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 2010 (3) BSC 2113 (3)
      - BSC 2010L (1) BSC 2113L (1)
      - PHY 2053-2053L (4) or PHY 2048-2048L (4)
      - PHY 2054-2054L (4) or 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) or MAC 2311 (4)
   - MAC 2282 (3) MAC 2312 (4)
   - PHY 2048L (3) PHY 2049L (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 2048L

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 3.6 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 2100, GLY 2010L and GLY 2101, 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.

**Prerequisites (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 with 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, in 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.

  **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 2122.

  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 212.11 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 health 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)
  - GEY 3625 (3)
  - HUS 4020 (4)
  - GEY 3601 (3)
  - GEY 4360 (3)

**Prerequisites (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 being 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 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 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 adviser, who is empowered to approve appropriate substitutions when educationally justified.

Prerequisites (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
GEO 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 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, 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.
## College of Arts and Sciences

### 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 3550 (3), INR 4053 (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 5007 (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)
- POS 4941 (3-15), POS 4906 (1-3), POS 4970 (3)
- POS 4910 (1-3), POS 3931 (3), POS 4109 (3)
- POS 4681 (3), POS 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 POS 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).

### Prerequisites (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)
- ENC 1101 English I—Essay Writing

### 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. (Courses on Law and Politics are listed under Field VII of the Political Science undergraduate curriculum.) 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.

### Prerequisites (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
- AMH 2020 American History II
- ENC 3310 English—I—Essay Writing
- EIH 1000 World Civilization I
- EIH 1101 World Civilization II
- POS 2112 State and Local Government
- SPC 2600 Public Speaking

### 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
INR 4534  Comparative Politics of Selected Areas
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 endeavor 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," computer science courses. Additional hours can be profitably drawn from the following disciplines: African 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. A minimum grade of "C" or better must be attained in each course. Only one lower-level sequence counts, earning 4 credit hours. 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.

Prerequisites (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
1. HUM 2211 (Studies in Culture: the Ancient through the Medieval Periods) and HUM 2243 (Studies in Culture: the Renaissance through the Twentieth Century), six credit hours
2. 22 credits of upper-level Humanities courses (3000 or 4000 level)
3. HUM 4931 (Seminar in Humanities), four credit hours
4. Two or more courses in the creative or performing arts, either lower or upper level, totaling at least four semester hours
5. 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.

Prerequisites (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, EUI 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, distributed as follows:
  1. One 2000-level survey course, either AMS 2201 (Colonial American Culture), AMS 2212 (Nineteenth-Century American Culture) or AMS 2270 (Twentieth-Century American Culture). 3 credits.
  2. AMS 2030 (Introduction to American Studies) 3 credits.
  3. One additional 3000-level period course (e.g. AMS 3230, AMS 3001, AMS 3260), 4 credits.
  4. One 3000- or 4000-level regions or genre course (e.g. AMS 3210, AMS 3601, AMS 4152), 3 or 4 credits.
  5. AMS 4804 (Major Ideas in America), 3 credits.
  6. One 4000-level Research Seminar (AMS 4935 or AMS 4936), 4 credits.
  7. 6 additional AMS credit hours.
  8. 9-10 additional credit hours of supporting courses to be chosen in consultation with the undergraduate advisor.

• Requirements for the Minor in American Studies
  18 credit hours distributed as follows:
  1. One 2000-level survey course (AMS 2201, AMS 2212, AMS 2270). 3 credits.
  2. AMS 2030 (Introduction to American Studies). 3 credits.
  3. 6 additional AMS credit hours.
  4. 6 additional credit hours of supporting courses to be chosen in consultation with the undergraduate advisor.

Prerequisites (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-Geological (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 (MB), 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 2010 (3) or BSC 2011C (4)
- CHM 2041 (3) or CHM 2046 (3)
- CHM 2045L (1) or CHM 2046L (1)
- MAC 2233 (4) or MAC 2234 (4)
- PHY 2053 (3) or PHY 2053L (3)

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

Major Courses:

- BCH 3023 or CHS 4300 (3)
- CHM 2210, 2210L (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 4404, 4404L
- PCB 3063, 3063L
- PCB 5115C
- 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:

- BOT 4434C or CHM 3120C
- CHS 4100C or CHS 4300
- MCB 4115C or MCB 4404
- MCB 4502C or MCB 5206
- PCB 3023 or PCB 3023L
- PCB 4064C
- PHY 2053L
- PHY 2054L

**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.

**Prerequisites (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 transferable credit, the student must meet the university's entering freshmen 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)
- Calculus (MAC 2233 and MAC 2234 or MAC 2311 and MAC 2312)
- General Chemistry (CHM 2041, CHM 2045L, and CHM 2046, CHM 2046L)
- General Physics (PHY 2053, PHY 2053L and PHY 2054, PHY 2054L or PHY 2048, PHY 2048L and PHY 2049, PHY 2049L)
- Introduction to Physical Geology (GLY 2010, GLY 2010L) and History of the Earth and Life (GLY 2100, GLY 2100L)

**INTERDISCIPLINARY SOCIAL SCIENCES (ISS)**

The ISS program 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 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. ISS majors must satisfy two semesters of a foreign language in order to graduate.
7. 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.  
8. 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.

