taoism, Confucianism and other Chinese philosophies; Western influences on twentieth century Chinese arts and letters.
- HUM 4405 HUMANITIES IN JAPAN** (4)
PR: Sophomore standing or CI. Examples from the arts and letters of Japan, their relationship to Zen Buddhism and other Japanese philosophy-religions; Western influences on twentieth century Japanese arts and letters.
- HUM 4433 ANCIENT GREEK CULTURE** (4)
PR: Sophomore standing or CI. A study of the poetry, drama, philosophy, historical writing, painting, sculpture and architecture of ancient Greece, including such authors as Homer, Sophocles, and Plato, and monuments such as the Parthenon.
- HUM 4434 THE CULTURE OF ANCIENT ROME** (4)
PR: Sophomore standing or CI. A study of the poetry, drama, philosophy, historical writing, painting, sculpture and architecture of ancient Rome, including such authors as Virgil, Livy, and Cicero, the monuments of Rome, Pompeii, and Herculaneum.
- HUM 4435 EARLY MEDIEVAL CULTURE** (4)
PR: Sophomore standing or CI. A study of the culture of Europe and the Mediterranean world from the 4th to 11th centuries through readings of early Medieval historians, poets, and theologians, as well as the study of illuminated manuscripts, mosaics, painting and architecture.
- HUM 4436 HIGH MEDIEVAL CULTURE** (4)
PR: Sophomore standing or CI. A study of the culture of Western Europe from the 11th to 14th centuries. Readings will include poetry and religious works; examples of painting, architecture, sculpture and music will be studied.

- HUM 4437 ITALIAN RENAISSANCE CULTURE (4)**
PR: Sophomore standing or Cl. A study of the painting, literature, music, sculpture and architecture of early modern Italy (1300-1600), emphasizing humanism, the revival of antiquity, the tension between sacred and secular, and artists such as Michelangelo, Titian and Raphael.
- HUM 4438 NORTHERN RENAISSANCE CULTURE (4)**
PR: Sophomore standing or Cl. A study of the Northern Renaissance, 1400-1580, as exemplified in Germany, France, the Netherlands, England, and Spain. The course includes painting, architecture, literature and music, with special study of Durer, Van Eyck, El Greco, and Bosch.
- HUM 4440 ARTS AND LETTERS IN THE 17TH AND 18TH CENTURIES (4)**
PR: Sophomore standing or Cl. A study of the visual arts, literature, and music from the mysticism and ornament of the Baroque to the rationalism and classicism of the Enlightenment, including such artists, authors and composers as Rembrandt, Gentilleschi, Voltaire, Bach and Mozart.
- HUM 4442 ARTS AND LETTERS OF THE ROMANTIC PERIOD (4)**
PR: Sophomore standing or Cl. Continental masterworks of fiction, painting, and music in the context of European cultural history from the French Revolution to the Revolutions of 1848.
- HUM 4444 NINETEENTH CENTURY EUROPEAN ARTS AND LETTERS (4)**
PR: Sophomore standing or Cl. A study of continental literary, musical, and artistic masterworks from the Revolutions of 1848 until the outbreak of World War I.
- HUM 4445 TWENTIETH CENTURY ARTS AND LETTERS I (4)**
PR: Sophomore standing or Cl. Analysis of selected works of twentieth century art. The course will focus on a particular phase in the development of modernism, a set of themes, or certain stylistic aspects of various arts of the twentieth century.
- HUM 4446 TWENTIETH CENTURY ARTS AND LETTERS II (4)**
PR: Sophomore standing or Cl. Analysis of selected works of twentieth century art. The course will focus on a particular phase in the development of modernism, a set of themes, or certain stylistic aspects of various arts of the twentieth century.
- HUM 4452 NINETEENTH CENTURY AMERICAN CULTURE (4)**
PR: Sophomore standing or Cl. Study of selected works of art, tracing the course of American expansionism in civilization, and the interaction between the arts and the sciences in American ways of life and work, 1790-1890.
- HUM 4455 TWENTIETH CENTURY AMERICAN CULTURE (4)**
PR: Sophomore standing or Cl. Study of selected works, tracing the course of expansion in the production and enjoyment of works of art, and interaction between the idealistic and pragmatic concerns for development of the arts in the 20th century.
- HUM 4462 ANCIENT LATIN AMERICAN CULTURE (4)**
PR: Sophomore standing or Cl. Analysis of selected Latin American works of art in their cultural context, with emphasis on major art forms selected from the Pre-Columbian period.
- HUM 4464 LATIN AMERICAN CULTURE SINCE 1492 (4)**
PR: Sophomore standing or Cl. Analysis of selected Latin American works of art in their cultural context, with emphasis on major art forms selected from the colonial through contemporary periods.
- HUM 4905 DIRECTED STUDY (1-4)**
PR: Cl. Specialized individual study determined by the student's needs and interests.
- HUM 4930 SELECTED TOPICS IN HUMANITIES (1-4)**
PR: Sophomore standing or Cl. This course will deal with a recurrent theme in the arts as, for example, love or death, or will focus on artistic centers such as Renaissance Florence or Paris in the 1920s. Topics will vary; course may be repeated for credit with change of content.
- HUM 4931 SEMINAR IN HUMANITIES -6A (4)**
PR: Humanities major or Cl; Senior standing. Discussion of interdisciplinary humanities. Includes essay.

- HUM 4938 MAJOR ISSUES IN THE HUMANITIES -XMW (3)**
The study of an important topical issue in the Humanities. Materials representing diverse views relating to that issue will be read, and works of art in different media that have relevance to the debate will be studied. Available to majors and non-majors. May be repeated up to 6 credit hours with change in content.
- HUM 4941 STUDY ON LOCATION (1-4)**
The art of a culture will be examined during travel in groups, led by an instructor, to important cities or sites. Monuments, museums, architecture, plays, and/or concerts will be studied. Reading assignments and lectures.
- PGY 3000 PHOTOGRAPHY IN AMERICAN CULTURE (3)**
A survey of photography as an art and a craft in America since the mid-nineteenth century. Attention devoted to technological innovations, leading personalities, major movements, and memorable icons. Open to majors and non-majors.

Interdisciplinary Social Sciences

- ISS 3010 INTRODUCTION TO THE SOCIAL SCIENCES (3)**
Views social institutions and issues from perspectives of changing paradigms. Integrates the range of social science fields into a global interdisciplinary vantage.
- ISS 3930 SELECTED TOPICS IN THE SOCIAL SCIENCES (1-4)**
Interdisciplinary studies with course content dependent on student demand and instructor's interest. May be repeated as topics vary.
- ISS 4162 THE CITY AND URBANIZATION (3)**
An interdisciplinary perspective will be used to analyze the emergence of the city, urban revolution and metropolis. Urban planning and governance will be examined in looking at how urban areas deal with social and physical problem.
- ISS 4164 URBAN SOCIAL ISSUES: AN INTERDISCIPLINARY APPROACH (3)**
This course is designed to examine current metropolitan issues from an interdisciplinary perspective. Topic selection will be within the broad framework of technological changes, economic conditions, political ideologies, and their impact on changing social patterns.
- ISS 4900 DIRECTED READINGS (1-3)**
PR: Cl. A supervised program of intensive reading of interdisciplinary materials in areas of specific interest. May be repeated.
- ISS 4910 DIRECTED RESEARCH (1-3)**
PR: Cl. A supervised program of interdisciplinary research in areas of specific interest. May be repeated.
- ISS 4935 SEMINAR IN THE SOCIAL SCIENCES -XMW (3)**
PR: Senior standing and ISS 3010. The seminar which caps the interdisciplinary major. Weds personal curiosity with the application of models to research on salient social issues.
- ISS 5934 SELECTED TOPICS (1-3)**
PR: Cl plus senior standing or graduate status. Interdisciplinary studies with course content dependent on student demand and instructor's interest. May be repeated as topics vary.
- STA 2122 SOCIAL SCIENCE STATISTICS -6A -QM (3)**
The course presents statistics with the view that numbers are a limited, but important aspect of understanding the world. Draws concepts and hypothesis from a wide range of disciplines. Covers topics through bivariate analysis. parametric and non-parametric.

International Studies

AREA STUDIES

Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic, anthropological, and sociological analysis in dealing with salient features and current problems. The same course may be repeated, but only when the countries of concentration differ. The regularly offered area study courses are:

- AFA 4150 AFRICA AND THE UNITED STATES -SS -HP -AF** (3)
ASN 3012 JAPAN TODAY (3)
ASN 3014 CHINA TODAY -AF (3)
ASN 3030 THE MIDDLE EAST -AF (3)
EUS 3000 EUROPE -SS (3)
EUS 3022 RUSSIA -SS -AF (3)
LAS 3002 LATIN AMERICA (3)
ASN 3105 THE PACIFIC CENTURY -SS -HP -AF (3)
 Explores the themes and trends which have affected the entire Asia-Pacific region. Textual material and videos trace the emergence of the modern nations of Northeast and Southeast Asia, focusing on the political and economic development of the past 150 years. (Open University - televised course.)
- INR 1015 WORLD PERSPECTIVE -SS -AF** (3)
 An interdisciplinary study of the international system, major world regions and problems.
- INR 2085 WORLD TENSIONS** (2)
 A study of the major causes and consequences of critical tensions which lead to serious social disturbances among and within the independent states of the world.
- INR 2930 SELECTED TOPICS** (1-4)
 International studies with course content dependent on student demand and instructor's interest. For non-majors only. May be repeated as topics vary.
- INR 3003 INTRODUCTION TO INTERNATIONAL STUDIES** (3)
 An interdisciplinary study which stresses methods and analysis. A major portion will focus on the roles which different disciplines play in interpreting the international scene.
- INR 3018 WORLD IDEOLOGIES -XMW** (3)
 A course which details and examines the ideologies of today's independent countries; analyzing them in their political, social, cultural and historical context.
- INR 3033 INTERNATIONAL POLITICAL CULTURES -XMW** (3)
 This course will explore the ways in which culture influences the nature of government, economic success or failure, and constructive and destructive modes of self and social identification.
- INR 3038 INTERNATIONAL WEALTH AND POWER -SS** (3)
 Introduction to the relationship between politics and economics, emphasizing the analysis of government policies in response to both domestic and international economic problems.
- INR 3081 INTERNATIONAL ISSUES AND ACTORS** (3)
 An examination of the most important issues in international affairs. The course analyzes the behavior of major foreign policy actors in the international arena, including nation states, non-governmental and international organizations. Departmental approval required.
- INR 3084 INTERNATIONAL TERRORISM -SS -AF** (3)
 A study of contemporary international terrorism and its causes, ranging from national liberation movements to networks of philosophical anarchists.
- INR 3141 INTERNATIONAL NUCLEAR POLICY** (3)
 A study of security issues, regional and global (such as proliferation, arms control, arms transfer) as they relate to contemporary international politics.
- INR 3336 INTELLIGENCE AND U.S. FOREIGN POLICY** (3)
 An examination of the role of intelligence and the intelligence community in U.S. foreign policy, with emphasis on the period since World War II.
- INR 3770 COMPARATIVE MILITARY SYSTEMS** (3)
 A comparative study of ways in which the military institutions of various nations are organized and interact with politics, societies and economies.
- INR 3955 OVERSEAS STUDY** (1-6)
 A program of individual or group research in a foreign country.
- INR 4089 CONFLICT IN THE WORLD -XMW** (3)
 PR: Junior/Senior standing. An interdisciplinary course examining theories of conflict, conflict resolution processes and strategies, theories and peacemaking strategies, and the concept of Early Warning Systems related to the outburst of conflict.

- INR 4250 THE POLITICAL ECONOMY OF THE SOUTHERN NATIONS -SS -AF** (3)
 A multidisciplinary study of the efforts of the nations in the South (Africa, Asia, Latin America and the Middle East) to improve their status through political and economic development.
- INR 4900 DIRECTED READINGS** (1-3)
 PR: Cl. A supervised program of intensive reading of interdisciplinary materials in areas of specific interest. May be repeated.
- INR 4910 DIRECTED RESEARCH** (1-3)
 PR: Cl. A supervised program of interdisciplinary research in areas of specific interest. May be repeated.
- INR 4931 SELECTED TOPICS** (1-4)
 Interdisciplinary studies with course content dependent on student demand and instructor's interest. May be repeated as topics vary.
- INR 4936 SENIOR SEMINAR -XMW** (3)
 PR: International Studies major and senior standing. A variable topics seminar integrating concepts and analyses relating to the academic background of INT majors. Should be taken in the student's final semester.
- INR 4943 INTERNSHIP IN INTERNATIONAL STUDIES** (3-6)
 PR: Senior status. The purpose of the course is to promote the student's understanding of global international issues within a local and practical context. (S/U only.) (For majors only.)
- LAS 3004 THE AMERICAS - LATIN AND CARIBBEAN** (3)
 This is a telecourse that is designed to introduce the complexities of Latin America and the Caribbean to students in the U.S. (Open University - televised course.)
- LAS 3116 LATIN AMERICA THROUGH FILM -AF** (3)
 This course will use film, video, selected readings, and lectures to teach the interested student about Latin America.
- WST 3275 WOMEN IN THE DEVELOPING WORLD** (3)
 A comparative study of woman's status in various developing nations with that in various industrialized states. (Also offered under Women's Studies Program.)

Languages and Linguistics

General Foreign Languages

- FOL 3100 GENERAL FOREIGN LANGUAGE I** (1-4)
 A general purpose course that may be used for transfer of credit, credit by examination, and similar matters; may also be used for formal courses in less commonly taught languages or in professional translation.
- FOL 4101 GENERAL FOREIGN LANGUAGE II** (1-3)
 A general purpose course that may be used for transfer of credit, credit by examination, and similar matters; may also be used for formal courses in less commonly taught languages or for workshops in professional interpreting.
- FOL 4905 DIRECTED STUDY** (1-3)
 Departmental approval required.
- FOL 5906 DIRECTED STUDY** (1-3)
 PR: FOL 4101 or equivalent.

Arabic

- ARA 1120 MODERN ARABIC I** (4)
 CR: ARA 1120L. An intensive study of basic skills: pronunciation, listening comprehension, speaking and some composition.
- ARA 1120L MODERN ARABIC I LABORATORY** (1)
 CR: ARA 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)
- ARA 1121 MODERN ARABIC II** (4)
 PR: ARA 1120 or its equivalent. CR: ARA 1120L. A continuation of ARA 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.
- ARA 1121L MODERN ARABIC II LABORATORY** (1)
 CR: ARA 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is re-

- quired, and, if dropped, then dropped simultaneously. (S/U only.)
- ARA 2200 MODERN ARABIC III** (4)
PR: ARA 1121 or the equivalent. For language students who intend to attain basic proficiency.
- ARA 2201 MODERN ARABIC IV** (4)
PR: ARA 2200 or the equivalent. Continuation of ARA 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.
- ARA 4905 DIRECTED STUDY** (1-5)
Permits study options in Arabic not available in regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours. (S/U only.)
- ARA 4930 SELECTED TOPICS** (1-5)
Course permits classes in Arabic not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours.
- Chinese**
- CHI 1120 MODERN CHINESE I** (4)
CR: CHI 1120L. Mandarin. An intensive study of basic skills: pronunciation, listening, comprehension, speaking, and some composition.
- CHI 1120L MODERN CHINESE I LABORATORY** (1)
CR: CHI 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)
- CHI 1121 MODERN CHINESE II** (4)
CR: CHI 1121L. Mandarin. PR: CHI 1120 or equivalent. A continuation of CHI 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.
- CHI 1121L MODERN CHINESE II LABORATORY** (1)
CR: CHI 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)
- CHI 2200 MODERN CHINESE III** (4)
PR: CHI 1121 or the equivalent. For language students who intend to attain basic proficiency.
- CHI 2201 MODERN CHINESE IV** (4)
PR: CHI 2200 or the equivalent. Continuation of CHI 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.
- CHI 4905 DIRECTED STUDY** (1-5)
Permits study options in Modern Chinese not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 hours. (S/U only.)
- CHI 4930 SELECTED TOPICS** (1-5)
Course permits classes in Modern Chinese not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours.
- French**
- FRE 1040 FRENCH FOR READING** (3)
Designed to provide a reading ability in French that will support research in other disciplines. Primarily for graduate students.
- FRE 1120 BEGINNING FRENCH I** (4)
CR: FRE 1120L. The first course in the study of elementary French. Emphasis on the development of basic skills in comprehension, speaking and reading.
- FRE 1120L BEGINNING FRENCH I LABORATORY** (1)
CR: FRE 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)
- FRE 1121 BEGINNING FRENCH II** (4)
PR: FRE 1120 or equivalent. CR: FRE 1121L. A continuation of FRE 1120.
- FRE 1121L BEGINNING FRENCH II LABORATORY** (1)
CR: FRE 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)
- FRE 1170 OVERSEAS STUDY-ELEM. FRENCH** (4)
Elementary-level French taught in France. In lieu of FRE 1120 and FRE 1121. Departmental approval required. May be repeated up to 8 credit hours.
- FRE 2200 FRENCH III** (3)
PR: FRE 1121 or equivalent. A review of the basic structure of French.
- FRE 2201 FRENCH IV** (3)
PR: FRE 2200 or equivalent. Readings in French on the intermediate level.
- FRE 2240 CONVERSATION II** (3)
PR: FRE 2241 or equivalent proficiency. Conversation practice with concentration on current idiomatic usage.
- FRE 2241 CONVERSATION I** (3)
PR: FRE 1121. For development of basic conversational skills.
- FRE 2270 OVERSEAS STUDY-INTR. FRENCH** (1-6)
PR: Two semesters of university-level French or equivalent proficiency. Departmental approval required. May be repeated up to 12 credit hours.
- FRE 3230 READING IN FRENCH LITERATURE AND CULTURE** (3)
PR: FRE 2201 or equivalent. This course is designed to build reading skills while giving students a broad background in French culture.
- FRE 3420 COMPOSITION I** (3)
A fundamental composition course for students who have completed FRE 2200 and/or 2201.
- FRE 3440 FRENCH FOR BUSINESS** (3)
PR: FRE 2200 or equivalent. An introduction to the French language in ordinary business transactions.
- FRE 3470 OVERSEAS STUDY** (1-6)
An intensive study-travel project in France. Departmental approval required. May be repeated up to 12 credit hours.
- FRE 3500 FRENCH CIVILIZATION** (3)
Readings and discussion on the cultural history of France.
- FRE 4421 COMPOSITION II** (3)
Continuation of French composition. This course is designed to follow FRE 3420.
- FRE 4471 ADVANCED OVERSEAS STUDY** (1-6)
PR: FRE 3470 or Cl. Intensive language study in France. Departmental approval required. May be repeated up to 12 credit hours.
- FRE 4700 FRENCH LINGUISTICS** (3)
PR: LIN 3010 and FRE 2201 or equivalent. An introduction to the phonological, morphological and syntactic structure of French.
- FRE 4905 DIRECTED STUDY** (1-3)
Departmental approval required.
- FRE 4930 SELECTED TOPICS** (1-3)
Study of an author, movement or theme.
- FRE 5425 ADVANCED WRITTEN EXPRESSION** (3)
PR: FRE 4421, or equivalent. Course is designed to give advanced training in free composition in French.
- FRE 5566 CONTEMPORARY FRANCE** (3)
PR: FRE 3500 or equivalent or graduate standing. An advanced course in French civilization and culture including a study of recent social, artistic and political trends as well as various current intellectual movements. Text and discussions in French.
- FRW 4100 INTRODUCTION TO FRENCH NOVEL** (3)
PR: FRE 3230, FRE 3420. A study of the history of the novel from its early appearance to present times with emphasis on the 19th and 20th centuries. Authors to be studied include Chretien de Troyes, Rabelais, Balzac, Flaubert, Proust, Camus, Sartre, Robbe-Grillet, and others. Specific content may vary from year to year.