Prerequisites (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. A grade of "C" is the minimum acceptable grade.

- AFA 2000 Black Experience
- AMH 2010 or 2020 American History
- ANT 2000 Introduction to Anthropology
- ECO 2013 Economic Principles (Macroeconomics)
- ECO 2023 Economic Principles (Microeconomics)
- GEA 3000 World Geography
- POS 2041 National Government
- POS 2112 State and Local Government
- SYG 2000 Introduction to Sociology
- WST 3010 Women's Studies

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 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.

Prerequisites (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 in Classics is 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 major is 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:

The Major in Classics requires 10 courses, earning a minimum of 30 credit hours. Of those courses, a minimum of 4 courses must consist of language courses in any combination of courses offered in Latin (LAT and LNW) and in Greek (GRE and GRW). The remaining 6 courses are to be chosen from a list of approved courses with the advice of the Classics advisor.
• Requirements for the minor in Classics:
The minor in Classics consists of 4 courses, earning a minimum of 12 credit hours, chosen from a list of approved courses with the advice of the Classics advisor.

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. A grade of "A" on a sight examination and proficiency in the foreign language.
4. A written examination on a designated area of Latin or Greek literature (for example, the Golden Age, the Silver Age, etc.).
5. Successful completion of an upper-level Greek or Latin course designated as an Honors Seminar.

Prerequisites (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
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) DEP 4135 (3)
EXP 4640 (3) LIN 3801 (3) LIN 4040 (3)
LIN 4600 (3) LIN 4710 (3) SPC 3210 (3)
SPC 3712 (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 coursework 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)
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 2240 (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 2240 (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 ap-
providing 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
8 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)
  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.

**Prerequisites (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 demonstrating 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 otherwise stated, a grade of “C” is the minimum acceptable grade.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECN 1101 English I</td>
<td>3</td>
</tr>
<tr>
<td>ECN 1102 English II</td>
<td>3</td>
</tr>
<tr>
<td>Social Science (any HIS, SOC, ANT, etc.)</td>
<td>6</td>
</tr>
<tr>
<td>Humanities (any HUM)</td>
<td>6</td>
</tr>
<tr>
<td>Beginning and Intermediate &quot;Target Language&quot; (XXX 1120, 1121, and 2200)</td>
<td>14-19</td>
</tr>
</tbody>
</table>

### 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 evaluate these information resources. Topics include issues related to the use of 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's faculty will counsel those undergraduates interested in graduate study in librarianship. The Library and Information Science Director'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 developed the Marine Science Minor which is specifically geared toward 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 (MS) 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 coursework 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. The Bayboro Harbor is home port to the R/V Belfows (71 ft.) and the R/V Vision (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 (FMB), the research arm of the Florida Department of Environmental Protection. A newly occupied research building is shared by DMS and FMB, 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, FMB, 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 emphasis on liberal arts and humanities. 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 contacts to support 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, JOU 4944, 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 general education requirements including a minimum of 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). (Students who transfer MMC 2100 or its equivalent must pass the Mass Communications Diagnostic Test with a minimum score of at least 70 percent, which is the same score required for the successful completion of MMC 2100 at USF.) 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 placed 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 (124 total hours). Students are required to complete 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 junior-level public or private institution. 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 production, 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)

   - JOU 3940 (3) JOU 4106 (3) MMC 4202 (3)
   - JOU 4106 (3) JOU 4206 (3)
   - JOU 4106 (3) JOU 4206 (3)

2. **JOURNALISM Requirements**

   - News-Editorial Option
   - JOU 2100 (3) JOU 4200 (3) JOU 4206 (3)
   - JOU 3101 (3) MMC 4202 (3)
   - JOU 4104 (3) PGY 3610 (3)

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

   - Magazine Option
   - JOU 2100 (3) JOU 3300 (3) MMC 4202 (3)
   - JOU 3101 (3) MMC 4202 (3)
   - MMC 4420 (3)

3. **PUBLIC RELATIONS Requirements**

   - ADV 3000 (3) MMC 4202 (3)
   - JOU 2100 (3) MMC 4401 (3)
   - MMC 4440 (3)

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

   - JOU 3101 (3) MMC 4202 (3)

4. **TELECOMMUNICATIONS Requirements**

   - News Option
   - MMC 4200 (3) RTV 3001 (3) RTV 4301 (3)
   - MMC 4420 (3) RTV 3304 (4)

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

   - Programming and Production Option
   - MMC 4200 (3) RTV 3001 (3) RTV 4320 (3)
   - MMC 4420 (3) RTV 3304 (4) RTV 4500 (3)
   - RTV 2100 (3) RTV 4220 (3)

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

   - JOU 3101 (3) MMC 4202 (3)

**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.

**3. PUBLIC RELATIONS Requirements**

   - ADV 3000 (3) PUR 3000 (3) PUR 4100 (3)
   - JOU 2100 (3) PUR 4001 (3) PUR 4401 (3)
   - MMC 4440 (3)

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

   - JOU 3101 (3) MMC 4202 (3)

**4. TELECOMMUNICATIONS Requirements**

   - News Option
   - MMC 4200 (3) RTV 3001 (3) RTV 4301 (3)
   - MMC 4420 (3) RTV 3304 (4)

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

   - Programming and Production Option
   - MMC 4200 (3) RTV 3001 (3) RTV 4320 (3)
   - MMC 4420 (3) RTV 3304 (4) RTV 4500 (3)
   - RTV 2100 (3) RTV 4220 (3)

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

   - JOU 3101 (3) MMC 4202 (3)

**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.

**3. PUBLIC RELATIONS Requirements**

   - ADV 3000 (3) PUR 3000 (3) PUR 4100 (3)
   - JOU 2100 (3) PUR 4001 (3) PUR 4401 (3)
   - MMC 4440 (3)

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

   - JOU 3101 (3) MMC 4202 (3)

**4. TELECOMMUNICATIONS Requirements**

   - News Option
   - MMC 4200 (3) RTV 3001 (3) RTV 4301 (3)
   - MMC 4420 (3) RTV 3304 (4)

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

   - Programming and Production Option
   - MMC 4200 (3) RTV 3001 (3) RTV 4320 (3)
   - MMC 4420 (3) RTV 3304 (4) RTV 4500 (3)
   - RTV 2100 (3) RTV 4220 (3)

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

   - JOU 3101 (3) MMC 4202 (3)
Prerequisites (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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (minimum grade of &quot;C&quot;)</td>
<td>6</td>
</tr>
<tr>
<td>MMC 3602 Mass Communications and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMC 2100 (3)</td>
<td>MMC 3602 (3)</td>
</tr>
</tbody>
</table>

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.

**MATHMATICS (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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 4313 Symbolic Computations in Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MAA 4211 Intermediate Analysis I</td>
<td>4</td>
</tr>
<tr>
<td>MAC 2311 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MAC 2312 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MAC 2313 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MAP 2302 Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MAS 3105 Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MAS 4301 Elementary Abstract Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MAT 2936 Technology Seminar</td>
<td>1</td>
</tr>
<tr>
<td>MAT 5307 Mathematics Majors Seminar</td>
<td>3</td>
</tr>
<tr>
<td>MGF 3301 Bridge to Abstract Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>STA 4442 Introduction to Probability</td>
<td>3</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 3414 Problem Solving Using Pascal or C</td>
<td>3</td>
</tr>
<tr>
<td>MAA 4212 Intermediate Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>MAA 4402 Complex Variables</td>
<td>3</td>
</tr>
<tr>
<td>MAD 4401 Numerical Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MAD 4504 Theory of Computation</td>
<td>3</td>
</tr>
<tr>
<td>MAP 5305 Introduction to Graph Theory</td>
<td>3</td>
</tr>
<tr>
<td>MAP 5345 Applied Partial Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MAP 5407 Methods of Applied Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MAS 5124 Numerical Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MAS 4156 Vector Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MAS 4214 Elementary Number Theory</td>
<td>3</td>
</tr>
<tr>
<td>MGF 5405 History of Modern Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MTG 4212 Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MTG 4302 Introduction to Topology</td>
<td>3</td>
</tr>
<tr>
<td>STA 4321 Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>STA 5166 Computational Statistics</td>
<td>3</td>
</tr>
<tr>
<td>STA 5226 Sampling Techniques</td>
<td>3</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 2311 Calculus I</td>
<td>4</td>
</tr>
</tbody>
</table>

**Semester 2**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 2312 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MAT 2936 Technology Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

**Semester 3**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 2313 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MGF 3301 Bridge to Abstract Mathematics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Semester 4**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAP 2302 Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MAS 3105 Linear Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

**Semester 5**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAS 4301 Elementary Abstract Algebra</td>
<td>3</td>
</tr>
<tr>
<td>COP 4313 Symbolic Computations in Mathematics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Semester 6**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STA 4442 Introduction to Probability</td>
<td>3</td>
</tr>
</tbody>
</table>

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 QMB 2111 STA 2023
PHY 2020 QMB 3200 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

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 2045 General Chemistry I Lab 1
   CHM 2046 General Chemistry II Lab 1
   CHM 2200 Organic Chemistry 4
   CHM 4410 Physical Chemistry I 3
   CHM 4411 Physical Chemistry II 3
   Or
   CHM 3120C Elementary Analytic 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 3.5 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 the university’s entering freshman requirements
3. unless prior approval is secured.
4. completion of MAT 4970, Mathematics Senior Thesis,
5. at least a 3.0 average for all courses, and
6. at least a 3.5 average for mathematics courses.