- FRW 4101 INTRODUCTION TO FRENCH DRAMA AND POETRY** (3)
PR: FRE 3230. 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.
- FRW 5222 CLASSICAL PROSE AND POETRY** (3)
PR: FRW 4101. Emphasis on Malherbe, La Fontaine, Boileau, Descartes, and Pascal.
- FRW 5226 20TH CENTURY POETRY AND THEATRE** (3)
PR: FRW 4101. Valery, Claudel, Anouilh, Montherland, Sartre, Ionesco.
- FRW 5286 THE 20TH CENTURY NOVEL** (3)
PR: FRW 4100. Proust, Gide, Mauriac, Malraux, Camus, Robbe-Grillet.
- FRW5314 CLASSICAL DRAMA** (3)
PR: FRW 4101. Corneille, Moliere, and Racine.
- FRW 5415 LITERATURE OF THE MIDDLE AGES** (3)
PR: FRW 4100 or FRW 4101. Major genres, including epics, Arthurian romances, drama and lyric poetry. Reading in modern French translation.
- FRW 5425 LITERATURE OF THE RENAISSANCE** (3)
PR: FRW 4100 or FRW 4101. A study of Renaissance French humanism including Rabelais, Montaigne, and Pleiade poets.
- FRW 5445 18TH CENTURY LITERATURE** (3)
PR: FRW 4100. The classical tradition and the new currents of thought in the Age of Enlightenment.
- FRW 5528 PRE-ROMANTICISM** (3)
PR: FRW 4100 or FRW 4101. The precursors of romanticism. Emphasis on Rousseau, Bernardin de St. Pierre, Chénier, and Chateaubriand.
- FRW 5535 ROMANTICISM** (3)
PR: FRW 4101. A study of the romantic and early realistic movements with emphasis on Lamartine, Vigny, Musset, Hugo and Balzac.
- FRW 5556 REALISM AND NATURALISM** (3)
PR: FRW 4100 or FRW 4101. A detailed study of realism and naturalism with emphasis on Flaubert, Zola, les Goncourt, Maupassant, and Daudet.
- FRW 5934 SELECTED TOPICS** (1-3)
PR: Upper-level or graduate standing. Study of an author, movement or theme.
- German**
- GER 1120 BEGINNING GERMAN I** (4)
CR: GER 1120L. Development of basic skills in listening and reading comprehension, speaking and writing of German.
- GER 1120L BEGINNING GERMAN I LABORATORY** (1)
CR: GER 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)
- GER 1121 BEGINNING GERMAN II** (4)
PR: GER 1120 or equivalent. CR: GER 1121L. Continued development of basic skills in listening and reading comprehension, speaking and writing German.
- GER 1121L BEGINNING GERMAN II LABORATORY** (1)
CR: GER 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)
- GER 2200 GERMAN III** (3)
PR: GER 1121 or equivalent. A review of the basic structure of spoken and written German. May be taken concurrently with GER 2201.
- GER 2201 GERMAN IV** (3)
PR: GER 1121 or equivalent. Readings in German on the intermediate level. May be taken concurrently with GER 2200.
- GER 2240 CONVERSATION I** (3)
PR: GER 1121. For development of basic conversational skills.
- GER 3420 COMPOSITION I** (3)
A fundamental course for students who have completed GER 2200 or GER 2201.
- GER 3500 GERMAN CIVILIZATION** (3)
PR: GER 2200 or GER 2201. Readings in German on the cultural history of Germany.
- GER 4410 CONVERSATION II** (3)
Free conversation based on the current German idiom.
- GER 4421 COMPOSITION II** (3)
Practical training in modern German usage and differences of style.
- GER 5845 HISTORY OF THE GERMAN LANGUAGE** (3)
A diachronic approach to the study of the German language. The course traces the history and development of the language from Indo-European through Germanic, Old, Middle, and New High German.
- GET 3100 GERMAN LITERATURE IN ENGLISH TRANSLATION -XMW** (3)
Analysis and interpretation of major works of German literature, to be read in English, with regard to their thought content and relevance to our thoughts and actions.
- GEW 4100 SURVEY OF GERMAN LITERATURE I** (4)
Old High German and Middle High German literature in modern German translation; the literature of Humanism and Baroque, the classical period.
- GEW 4101 SURVEY OF GERMAN LITERATURE II** (4)
The romantic period, 19th and 20th centuries.
- GEW 4900 DIRECTED STUDY** (1-3)
Departmental approval required.
- GEW 4930 SELECTED TOPICS** (1-3)
Study of an author, movement or theme.
- GEW 5475 20TH CENTURY LITERATURE TO 1945** (3)
A study of major styles in German literature from 1900 to WW II with emphasis on Hauptmann, Schnitzler, Hofmannsthal, George Rilke, Kaiser, Heym, Trakl, Thomas Mann, Hesse, Kafka, Benn, Brecht.
- GEW 5489 20TH CENTURY LITERATURE: 1945 TO PRESENT** (3)
Study of major trends in German literature since WWII with emphasis on Borchert, Frisch, Durrenmatt, Boll, Uwe, Johnson, Grass, Aichinger, Eichenzensberger, Bachmann.
- GEW 5515 THE ENLIGHTENMENT** (3)
Selected dramas and critical writings by Lessing, Wieland, Kant.
- GEW 5545 ROMANTICISM** (3)
Jenaer circle and Heidelberg circle; the late romantic period, the writers between Classicism and Romanticism.
- GEW 5555 REALISM** (3)
Selected works by Grillparzer, Grabbe, Buchner, Hebbel, Heine, Immerman, Stifter, Keller, Meyer, Storm, Raabe, Hulshoff, and Morike.
- GEW 5605 GOETHE** (3)
Selected novels, poems: Werther, Wahlverwandtschaften, Wilhelm Meister, Westostlicher Divan.
- GEW 5606 FAUST** (3)
Sources, form, content, and literary significance of Urfaust and Faust.
- GEW 5615 SCHILLER** (3)
Selected dramas, philosophical and aesthetical writings.
- GEW 5934 SELECTED TOPICS** (1-3)
PR: Upper-level or graduate standing. Study of an author, movement or theme.
- Greek**
- GRK 1120 BEGINNING MODERN GREEK I** (4)
CR: GRK 1120L. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.
- GRK 1120L BEGINNING MODERN GREEK I LABORATORY** (1)
CR: GRK 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

- GRK 1121 MODERN GREEK II** (4)
PR: GRK 1120 or its equivalent; CR: GRK 1121L. A continuation of GRK 1120. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.
- GRK 1121L MODERN GREEK II LABORATORY** (1)
CR: GRK 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)
- GRK 2200 MODERN GREEK III** (4)
PR: GRK 1121 or the equivalent. For language students who intend to attain basic proficiency.
- GRK 2201 MODERN GREEK IV** (4)
PR: GRK 2200 or its equivalent. Continuation of GRK 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.
- GRK 4905 DIRECTED STUDY** (1-5)
Permits study options in Modern Greek not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours. (S/U only.)
- GRK 4930 SELECTED TOPICS** (1-5)
Course permits classes in Modern Greek not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours.
- Hebrew**
- HBR 1120 MODERN HEBREW I** (4)
CR: HBR 1120L. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.
- HBR 1120L MODERN HEBREW I LABORATORY** (1)
CR: HBR 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)
- HBR 1121 MODERN HEBREW II** (4)
PR: HBR 1120 or its equivalent; CR: HBR 1121L. A continuation of HBR 1120. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.
- HBR 1121L MODERN HEBREW II LABORATORY** (1)
CR: HBR 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)
- HBR 2200 MODERN HEBREW III** (4)
PR: HBR 1121 or the equivalent. For language students who intend to attain basic proficiency.
- HBR 2201 MODERN HEBREW IV** (4)
PR: HBR 2200 or its equivalent. Continuation of HBR 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.
- HBR 4905 DIRECTED STUDY** (1-5)
Permits study options in Modern Hebrew not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours. (S/U only.)
- HBR 4930 SELECTED TOPICS** (1-5)
Course permits classes in Modern Hebrew not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours.
- Italian**
- ITA 1120 BEGINNING ITALIAN I** (4)
CR: ITA 1120L. The first course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking, and reading.
- ITA 1120L BEGINNING ITALIAN LABORATORY** (1)
CR: ITA 1120. A laboratory designed to offer additional practice using various instructional technologies and media.
- ITA 1121 BEGINNING ITALIAN II** (4)
CR: ITA 1121L. The second course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking and reading.
- ITA 1121L BEGINNING ITALIAN II LABORATORY** (1)
CR: ITA 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)
- ITA 2200 INTERMEDIATE ITALIAN I** (3)
PR: ITA 1121 or equivalent. Readings in Italian on the elementary level. A review of the basic structure of spoken and written Italian.
- ITA 2240 ITALIAN CONVERSATION I** (4)
To develop fluency and correctness in spoken Italian. Intensive study for conversational skill based particularly upon the current Italian idiom. Syntax is intensified and the vocabulary and idiomatic expressions expanded.
- ITA 2241 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 3420 COMPOSITION** (3)
A fundamental composition course for students who have completed ITA 2200 and ITA 2201.
- ITA 3470 OVERSEAS STUDY** (1-6)
An intensive study-travel project in Italy. Prior approval and early registration required. May be repeated up to 12 credit hours.
- ITW 4100 SURVEY OF ITALIAN LITERATURE I** (4)
A survey of Italian literature from the earliest monuments through the classicism of the 18th century.
- ITW 4101 SURVEY OF ITALIAN LITERATURE II** (4)
A survey of Italian literature beginning with the Classicism of the 18th century and continuing to present.
- ITW 4905 DIRECTED STUDY** (1-3)
Departmental approval required.
- Japanese**
- JPN 1120 MODERN JAPANESE I** (4)
CR: JPN 1120L. An intensive study of basic skills: pronunciation, listening comprehension, speaking, and some composition.
- JPN 1120L MODERN JAPANESE I LABORATORY** (1)
CR: JPN 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)
- JPN 1121 MODERN JAPANESE II** (4)
PR: JPN 1120 or equivalent. CR: JPN 1121L. A continuation of JPN 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.
- JPN 1121L MODERN JAPANESE II LABORATORY** (1)
CR: JPN 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)
- JPN 2200 MODERN JAPANESE III** (3)
PR: JPN 1121 or equivalent. Continuing study to attain basic proficiency in Japanese.
- JPN 2201 MODERN JAPANESE IV** (3)
PR: JPN 2200 or equivalent. Continuation of JPN 2200. Practice of writing, speaking, and listening skills to attain basic proficiency.

JPN 4905 DIRECTED STUDY (1-5)

Permits study options in Japanese not available in regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours. (S/U only.)

JPN 4930 SELECTED TOPICS (1-5)

Course permits study options in Japanese not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours.

Polish**POL 1120 BEGINNING POLISH I (4)**

CR: POL 1120L. This course features all four major skills: listening, reading, speaking, and writing. Grammar exercises, dictation, readings and vocabulary-building are central in this first course. Knowledge of Russian can help.

POL 1120L BEGINNING POLISH I LABORATORY (1)

CR: POL 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

POL 1121 BEGINNING POLISH II (4)

PR: POL 1120 or equivalent. CR: POL 1121L. This course continues the four basic skills of POL 1120, with continued emphasis on structures, dialogues, readings, dictation, and vocabulary-building. Knowledge of Russian can help.

POL 1121L BEGINNING POLISH II LABORATORY (1)

CR: POL 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

POL 2200 POLISH III (4)

PR: POL 1121 or the equivalent. For language students who intend to attain basic proficiency.

POL 2201 POLISH IV (4)

PR: POL 2200 or the equivalent. Continuation of POL 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

POL 4905 DIRECTED STUDY (1-5)

Permits study options in Polish not available in regularly scheduled curriculum at departmental discretion. (S/U only.) Departmental approval required. May be repeated up to 10 credit hours.

POL 4930 SELECTED TOPICS (1-5)

Course permits classes in Polish not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours.

Portuguese**POR 1120 BEGINNING PORTUGUESE I (4)**

CR: POR 1120L. Development of basic skills in listening and reading comprehension, speaking and writing of Brazilian Portuguese.

POR 1120L BEGINNING PORTUGUESE I LABORATORY (1)

CR: POR 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

POR 1121 BEGINNING PORTUGUESE II (4)

PR: POR 1120 or equivalent. CR: POR 1121L. Continued development of basic skills in listening and reading comprehension, speaking and writing of Brazilian Portuguese.

POR 1121L BEGINNING PORTUGUESE II LABORATORY (1)

CR: POR 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

POR 2200 INTERMEDIATE PORTUGUESE I (3)

POR 2200 builds upon the four language skills (speaking,

comprehension, reading, and writing) introduced in POR 1120 and POR 1121.

POR 2201 INTERMEDIATE PORTUGUESE II (3)

For language students who intend to attain basic proficiency.

Russian**RUS 1120 BEGINNING RUSSIAN I (4)**

CR: RUS 1120L. The first course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading.

RUS 1120L BEGINNING RUSSIAN I LABORATORY (1)

CR: RUS 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

RUS 1121 BEGINNING RUSSIAN II (4)

PR: RUS 1120 or Cl. CR: RUS 1121L. The second course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading.

RUS 1121L BEGINNING RUSSIAN II LABORATORY (1)

CR: RUS 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

RUS 2200 RUSSIAN III (4)

PR: First year Russian or equivalent. Review and development of basic skills in conversation, composition, and reading.

RUS 2201 RUSSIAN IV (4)

PR: RUS 2200 or equivalent. Review and development of basic skills in conversation, composition, and reading.

RUS 2270 OVERSEAS STUDY (1-6)

Intensive study of the Russian language in Russia involving at least 20 hours per week of classroom instruction and cultural excursions conducted in Russian around Moscow and other parts of Russia. May be repeated up to 12 credit hours.

RUS 3240 CONVERSATION I (4)

PR: Second year Russian or equivalent. Development of basic conversational skills.

RUS 3470 OVERSEAS STUDY (1-6)

Intensive Russian at Moscow Linguistic University with excursions in Moscow and Russia. Must be enrolled in the USF Summer Study in Moscow program. Two years Russian required. Students from other institutions eligible.

RUS 3500 RUSSIAN CIVILIZATION -6A (3)

A survey of the cultural history of Russia.

RUS 4241 CONVERSATION II (4)

PR: Previous course in series or equivalent. Development of conversational skills.

RUS 4402 ADVANCED RUSSIAN CONVERSATION & COMPOSITION I (4)

PR: RUS 4241 or Cl. Third year Russian.

RUS 4403 ADVANCED RUSSIAN CONVERSATION & COMPOSITION II (4)

PR: RUS 4241 or Cl. Third year Russian.

RUS 4471 ADVANCED OVERSEAS STUDY (1-6)

Intensive Russian at Moscow Linguistic University with excursions in Moscow and Russia. Must be enrolled in the USF Summer Study in Moscow program. Three years Russian required. Students from other institutions eligible.

RUS 4700 RUSSIAN LINGUISTICS (3)

PR LIN 3010 or equivalent or Cl. An introduction to Russian Linguistics content: Phonology, Morphology, Word-formation, Syntax.

RUS 4900 SELECTED TOPICS (1-3)

Study of an author, movement or theme.

RUS 4905 DIRECTED STUDY (1-3)

Departmental approval required

RUT 3110 RUSSIAN CLASSICS IN ENGLISH -6A -XLW (3)

Masterpieces of 19th century Russian literature in English. The major works of Pushkin, Lermontov, Gogol, Turgenev,

Dostoevsky, Tolstoy, and Chekhov. Elective for all students in all departments.

RUT 3111 TWENTIETH-CENTURY RUSSIAN LITERATURE IN ENGLISH -6A -XLW (3)
Masterpieces of 20th century Soviet literature in English. The major works of Bely, Olesha, Babel, Zamyatin, Bulgakov, Pasternak, and Solzhenitzyn. Elective for all students in all departments.

Spanish

SPN 1120 BEGINNING SPANISH I (4)
CR: SPN 1120L. Development of basic skills in listening and reading comprehension, speaking and writing of Spanish. Not open to native or near-native speakers of Spanish.

SPN 1120L BEGINNING SPANISH I LABORATORY (1)
CR: SPN 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. Not open to native or near-native speakers of Spanish. (S/U only.)

SPN 1121 BEGINNING SPANISH II (4)
PR: SPN 1120 or equivalent. CR: SPN 1121L. Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish. Not open to native or near-native speakers of Spanish.

SPN 1121L BEGINNING SPANISH II LABORATORY (1)
CR: SPN 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. Not open to native or near-native speakers of Spanish. (S/U only.)

SPN 1130 ACCELERATED SPANISH FOR NEAR-NATIVE SPEAKERS AND OTHERS (1-6)
PR: Cl. Accelerated course for near-native speakers and others with some knowledge of Spanish capable of making rapid progress.

SPN 2200 SPANISH III (3)
PR: SPN 1121 or equivalent. Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish. May NOT be taken concurrently with SPN 2201. Not open to native or near-native speakers of Spanish.

SPN 2201 SPANISH IV (3)
PR: SPN 2200 or equivalent. Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish. May NOT be taken concurrently with SPN 2200. Not open to native or near-native speakers of Spanish.

SPN 2240 CONVERSATION I (3)
PR: SPN 1121. For development of basic conversational skills. Not open to native or near-native speakers of Spanish.

SPN 2241 CONVERSATION II (3)
PR: SPN 2240 or equivalent. To improve fluency in spoken Spanish. Not open to native or near-native speakers of Spanish.

SPN 2270 OVERSEAS STUDY (1-6)
PR: SPN 1121. An intensive study-travel program in a Spanish-speaking country. Prior departmental approval and early registration are required.

SPN 3300 COMPOSITION (3)
PR: SPN 2200-2201. A study of syntax, grammar and writing. Not open to native or near-native speakers of Spanish.