Prerequisites (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 entrance 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++)
MACX311 Calculus I
MACX312 Calculus II
MACX313 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, 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. 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.

Prerequisites (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 entrance 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 another institution in Florida or at USF. Courses available at USF are indicated with an asterisk.

1) General Biology I with lab
   (e.g. BSC 1010, 1010L; BSC 2010, 2010L*) (4)
2) Human Anatomy and Physiology I with lab
   (e.g. BSC 1085, 1085L) and
   Human Anatomy and Physiology II with lab
   (e.g. BSC 1086, 1086L) or
   Human Physiology with lab
   (e.g. PCB 4703C; BSC 3092*) and one of the following options:
   General Biology II with lab
   (e.g. BSC 1011, 1011L; BSC 2011, 2011L*) (4)
   or
   Genetics with lab
   (e.g. PCB 3063, 3063L*) (4)
   or
   Cell Biology with lab
   (e.g. PCB 3023, 3023L*) (4)
   or
   Human Anatomy with lab
   (e.g. BSC 1095, 1095L; ZOO 3733C) (4)
3) General Microbiology with lab
   (e.g. MCB 2010, 2010L; MCB 3030C*) (4)
4) General Chemistry I & II with labs
   (e.g. CHM 1045, 1045L, 1046, 1046L; CHM 2041, 2041L, 2046, 2046L*) (8)
5) Organic Chemistry I with lab
   (e.g. CHM 2210, 2210L*) (4-5)
6) Organic Chemistry II with lab
   (e.g. CHM 2211, 2211L*) (4-5)
   or
   Quantitative Analysis
   (e.g. CHM 2120C; CHM 3120C*) (4)
7) Statistics
   (e.g. STA 2023*) (3-4)

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 of 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
PHILOSOPHY (PHI)

- Requirements for the Major in Philosophy
  Majors in philosophy must complete at least 30 credit hours made up as follows:
  a. PHH 3062 History of Philosophy: Ancient and Medieval
  b. PHH 3420 History of Philosophy: Modern
  c. PHI 2100 Introduction to Formal Logic
  or
  PHI 5135 Symbolic Logic
  d. At least one of the following:
     PHI 4320 Philosophy of Mind
  e. 6 credit hours of 4000 or 5000 level Philosophy courses
  f. 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
  PHI 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:

1. 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.
2. Students must have an overall grade point average of 3.0, and their grade point average in Philosophy must be at least 3.5.
3. 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:

a. students must take either PHH 4440 Continental Philosophy or PHH 4600 Contemporary Philosophy
b. 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
   PMH 3021 Philosophies of Love and Sex
   PMH 3400 Introduction to Philosophy of Law
   Group 3
   PMH 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 4100 Aristotle
   PHP 4410 Kant
   PHP 4740 The Rationalists
   PHP 4745 Empiricists

(c) Students must take an Honors Seminar in their senior year.
(d) 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.
(e) Students cannot receive a grade lower than a "B" in any Philosophy course, and their grade point average in Philosophy must be at least 3.5 to remain, or be graduated from the Philosophy Honors program.
(f) Students must complete 35 credit hours in Philosophy, including the 3-hour thesis course and the 3-hour Honors Seminar.

Prerequisites (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 undergraduate programs leading to a Bachelor of Arts (B.A.) or a Bachelor of Science (B.A.) degree. The B.A. program is designed for students interested in a more general education in physics.
The curriculum allows enough flexibility in electives to enable students to combine a physics major with another major in such areas as mathematics, biology, chemistry, computer science, engineering, business, and teacher education. The B.S. program is for students planning to pursue graduate studies in physics, applied science or engineering. For those students who desire additional capabilities in physics beyond the General Physics sequence, they may pursue a Minor in Physics.

At the graduate level, the Department of Physics offers three Master's degrees, the Master of Science in Physics, the Master of Science in Applied Physics and the Dual-Master Degrees in Physics and Engineering Science. A Ph.D. program in Applied Mathematics or Engineering Science with an emphasis in Applied Physics is conducted in collaboration with the Department of Mathematics and with the College of Engineering.

- **Requirements for the Majors in Physics**

  1. **Physics Courses**
     - **B.A. PHYSICS (PHY)** (34 cr. hrs.)
     - PHY 2048: (3) PHY 3221: (3) PHY 4324: (4)
     - PHY 2048c- (1) PHY 3323C: (4) PHY 4823L: (2)
     - PHY 2049: (3) PHY 3822L: (2) PHY 4910: (1-4)
     - PHY 2049L: (1) PHY 4222: (3) PHY 4930: (1)

  2. **B.S. PHYSICS (PHS)** (44 cr. hrs.)
     - PHY 2048: (3) PHY 3323C: (4) PHY 4604: (3)
     - PHY 2048c- (1) PHY 3424: (4) PHY 4823L: (2)
     - PHY 2049: (3) PHY Y 3822L: (2) PHY 4910: (1-4)
     - PHY 2049L: (1) PHY 4222: (3) PHY 4930: (1)
     - PHY 3101: (3) PHY 4324C: (4) PHZ 5405: (3)
     - PHY 3221: (3) PHY 4523: (3)

  3. **Liberal Arts Requirements**
     - [General Education Requirements (36 cr. hrs.)](#);
     - [Exit Requirements (9 cr. hrs.)](#)

  4. **Free Electives**

  5. **Residency Requirement**

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

- **Requirements for the Minor in Physics**

  The minor in Physics is open to students with majors in the sciences, engineering and mathematics. A minor in Physics consists of 19 credit hours, which include, PHY 2048 (3), PHY 2048L (1), PHY 2049 (3), PHY 2049L (1), PHY 3101 (3), PHY 3822L (2), and two electives from the approved Physics courses.

- **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.

- **Prerequisites (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 while still 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.

  - **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 natural 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 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:

    1. 2000/3000 Level Requirement (6 semester hours)
    2. Methods Course Requirement (7 semester hours)
    3. 4000 Level Requirement (21 semester hours)

  - **General Education Requirements**

    Successful completion of: PSY 3044 (3 semester hours) and one of the following:
    - **CLP 4433** PSY 4205 or another methods course approved by the undergrad­uate advisor in Psychology.
    - **SOP 3742**
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.edu/center/rehab/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 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,
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:
1. to provide for the social work human resources needs of the University service district (the central Florida west coast area), the State of Florida, and the Southeast Region;
2. to prepare graduates for additional professional training at the graduate level in social work or in related human service professions;
3. to provide an exposure to social work as a profession and to contemporary issues in the social welfare field.

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 set beyond that of 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, organizations, or communities. 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 maintenance 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.
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, ie., 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.
7. 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 Government
  - 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 Sociology
  - 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
   - Africans 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
   - 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)
  1. Human Behavior and Social Environment Courses
     SOW 3101 (4)  SOW 3102 (4)
  2. Social Welfare: Policy & Program Course
     SOW 4233 (4)
  3. Social Research Course
     SOW 3401 (4)
  4. Social Work Practice Courses
     SOW 4341 (5)  SOW 4343 (5)
  5. Directed Field Experience
     SOW 4510 (3)  SOW 4510L (6)
  6. Multi-cultural America
     SOW 4522 (3)

Summary:
- Core Courses 29 hours
- Field Experience 9 hours
- TOTAL 38 hours

Prerequisites (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 admission to the Social Work major is considered. Unless stated otherwise, a grade of "C" is the minimum acceptable grade in these 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.

Cross-cultural issues, 3 semester hours.
SOW 3302 Introduction to Social Work, minimum grade = B.
SOW 3203 American Social Welfare, minimum grade = B.

**SOCILOGY (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 who are college graduates 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):

- SYG 2000 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 or 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 SYA 4940 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; SYA 4911 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.

**Undergraduate Honors Program in Sociology**

The purpose of the Honors Program in Sociology is to provide exceptional undergraduates with advanced, individualized training in research and writing, as well as more direct contact with faculty mentors. Students in the Honors Program can expect more intensive work and greater challenges than sociology students in the senior year ordinarily face; yet, students are not admitted to the program without the confidence of faculty in the student's abilities to complete the Program. The rewards upon successful completion of the program will include: 1) advanced training in research design, data collection, analysis, and scholarly writing; 2) experiences beyond those normally given to sociology majors; 3) Assuming the student is in good standing at the time of application to graduate school, a letter from the Honors Program director outlining the Program's requirements and special features will be sent to each graduate program to which s/he applies; 4) Upon successful completion of the Honors Program requirements, the student's transcript will state that the student graduated with Honors in Sociology.

**I. Requirements for Admission**

A) Completion of the following courses by the end of the Semester II of the junior year with a Grade point Average of at least 3.5
- SYG 2000 Introduction to Sociology
- SYA 3010 Classical Theory
- SYA 3300 Research Methods

B) An overall Grade Point Average of 3.2 or higher.

C) Completion of at least 72 semester hours by the start of the program in Semester I.

D) At least one course in the substantive area of the student's preliminary research interests, by the time of or during Semester I of the program. If during Semester I, the student must have documentation that the course will be offered at the 3000, 4000, or 5000 level, and that he/she will be able to enroll in the class. If at all possible, this course should be in Sociology, although, in some instances, a course outside the department may be approved by the director.

E) Tentative agreement by a faculty member to serve as chair of the thesis committee. This faculty member should indicate her/his willingness in a letter of recommendation to the director of the Honors Program.

Successful completion of the Honors Program requires completion of the Sociology program with a GPA of 3.5 or better, completion of Honors Seminar and Honors Colloquium, and completion of Honors Thesis. See Sociology Undergraduate Advisor for more information.
Prerequisites (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 5934 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

Prerequisites (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 honoray 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 graduates 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.