SPN 3340 ADVANCED SPANISH FOR NATIVE SPEAKERS I (3)
PR: Native or near native oral/aural proficiency. course for native and near-native speakers of Spanish due to home environment and/or residence in a Spanish speaking country, but without formal training in the language. Emphasis on grammatical problems affecting such speakers. Texts and discussions in Spanish. This is primarily a discussion type of course, open to all majors and minors. May not count as Spanish major elective.

SPN 3341 ADVANCED SPANISH FOR NATIVE SPEAKERS II (3)
PR: SPN 3340. Continuation of SPN 3340. Course for native and near-native speakers of Spanish due to home environment and/or residence in a Spanish speaking country, but without formal training in a language. Emphasis on those aspects of written expression such as style and syntax which are problematic for such speakers. Texts and discussions in Spanish. This is primarily a discussion course, open to all majors and minors. May not count as Spanish major elective.

SPN 3440 SPANISH FOR BUSINESS (3)
PR: SPN 2201 or equivalent. An introduction to the Spanish language as used in undertaking ordinary business transactions.

SPN 3441 ADVANCED SPANISH FOR BUSINESS WRITING (3)
PR: SPN 3440 or equivalent. Continuation of SPN 3440. Advanced business communication in Spanish through discussion, reading, and writing of representative texts from Spain, Mexico, and the Spanish speaking Caribbean. Emphasis on business forms and composition of proposals, reports, records, and the language of advertisement. Texts and discussions in Spanish. This is a discussion course, open to Spanish and Business majors and minors.

SPN 3500 SPANISH CIVILIZATION (3)
PR: SPN 1121. The culture and civilization of Spain.

SPN 3520 SPANISH AMERICAN CIVILIZATION (3)
Readings and discussions on the culture and civilization of Spanish America. For majors and non-majors.

SPN 4301 EXPOSITORY WRITING (3)
PR: SPN 3300. Practical training in contemporary Spanish structure, usage and stylistic devices. Not open to native or near-native speakers of Spanish.

SPN 4410 ADVANCED CONVERSATION (3)
PR: SPN 3241 or equivalent. Intensive practice in the formulation and expression of ideas in standard Spanish. Not open to native or near-native speakers of Spanish.

SPN 4470 ADVANCED OVERSEAS STUDY (1-6)
PR: SPN 3270. Intensive language study in Spain. Departmental approval required.

SPN 4700 SPANISH LINGUISTICS (3)
PR: LIN 3010 or equivalent (may be taken concurrently with Cl) and SPN 2201 or equivalent. An introduction to Hispanic linguistics: Phonology, morphology, syntax, and lexicography.

SPN 5525 MODERN SPANISH AMERICAN CIVILIZATION (3)
PR: SPN 3520 or equivalent or graduate standing. Advanced readings and discussions dealing with Spanish American civilization and culture, including a study of social, artistic and political trends, from Colonial Times to the present. Texts and discussions in Spanish.

SPN 5567 MODERN SPANISH CIVILIZATION (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.

SPT 2524 WOMEN WRITERS OF LATIN AMERICA -AF (3)
Literature of Latin-American women (in translation). Topics related to race and ethnicity, values and ethics, social, economic, and political issues. Readings will include oral histories, interviews, diaries and memoirs, poetry, short stories, and novels. (May also be taken in Women's Studies.)

SPW 3030 INTRODUCTION TO HISPANIC LITERATURE (3)
PR: SPN 2201 or equivalent. Prose fiction, drama, poetry, and essay; techniques of literary analysis.

SPW 4100 SURVEY OF SPANISH LITERATURE I (3)
PR: SPW 3030 or equivalent. A study of Spanish literature from its origins through the 17th century.

SPW 4101 SURVEY OF SPANISH LITERATURE II (3)
PR: SPW 3030 or equivalent. A study of the later periods of Spanish literature.

SPW 4131 SURVEY OF SPANISH-AMERICAN LITERATURE (3)
PR: SPW 3030 or equivalent. An introduction to the study of Spanish-American literature from the Modernism period

- to the present. Emphasis on modern writers since Dario.
SPW 4900 DIRECTED STUDY (1-3)
 Departmental approval required.
- SPW 4930 SELECTED TOPICS** (1-3)
 Study of an author, movement or theme.
- SPW 5135 COLONIAL SPANISH AMERICAN LITERATURE** (3)
 PR: SPW 4131. An introduction to Colonial Spanish American Literature from the Discovery through the Romantic Period.
- SPW 5355 SPANISH AMERICAN DRAMA & POETRY** (3)
 PR: SPW 4131. Major writers of all genres. Emphasis on modern writers.
- SPW 5387 SPANISH AMERICAN PROSE** (3)
 PR: SPW 4131. Emphasis on the gaucho theme and contemporary prose fiction.
- SPW 5388 GOLDEN AGE POETRY AND DRAMA** (3)
 PR: SPW 4100. Lope de Vega, Alarcon, Tirso, Calderon, and others.
- SPW 5405 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 Mio Cid, Libro de Buen Amor and La Celestina.
- SPW 5465 19TH CENTURY LITERATURE** (3)
 PR: SPW 4101. An appreciation of the romantic and realist periods in Spanish literature.
- SPW 5605 CERVANTES** (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 VANGUARD LITERATURE OF 1918 AND 1936** (3)
 PR: SPW 4101. A study of Vanguard literature in Spain between 1918 and 1936.
- SPW 5934 SELECTED TOPICS** (3)
 PR: Upper-level or graduate standing. Study of an author, movement or theme.

Yoruba

- YOR 1120 YORUBA I** (4)
 This course is designed to familiarize students with modern orthography and to develop skills in reading, writing, speaking, and understanding spoken Yoruba. Pronunciation in Yoruba and achieving basic communicative competence in the language are among the skills to be attained in the course.
- YOR 1121 YORUBA II** (4)
 A continuation of YOR 1120, this course delves further into the structure of Yoruba and its grammatical functions. Also covered is practice in reading elementary texts with emphasis on grammar, vocabulary, and an appreciation for style. Also included is composition and drills in oral work. May be repeated up to 8 credit hours.

LINGUISTICS

- ENS 1483 ENGLISH 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.
- ENS 1484 ENGLISH FOR FOREIGN STUDENTS II** (3)
 PR: ENS 1483 or Cl. A continuation of ENS 1483. Emphasis on reading and composition.
- 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 -6A** (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 or Cl. Introduction to the basic techniques of formalizing linguistic descriptions through elementary phonological, morphological, and syntactic data solution-problems drawn from a variety of languages. Both taxonomic

and generative analysis and descriptions will be developed and compared.

- LIN 4575 LANGUAGE TYPES OF THE WORLD** (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. An analysis of the interrelation of a language and the structure of the society using it. The linguistic behavior patterns characteristic of particular social, political, economic, educational, and racial groups. Problems in communication between strata.
- LIN 4710 LANGUAGE AND COMMUNICATION: ACQUISITION AND DEVELOPMENT** (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: Cl. Readings in special topics. Departmental approval required.
- LIN 4930 SELECTED TOPICS** (1-3)
 PR: Cl. Course content depends upon students' needs and instructor's interest and may range over the entire field of linguistics.
- LIN 5700 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.
- TSL 4374 METHODOLOGY OF TEACHING ENGLISH OVERSEAS** (3)
 PR: Upper-level standing. Designed to introduce and prepare the enrollee in the various facets of teaching English as a foreign language in the overseas setting. It will include aspects of teaching verbal skills and comprehension as well as writing. It involves a practicum at the English Language Institute on campus.
- TSL 5321 ESOL STRATEGIES FOR CONTENT AREA TEACHERS** (3)
 This course is designed for public school teachers working with limited English proficient (foreign) students in the classroom. The new ESOL requirements specify that this course be offered to content area teachers and to ESOL teachers. May not be repeated for additional credit hours.
- TSL 5371 METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE** (3)
 Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.
- TSL 5372 ESOL CURRICULUM AND INSTRUCTION** (3)
 Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.
- TSL 5471 LANGUAGE TESTING** (3)
 PR: TSL 5371. This is a lecture course on the methodology of testing English as a second/foreign language. May not be repeated for additional credit hours.
- TSL 5525 CROSS-CULTURAL ISSUES IN ESL** (3)
 PR: LIN 5700. This is a lecture course on cultural issues in teaching English as a second/foreign language. May not be repeated for additional credit hours.

Liberal Studies

- 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 Cl. 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 (1-4)

Course content determined by students' and instructor's interests and needs.

Library and Information Science

LIS 2001 INFORMATION RESOURCES AND LIBRARY RESEARCH (3)

An introduction to the resources of the University of South Florida Library. Emphasis will be placed on library materials germane to the course work of the undergraduate.

LIS 2002 INTRODUCTION TO THE INTERNET (3)

Covers the history, structure, and use of the Internet, with an emphasis on using the Internet to answer educational, research, and other information-based needs.

LIS 2937 SELECTED TOPICS IN LIBRARY/INFORMATION SCIENCE (1-3)

Covers a variety of topics in the field of library/information science such as emerging technologies, administration and service, and current professional issues. May be repeated up to 9 credit hours total when topic varies.

LIS 5315 INSTRUCTIONAL GRAPHICS (3)

PR: Cl. Theoretical aspects, planning and production of instructional graphic material. The Theory of graphic communications. Interpreting needs for instructional materials appropriate for given behavioral objectives.

LIS 5333 TV IN SCHOOL AND LIBRARIES (3)

Small format video tape recordings and the utilization of open and closed broadcasts in schools and libraries.

LIS 5404 FOUNDATIONS OF LIBRARY AND INFORMATION SCIENCE (3)

Introduction to the study of library and information science, history; organization; specialized literature; outstanding leaders; current trends, issues, and problems; the place of the information agency in society with its contributions to that society.

LIS 5937 SELECTED TOPICS IN LIBRARY STUDIES (1-4)

PR: Cl. Covers a variety of topics in such areas as collection development, reference services, technical services, and administration.

Marine Science

OCE 2001 INTRODUCTION TO OCEANOGRAPHY -NS (3)

Overview of biological, chemical, geological, and physical oceanography. (Also listed under Geology.)

OCE 4930 SELECTED TOPICS IN MARINE SCIENCE (1-4)

Selected topics in the marine sciences including marine biology, marine chemistry, marine geology, physical oceanography, and interdisciplinary topics relating to marine environments.

Mass Communications

ADV 3000 INTRODUCTION TO ADVERTISING (3)

PR: MMC 2100 and MMC 3602. A study of the structures, functions, and persuasive language of advertising in mass media with attention to social, political, economic, and legal aspects.

ADV 3002 ADVERTISING DESIGN (3)

PR: ADV 3000 for advertising sequence majors; VIC 3000 for other Mass Comm majors. Application of graphic design

principles to various areas of advertising. Combining visual and verbal elements effectively.

ADV 3101 ADVERTISING COPYWRITING (3)

PR: ADV 3000 and ECO 1000. Study of laboratory experience in preparation of advertising copy for newspapers, magazines, radio, television, direct mail, outdoor displays, specialty items, and interactive electronic media.

ADV 3103 RADIO-TELEVISION ADVERTISING (3)

PR: ADV 3000. An intensive study and analysis of radio and television for advertising purposes, including copywriting, script and storyboard preparation, time buying and selling techniques, audience research methods, and basic production concepts.

ADV 3300 ADVERTISING MEDIA STRATEGY (3)

PR: ACG 3074, ADV 3000, and ECO 1000. 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 4800 ADVERTISING CAMPAIGNS (3)

PR: ADV 3101, ADV 3300, MMC 4420, ECO 1000, and MAR 3023. Advanced advertising course requiring planning and production of complete general advertising campaign, including research, production methods, budgeting, and media schedules.

ADV 4940 ADVERTISING PRACTICUM (1)

PR: Cl. For advertising sequence majors. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study. (S/U only.)

FIL 2200 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.

FIL 3004 THE FILM AS MASS COMMUNICATION I: SYNTAX (3)

PR: MMC 2100 and MMC 3602. The language, conventions, elements, and patterns of the film medium as related to current models of effective mass communication and new theories of nonverbal communication.

FIL 4404 SOCIAL HISTORY OF THE FILM, 1945 TO THE PRESENT (3)

PR: MMC 2100 and MMC 3602. The development of the film from 1945 to the present.

JOU 2100 BEGINNING REPORTING (3)

PR: MMC 2100 and MMC 3602. Basic instruction in news judgment, sources of news, newsgathering, and news writing techniques. Typing ability is required.

JOU 3101 ADVANCED REPORTING (3)

PR: POS 2041, JOU 2100, or RTV 3304 (RTV majors only), JOU 4200 (may be taken concurrently), and PHI 1103. Getting information and writing the more complex and specialized story, techniques of investigative and analytical reporting, including ethical and legal considerations.

JOU 3300 MAGAZINE ARTICLE AND FEATURE WRITING (3)

PR: CRW 2100 and JOU 2100. Planning, researching, writing, and marketing articles for general and special interest magazines and newspaper magazine supplements; experiences in developing article idea; inductive analysis of contemporary magazine articles.

JOU 3306 CRITICAL WRITING: EDITORIALS, REVIEWS, COLUMNS (3)

PR: JOU 3101, JOU 4200. Interpretive and opinion writing for the mass media. Analysis and discussion of current events as a basis for critical thinking and editorial writing; evaluation of editorial pages of leading newspapers. Study of journalistic techniques involved in personal columns.

JOU 3940 REPORTING PRACTICUM (1)

PR: JOU 3101 and Cl. For news-editorial sequence majors. Practical experience outside the classroom where the

- student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study. (S/U only.)
- JOU 4104 PUBLIC AFFAIRS REPORTING** (3)
PR: JOU 3101 or RTV 3304 (RTV majors only), POS 2041 and POS 3142 or POS 2112. Covering city council meetings, courthouse, city hall, courts, society, and other special assignments. Emphasis is on coverage of major governmental units of all levels of government, including examination and interpretation of public documents and records.
- JOU 4200 NEWS EDITING I** (3)
PR: ECO 1000, JOU 2100, and SYG 3010. Evaluating news and its display; editing and rewriting copy for the mass media, with emphasis on the daily newspaper; news judgment, headlines, makeup; ethical problems.
- JOU 4206 NEWSPAPER DESIGN AND TYPOGRAPHY** (3)
PR: JOU 4200 or CI. Theoretical and practical applications of newspaper design; problems in newspaper layout; the research of newspaper typography and design and its application; redesign of contemporary newspapers.
- JOU 4941 EDITING PRACTICUM** (1)
PR: Senior standing, JOU 4200 and CI. For news-editorial sequence majors. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study. (S/U only.)
- JOU 4944 MAGAZINE PRACTICUM** (1)
PR: Senior standing and CI. For magazine sequence majors. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study. (S/U only.)
- JOU 5116 EXPLORATIONS IN NEWSWRITING** (3)
PR: CC. Students work to develop writing styles, reporting on and creating stories about significant issues, events, and ideas. The course explores the notion that narrative-style journalism can be accurate, thorough, fair, and compelling, effectively bringing readers into stories and giving them a bigger stake in the news. The focus is on going beyond traditional practices of reporting and writing news stories.
- MMC 2100 WRITING FOR THE MASS MEDIA** (3)
PR: Sophomore standing; 2.7 overall grade point average; grade of "C" in ENC 1101, ENC 1102, and passing score on English Diagnostic Test. An introduction to the basic skills of writing for the mass media with practice in library research, persuasive writing, and informational writing.
- MMC 3602 MASS COMMUNICATIONS AND SOCIETY** (3)
PR: Sophomore standing. A survey of the history, theory, processes, and philosophy of mass communications and the mass media in the United States, and their relationship to the other major institutions of American society.
- MMC 4123 MEDIA SCRIPT WRITING** (3)
PR: MMC 2100 and MMC 3602. An introduction to the techniques of writing scripts for photographic and multimedia presentation, electronic media, and industrial and documentary film.
- MMC 4200 HISTORY AND PRINCIPLES OF COMMUNICATIONS LAW** (3)
PR: MMC 2100 and MMC 3602. Historical and constitutional backgrounds of freedom and control of expression, statutory enactments, major court decisions and administrative rulings which affect print media, telecommunications, advertising, and public relations.
- MMC 4203 COMMUNICATION ETHICS** (3)
PR: MMC 2100 and MMC 3602 or CI. A study of the fundamental principles and philosophies of ethics and their application to the decision-making process in the various professions of mass communications.
- MMC 4420 RESEARCH METHODS IN MASS COMMUNICATIONS** (3)
PR: MMC 2100 and MMC 3602. An introduction to the theory and practice of quantitative and historical research methods as applicable to the study of media and mass communications. Emphasis on survey research, evaluation of data, and report writing.
- MMC 4900 DIRECTED READING IN MASS COMMUNICATIONS** (1-3)
PR: Junior standing and CI. Reading and directed study in special topics.
- MMC 4910 INDIVIDUAL RESEARCH IN MASS COMMUNICATIONS** (1-3)
PR: Junior standing 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: MMC 2100, MMC 3602 and CI. Courses designed to meet current or specific topics of interest to instructors and students.
- MMC 4945 MEDIA INTERNSHIP-SEMINAR** (3)
PR: CI and 15 hours in Mass Comm. courses and completion of an 8-12 week paid media internship with newspaper, broadcast station, or other media-related agency approved by the School. Reports on experiences for discussion and evaluation. (S/U only.)
- PGY 2110C COLOR PHOTOGRAPHY** (3)
PR: PGY 3620. Laboratory required. 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.
- PGY 3610 PHOTOJOURNALISM I** (3)
PR: MMC 2100 and MMC 3602. Laboratory required. Camera operation, darkroom techniques, picture composition; editing, ethics, history, and laws in connection with photojournalism.
- PGY 3620 PHOTOJOURNALISM II** (3)
PR: PGY 3610. Laboratory required. Advanced process and practice of photography for publication. Content includes advanced camera and laboratory techniques, publication requirements, and theory of photochemical color separation used in magazine and newspaper. Emphasis is placed on student production.
- PUR 3000 PRINCIPLES OF PUBLIC RELATIONS** (3)
PR: MMC 2100 and MMC 3602. The underlying theory and professional practice of public relations within corporate and institutional structures and its vital role in society; ethical standards of practice, and relationships of the practice to the public media; public relations problem-solving process.
- PUR 4001 ADVANCED PUBLIC RELATIONS** (3)
PR: PUR 4401, PUR 4100, and MMC 4420. As the final course in the public relations sequence, it involves intensive study of counseling and problem-solving techniques used in professional practice. Analysis of case studies and preparation of complete public relations program. Extensive reading in the literature of contemporary practice.
- PUR 4100 WRITING FOR PUBLIC RELATIONS** (3)
PR: JOU 2100 and PUR 3000. Techniques for creating effective written public relations communications to achieve organizational goals, including news releases, proposal letters, broadcast scripts, and memos. Exercises based on case study scenarios.
- PUR 4401 PUBLIC RELATIONS: ISSUES, PRACTICES AND PROBLEMS** (3)
PR: PUR 3000. The theory of public relations practice and its application in the real world. The role of the public relations practitioner in business, government, and social institutions, and the nature of specialized areas of the practice. Identification of public issues, analysis of potential impact on organizations and development of strategies to deal with them successfully and responsibly. Communication techniques and trends.