**HOSA**-Health Occupations Students of America (HOSA) is a national organization which supplements and compliments the health education curriculum. HOSA develops the whole person, not just job-specific skills. HOSA's purpose is to foster leadership skills, communication skills and other occupational competencies and social skills that will lead to a successful career in the health field.

**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 stu-
dents an opportunity to learn more about the profession of
optometry and to meet other students interested in the profes-
sion. Any interested student is invited to join.

Preveterinary Society - USF Preveterinary Society provides
fellowship and exchange among students interested in vet-
ery 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 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 net-
working 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. Chaeqbulam, L. W.
Morehouse, P. J. Collins, K. Davis, S. Garcia, Mitchell, J. B.
Moore, H. Regis, A. A. Smith, S. M. D. Stamps, D. Thomas, B.
Townsend, K. Vaz, K. Wiriedu.

Anthropology
Chairperson: L. M. Whiteford; Distinguished Service Profes-
sor: A. W. Wolfe; Professors: M. V. Angrosino, G. Kusheer, L.
M. Whiteford, C. W. Wienen; Associate Professors: R. D. Baer,
S. D. Greenbaum, L. Madrigal, J. J. Smith, N. M. White;
Assistant Professors: C. T. Ho, N. Romero-Daza, R. H. Tykot,
B. R. Weissman, K. A. Yeheling; Courtesy Faculty: J. Correll,
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), R. Wheeler (BIS Social & Behav-
ioral Sciences).

Biology
Chairperson: J. T. Romeo, Distinguished Research Profes-
sors: C. J. Dawes, G. E. Wolfenden; 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. M. Mansell, E. D. McCoy,
TeStrake, R. P. Wunderlin; Associate Professors: B. J.
Cochrane, 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, N. Hallquist-Hulse, S. A.
Karl, M. Kimble, C. Pomory, M. B. Rogers; Lecturer: J. E1-Rady.

Chemistry
Chairperson: J. C. Davis, Jr.; Distinguished Research Profes-
sors: R. M. Castle, B. Stevens; Distinguished Service Profes-
sor: D. F. Martin; Professors: J. S. Binford, Jr., R. S. Braman, J.
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. Werrell; Associate Professors: L. J.
Ming, R. L. Potter, J. A. Stanko, E. Tuos, J. E. Weinzierl, G. R.
Weniger; Assistant Professors: L. Cartacci, J. Harmon, K. W.
Jung, A. Mallik, J. Robert; Adjunct Faculty: J. A. Bartrop, R.
Benson, J. W. Palmer; Courtesy Faculty: M. Ben, R. Conan, P.

Communication
Chairperson: E. Eisenberg; Professors: A. P. Bochner, K. N.
Cisna, E. M. Eisenberg, C. S. Ellis, L. S. Pettigrew, R. J.
Schneider; Associate Professor: B. F. Downs; J. J. Jabinowski,
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. Crittenchen, T. Hnath-Chisolm; Assistant
Professor: R. Huntley Bahr, T. Champion; Instructors: L. Bess,
P. Blake-Rahter, P. Carr, L. Carrera, W. Clements, W. Collins,
S. Diehl, C. Fernandez, C. Ford, S. Graham, M. L. Humphrey,
E. Kaplon, V. Laughlin, N. Patterson, K. Smith, K. Richardson,
M. J. Witten.

Community Experiential Learning
Coordinator: R. R. Jones.

Criminology
Chairperson: J. W. Rowe, Jr.; Professors: D. M. Bellante, T. D.
Curtis, J. S. DeSalvo, K. Giymah-Brempong, J. S. Hodgson,
M. G. Herander, P. K. Porter, J. W. Rowe, Jr., E. W. Shows;
Professors Emeriti: G. Brunshild, W. J. Herman; Associate
Professors: J. P. Cooke, E. J. Ford, C. A. Green, E. A. Hanni,
J. G. Spence, C. R. Thomas, R. M. Wilson; Assistant Profes-
sors: B. Kamp, G. Picone, J. Racine, J. Swinton; Lecturers: S.
Bartlett, S. Brandmeyer.

Economics
Chairperson: J. W. Rowe, Jr.; Professors: D. M. Bellante, T. D.
Curtis, J. S. DeSalvo, K. Giymah-Brempong, J. S. Hodgson,
M. G. Herander, P. K. Porter, J. W. Rowe, Jr., E. W. Shows;
Professors Emeriti: G. Brunshild, W. J. Herman; Associate
Professors: J. P. Cooke, E. J. Ford, C. A. Green, E. A. Hanni,
J. G. Spence, C. R. Thomas, R. M. Wilson; Assistant Profes-
sors: B. Kamp, G. Picone, J. Racine, J. Swinton; Lecturers: S.
Bartlett, S. Brandmeyer.

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 (Emeritus), I. Deer (Emeritus), R. F. Dietrich, F. J.
Fardy, S. R. Fiore, W. Garrett (Emeritus), J. S. Hatcher, E. F.
Henley, E. W. Hirshberg (Emeritus), J. J. Iorio (Emeritus), D.
L. Kaufmann, J. B. Moore, W. E. Morris, J. M. Moxy, G. A. Olson,
AFS 3251 ENVIRONMENTAL-CULTURAL STUDY
IN AFRICA - SS - AF - FA
PR: AFS 2250 or CI. 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 3574 AFRICAN AMERICAN HISTORY TO 1865 - HP
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
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
PR: ANT 3410 or CI. Main themes include the depopulation of the aboriginal population and the resettlement of the area via slavery, indigence, 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 studied. (Also offered under American Studies.)

ANT 3325 THE CARIBBEAN - 6A - XMW
PR: ANT 3410 or CI. Main themes include the depopulation of the aboriginal population and the resettlement of the area via slavery, indigence, 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 studied. (Also offered under Anthropology.)

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

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

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

INR 4254 AFRICA IN WORLD AFFAIRS - XMW
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 2934 SELECTED TOPICS
PR: CI plus senior standing or graduate status. Interdisciplinary studies with course content dependent on student demand and instructor's interest. May be repeated as topics vary.

PHI 4073 AFRICAN PHILOSOPHY - 6A - XMW
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
Survey of major themes and issues in African/African-American intellectual and political thought with an emphasis on theories of nationalism. Works of individuals such as Martin Delany, Booker T. Washington, W. E. B. DuBois, Marcus Garvey, Malcolm X, and Angela Davis are considered.

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

SPC 3712 COMMUNICATION AND CULTURAL DIVERSITY - SS
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
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
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
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
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
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
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
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
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 Cl. 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 4143 FANTASTIC ARCHAEOLOGY: MYSTERIES OF THE HUMAN PAST (3) Mysteries of the human past, including the Lost Continent of Atlantis, Ancient Astronauts, the "Myth" of the Moundbuilders, and the Shroud of Turin will be discussed in detail in this course. The practice of archaeology and how we know the past will also be presented, and skills in critical thinking will be emphasized.

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

ANT 4156 FLORIDA ARCHAEOLOGY (4) PR: ANT 3100 or Cl. 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 Cl. Describes and analyzes the sequence of cultural development in prehistoric South America. Cultures such as the Inca, Chavin, Mochica, Wari, Chimú are included. Emphasis on the environmental setting and the relationship between cultural ecology and the growth of civilization.

ANT 4163 MESOAMERICAN ARCHAEOLOGY (3) PR: ANT 3100 or Cl. The chronological sequence from its beginnings through 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 Cl. A survey of the historical 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 Cl. 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 Cl. 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 4225 ANTHROPOLOGY OF ART -6A (3) PR: ANT 2410 or Cl. An examination of the relationships 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 Cl. 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 4234 MAGIC AND RELIGION -6A -XMW (3) PR: ANT 2410 or Cl. 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 and economic aspect of peoples' lives.

ANT 4302 GENDER IN CROSS-CULTURAL PERSPECTIVES -XMW (3) PR: ANT 2410 or Cl. Focuses on various theories, models and beliefs about male-female behaviors and interactions in human cultures throughout history and in various societies in the world today. (Also offered under Women's Studies.)

ANT 4305 VISUAL ANTHROPOLOGY (3) PR: ANT 2410 or Cl. The use of photographic techniques for the crosscultural recording and analysis of human activities. The study of ethnographic photography as both art and science, and the production of an anthropological study that expresses the 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 Cl. An examination of the evidence for the origin and antiquity of human beings in North America and 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 Cl. Special concerns include ethnic diversity in American society, historical and contemporary diversity in values, experiences, and lifestyles, and an examination of policies and problems affecting ethnic groups in the United States.

ANT 4324 MEXICO AND CENTRAL AMERICA -XMW (3) PR: ANT 2410 or Cl. Focuses on the history, contemporary values and interpersonal relationships, and patterns of rural and urban life in Mesoamerica. Guatemala and Mexico are emphasized.

ANT 4340 THE CARIBBEAN -6A -XMW (3) PR: ANT 2410 or Cl. Main themes include: the depopulation of the aboriginal population and the resettlement of the area via slavery, indenture, and migration; contemporary ethnic heterogeneity; economic problems of Third World microstates; development of 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 4401 EXPLORING CROSS-CULTURAL DIVERSITY (3) this course will introduce students to anthropological perspectives which are useful in understanding the implications of cultural diversity related to changing demographic patterns within our country as well as to increasing global interdependence.

ANT 4432 THE INDIVIDUAL AND CULTURE -6A -XMW (3) PR: ANT 2410 or Cl. The relationship between the individual and society is studied crossculturally. Main themes include child-rearing practices, psychosomatic illness and curing. Discussion of theories and models of personality development with special reference to their applicability to the emerging field of cross-cultural mental health planning.