- PUR 4700 PUBLIC RELATIONS PRACTICUM** (1)
PR: Senior standing and CI. For public relations sequence majors. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study. (S/U only.)
- RTV 2100 WRITING FOR RADIO AND TV** (3)
PR: ENC 3310 or CRW 2100 and RTV 3001. The art and practice of script writing for radio and television.
- RTV 3001 INTRODUCTION TO TELECOMMUNICATIONS** (3)
PR: MMC 2100 and MMC 3602. A survey of the organization, structure, and function of the broadcasting industry.
- RTV 3210 RADIO PRODUCTION AND DIRECTION** (3)
PR: RTV 3001. Radio production and direction; laboratory and broadcast experiences.
- RTV 3225 VIDEO WORKSHOP** (1)
PR: MMC 2100 and MMC 3602. An introduction to the techniques and applications of field television production and electronic editing.
- RTV 3304 BROADCAST NEWS** (4)
PR: MMC 3602 and MMC 2100. Methods in gathering, writing, and editing newscasts for radio and television.
- RTV 3941 RADIO PRACTICUM** (1)
PR: RTV 3001 and CI. For telecommunications sequence majors. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study. (S/U only.)
- RTV 4220 TV PRODUCTION AND DIRECTION** (3)
PR: RTV 3001 and RTV 3304. A basic course in the techniques of producing and directing TV programs.
- RTV 4301 TV NEWS** (3)
PR: RTV 3001 and RTV 3304. Techniques in writing and video taping for television news.
- RTV 4320 ELECTRONIC FIELD PRODUCTION** (3)
PR: RTV 3001 and RTV 3304. Advanced producing, scripting, lighting, camera, and editing for video production on location. Introduction to computer editing and graphics.
- RTV 4500 TELECOMMUNICATIONS PROGRAMMING** (3)
PR: RTV 3001. Program concepts, resources, costs, selection and scheduling. Analysis of programming in terms of structures, appeals and strengths.
- RTV 4700 TELECOMMUNICATIONS LAW AND POLICY** (3)
PR: for broadcast news option: RTV 3001, RTV 3304, MMC 4200, POS 3142 or POS 2112; for programming option: RTV 3001, RTV 4500, RTV 2100 or RTV 3304, and Senior standing. A study of the electronic media 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. For telecommunications sequence majors. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study. (S/U only.)
- VIC 3000 INTRODUCTION TO VISUAL COMMUNICATIONS** (3)
PR: MMC 2100 and MMC 3602. The survey of visual communication theory, techniques, and their contemporary application and social influences as applied to the visual media with emphasis on still photography, motion pictures, video tape, and graphics.
- VIC 3943 VISUAL COMMUNICATION PRACTICUM** (1)
PR: Senior standing and CI. For visual communications sequence majors. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study. (S/U only.)

Mathematics

- CGS 3422 PROBLEM SOLVING USING PASCAL OR C -6A** (3)
CR: MAS 3105. Introduction to Pascal or C with special emphasis on its applications to mathematics.
- COP 4313 SYMBOLIC COMPUTATIONS IN MATHEMATICS -6A** (3)
PR: MAP 2302 and MAS 3105. Students will write programs to solve problems in various areas of mathematics including calculus and linear algebra with symbolic programming systems such as Maple, Mathematica, or Macsyma.
- MAA 4211 INTERMEDIATE ANALYSIS I -6A** (4)
PR: MAS 4301. Sequences, series, metric spaces, continuity, differentiation.
- MAA 4212 INTERMEDIATE ANALYSIS II -6A** (3)
PR: MAA 4211. Riemann-Stieltjes integration, uniform convergence, and related topics.
- MAA 4402 COMPLEX VARIABLES -6A** (3)
PR: MAS 4301 or CI. Complex numbers, Cauchy-Riemann equations, analytic and conformal functions, power series, Cauchy Integral Theorem, Cauchy Integral Formula, residue theory. (No credit for students with credit in MAA 5405.)
- MAA 5306 REAL ANALYSIS I** (3)
PR: MAA 4211. Sets and functions, measure theory, measurable functions, Lebesgue integrations and limit theorems.
- MAA 5307 REAL ANALYSIS II** (3)
PR: MAA 5306. Continuation of MAA 5306, including functions of bounded variation, product measures and Fubini's theorem, differentiation, L^p spaces.
- MAA 5405 APPLIED COMPLEX ANALYSIS** (3)
PR: CI. Complex numbers, analytic and harmonic functions. Series. Contour integrals, residue theory. Conformal mappings. (A survey course emphasizing techniques and applications.)
- MAC 2102 COLLEGE ALGEBRA -6A -QM** (3)
PR: Two years of high school algebra. Concepts of the real number system, functions, graphs, and complex numbers. Analytic skills for solving linear, quadratic, polynomial, exponential, and logarithmic equations. Mathematical modeling of real life applications.
- MAC 2114 COLLEGE TRIGONOMETRY -6A** (2)
PR: Two years of high school algebra. Angles, Trigonometric functions, properties and graphs of trigonometric functions, right triangles, laws of sines and cosines, polar coordinates. (No credit for students with credit in MAC 2132.)
- MAC 2132 COLLEGE ALGEBRA AND TRIGONOMETRY -6A -QM** (4)
PR: Two years of high school algebra. Real numbers and their properties, algebraic expression, equations and inequalities, functions, polynomials, exponential and logarithmic functions. Angles, trigonometric functions, properties and graphs of trigonometric functions, right triangles, laws of sines and cosines, polar coordinates. (No credit for MAC 2132 for students with credit in MAC 2233 or MAC 2102.)
- MAC 2230 BUSINESS CALCULUS -6A -QM** (4)
PR: Three years of high school mathematics including two years of algebra or MAC 2102. Linear equations and functions, mathematics of finance, differentiation and integration of algebraic functions with applications to business, finance, and economics. (No credit for mathematics majors or students with credit in MAC 2233, MAC 2281, or MAC 2311.)
- MAC 2233 ELEMENTARY CALCULUS I -6A -QM** (4)
PR: Three years of high school mathematics including two years of algebra or MAC 2102. Differentiation and integration of algebraic functions with applications, exponential and logarithmic functions. MAC 2233-MAC 2234 are primarily for students from biological and social sciences. (No credit for mathematics majors or students with credit in MAC 2230, MAC 2281, or MAC 2311.)
- MAC 2234 ELEMENTARY CALCULUS II -6A -QM** (3)
PR: MAC 2230 or MAC 2233. Techniques of integration,

- differential equations, functions of several variables, series and Taylor polynomials. (No credit for mathematics majors or students with credit in MAC 2282 or MAC 2312.)
- MAC 2281 ENGINEERING CALCULUS I -6A -QM** (3)
PR: Two years of high school algebra, and a semester of trigonometry or MAC 2132. A year of high school geometry is recommended. Limits, differentiation, differentials, extrema, indefinite integral. (No credit for students with credit in MAC 2230, MAC 2233, or MAC 2311.)
- MAC 2282 ENGINEERING CALCULUS II -6A -QM** (3)
PR: MAC 2281 or CC. Techniques of integration, trigonometric, log, and exponential functions, series, polar coordinates, applications. (No credit for students with credit in MAC 2234 or MAC 2312.)
- MAC 2283 ENGINEERING CALCULUS III -6A** (3)
PR: MAC 2282 or CC. Functions of several variables, partial derivatives, vector algebra, applications. (No credit for students with credit in MAC 2313.)
- MAC 2311 CALCULUS I -6A -QM** (4)
PR: Two years of high school algebra, and a semester of trigonometry or MAC 2132. A year of high school geometry is recommended. Limits, derivatives, applications. (No credit for students with credit in MAC 2230, MAC 2233, or MAC 2281.)
- MAC 2312 CALCULUS II -6A -QM** (4)
PR: MAC 2311 with a grade of "C" or better or CC. Antiderivatives, the definite integral, applications, series, log, exponential and trig functions. (No credit for students with credit in MAC 2234 or MAC 2282.)
- MAC 2313 CALCULUS III -6A** (4)
PR: MAC 2312 with a grade of "C" or better or CC. Integration, polar coordinates, conic sections, vectors, indeterminate forms and improper integrals. (No credit for students with credit in MAC 2283.)
- MAD 3100 DISCRETE MATHEMATICS -6A** (3)
PR: MAC 2281 or MAC 2311. An introduction to some of the aspects of discrete mathematics that are fundamental to digital computing. Topics include sets, numbers, algorithms, Boolean algebra, computer arithmetic, elementary combinatorics and an introduction to graph theory.
- MAD 4401 NUMERICAL ANALYSIS -6A** (4)
PR: MAS 3105; ability to program a digital computer. Interpolation and quadrature, finite differences, numerical solution of algebraic and transcendental equations, numerical solution of differential equations, computer techniques.
- MAD 4504 THEORY OF COMPUTATION -6A** (3)
PR: MGF 3301 or MAD 3100. Mathematical aspects of alphabets and languages. Chomsky's hierarchy. Grammars. Regular languages, grammars and finite states machines. Context-free languages and grammars. Turing machines and languages. Decidability. Inductive definition of functions and basic computable functions. Introduction to computational complexity.
- MAD 5101 LISP: PROGRAMMING WITH ALGEBRAIC APPLICATIONS** (3)
PR: MHF 5306 or MAD 6510 or MAS 5311 or CI. Programming in LISP, functional languages, foundations of Lambda Calculus and algebraic applications (theorem proving and game playing).
- MAD 5305 INTRODUCTION TO GRAPH THEORY** (3)
PR: CI. Brief introduction to classical graph theory (4-color theorem, etc.), directed graphs, connected digraphs, condensations, incidence matrices, Polya's Theorem, networks.
- MAE 5875 ABSTRACT ALGEBRA FOR TEACHERS** (3)
PR: MAS 4301 and bachelor's degree or CC. Groups, fields, vector spaces as they relate to high school algebra and geometry. (No credit for mathematics majors.)
- MAE 5877 MATHEMATICAL ANALYSIS FOR TEACHERS** (3)
PR: MAC 2313 and bachelor's degree or CC. Advanced consideration of limits continuity, derivatives, differentials. (No credit for Mathematics majors.)
- MAP 2302 DIFFERENTIAL EQUATIONS -6A** (3)
PR: MAC 2283 or MAC 2313. First order linear and nonlinear differential equations, higher order linear equations, applications.
- MAP 5316 ORDINARY DIFFERENTIAL EQUATIONS I** (3)
PR: MAP 2302 or CI. Existence and uniqueness theory, properties of solutions, linear systems, stability theory, Sturm-Liouville theory.
- MAP 5317 ORDINARY DIFFERENTIAL EQUATIONS II** (3)
PR: MAP 5316 and MAA 5307 or CI. Topics selected from fixed point theory, comparison theory, oscillation theory, Poincare-Bendixson Theory, Lyapunov functions, eigenfunction expansions.
- MAP 5345 APPLIED PARTIAL DIFFERENTIAL EQUATIONS** (3)
PR: MAP 5407 or CI. Separation of variables, the heat equation, wave equation, Laplace's equation, classification, Green's functions, with emphasis on applications.
- MAP 5407 METHODS OF APPLIED MATHEMATICS** (3)
PR: MAP 2302 or CI. Sturm-Liouville theory, Fourier series, Green's functions, matrix methods for linear systems of ordinary differential equations, and topics from calculus of variations, control theory, numerical solutions of differential equations.
- MAS 3105 LINEAR ALGEBRA -6A** (3)
PR: MGF 3301. CR: MAC 2283 or 2313. Linear systems, matrix algebra, vector spaces, linear independence, inner product spaces, Gram-Schmidt algorithm, linear transformations and matrix representations, determinants, eigenvalues, diagonalization, quadratic forms.
- MAS 4124 NUMERICAL LINEAR ALGEBRA -6A** (3)
PR: MAS 3105. This course will consider efficient and stable numerical methods for dealing with matrix computations such as the solution of systems, calculation eigenvalues and vectors, least squares, and so on.
- MAS 4156 VECTOR CALCULUS -6A** (3)
PR: MAS 3105, and MAC 2313 or MAC 2283. Implicit and inverse function theorems, parametrized surfaces, submanifolds of Euclidean space, exterior calculus of differential forms, differentiation of vector fields, line and surface integrals, Stokes' Theorem, elementary continuous groups.
- MAS 4214 ELEMENTARY NUMBER THEORY -6A** (3)
PR: MAC 2312. Divisibility, prime numbers, Fundamental Theorem of Arithmetic, Diophantine equations, the algebra of congruences, number functions and other selected topics.
- MAS 4301 ELEMENTARY ABSTRACT ALGEBRA -6A** (3)
PR: MAS 3105. An introduction to the basic algebraic structures: groups, rings, integral domains, and fields; homomorphisms and isomorphisms.
- MAS 5107 ADVANCED LINEAR ALGEBRA** (3)
PR: MAS 4301 or CI. CR: MAS 5311. The study of finite dimensional vector spaces over arbitrary fields. Topics covered include dual spaces, canonical forms for linear transformations, inner product spaces, orthogonal, unitary and self-adjoint operators and quadratic forms.
- MAS 5215 NUMBER THEORY** (3)
PR: MAS 4301 or CI. Fundamental theorem of arithmetic, modular arithmetic, Chinese remainder theorem, Mersenne primes, perfect numbers, Euler-Fermat theorem, pseudoprimes, primitive roots, law of quadratic reciprocity, factorization and primality testing algorithms.
- MAS 5311 ALGEBRA I** (3)
PR: MAS 4301 or CI. Group theory: Sylow theorems, classification of groups of small order. Ring theory: ideals, quotient rings, polynomial rings, Euclidean domains, quotient rings, polynomial rings, Euclidean domains, principal ideal domains and unique factorization.
- MAS 5312 ALGEBRA II** (3)
PR: MAS 5311 or CI. Continuation of MAS 5311. Finitely generated modules over a principal ideal domain, basic field theory, finite fields, Galois theory.
- MAT 2930 SELECTED TOPICS IN MATHEMATICS** (1-4)
PR: CI. The course content will depend on the interest of faculty members and student demand.

- MAT 2936 TECHNOLOGY SEMINAR -6A** (1)
A two contact hour/week technology seminar to acquaint students majoring in mathematics, physics, and other sciences with the computer tools necessary in scientific communication and document preparation. (S/U only. May not be repeated.)
- MAT 4906 INDEPENDENT STUDY -6A** (1-4)
PR: Cl. Specialized independent study determined by the student's needs and interests. The written contract required by the College of Arts and Science specifies the regulations governing independent study. May be repeated. (S/U only.)
- MAT 4930 SELECTED TOPICS IN MATHEMATICS -6A** (1-4)
PR: Cl. The course content will depend on the interest of faculty members and student demand.
- MAT 4937 MATHEMATICS MAJORS SEMINAR -6A** (1)
PR: MAS 4301. Directed discussions on a variety of topics of interest to mathematics majors, including career opportunities in mathematics. (S/U only. May not be repeated.)
- MAT 4970 MATHEMATICS SENIOR THESIS -6A** (3)
PR: Admission to Mathematics Honors Program and CC. Course restricted to mathematics majors. (S/U only.)
- MAT 5932 SELECTED TOPICS -6A** (1-4)
PR: Cl. Each course covers a single topic outside the usual curriculum.
- MGF 2131 CHAOS AND FRACTALS -6A -QM** (3)
PR: High school algebra and trigonometry. Computer experiments in the behavior of functions under iteration: periodicity, attractors, stability, complex numbers, Cantor set, fractional dimension, sensitive dependence.
- MGF 2202 FINITE MATHEMATICS -6A -QM** (3)
PR: Two years of high school algebra. Concepts and analytical skills in areas of logic, linear equations, linear programming, mathematics of finance, permutations and combinations, probability, and descriptive statistics.
- MGF 3301 BRIDGE TO ABSTRACT MATHEMATICS -6A -QM** (3)
PR: MAC 2311 or MAC 2281. An introduction to the axiomatic nature of mathematics through topics in areas such as set theory, algebra, and calculus. The rigor of precise definitions, theorems, and proofs will be emphasized.
- MHF 4403 THE EARLY HISTORY OF MATHEMATICS -6A -XMW** (3)
PR: MAC 2312 and upper-level standing. A study of the history and development of mathematics and its cultural impact from the formation of number systems to the Renaissance.
- MHF 5306 MATHEMATICAL LOGIC AND FOUNDATIONS I** (3)
PR: MAS 4301 or Cl. Two-course sequence covering: predicate calculus and classical model theory; transfinite set theory and the system ZFC; recursion theory and decidability.
- MHF 5405 HISTORY OF MODERN MATHEMATICS** (3)
PR: MAC 2313. Traces the development of mathematical ideas in Western culture. Special emphasis is placed on those concepts which led to the Calculus. This course is open to majors and non-majors alike.
- MTG 4212 GEOMETRY -6A** (4)
PR: MGF 3301 or Cl. Emphasis on axiomatics, advanced Euclidean geometry, elements of projective geometry, non-Euclidean geometries.
- MTG 4302 INTRODUCTION TO TOPOLOGY -6A** (3)
PR: MAS 4301. Metric spaces, completeness, topological spaces, subspaces, product spaces, continuity, homeomorphisms, connectedness, compactness, separation axioms, countability axioms.
- MTG 5256 DIFFERENTIAL GEOMETRY** (3)
PR: MAA 4211, MAS 3105. Exterior calculus, differentiable manifolds, integration of differential forms, surfaces in 3-space, covariant derivative, curvature, matrix groups.
- MTG 5316 TOPOLOGY I** (3)
PR: MAA 4211. Topological spaces, continuity, homeomorphisms, connectedness, compact spaces, separation axioms, product spaces.
- MTG 5317 TOPOLOGY II** (3)
PR: MTG 5316. The fundamental group; elements of homotopy theory and homology theory
- STA 2022 BASIC STATISTICS -6A -QM** (3)
Basic philosophy of statistical thinking. Acquisition of data. Techniques for organizing and presenting statistical data. Sample mean, variance and standard deviation. Statistical decisions—estimation and hypothesis testing. Design of experiments, linear association and prediction. Statistical software. (No credit for mathematics majors.)
- STA 2023 INTRODUCTORY STATISTICS I -6A -QM** (4)
PR: Two years of high school algebra. Descriptive statistics, basic probability principles, discrete and continuous probability distributions: binomial, normal, t, and chi-square; point estimation, confidence limits, and hypothesis testing. Emphasis on applications to social sciences, life sciences, physical sciences, engineering, and business. Students who successfully complete this course may not also receive credit for QMB 2150 or STA 2122. (No credit for Mathematics Majors.)
- STA 3024 INTRODUCTORY STATISTICS II -6A** (3)
PR: STA 2023 or CC. Factorials, ANCOV; multiple curvilinear regression; response surfaces; Latin squares, Split Plots, incomplete designs; distribution free methods.
- STA 4321 INTRODUCTION TO STATISTICS -6A** (3)
PR: STA 4442. Basic statistical methods. Estimation, hypothesis testing, regression, ANOVA, and nonparametric theory and methods.
- STA 4442 INTRODUCTION TO PROBABILITY -6A** (3)
PR: MAC 2313 or MAC 2283. Introduction to probability theory using calculus. Basic ideas of probability and random variables, discrete probability functions, continuous probability densities, joint distributions, transformations of random variables, moments and generating functions of random variables, and limit theorems.
- STA 5166 COMPUTATIONAL STATISTICS I** (3)
PR: STA 4321, CGS 3422 or CC. Statistical analysis of data by means of statistics package programs. Regression, ANOVA, discriminant analysis, and analysis of categorical data. Emphasis is on inter-relation between statistical theory, numerical methods, and analysis of real life data.
- STA 5228 SAMPLING TECHNIQUES** (3)
PR: STA 4321 or Cl. Sampling versus total enumeration. Planning of a survey. Statistical sampling methods and their analysis; simple, stratified, systematic cluster, and double and multistage sampling. Use of auxiliary information in sampling. Ratio and regression estimates. Case study.
- STA 5326 MATHEMATICAL STATISTICS** (3)
PR: STA 5446. Sample distribution theory, point and interval estimation, optimality theory, statistical decision theory and hypothesis testing.
- STA 5446 PROBABILITY THEORY I** (3)
PR: STA 4442 and MAA 4211 or Cl. Axioms of probability, random variables in Euclidean spaces, moments and moment generating functions, modes of convergence, limit theory for sums of independent random variables.
- STA 5526 NON-PARAMETRIC STATISTICS** (3)
PR: STA 5326, CC. Topics may include: classical nonparametric statistical theory, nonparametric density estimation, nonparametric regression, generalized additive models, nonparametric pattern recognition, classification and regression trees.

Medical Technology

- MLS 4031 INTRODUCTION TO MEDICAL TECHNOLOGY** (1)
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on principles and methods of medical technology, including professional ethics, safety regulations, quality control, phlebotomy, medical terminology, laboratory math and computer applications.
- MLS 4860 CLINICAL URINALYSIS AND BODY FLUIDS** (2)
PR: Senior standing and acceptance into an approved

- affiliated hospital. A hospital clinical course on laboratory methodology and diagnosis using urine and other fluids such as semen, spinal, pleural, peritoneal and joint fluids.
- MLS 4861 CLINICAL IMMUNOLOGY (2)**
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on the tissues, cells, and molecules of the human immune system, emphasizing the detection of serum antibodies and disease states.
- MLS 4862 CLINICAL HEMATOLOGY (6)**
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on cellular components of the blood as related to laboratory diagnosis and disease, including blood coagulation and morphological and biochemical aspects of blood cells.
- MLS 4863 CLINICAL MICROBIOLOGY (6)**
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course emphasizing pathogens responsible for disease in man, including morphology, physiology, and laboratory diagnosis of bacteria, fungi, parasites and viruses.
- MLS 4864 CLINICAL CHEMISTRY (6)**
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on the analysis of chemical substances found in the body as related to the diagnosis of human disease, including topics such as instrumentation, electrophoresis, therapeutic drug-monitoring assays, tumor markers, and toxicology.
- MLS 4865 CLINICAL IMMUNOHEMATOLOGY (6)**
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on blood and tissue typing, including blood group systems, transfusion associated disease, HLA testing, and preparation of blood and blood components for transfusion therapy.
- MLS 4866 CLINICAL LABORATORY MANAGEMENT AND EDUCATION (1)**
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on concepts of laboratory management, including personnel staffing, reimbursements, quality assurance, and regulatory issues, and clinical education techniques, including writing, lecture presentation, and evaluation.

Philosophy

- PHH 2000 INTRODUCTION TO PHILOSOPHY-6A -HP (3)**
An introduction to selected philosophical problems and traditions.
- PHH 3062 HISTORY OF PHILOSOPHY: ANCIENT AND MEDIEVAL (3)**
A survey of Western philosophy from the pre-Socratics to the end of the Middle Ages.
- PHH 3420 HISTORY OF PHILOSOPHY: MODERN (3)**
A survey of Western philosophy from the end of the Middle Ages to the nineteenth century.
- PHH 4440 CONTINENTAL PHILOSOPHY (3)**
A study of developments in post-Kantian European philosophy.
- PHH 4600 CONTEMPORARY PHILOSOPHY -6A -XMW (3)**
Selected schools of twentieth century thought such as idealism, positivism, pragmatism, realism, and existentialism.
- PHH 4700 AMERICAN PHILOSOPHY -6A -XMW (3)**
Major traditions in American thought, Puritanism, the Enlightenment, Transcendentalism, Idealism, Pragmatism, and Analytic Philosophy in relation to American culture.
- PHI 1103 CRITICAL THINKING -SS (3)**
Methods of thinking that lead to reliable conclusions, with emphasis on concrete cases in ordinary thinking and the sciences.
- PHI 2100 INTRODUCTION TO FORMAL LOGIC -6A -QM (3)**
An elementary study of propositional, predicate, class and syllogistic logic with some attention to basic problems of logical theory.

- PHI 2600 ETHICAL THEORY (3)**
A study of ethical theories, concepts, problems and methods.
- PHI 2631 ETHICS AND BUSINESS (3)**
An application of traditional ethical theories to contemporary problems in business.
- PHI 3404 SCIENTIFIC METHOD (3)**
Probability, inductive inference, the hypothetico-deductive method, experimentation, and selected topics in the philosophy of science.
- PHI 3601 CONTEMPORARY MORAL ISSUES -6A -SS (3)**
Open to all students. A study of contemporary moral issues concerning racism, sex, sexism, abortion, poverty, crime, war, suicide, and human rights in general.
- PHI 3633 BIOMEDICAL ETHICS (3)**
This course will focus on the ethical issues arising from advances in medical practice, delivery of health care, and scientific research.
- PHI 3636 PROFESSIONAL ETHICS (3)**
PR: Junior standing. An examination of the ethical problems that professionals will face in the complex, global society of the next few decades: confidentiality, divided loyalty, racism/sexism, etc.
- PHI 3640 ENVIRONMENTAL ETHICS -SS (3)**
A study of alternative theories of environmental ethics, including the application of these theories to contemporary environmental problems, such as pollution, resource depletion, species extinction, and land use.
- PHI 3700 PHILOSOPHY OF RELIGION -6A -SS (3)**
Analysis of religious experience and activity and examination of principal religious ideas in light of modern philosophy.
- PHI 3905 DIRECTED STUDY (1-4)**
PR: CI. Individual study directed by a faculty member. Approval slip from instructor required.
- PHI 3930 SELECTED TOPICS (1-4)**
PR: C.I. Selected topics according to the needs of the student.
- PHI 4073 AFRICAN PHILOSOPHY -XMW (3)**
A descriptive and analytical study of African philosophical thought, featuring reflective comparisons of African and Western categories of thought. (May also be taken for credit in Africana Studies.)
- PHI 4300 THEORY OF KNOWLEDGE -6A -XMW (3)**
An examination of human knowledge; its scope and limits, and an evaluation of evidence, criteria of truth, the nature of belief, conditions for meaningfulness, theories of perception, and a study of memory and sense perception in the four major fields of nature, history, personal experience, and the a priori.
- PHI 4320 PHILOSOPHY OF MIND -6A -XMW (3)**
A study of historical and current issues in philosophy of mind, including the nature and status of mind, mind/body dualism, the relationship of mind and body, the problems of other minds, the physical basis for intelligence, etc.
- PHI 4632 FEMINIST ETHICS -XMW (3)**
A study of the varied approaches to moral reasoning taken by feminist ethical writers such as Wollstonecraft, Mill, Gilligan, Daly, Hoagland and others. (May also be taken for credit in Women's Studies.)
- PHI 4800 AESTHETICS -6A -XMW (3)**
A study of traditional and contemporary aesthetic theories with emphasis on creative process, the nature of the art work, the aesthetic response, expressiveness, form and content, as well as art and morality.
- PHI 4905 DIRECTED STUDY (1-4)**
PR: 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.
- PHI 5135 SYMBOLIC LOGIC (3)**
PR: PHI 2100 or CI. Study of topics such as the following: Metatheory of propositional and predicate logic, related metatheoretic results, alternative logics.

- PHI 5225 PHILOSOPHY OF LANGUAGE** (3)
PR: Eight hours of philosophy, major in linguistics, or Cl. An examination of 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: Cl. Individual research supervised by a faculty member. Approval slip from instructor required.
- PHI 5934 SELECTED TOPICS** (1-3)
PR: Cl. Selected topics according to the needs of the student. Approval slip from instructor required.
- PHM 3021 PHILOSOPHIES OF LOVE AND SEX** (3)
Discussion of Philosophies of Love/Sex of Plato, Aristotle, Epicurus, Aquinas, Hume, Kant, Schopenhauer, Russell, Sartre, Marx, etc.
- PHM 3100 SOCIAL PHILOSOPHY -6A** (3)
An analysis of rival theories of social order and their philosophical foundations.
- PHM 3400 INTRODUCTION TO PHILOSOPHY OF LAW** (3)
A study of the fundamental concepts of law from a philosophical standpoint including crime, justice, punishment, free speech, insanity, etc.
- PHM 4322 ANCIENT AND MEDIEVAL POLITICAL PHILOSOPHY -6A -XMW** (3)
A survey of political philosophy from 6 B.C. until 1600 A.D., including an examination of the ethical, metaphysical, and epistemological bases of these philosophies.
- PHM 4331 MODERN POLITICAL PHILOSOPHY -XMW** (3)
A survey of political philosophy from 1600 A.D. until 1900 A.D., including an examination of the ethical, metaphysical, and epistemological bases of these philosophies.
- PHM 4340 CONTEMPORARY POLITICAL PHILOSOPHY -6A -XMW** (3)
A survey of political philosophy in the twentieth century, including an examination of the ethical, metaphysical and epistemological bases of these philosophies.
- PHM 5125 TOPICS IN FEMINIST PHILOSOPHY** (3)
A study of recent feminist philosophical approaches to epistemology, aesthetics or political philosophy. (May also be taken for credit in Women's Studies.)
- PHP 3786 EXISTENTIALISM -6A -HP** (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 -6A -XMW** (3)
The examination of Plato will include the dialogues Protagoras, Georgias, Meno, Republic, etc.
- PHP 4010 ARISTOTLE -6A -XMW** (3)
Study of Aristotle's philosophy.
- PHP 4410 KANT** (3)
Lecture and discussion of Kant's philosophy, especially The Critique of Pure Reason.
- PHP 4740 THE RATIONALISTS -6A** (3)
A careful study of the epistemologies of Descartes, Spinoza, Leibniz, and Malebranche.
- PHP 4745 THE EMPIRICISTS -6A** (3)
A careful study of epistemologies of Locke, Berkeley, Hume, and Thomas Reid.
- PHP 4784 ANALYTICAL PHILOSOPHY -6A** (3)
A study of the method devoted to clarifying philosophical problems through analysis of the language in which these problems are stated.
- PHP 4788 PHILOSOPHY OF MARXISM -6A -XMW** (3)
A critical survey of Marxist philosophy from Marx and Engels to Mao Tse-Tung and Herbert Marcuse. Hegelian foundations of Marxist philosophy analyzed in detail.
- WST 4342 CLASSICS IN FEMINIST THEORY -XMW** (3)
A study of classic contributions to the elaboration of feminist thought from the 18th century to the present in an attempt to discover the roots of the contemporary feminist movement. (May also be taken for credit in Women's Studies.)

Physics

- PHY 2020 CONCEPTUAL PHYSICS -NS** (3)
A qualitative, non-mathematical investigation of physics, emphasizing its influence on life today. (No credit for Physics or Mathematics majors.)
- PHY 2038 ENERGY AND HUMANITY -NS** (3)
Social, economic, and political aspects of energy. Includes energy conservation, environmental impact, energy-source alternatives, changing lifestyles, and personal use of solar energy. The relevant basic laws of physics and the scientific method are emphasized. Field trips and audiovisual presentations play important roles.
- PHY 2048, 2048L GENERAL PHYSICS & LABORATORY** (3, 1)
PR: MAC 2281 or MAC 2311. First semester of a two semester sequence of general physics (mechanics, wave motion, sound, thermodynamics, geometrical and physical optics, electricity, and magnetism) and laboratory for physics majors and engineering students. Must be taken concurrently and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2053 and PHY 2048 courses.
- PHY 2049, 2049L GENERAL PHYSICS & LABORATORY** (3, 1)
PR: MAC 2282 or MAC 2312, PHY 2048, PHY 2048L. Second semester of general physics and laboratory for physics majors and engineering students. Must be taken concurrently and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2054 and PHY 2049 courses.
- PHY 2053, 2053L GENERAL PHYSICS & LABORATORY** (3, 1)
PR: MAC 2102 and MAC 2114, or MAC 2132. First semester of a two semester sequence of general physics (mechanics, heat, wave motion, sound, electricity, magnetism, optics, modern physics) and laboratory for science students. Must be taken concurrently and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2053 and PHY 2048 courses.
- PHY 2054, 2054L GENERAL PHYSICS & LABORATORY** (3, 1)
PR: PHY 2053, PHY 2053L. Second semester of general physics and lab for science students. Must be taken concurrently and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2054 and PHY 2049 courses.
- PHY 3101 MODERN PHYSICS** (3)
PR: PHY 2049 or CR: PHZ 3101; PR: MAC 2283 or MAC 2313. Special relativity. Interaction and duality of particles and radiation. Atomic and x-ray spectra and Bohr model of atom. Schrodinger wave equation. Introduction to solid state physics.
- PHY 3221 MECHANICS I** (3)
CR: MAC 2283 or MAC 2313 and either PR: PHY 2048 or PHZ 3101. First semester of a two semester sequence. Review of vector algebra and vector calculus. Dynamics of single particles and systems of particles; central forces; rotation about an axis; statics; and virtual work.
- PHY 3323C ELECTRICITY AND MAGNETISM I** (4)
PR: PHY 2049, MAC 2283 OR MAC 2313. Electrostatic fields and potentials, dielectrics, classical conductivity, RC circuits, Fourier and finite element methods. Laboratory. First semester of sequence PHY 3323C, PHY 4324C.
- PHY 3424 OPTICS** (4)
PR: PHZ 3101 or PHY 2049; CR: MAC 2283 or MAC 2313. Reflection, refraction, dispersion, interference, diffraction, polarization, and laboratory.
- PHY 3822L INTERMEDIATE LABORATORY** (2)
PR: PHZ 3101 or PHY 2049 or equivalent; CR: PHY 3101 Experiments in modern physics, including the area of atomic, nuclear, solid state and wave phenomena.
- PHY 4031 GREAT THEMES IN PHYSICS -6A -XMW** (3)
Origins/early history of physics, and quantum physics. Conservation of energy. Second Law of Thermodynamics. Special Relativity. Exponential dynamics. Outside reading, writing; maintenance of a logbook/journal.
- PHY 4222 MECHANICS II** (3)
PR: PHY 3221; CR: MAP 2302. Continuation of PHY 3221. Coupled oscillators and normal modes; moving coordinate

- systems; Lagrange's and Hamilton's equations; inertia tensor; general rotation of rigid bodies.
- PHY 4324C ELECTRICITY AND MAGNETISM II** (4)
PR: PHY 3323C; CR: MAP 2302. Introduction to special relativity, magnetic fields and potentials, magnetic materials, RL and RLC circuits, Maxwell's equations and applications. Laboratory. Second semester of sequence PHY 3323C, PHY 4324C.
- PHY 4523 STATISTICAL PHYSICS** (3)
PR: PHY 3101 or Cl. A statistical approach to thermodynamics and kinetic theory and introduction to statistical mechanics.
- PHY 4604 INTRODUCTION TO QUANTUM MECHANICS** (3)
PR: PHY 3101, or Cl. Basic concepts of quantum mechanics with applications in atomic, nuclear, and condensed matter Physics.
- PHY 4744C INTRODUCTION TO ELECTRONICS AND TEST INSTRUMENTATION** (3)
PR: General Physics or Cl. Introduces the fundamentals of analog and digital electronics used in measurements and instrumentation. Weekly labs give hands-on experience in breadboarding electronic circuits and using test instrumentation (oscilloscopes, digital multimeters, etc.) (Not for major credit).
- PHY 4823L ADVANCED LABORATORY** (2)
PR: PHY 3822L. Experimental work primarily related to nuclear physics. Emphasis on modern physical experimental techniques employing some of the new types of equipment.
- PHY 4905 INDEPENDENT STUDY** (1-3)
PR: Cl. Specialized, independent study determined by the student's need and interest. The written contract required by the College of Arts & Sciences specifies the regulations governing independent study. May be repeated. (S/U only.)
- PHY 4910 UNDERGRADUATE RESEARCH** (1-4)
PR: Senior or advanced junior standing and CC. An individual investigation in the laboratory or library or both, under the supervision of the instructor. Credit hours and other contractual terms, are to be determined by student/instructor agree
ment. (S/U only.)
- PHY 4930 PHYSICS SEMINAR** (1)
PR: Senior or advanced junior standing or CC. All undergraduate physics majors must enroll in this course at least once and are expected to attend all Physics Colloquia. (S/U only.)
- PHY 4936 SELECTED TOPICS IN PHYSICS** (1-4)
PR: Senior or advanced junior standing and CC. Each topic is a course in directed study and under the supervision of a faculty member.
- PHY 5720C ELECTRONICS FOR RESEARCH** (3)
PR: Cl. A rigorous introduction to the fundamentals of analog and digital electronics. Theoretical circuit analysis and weekly labs introduce practical diodes, transistors, analog and digital ICs, breadboarding techniques and electronic test instrumentation.
- PHY 5937 SELECTED TOPICS IN PHYSICS** (1-4)
PR: Senior or advanced standing and CC. Each topic is a course in directed study under the supervision of a faculty member.
- PHZ 3101 MATHEMATICAL ANALYSIS OF PROBLEMS IN MECHANICS AND ELECTRICITY** (2)
PR: One year of non-calculus general physics. CR: MAC 2283 or MAC 2313. Designed for students who have not had the general physics sequence using calculus. Review of mechanics and electricity emphasizing problems which involve the use of calculus.
- PHZ 3102 PROBLEMS IN GENERAL PHYSICS I** (1)
CR: PHY 2048. First semester of two semester sequence of general physics problems. A course designed to allow those interested students to investigate problems not covered in the general physics course.
- PHZ 3103 PROBLEMS IN GENERAL PHYSICS II** (1)
CR: PHY 2049. Second semester of sequence PHZ 3102, PHZ 3103.

- PHZ 5115 METHODS OF THEORETICAL PHYSICS I** (3)
PR: MAP 2302 or Cl. Applications of mathematical techniques to classical and modern physics. Vector spaces including Hilbert space, orthogonal functions, generalized functions, Fourier analysis, transform calculus, and variational calculus.
- PHZ 5116 METHODS OF THEORETICAL PHYSICS II** (3)
PR: MAP 2302 or Cl. Applications of mathematical techniques to classical and modern physics. Selected topics in complex analysis, differential and integral equations, numerical methods, and probability theory.
- PHZ 5304 NUCLEAR PHYSICS** (3)
PR: PHY 4604 or Cl. Nuclear forces, nuclear models, nuclear structure, decay, nuclear reaction, and high energy physics.
- PHZ 5405 SOLID STATE PHYSICS I** (3)
PR: PHY 3101, MAP 2302. Crystal structure, x-ray and electron diffraction, mechanical and thermal properties of solids, electrical and magnetic properties of metals, band theory of metals, insulators, and semiconductors. First semester of sequence PHZ 5405, PHZ 6426.

Political Science

- CPO 2002 INTRODUCTION TO COMPARATIVE POLITICS -SS** (3)
Comparison and analysis of representative European and non-Western political systems.
- CPO 4034 POLITICS OF THE DEVELOPING AREAS** (3)
An analysis of the ideologies, governmental structures, and political processes of selected nations of the non-Western world.
- CPO 4930 COMPARATIVE GOVERNMENT AND POLITICS OF SELECTED COUNTRIES OR AREAS** (3)
Studies political systems with common elements. Structure, process, domestic and foreign politics, and regional roles are considered. May be repeated up to 9 credit hours as topics vary.
- CPO 5934 SELECTED TOPICS IN COMPARATIVE POLITICS** (3)
Studies specific substantive areas in comparative politics such as political economy or the politics of specific countries or regions. May be repeated for credit as topics vary.
- INR 2002 INTRODUCTION TO INTERNATIONAL RELATIONS** (3)
Concepts and analytical tools applied to events such as politics among nations, control of foreign policies, types of actors, war and peace.
- INR 3102 AMERICAN FOREIGN POLICY** (3)
Analysis of the development and scope of United States foreign policy, emphasizing goals and objectives, policy formulation and implementation, themes and issues.
- INR 4035 INTERNATIONAL POLITICAL ECONOMY** (3)
Analysis of the development and politics of the international economic system, focusing on questions of cooperation and conflict in trade, aid, and investment relationships.
- INR 4254 AFRICA IN WORLD AFFAIRS** (3)
An examination of Africa's place and role in world affairs including an analysis of the impact of external forces, international relations in post-colonial Africa, the relations of African states with the major World Powers, the UN and its agencies.
- INR 4334 DEFENSE POLICY** (3)
Analytic institutional factors contributing to formulation of defense policy and the impact of such policy on international relations.
- INR 4403 INTERNATIONAL LAW** (3)
Examines essential components of the international legal system; recognition; succession; sea, air and space law, treaties, diplomats, International Court of Justice; laws of war, etc. Introduces the student to legal reasoning as employed in the international context.
- INR 4502 INTERNATIONAL ORGANIZATIONS -SS -AF** (3)
Study of the operations and structure of international organizations and effects on world politics; background and achievement of the UN; regional organizations and multi-national corporations.

- INR 5086 ISSUES IN INTERNATIONAL RELATIONS (3)**
Explore specific topics and provides the student with an opportunity for in-depth study of historical and contemporary problems in international politics. May be repeated for credit as topics vary.
- POS 2041 AMERICAN NATIONAL GOVERNMENT (3)**
Analysis of basic principles and procedures of the American governmental system with emphasis on current issues and trends.
- POS 2080 THE AMERICAN POLITICAL TRADITION -SS -HP (3)**
This course is an introductory survey of the historical developments and changes in American political institutions, processes, and thought.
- POS 2112 STATE AND LOCAL GOVERNMENT AND POLITICS (3)**
Analysis of the structure and function of state and local governments, of the social and political influences that shape them, and of the dynamics of their administrative processes.
- POS 3142 INTRODUCTION TO URBAN POLITICS AND GOVERNMENT (3)**
Governmental and political structures and processes as they function in urban areas, with special focus on municipalities and locally based public services.
- POS 3145 GOVERNING METROPOLITAN AREAS (3)**
Examines governmental units and interactions in metropolitan areas, proposals for changes in governance, and policy areas of area-wide concern, such as human services.
- POS 3173 SOUTHERN POLITICS (3)**
Examines changes in electoral politics in the South, and the role of interest groups and the state and federal government in facilitating change.
- POS 3182 FLORIDA POLITICS AND GOVERNMENT (3)**
A study of Florida political culture, political parties and elections, the legislative, executive, and judicial systems, and policy patterns.
- POS 3273 PRACTICAL POLITICS (3)**
PR: POS 2041 or POS 3453 or Cl. Coordinated scholarly and practical activity through class lecture and supervised field work in local political parties and election campaigns.
- POS 3283 JUDICIAL PROCESS AND POLITICS (3)**
The organization, development, and functioning of American court systems and the causes and consequences of judicial behavior from an empirical perspective.
- POS 3453 POLITICAL PARTIES AND INTEREST GROUPS (3)**
Analysis and understanding of role, functions, structure, and composition of such, and their impact on American governmental institutions.
- POS 3691 INTRODUCTION TO LAW AND POLITICS (3)**
Nature of law, legal process, relationship to political life of constitutional law, administrative law, the judicial process, and private law.
- POS 3697 ENVIRONMENTAL LAW (3)**
This course examines some of the major issues involving environmental law. Specially, the course provides a survey and analysis of statutes, both state and federal, regulating water, air, soil pollution, and resource conservation and recovery. The course will also address questions pertaining to problems of implementation, interpretation, enforcement, and development of environmental laws.
- POS 3713 EMPIRICAL POLITICAL ANALYSIS (3)**
Fundamentals of empirical political inquiry: systematic data collection and quantitative analysis techniques. Laboratory exercises using the computer are required.
- POS 3931 SELECTED TOPICS (3)**
Selected topics in political science with course content based upon student demand and instructor's interest. May be repeated for up to 6 credits as topics vary.
- POS 4165 COMMUNITY LEADERS AND POLITICS (3)**
Analysis of the roles and powers of mayors, city managers, council members, and interest and ethnic groups; distribution of community power.
- POS 4204 POLITICAL BEHAVIOR, PUBLIC OPINION, AND ELECTIONS (3)**
Analysis of economic and socio-psychological factors influencing mass and elite political behavior; voting behavior, public opinion, and political activism.
- POS 4413 THE AMERICAN PRESIDENCY-6A (3)**
The presidency as a political institution; analysis of powers; legislative, administrative, political, and foreign policy leadership; crisis management and decision making; White House staffing; limits on power.
- POS 4424 THE AMERICAN CONGRESS (3)**
Organization, procedures, committee system, party leadership, relations with governmental and nongovernmental organizations and agencies, oversight, decision-making processes, House/Senate comparisons.
- POS 4614 CONSTITUTIONAL LAW I (3)**
PR: POS 2041. Leading social problems, principle institutions, and the scope of powers. Analysis of Supreme Court decisions, scholarly commentaries, and the writings of leading public figures.
- POS 4624 CONSTITUTIONAL LAW II (3)**
PR: POS 2041. Analysis of Supreme Court decisions and scholarly commentaries on the constitutional rights of individuals.
- POS 4693 WOMEN AND LAW I (3)**
Introduction to issues concerning the legal aspects of sex and sex-based discrimination as embodied in statutory and case law, focusing on constitutional and family law and reproductive freedom issues. (May also be taken for credit in Women's Studies.)
- POS 4694 WOMEN AND LAW II -XMW (3)**
PR: POS 4693 or Cl. Legal position of women in American society and remedies available to challenge current laws and practices, with specific emphasis on employment and education issues as they relate to both women and men. (May also be taken for credit in Women's Studies.)
- POS 4905 INDEPENDENT STUDY (1-3)**
PR: 3.0 average in Political Science and Cl. Specialized study determined by the student's needs and interests. (S/U only.)
- POS 4910 INDIVIDUAL RESEARCH (1-3)**
PR: 3.0 average in Political Science and Cl. Investigation of some aspect of political science culminating in the preparation of an original research paper.
- POS 4936 SENIOR SEMINAR (3)**
PR: Senior standing and Cl. An opportunity to work with others in a seminar format, exploring specialized topics.
- POS 4941 FIELD WORK (3)**
PR: 3.0 average in Political Science and Cl. Opportunity for students to obtain practical experience as aides to agencies of government and political parties.
- POS 4970 HONOR THESIS (3)**
PR: Admission to Honor option. Writing of honor thesis under direction of faculty members.
- POS 5094 ISSUES IN AMERICAN NATIONAL AND STATE GOVERNMENT (3)**
Selected topics of study in American government. May be repeated for credit as topics vary.
- POS 5155 ISSUES IN URBAN GOVERNMENT AND POLITICS (3)**
Selected issues and topics in Urban Government and politics. May be repeated for credit as topics vary.
- POS 5736 POLITICAL RESEARCH METHODS (3)**
A survey of methods, problems, and issues in political research and analysis for the advanced student.
- POT 3003 INTRODUCTION TO POLITICAL THEORY (3)**
Examines various kinds of theory used in political science for understanding political life: normative theory, empirical theory, historicist theory, analytical theory, and critical theory.
- POT 3013 CLASSICAL POLITICAL THEORY (3)**
Analysis of basic ideas of Plato, Aristotle, Cicero, St. Thomas, and other leading pre-modern political philosophers.
- POT 4054 MODERN POLITICAL THEORY (3)**
Analysis of basic political ideas of Machiavelli, Hobbes, Locke, Rousseau, Burke, and other modern philosophers.

- POT 4064 CONTEMPORARY POLITICAL THOUGHT (3)**
Examines various political views and political phenomena in the nineteenth and twentieth centuries. Diverse theoretical types and salient political phenomena will be presented.
- POT 4109 POLITICS AND LITERATURE -6A -XLW (3)**
Critical examination of the connections between politics and literature.
- POT 4204 AMERICAN POLITICAL THOUGHT (3)**
Examines political writings in the U.S. and responses to critical periods in history, beginning with the Founding Fathers, and culminating in recent contributions and understanding contemporary political problems and solutions.
- POT 4661 THE POLITICS OF IDENTITY, DIFFERENCE AND INEQUALITY -XMW (3)**
PR: POT 3003. An analysis of how relationships of social identity and difference become the basis of social, political and economic inequality in modern society. It incorporates both contemporary and "classical" discussions of inequality.
- POT 4936 SELECTED TOPICS IN POLITICAL THEORY (3)**
Selected topics or thinkers in political theory.
- POT 5626 ISSUES IN POLITICAL PHILOSOPHY AND LAW (3)**
PR: Graduate or senior standing and CI. Selected topics in political philosophy and law. May be repeated as topics vary.
- PUP 3313 BLACKS IN THE AMERICAN POLITICAL PROCESS (3)**
An examination of the political experience of Blacks in the American political process including their political socialization, and struggle to become effective participants in the American political process. (May also be taken for credit in Africana Studies.)
- PUP 4002 PUBLIC POLICY (3)**
Examines the formation and implementation of public policy in areas such as the economy, health, etc.
- PUP 4203 ENVIRONMENTAL POLITICS AND POLICY (3)**
Examines the politics of environmental issues, formation and implementation of environmental policy.
- PUP 4323 WOMEN AND POLITICS -6A -XMW (3)**
An analysis of the impact of gender on power and influence in American society, and women's changing role in the political process. (May also be taken for credit in Women's Studies.)
- PUP 5607 PUBLIC POLICY AND HEALTH CARE (3)**
The study of health care policy as it relates to the policy process in the American setting.
- URP 4050 CITY PLANNING AND COMMUNITY DEVELOPMENT (3)**
An introduction to the development, role, and components of city planning, and the political and actual policies of government in attempting to regulate or control urbanization.

Psychology

- CBH 4004 COMPARATIVE PSYCHOLOGY (3)**
PR: PSY 3213 with a grade of C or better, psychology major or CI. The study of the evolution of behavior, similarities, and differences in capacities for environmental adjustment and for behavioral organization among important types of living beings.
- CLP 3003 PSYCHOLOGY OF ADJUSTMENT -SS (3)**
Genetic, organic, and learned factors involved in the processes of personal adjustment: applications of mental health principles to everyday living. Not for major credit.
- CLP 4143 ABNORMAL PSYCHOLOGY (3)**
PR: PSY 3213 with a grade of C or better, psychology major or CI. Descriptions, theoretical explanations, research evidence, and treatment of maladaptive behavior.
- CLP 4414 BEHAVIOR MODIFICATION (3)**
PR: PSY 3213 with a grade of C or better, psychology major or CI. Introduction to behavior analysis, and application of learning principles, behavioral measurement, research designs, and interventions in treatment settings.
- CLP 4433 PSYCHOLOGICAL TESTS AND MEASUREMENT (3)**
PR: PSY 3213 with a grade of C or better, psychology major or CI. A consideration of the instruments for intellectual and personality assessment including their applications, development, and potential abuses. Students may not receive credit for both CLP 4433 and EDF 4430.
- DEP 3103 CHILD PSYCHOLOGY -SS (3)**
Developmental and psychosocial aspects of childhood, including hereditary, maturational, psychological, and social determinants of child behavior. Not for major credit.
- DEP 4005 DEVELOPMENTAL PSYCHOLOGY (3)**
PR: PSY 3213 with a grade of C or better, psychology major or CI. Survey of methods, empirical findings, and theoretical interpretations in the study of human development.
- DEP 4135 PSYCHOLOGY OF LANGUAGE DEVELOPMENT (3)**
PR: PSY 3213 with a grade of C or better, psychology major or CI. Available both to majors and non-majors. Surveys the course of and processes underlying normal language development. Presents data and theory on phonological, semantic, syntactic, and pragmatic development.
- EXP 4104 SENSORY PROCESSES (3)**
PR: PSY 3213 with a grade of C or better, psychology major or CI. Available to both majors and non-majors. Psychophysical and neurophysiological data and theory underlying sensory processes. Visual, auditory, chemical, and somatosensory systems, with particular emphasis on visual processes.
- EXP 4204C PERCEPTION (3)**
PR: PSY 3213 with a grade of C or better, psychology major or CI. Topics include sensory and physiological bases of perception and how people process relevant information in their environments.
- EXP 4304 MOTIVATION (3)**
PR: PSY 3213 with a grade of C or better, psychology major or CI. A survey of motivational processes and mechanisms from physiological and psychological viewpoints.
- EXP 4404 PSYCHOLOGY OF LEARNING (3)**
PR: PSY 3213 with a grade of C or better, psychology major or CI. Survey of methods, empirical findings, and theoretical interpretations in conditioning and instrumental learning.
- EXP 4523C COGNITIVE PSYCHOLOGY (3)**
PR: PSY 3213 with a grade of C or better, psychology major or CI. Survey of methods, empirical findings, and theoretical interpretations of human learning, information processing, verbal learning, and judgment and decision-making.
- EXP 4640 PSYCHOLOGY OF LANGUAGE (3)**
Historical survey of relations between psychology and linguistics leading to the emergence of psycholinguistics as a field of study. Current status of theory and research in the field.
- GEY 4610 PSYCHOLOGY OF AGING (3)**
A comprehensive overview of psychological aspects of aging. Topics will include age-related changes in sensation/perception, cognition, and personality, as well as application to late-life psychopathology. (Also offered under Gerontology.)
- INP 2101 APPLIED PSYCHOLOGY -SS (3)**
The application of psychological principles and the functions of psychologist in education, government, industry, and clinical practice.
- INP 4004 INDUSTRIAL PSYCHOLOGY (3)**
PR: PSY 3213 with a grade of C or better, psychology major or CI. Applications of psychological principles to industry. Topics include: selection, training, motivation, job satisfaction, supervision, decision-making.
- PPE 4004 PERSONALITY (3)**
PR: PSY 3213 with a grade of C or better, psychology major or CI. Methods and findings of personality theories and an evaluation of constitutional, biosocial, and psychological determinants of personality.
- PSB 4013C PHYSIOLOGICAL PSYCHOLOGY (3)**
PR: PSY 3213 with a grade of C or better, psychology major or CI. Gross neural and physiological components of behavior. Structure and function of the central nervous

system and theory of brain functions.

PSY 2012 AN INTRODUCTION TO CONTEMPORARY PSYCHOLOGY -SS (3)

A broad survey of psychology for both majors and non-majors with special emphasis on the more applied areas of psychology (e.g., social psychology, abnormal psychology, personality, and developmental psychology.)

PSY 3022 CONTEMPORARY PROBLEMS IN PSYCHOLOGY -SS (3)

The content of this course varies depending on the needs and interest of students and faculty. Offerings include in-depth coverage of specialized aspects of psychology applied to contemporary problems not studied in general introductory courses.

PSY 3044 EXPERIMENTAL PSYCHOLOGY -SS (3)

PR: PSY 2012, psychology major or CI. Designed as an in-depth examination of the basic principles and concepts of psychological science. Extensive coverage will be given to the areas of learning, perception, physiological psychology, and cognition.

PSY 3213 RESEARCH METHODS IN PSYCHOLOGY (4)

PR: PSY 3044, psychology major, or CI. This course considers the logic of experimental design, concept of control and the analysis of experimentally obtained data. The laboratory section provides experience applying the concepts discussed in lecture. Two lectures plus two-hour lab. May be taken concurrently with PSY 3044.

PSY 4205 EXPERIMENTAL DESIGN AND ANALYSIS (3)

PR: PSY 3213 with grade of C or better, psychology major, or CI. Detailed coverage of those research designs and statistical techniques having the greatest utility for research problems in psychology. Emphasis on topics from analysis of variance.

PSY 4604 HISTORY AND SYSTEMS OF PSYCHOLOGY (3)

PR: PSY 3213 with a grade of C or better, psychology major or CI. The historical roots of modern psychological theories, investigation of the various schools of psychology such as behaviorism, Gestalt psychology, psychoanalysis, and phenomenological psychology.

PSY 4913 DIRECTED STUDY (1-3)

PR: Upper-level standing, psychology major and CI. The student plans and conducts an individual research project or program of directed readings under the supervision of a faculty member. (S/U Only.)

PSY 4931 SELECTED TOPICS: SEMINAR (3)

PR: Upper-level standing, psychology major and CI. Graduate-type seminar designed to provide the advanced undergraduate student with an in-depth understanding of a selected sub-area within psychology. May be repeated with a maximum of six (6) hours credit for the major.

PSY 4932 HONORS SEMINAR (3)

PR: Admission to honors program in psychology and CI. The student, under supervision of a faculty member, will formalize, conduct, analyze, and report in writing a research project in psychology. May be repeated with a maximum of 6 hours credit. May not count for major credit.

PSY 4970 HONORS THESIS (1-3)

PR: Admission to honors program in psychology and CI. The student under supervision of a faculty member will formalize, conduct, analyze, and report in writing a research project in psychology. May be repeated with a maximum of 6 credit hours.

SOP 3742 PSYCHOLOGY OF WOMEN -SS (3)

An examination of theories of female personality in historical perspective. Current research on sex differences, socialization, sexuality, psychology of reproduction. Emerging roles of women as related to social change and developmental tasks of the life cycle. (Also offered under Women's Studies.)

SOP 4004 SOCIAL PSYCHOLOGY (3)

PR: PSY 3213 with a grade of C or better, psychology major or CI. Survey of methods, empirical findings, and theoretical interpretations in the study of an individual's behavior as it is affected by others.

SOP 4714C ENVIRONMENTAL PSYCHOLOGY (3)

PR: PSY 3213 with a grade of C or better, psychology major or CI. Explores the influences of environment on behavior. Topics considered include crowding, privacy, territorial behavior, environmental design, and pollution effects. Designed for both psychology majors and non-majors.

Public Administration

PAD 3003 INTRODUCTION TO PUBLIC ADMINISTRATION -SS (3)

Examination of organizational behavior and change, policy process, public management, financial administration, and personnel management from the perspective of public and social delivery.

PAD 4204 PUBLIC FINANCIAL ADMINISTRATION (3)

Analysis of problems in the growth and development of public budgetary theory and Federal budgetary innovations.

PAD 5035 ISSUES IN PUBLIC ADMINISTRATION AND PUBLIC POLICY (3)

Selected issues and topics in Public Administration and Public Policy. May be repeated for credit as topics vary.

PAD 5333 CONCEPTS AND ISSUES IN PUBLIC PLANNING (3)

PR: URP 4050 or URP 6056. Analysis of basic concepts, issues, and strategies of planning; policy determination, collection of information, and decision-making.

PAD 5605 ADMINISTRATIVE LAW (3)

An examination of the constitutional and statutory bases and limitations of the administrative process, administrative adjudication, rule making, and the judicial review of such actions.

PAD 5612 ADMINISTRATIVE REGULATION (3)

Analysis of the regulatory functions and processes in the American political system: regulatory commissions, their functions, powers, management, reforms, and relationship with other branches of government.

PAD 5700 RESEARCH METHODS IN PUBLIC ADMINISTRATION (3)

This course provides the student with the fundamental skills and knowledge of how research is designed, implemented, analyzed, and utilized in public sector agencies. Available to majors and non-majors.

PAD 5807 ADMINISTRATION OF URBAN AFFAIRS (3)

Analysis of the role of the administrator at the municipal level; the division of functions; policy formation; alternative governmental structures; effects on the administrative process.

PAD 5836 COMPARATIVE PUBLIC ADMINISTRATION (3)

How organizations and managers perform within a particular environment, potential impact of innovation, and how service is accomplished in a variety of socio-economic environments.

Rehabilitation Counseling

RCS 3030 REHABILITATION COUNSELING: CONCEPTS AND APPLICATIONS (3)

This introductory course (1) surveys the theories, concepts, and attitudes involved in helping disabled or unabled persons become increasingly able. (2) provides initial experiences with these counseling perspectives and methods and their personal application.

RCS 5080 MEDICAL ASPECTS OF DISABILITY (4)

PR or CR: RCS 5700. A survey of medical conditions and disabilities encountered by rehabilitation and mental health counselors. Examines the relationship of client handicaps, physical and mental, to rehabilitation and mental health programming.

RCS 5404 INTERPERSONAL COUNSELING I: PERSONALITY THEORY (4)

A skill-building course on the utilization of one's self in rehabilitation and mental health counseling relationships. Includes the study of personality theories and their contribution to successful counseling and rehabilitation practice.

- RCS 5406 HUMAN DEVELOPMENT THEORY IN COUNSELING** (4)
Human development theory as applied in psychotherapy and case management rehabilitation, mental health, and addiction settings.
- RCS 5450 REHABILITATION COUNSELING ISSUES IN ALCOHOLISM AND OTHER ADDICTIONS** (4)
PR: Cl. An overview of alcohol and other drug abuse. Explores the extent and rate of abuse in the United States, causes, biology, psychological aspects, legal aspects, and treatment.
- RCS 5700 FOUNDATIONS AND ETHICS** (4)
An overview of rehabilitation history and introduction to rehabilitation processes and ethical issues in the public and private sectors. Ethical, legal, and professional standards in rehabilitation and mental health counseling are emphasized.
- RCS 5802 PRACTICUM I** (1)
PR: Majors only. Supervised experience and practice in counseling in various rehabilitation and mental health settings for a minimum of 120 hours. Must be taken concurrently with RCS 5406. (S/U only.)
- RCS 5905 DIRECTED STUDIES** (1-4)
Supervised rehabilitation studies under the direction of a faculty member.

Religious Studies

- CLA 3000 ANCIENT CIVILIZATIONS** (4)
Study of the character, ideas, and cultural achievements of the peoples of the Ancient Middle East and Mediterranean and their relevance for modern Western civilization.
- CLA 3801 HISTORY OF THE ALPHABET** (2)
Study, in reasonable detail, of the evolution of our "Roman" alphabet, as well as of other ancient and modern alphabets, from the writing system of ancient Egypt.
- CLA 4171 MESOPOTAMIAN CIVILIZATION** (3)
Study of the Ancient Mesopotamian (Sumero-Babylonian) civilization, including customs, religion, art and architecture, languages and literatures, science and the calendar, and an introduction to cuneiform writing.
- CLA 4930 SELECTED TOPICS** (1-4)
Course contents depend on student demand and instructor's interest and may range over the whole field of Ancient languages, literatures, and civilizations. Offerings on a semi-regular basis include Tongues of the Bible (2), and The Bible as History (3).
Note: In any of the numbers CLA 4900, CLA 4930, enrollment is repeatable for different subject matters.
- GRE 2040 NEW TESTAMENT GREEK I** (4)
An introduction to an intensive study of the koine Greek of the New Testament, for beginners; New Testament readings, composition, analysis of the structure of Greek of the New Testament.
- GRE 2041 NEW TESTAMENT GREEK II** (4)
PR: GRE 2040. Intermediate readings and grammar of the Greek New Testament.
- HEB 1120, 1121 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.
- REL 2210 HEBREW 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 2240 INTRODUCTION TO THE NEW TESTAMENT** (3)
An introduction to the critical study of the New Testament in context of Christian beginnings in the first century A.D.
- REL 2300 INTRODUCTION TO WORLD RELIGIONS -6A -HP** (4)
A cross-cultural exploration of the major religions of the world through lectures, films, and the reading of key religious texts. Religions covered include Judaism, Christianity, Islam, Taoism, Confucianism, Hinduism, and Buddhism.
- REL 2306 CONTEMPORARY WORLD RELIGIONS -HP** (4)
This course explores the unity and diversity of religious traditions in a global context in order to understand the mutual interactions between religions and cultures. Emphasis is placed on the role of religions in shaping human values which can either create or resolve social conflicts, and the impact these values can have on issues of race, ethnicity and religious diversity in a multicultural world.
- REL 2500 HISTORY OF CHRISTIANITY-6A -HP** (4)
The historical development of Christianity, its ideas and institutions, from the first century to the rise of religious modernism in the 19th century.
- REL 3003 INTRODUCTION TO RELIGION** (3)
This course examines the phenomenon of religion to answer the question: Religion, what is it? Religious thought (mythology and theology) and religious behavior (ritual and morality) are closely examined.
- REL 3114 COMEDY, TRAGEDY, AND RELIGION -6A -XMW** (3)
Examines the visions of life in comedy and tragedy, and relates both to Judaism, Christianity, and Zen Buddhism.
- REL 3120 RELIGION IN AMERICA** (3)
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** (3)
A course designed to allow the student to survey the wide spectrum of contemporary sects and cults and learn what motivates their development.
- REL 3132 WITCHCRAFT AND PAGANISM IN AMERICA** (3)
A study of contemporary witchcraft and paganism, including theories, methods, history, myths and symbols, beliefs, rituals and practices, believers, recruitment, socialization, and organizations.
- REL 3145 WOMEN AND RELIGION -6A** (3)
Analysis of the status and roles of women as compared to men in the Judeo-Christian tradition. Contemporary issues of feminist theology, and the controversies surrounding them. (May also be taken for credit in Women's Studies.)
- REL 3146 THE RELIGIOUS QUEST IN CONTEMPORARY FILMS -6A -SS -HP** (4)
This course will use contemporary films such as Gandhi, Malcolm X, The Long Walk Home, The Color Purple, The Leap of Faith, The Chosen, and Grand Canyon, to explore the personal and social dimensions of religion in modern secular societies, with an emphasis on issues of racism, sexism and human liberation and reconciliation.
- REL 3150 RELIGION AND THE MEANING OF LIFE -6A -XMW** (3)
What is the meaning of life? An exploration of answers to this question in Eastern and Western religions, and in humanistic philosophies of life.
- REL 3155 LIFE AFTER DEATH** (3)
An exploration of ideas about life after death and its relations to this life, in Judaism, Christianity, Islam, Hinduism, and Buddhism.
- REL 3170 RELIGION, ETHICS AND SOCIETY THROUGH FILM -6A -HP -SS** (4)
An ethical analysis of contemporary social issues through contemporary films, drawing on religious narrative traditions from Eastern and Western cultures which have contributed to the development of an ethic of human dignity, human rights and human liberation after Auschwitz and Hiroshima.
- REL 3280 BIBLICAL ARCHAEOLOGY -XMW** (3)
An in depth examination 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** (3)
An introduction to and a comparison of the ideas, the literature and institutions of the major religions of the world including Judaism, Christianity, Islam from the Near East and Hinduism, Taoism, Confucianism, and Buddhism from

- the Far East. General comparison of Western and Eastern beliefs.
- REL 3330 THE RELIGIONS OF INDIA -AF -SS (3)**
All religions of the world came to India and all became Indian. What is this "Indianness" which stems from Hinduism, Buddhism, Jainism and Sikhism, but extended itself to include Judaism, Christianity, Islam, Zoroastrianism and Baha'i. Readings from classical texts and modern literature.
- REL 3367 ISLAM IN THE MODERN WORLD (3)**
Examines the major developments in Islamic thought since the 13th century, with emphasis on the 19th and 20th century Islamic resurgence. Issues of diversity, gender, and social values will be stressed.
- REL 3420 CONTEMPORARY RELIGIOUS THOUGHT (3)**
An examination of the central ideas of recent theological thinkers; such men as Barth, Brunner, Bultmann, Bonhoeffer, Rahner, Tillich, Cox, Altizer, Buber, Niebuhr.
- REL 3550 ROMAN CATHOLICISM -6A -XMW (3)**
An examination of the history, doctrine, and ethics of the Roman Catholic Church.
- REL 3600 INTRODUCTION TO JUDAISM -6A -AF (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 CLASSICS OF JUDAISM -6A (3)**
PR: One course in Religious Studies. How to read the principal documents of Judaism beyond the Old Testament, particularly the Mishnah, Talmuds, and Midrash.
- REL 3611 HISTORY OF JUDAISM (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 3613 MODERN JUDAISM (3)**
A study of Jewish life in the West since 1789, emphasizing Jewish beliefs, practices, and institutions.
- REL 3700 INTRODUCTION TO ISLAM -6A -HP -AF (3)**
This course introduces the basic elements of Islamic belief and practice, placing the rise of Islam in its historical context in the Middle East, and stressing issues of diversity (including ethnicity and gender).
- REL 3900 DIRECTED READINGS (1-4)**
PR: Cl. Individual guidance in concentrated reading on a selected topic.
- REL 3921 COLLOQUIUM (1)**
This colloquium will be held in order to bring all religious studies faculty and undergraduate majors together to discuss research of a particular faculty member, student, or guest scholar. May be repeated up to 3 semester hours. (S/U only.)
- REL 3936 SELECTED TOPICS (1-4)**
PR: Cl. Course contents depend on students' needs.
- REL 4113 THE HERO AND RELIGION -XMW (3)**
A study of the way in which embedded religious models help to fashion the representation of an heroic protagonist. The focus of the course will be on the relationship between the hero and the "other," as differentiated by race, gender, ethnicity, or merely inner being.
- REL 4133 MORMONISM IN AMERICA (3)**
A study of Mormonism in America as an example of a new religion. Includes the study of history, myths and symbols, texts, beliefs, rituals and practices, believers, recruitment, socialization, and organizations.
- REL 4161 RELIGION, TECHNOLOGY AND SOCIETY (3)**
An exploration of the way in which religion and technology have interacted in Western civilization so as to both express and transform human values and identity. Special emphasis will be given to the value questions raised by modern technology.
- REL 4171 CONTEMPORARY CHRISTIAN ETHICS -6A (4)**
PR: Jr. standing or Cl. This course will survey several major approaches to contemporary Christian ethics and their application to a number of ethical issues peculiar to personal and social life in contemporary society.
- REL 4193 COMPARATIVE MYSTICISM (4)**
A course designed to acquaint the student with the nature of mystical experience, and some of the varieties of mystical experience recorded in the writings of the mystics.
- REL 4221 WHO WROTE THE BIBLE (GENESIS-KINGS) -6A -XMW -XLW (4)**
A critical examination of Genesis through 2 Kings. This course focuses on the history of the formation of the text and the development of the religious traditions represented therein. Special attention will be paid to Israelite Law, Covenant Theology, and the history of the religion(s) of Israel in their Ancient Near Eastern context.
- REL 4224 HEBREW BIBLE III/PROPHETS AND 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 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 3240 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 4333 HINDUISM (4)**
The philosophy of the saints; the complex rituals of the Brahmins; the art of its temples; the psychology and physiology of yoga; the social rigidity of the caste system; the esoteric science of meditation; the ascetic activism of Mahatma Gandhi--all of these are Hinduism, and more. Close readings of classical texts, philosophic systems and medieval poems.
- REL 4343 BUDDHISM IN INDIA, SRI LANKA, AND SOUTH EAST ASIA (4)**
The life and teachings of the Buddha; the order of monks and nuns; the Buddhist Emperor Ashoka; schisms; the rise of the Great Vehicle and the philosophy of emptiness; Buddhist missions; Buddhist art and culture; Buddhism and national liberation; contemporary social and political issues.
- REL 4344 BUDDHISM IN CHINA, JAPAN, AND TIBET (4)**
Mahayana Buddhism followed the silk routes to China and Japan, and later it crossed the Himalayas into Tibet. An overview of the variety of schools and practices of Buddhism and its adaptation by these ancient cultures.
- REL 4508 FROM MYTH TO CHRISTIANITY (4)**
Study of the religions/mythologies of the ancient Middle East and Eastern Mediterranean and how their influences shaped the theology and practices of Christianity up to the end of the fourth century; influences many of which continue to be evident in the traditional Roman and Eastern Orthodox churches.
- REL 4626 REASON IN RELIGION: TALMUDIC LOGIC -XMW (3)**
Analyzes the modes of thought and of logical analysis of the Talmud of Babaylonia; the way in which applied logic and practical reason work in a religious definition of the social order; the dialectical argument.
- REL 4670 JUDAISM AND CHRISTIANITY AFTER THE HOLOCAUST -6A -XMW -XLW (4)**
This course will explore the impact of the Holocaust on

Jewish and Christian thought and identity in the light of the history of religious and cultural anti-semitism in Western civilization.

REL 4910 UNDERGRADUATE RESEARCH (1-4)

PR: Junior standing and Cl. Individual investigations with faculty supervision.

REL 4931 SEMINAR IN RELIGION (3)

A course designed for students, 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.

REL 4939 THE DEVELOPMENT OF RELIGIOUS STUDIES (3)

Course designed for senior majors (and minors) in religious studies to complement REL 4931 (Senior Seminar). Discussion of key figures and methodological advances in the development of the field from the 18th century to present, with readings of classics in the development.

WST 5318 FEMINIST SPIRITUALITY (3)

This course focuses on the many voices of contemporary feminist spirituality, emerging from women's experiences in diverse religious, ethnic and cultural traditions, and representing a range of theoretical perspectives from biblical feminism to goddess worship and wicca. May not be repeated. (May be taken through Women's Studies.)

Social Work

SOW 3101 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I (4)

PR: All pre-core courses. Restricted to Social Work majors, others by School permission. An integrating human behavior-social environment course emphasizing dynamics of behavior and environmental factors as they relate to social work practice with individuals.

SOW 3102 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II (4)

PR: SOW 3101. Restricted to Social Work majors; others by School permission. An integrating course emphasizing dynamics of behavior and environmental factors as they relate to social work practice with families, group organizations and communities.

SOW 3203 THE AMERICAN SOCIAL WELFARE SYSTEM -SS(3)

A general education introductory course which provides students with a framework for understanding the historical development of American social welfare, its value base, and its response to minorities, women, children, the elderly, and the disabled.

SOW 3302 INTRODUCTION TO SOCIAL WORK (3)

An introductory course tracing the development of social work as a profession including an examination of the knowledge, skill and attitudinal base of the profession and professional roles and functions.

SOW 3401 RESEARCH AND STATISTICS FOR SOCIAL WORK (4)

PR: All pre-core courses. Restricted to Social Work majors, others by School permission. The purpose of this course is two-fold: to familiarize the student with research as it is practiced in the profession of Social Work; and to equip the student with those theoretical understandings necessary to be a critical consumer of social work research.

SOW 4233 SOCIAL WELFARE: POLICY & PROGRAM (4)

PR: All pre-core courses. Restricted to Social Work majors, others by School permission. An advanced policy course taking an analytical approach to contemporary social welfare policy issues and current social welfare programs.

SOW 4341 MULTI-METHODS OF SOCIAL WORK PRACTICE I: MICRO-SYSTEM INTERVENTION (5)

PR or CR: SOW 3101; SOW 3401. Restricted to Social Work majors; others by School permission. First practice course emphasizing development of skills and interventive methods with individuals, families and small groups. Course includes both didactic and experiential learning components.

SOW 4343 MULTI-METHODS OF SOCIAL WORK PRACTICE II: MACRO-SYSTEM INTERVENTION (5)

PR: All pre-core courses, SOW 4341; SOW 4233, and SOW 3102 may be taken as PR or CR. Restricted to Social Work majors, others by School permission. Second practice course emphasizing intervention at the community and organizational level. Builds upon theoretical and practical content of SOW 4341. Course includes both didactic and experiential learning components.

SOW 4510 INTEGRATIVE SEMINAR (3)

PR: Completion of all social work core courses except SOW 4522. CR: SOW 4510L. Restricted to social work majors in Senior year. An integrated practice seminar which constitutes the third and final course in the practice sequence.

SOW 4510L FIELD PLACEMENT (6)

PR: Completion of all social work core courses except SOW 4522. CR: SOW 4510. Restricted to social work majors in Senior year. Supervised field placement in a social welfare organization consisting of 32 hours per week in the field. (S/U only.)

SOW 4522 SENIOR SEMINAR: MULTICULTURAL AMERICA (3)

PR: SOW 3203, SOW 3302, SOW 3101, SOW 4341. The course focuses on the students' understanding of multicultural and intergenerational issues.

SOW 4900 DIRECTED READINGS (1-9)

PR: Completion of four social work courses including SOW 3401, upper level standing, and School permission. Content dependent upon student interest and ability. A contract will be jointly developed by student and instructor specifying nature of work to be completed. May be repeated up to 6 credit hours.

SOW 4910 DIRECTED RESEARCH (1-6)

PR: Completion of four social work courses including SOW 3401, upperlevel standing and school permission. Directed Research is intended to provide students with research experience in areas of specific interest in social work. A contract will be developed between student and instructor specifying the nature of work to be completed. Majors only.

SOW 4930 VARIABLE TOPICS IN SOCIAL WORK (1-3)

Restricted to Social Work majors; others by School permission. Variable title courses to expand on the four sequence areas in the Social Work core curriculum. Allows focus on areas relevant to student's educational interest.

SOW 5930C SELECTED TOPICS IN SOCIAL WORK (1-4)

Restricted to Social Work majors, both graduate and undergraduate; others by School permission. Course is taken as an elective. Variable title courses will selectively expand specific social work content areas. May be repeated in varying topic areas.

Sociology

SYA 3010 CLASSICAL THEORY (3)

PR: SYG 2000 or Cl. The analysis of the philosophical foundations, central principles, and historical development of sociological theory. Required for Sociology majors and minors.

SYA 3015 CONTEMPORARY THEORY (3)

PR: SYA 3010 and SYG 2000 or Cl. An examination of recent trends in sociological theory. Emphasis is on theories examining symbolic interactions, lived experience, popular culture, and social structures.

SYA 3300 RESEARCH METHODS (3)

PR: SYG2000 and STA 2122 or its equivalent. Introduction to the scientific method and its application to social science research. Research design, sampling techniques, and critical evaluation of social research. Required for Sociology majors.

SYA 3310 QUALITATIVE INQUIRY -6A -XLW (3)

PR: SYG2000 or Cl. Exploration of human relationships and behaviors, organizations, and the larger culture through research techniques such as interviews, participant observation, life histories, and narratives. Permit required.

- SYA 3503 VISUAL SOCIOLOGY** (3)
PR: SYG2000 or CI. An investigation of the relationship between visual representation (especially photography) and our understanding of the social world.
- SYA 4430 COMPUTERS IN THE SOCIAL SCIENCES** (3)
Introduction to the uses of computers in sociological research. Major emphasis is upon the use of statistical packages (principally SPSS) in data analysis.
- SYA 4910 INDIVIDUAL RESEARCH** (1-3)
Four courses in sociology, including SYA3300, upper level standing, at least a 3.0 overall GPA, or CI. Content depends on the interest of the student. A contract between the student and the sponsoring faculty member must be signed before class registration. May be repeated for credit. Up to 3 credits may count toward the minimum requirements for sociology credits for majors or minors. Permit required.
- SYA 4930 TOPICS IN SOCIOLOGY** (3)
PR: SYG2000 or CI. Selected specialized topics in sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester. This course, in different content areas, may be repeated for credit.
- SYA 4935 SENIOR SEMINAR -XMW** (3)
PR: Senior standing, SYG2000, SYA3010, SYA3300 plus 6 hours of sociology electives. The opportunity for senior Sociology majors to apply theory and methods to a selected topic of relevance in today's society. Topic changes by instructor. Majors only. Permit required.
- SYA 4949 SOCIOLOGICAL INTERNSHIP** (1-6)
PR: Senior or graduate standing in Sociology plus CI. Supervised placement in community organization or agency for a minimum of 10 hours of volunteer work per week, and a weekly seminar on applying sociological skills and methods in the placement setting. May be repeated for up to 6 credit hours. (S/U only)
- SYD 3441 PEASANT PERSPECTIVES - AF** (3)
PR: SYG2000 or 6 hours of other Social Science Gen. Ed. coursework or CI. Examines the applicability of sociological concepts to peasant life around the world, and explores the roles played by "western" societies in creating and sustaining the conditions under which peasants live.
- SYD 3700 RACIAL AND ETHNIC RELATIONS** (3)
PR: SYG2000 or CI. Comparative study of interracial relations, social tensions, attitudes, and modes of adjustment in various areas of the world.
- SYD 4020 GLOBAL POPULATION** (3)
PR: SYG2000 or CI. Upper level standing. Sociological determinants of fertility, mortality and migration; theories of population change.
- SYD 4410 URBAN SOCIOLOGY** (3)
PR: SYG2000 or CI. Upper-level standing. The social structure of the community in modern industrial societies. Analysis of community change.
- SYD 4800 GENDER AND SOCIETY** (3)
PR: SYG2000; WST2010 or 2011; or CI. Historical and contemporary exploration of current issues relevant to sex roles in America. Emphasis on sex role differences, interpersonal relationships and institutional participation. (Also offered under Women's Studies).
- SYG 2000 INTRODUCTION TO SOCIOLOGY -SS** (3)
An introduction to sociological perspectives and methods and the basic areas of sociological interests such as socialization, gender, race and ethnic relations, deviance, social control, and social stratification. Required for Sociology majors and minors.
- SYG 2010 CONTEMPORARY SOCIAL PROBLEMS -SS** (3)
The analysis of social causes and dimensions of major public issues such as crime, the environment, inequality, gender, employment, and substance abuse.
- SYG 2412 MARRIAGE** (3)
Study of pre-marital relations. Social, cultural, and personal factors related to success and failure in mate selection and marriage. Does not count for Sociology major credit.
- SYG 3120 SOCIOLOGY OF FAMILIES** (3)
PR: SYG2000 or CI. Examination of the family as a social institution, principles of family organization. Variations in American family types by social class, race, ethnicity. Social changes and problems in American families.
- SYO 3200 SOCIOLOGY OF RELIGION** (3)
PR: SYG2000 or CI. An examination of the meanings of religion in lived experiences in the contemporary United States. Includes the construction and maintenance of religious meanings and communities, the impact of those meanings and communities on daily lives, use and impact of religious discourse in daily lives, social movements motivated by religious beliefs.
- SYO 3500 SOCIAL ORGANIZATION** (3)
PR: SYG2000 or CI. Social organization in the broadest sense, including institutions and associations, as well as variations in role and status.
- SYO 3530 SOCIAL STRATIFICATION** (3)
PR: SYG2000 or CI. Social status and social stratification, social class as a factor in behavior, social mobility.
- SYO 4300 POLITICAL SOCIOLOGY** (3)
PR: SYG2000 or CI. An examination of the social factors that affect government, politics, and political behavior.
- SYO 4370 OCCUPATIONS AND PROFESSIONS** (3)
PR: SYG2000 or CI. A comparative analysis of professions, particularly medicine, law, teaching, allied health professions, engineering. Focus on the process of professionalizing service occupations like police work, business management, public administration and social work.
- SYO 4400 HEALTH AND SOCIETY** (3)
PR: SYG 2000 or CI. The study of disease and the sick person including the analysis of health practices, beliefs, and practitioners, the hospital as an organization, the cost, financing, and politics of health care.
- SYO 4410 DISABILITY & SOCIETY** (3)
PR: SYG2000 or CI. Examination of the applicability of sociological concepts to the experience of disability, and of disability as a means to a better understanding of the nature of social experience.
- SYP 3000 SOCIAL PSYCHOLOGY-SS** (3)
PR: PSY2012 or SYG2000 or CI. An exploration of the social forces that help shape individual perceptions, behaviors, and personality. The study of ways individuals develop identity and self-worth.
- SYP 4300 COLLECTIVE BEHAVIOR** (3)
PR: SYG2000 or CI. Study of the development of group and mass behavior crowds, social movements.
- SYP 4420 CONSUMER CULTURE** (3)
PR: SYG2000 or CI. The exploration of how Americans' purchasing behavior connects to larger historical shifts in our economy, including disenchantment, alienation, inequality, and the rise of the credit card society.
- SYP 4510 SOCIOLOGICAL ASPECTS OF DEVIANCE** (3)
The examination of the social construction of deviance: How deviance is defined, implications of deviance designations. Applications of theories of deviance to questions such as motivations of deviants and implications of criminal justice processing of deviants.
- SYP 4530 SOCIOLOGY OF JUVENILE DELINQUENCY** (3)
PR: SYG2000 or CI. Sociological issues in defining delinquency; the nature of adolescence and delinquency; sociological theories of the causes of delinquency; types and consequences of social control applied to delinquents.
- SYP 4640 LEISURE IN SOCIETY** (3)
PR: SYG2000 or CI. Sociological examination of leisure in the United States and other countries. Topics include changing leisure time patterns, relationships between leisure and work, personality, family, community, subcultures, religion, and social class.
- SYP 4650 SPORT IN SOCIETY** (3)
PR: SYG2000 or CI. An examination of the broad issues concerning sport in both a historical and contemporary perspective. Sport will be viewed in relation to social

institutions, economic considerations, mass media, and the sport group as a micro-social system.

Women's Studies

- AFA 4335 BLACK WOMEN IN AMERICA -6A -XMW (3)**
An interdisciplinary survey of the contemporary experience of black women in America, including the African roots, myths, and realities surrounding that experience. (May also be taken for credit in Africana Studies.)
- AMH 3561 AMERICAN WOMEN I (4)**
A study of women in the evolution of American society from European origins to 1877. Women's roles in the family, economy, politics, wars, religion and reform movements will be examined. (May also be taken for credit in History.)
- AMH 3562 AMERICAN WOMEN II (4)**
A study of women in the evolution of American society from 1877 to the present. Women's roles in the family, economy, politics, wars, religion and reform movements will be examined. (May also be taken for credit in History.)
- AMS 3370 SOUTHERN WOMEN: MYTH AND REALITY -6A (3)**
An analysis of the myths surrounding Southern Women, this course will identify these myths, discern their sources and purposes, and contrast them with history. (May also be taken for credit in American Studies.)
- ANT 4302 SEX ROLES IN CROSSCULTURAL PERSPECTIVE (3)**
PR: ANT 3410 or CI. Focuses on various theories, models and beliefs about male-female behaviors and interactions in human cultures throughout history and in various societies in the world today. (May also be taken for credit in Anthropology.)
- COM 4030 WOMEN AND COMMUNICATION (3)**
Examines women's patterns of communication in a variety of contexts. (May also be taken for credit in Communication.)
- PHI 4632 FEMINIST ETHICS -XMW (3)**
A study of the varied approaches to moral reasoning taken by feminist ethical writers such as Wollstonecraft, Mill, Gilligan, Daly, Hoagland and others. (May also be taken for credit in Philosophy.)
- PHM 5125 TOPICS IN FEMINIST PHILOSOPHY (3)**
A study of recent feminist philosophical approaches to epistemology, aesthetics or political philosophy. (May also be taken for credit in Philosophy.)
- POS 4693 WOMEN AND LAW I (3)**
Introduction to issues concerning the legal aspects of sex and sex-based discrimination as embodied in statutory and case law, focusing on constitutional and family law and reproductive freedom issues. Open to majors and non-majors. (May also be taken for credit in Government and International Affairs.)
- POS 4694 WOMEN AND LAW II (3)**
PR: POS 4693 or CI. Legal position of women in American society and remedies available to challenge current laws and practices, with specific emphasis on employment and education issues as they relate to both women and men. (May also be taken for credit in Government and International Affairs.)
- PUP 4323 WOMEN AND POLITICS -6A -XMW (3)**
An analysis of the impact of gender on power and influence in American society, and women's changing role in the political process. Open to majors and non-majors. (May also be taken for credit in Government and International Affairs.)
- REL 3145 WOMEN AND RELIGION -6A (3)**
Status and roles of women as compared to men in the Judeo-Christian tradition. Contemporary issues of feminist theology, and the controversies surrounding them. (May also be taken for credit in Religious Studies.)
- SOP 3742 PSYCHOLOGY OF WOMEN -SS (3)**
Theories of female personality. Current research on socialization, sexuality, reproduction. Emerging lifestyles and developmental tasks of the life cycle. (May also be taken for credit in Psychology.)
- SPT 2524 WOMEN WRITERS OF LATIN AMERICA (3)**
Literature of Latin-American women (in translation). Topics related to race and ethnicity, values and ethics, social, economic, and political issues. Readings will include oral histories, interviews, diaries and memoirs, poetry, short stories, and novels. (May also be taken for credit in Modern Languages and Linguistics.)
- SYD 4800 GENDER AND SOCIETY (3)**
PR: SYG 2000, WST 3010 or 3011; or CI. Historical and contemporary exploration of current issues relevant to sex roles in America. Emphasis on sex role differences, interpersonal relationships and institutional participation. (May also be taken for credit in Sociology.)
- WST 2309 THE FEMALE EXPERIENCE IN AMERICA -HP (3)**
The female experience in America, in historical context, with an emphasis on women in families of various classes, races, and ethnic groups from colonial times to 1870.
- WST 2380 HUMAN SEXUAL BEHAVIOR -SS (3)**
The dynamics of human sexuality: biological, constitutional, cultural, and psychological aspects. The range of sexual behavior across groups. Sources of beliefs and attitudes about sex, including sex roles and especially female sexuality.
- WST 3010 INTRODUCTION TO WOMEN'S STUDIES -SS -NW (3)**
Survey of major issues relevant to the female experience. The women's movement: historical, psychological, sociological, anthropological perspectives.
- WST 3011 ISSUES IN FEMINISM -SS (3)**
Survey of major issues relevant to the female experience: marriage and the family, sexuality, work, creativity.
- WST 3210 WOMEN IN WESTERN CIVILIZATION I -6A -HP (3)**
Survey of women in the ancient Near East, ancient Greece, ancient Rome, early Middle Ages. Origins of Western attitudes toward sex roles, female sexuality, relation of power to gender. (May also be taken for credit in History.)
- WST 3220 WOMEN IN WESTERN CIVILIZATION II -HP (3)**
Survey of European women from the late Middle Ages to the twentieth century: differing consequences of historical change for women and men. (May also be taken for credit in History.)
- WST 3275 WOMEN IN THE DEVELOPING WORLD (3)**
Survey of status of women in Asia, Africa, Latin and Caribbean America, compared to that in USA, Canada, West Europe, Marxist-Leninist countries. (May also be taken for credit in Government and International Affairs.)
- WST 3360 MEN AND SEXISM (3)**
Ways in which sex role conditioning affects the lives of men. Factors in this conditioning, and alternatives to masculine sex role models.
- WST 4260 RESEARCH ISSUES ON WOMEN OF COLOR -6A -XMW (3)**
An interdisciplinary introduction to the research process as it has been carried out on women of color nationally and internationally.
- WST 4262 LITERATURE BY AMERICAN WOMEN OF COLOR -6A -XLW (3)**
An introduction to contemporary women writers of color in the U.S.: Native Americans, African Americans, Asian Americans, and Chicanas/U.S. Latinas. Readings will include literature and contextual articles on historical and cultural issues. (May also be taken for credit in English.)
- WST 4263 THIRD WORLD WOMEN WRITERS -XLW (3)**
Introduces the literature of women from various **anglophone** countries in Africa, the Caribbean, and South Asia; some U.S. writers will be included to represent a third world diasporic consciousness. (May also be taken for credit in English.)
- WST 4310 FEMINISM IN AMERICA -6A -XMW (3)**
A study of feminist critiques of American women's experiences and status, and their implications for women's lives, by 19th- and 20th-century theorists, and how adequately these various critiques address the intersections of gender, class, ethnicity, and race.

- WST 4320 WOMAN'S BODY/WOMAN'S MIND** (3)
An analysis of the historical, social and political perspectives of women's health and healing experiences, and how woman's role as patient and provider of care are shaped by public and cultural assumptions.
- WST 4335 WOMEN AND FILM** (4)
A study of representation of women in Hollywood films and the responses of feminist film theorists and filmmakers working in documentary, experimental and narrative modes.
- WST 4342 CLASSICS IN FEMINIST THEORY -XMW** (3)
A study of classic contributions to the elaboration of feminist thought from the 18th century to the present in an attempt to discover the roots of the contemporary feminist movement. (May also be taken for credit in Philosophy.)
- WST 4350 WOMEN AND SCIENCE -XMW** (3)
An examination of selected issues related to women and the natural and physical sciences including: historical participation of women in science, current status of women in science, and feminist critiques of science as a discipline.
- WST 4900 DIRECTED READINGS** (1-3)
PR: Registration requires instructor's written consent and signed contracts from instructor of choice. To provide advanced students with interdisciplinary research experience in areas of specific interest. May be repeated up to 6 credit hours.
- WST 4910 DIRECTED RESEARCH** (1-3)
PR: Registration requires instructor's written consent and signed contracts from instructor of choice. To provide advanced students with interdisciplinary research experience in areas of specific interest. May be repeated up to 6 credit hours.
- WST 4930 SELECTED TOPICS** (1-4)
PR: WST 3010 or CI. Study in special areas such as Women and Work, Reproductive Law, Women and Health.
- WST 4935 SEMINAR IN WOMEN'S STUDIES** (3)
PR: Women's Studies Major. Recognizing the interplay between personal connections and intellectual experience, this capstone course is designed to focus on topical areas related to women's studies and facilitate linking student learning experience to future plans.
- WST 5001 FEMINIST RESEARCH AND METHODOLOGY** (3)
The main goals of this course are to develop a more comprehensive understanding of the situation of women in society and to develop a theoretical basis for integrating this knowledge into the student's graduate course of study.
- WST 5266 WOMEN OF COLOR: ACTIVISM AND SOCIAL CHANGE** (3)
Intensive reading and discussion of the participation of women of color in contemporary revolutionary and reformist activities. Class project involvement is required.
- WST 5318 FEMINIST SPIRITUALITY** (3)
This course will focus on the many voices of contemporary feminist spirituality, emerging from women's experiences in diverse religious, ethnic and cultural traditions, and representing a range of theoretical perspectives from biblical feminism to goddess worship and wicca. (May also be taken for credit in Religious Studies.)
- WST 5934 SELECTED TOPICS** (1-4)
Study of current research methods and scholarship on women from a multidisciplinary perspective. May be repeated as topics vary. (CI).