ANT 4442 URBAN LIFE AND CULTURE (3) PR: ANT 2410 or Cl. The crosscultural study of urbanization, urbanism and human problems associated with metropolitan environments. Emphasis on the ethnography of city life and its relationship to the practical applications of urban research.
ANT 4462 HEALTH, ILLNESS, AND CULTURE (3)
PR: ANT 2410 or Cl. The study of health and human behavior in crosscultural perspective. Main themes include: the impact of disease on the development of human culture; comparative studies of curing practices; medical systems in their relationship to ideology. Emphasis on understanding human and the behavior of both practitioners and patients in modern societies.

ANT 4495 METHODS IN CULTURAL RESEARCH (3)
PR: Cl. The stages in the development and execution of ethnological research are discussed and practiced. Literature search, hypothesis formation, selection of data collection techniques, elicitation of data, analysis, and report presentation are studied. 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)
PR: ANT 3511 or Cl. 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 Cl. 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 Cl. 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 Cl. An overview of evolution and biological variations of human races. Anatomical, morphological, and physiological patterns are surveyed geo graphically. Cultural influences on racial biology are explored.

ANT 4620 LANGUAGE AND CULTURE -6A (3)
PR: ANT 3610 or Cl. 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 Cl. 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 Cl. 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: Cl. 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: Cl. Individual guidance in a selected research project. Contract required prior to registration. (S/U only.)

ANT 4930 SPECIAL TOPICS IN ANTHROPOLOGY (3)
PR: Cl. Topics chosen by students and instructor permitting newly developing subdisciplinary 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 Cl. 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 relationship 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 Cl. 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: Cl. 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: Cl. 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 Cl. 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, extraterrestrial life, interacting galaxies, cosmology.

AST 3044 ARGARHEOASTRONOMY (3)
PR: Jr. or Sr. Standing or Cl. 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, the Egyptians. Lec.-lab.

AST 3562 NAVIGATION (3)
PR: Some knowledge of geometry, algebra, and trigonometry. Timekeeping, use of sextant, constellations, celestial navigation with minimum equipment, spherical astronomy.

AST 3593 SELECTED TOPICS IN ASTRONOMY (1-4)
PR: Cl. Course content dependent upon the interest of the faculty member and student demand. May be repeated to 8 credit hours.

AST 5506 INTRODUCTION TO CELESTIAL MECHANICS (3)
PR: MAC 2313 or MAC 2283 and some knowledge of
differential equations, or Cl. 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 Cl. 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 Cl (S/U only)

**IDS 4990 BIS INTER-AREA STUDIES** (30)
PR: ISS 4990, ISS 4939, ISC 4993, 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 ISS 4909 or Cl (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 Cl (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. Students who attempt higher-level courses too early may not do well in them.

**BOT 3373C VASCULAR PLANTS: FORM AND FUNCTION** (4)

**BOT 3850C MEDICAL BOTANY** (3)
PR: BSC 2011, 2011L, CHM 2210, 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 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 MYCOCOLOGY** (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)

**BOT 4503L PLANT PHYSIOLOGY LABORATORY** (1)
CR/PR: BOT 4503. Laboratory portion of Plant Physiology. Lec-lab.

**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 5145C 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)

**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)

**BSC 2011L BIOLOGY II-DIVERSITY LABORATORY** (1)

**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 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 scientific 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. (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 Honors students. S/U only.

**BSC 4850 SOCIOBIOLOGY -XMW** (3)
An analysis of Animal and human behavior such as sex, territoriality, and aggression in the context of evolution. May be taken by majors for free elective credit only.
MB 5815 MEDICAL MYCOLOGY
PR: MCB 3030C 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
PR: PCB 2010, BSC 2010L, BSC 2011, BSC 2011L, and CHM 2046. A discussion of the concept and significance of the cell to biology; and the interrelationships of molecular processes within the cell; cellular energy conversion systems; and control of cellular metabolism. Lec.

PCB 3023L CELL BIOLOGY LABORATORY
CR/PR: PCB 3023. Laboratory portion of Cell Biology.

PCB 3043 PRINCIPLES OF ECOLOGY
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 3063L ECOLOGY LABORATORY

PCB 3063 GENERAL GENETICS

PCB 3063L GENETICS LABORATORY
CR/PR: PCB 3063. Laboratory portion of General Genetics.

PCB 4064C EXPERIMENTAL GENETICS
PR: PCB 3063. Experimental analysis of genetic systems. Lec/lab.

PCB 4253 DEVELOPMENTAL BIOLOGY
PR: PCB 3023. Topics in modern developmental biology to gain a working knowledge and understanding of the cellular and molecular mechanisms of cell differentiation and growth in both plants and animals. Lec.

PCB 4674 ORGANIC EVOLUTION

PCB 4723 ANIMAL PHYSIOLOGY
PR: PCB 3043 or PCB 3063. Advanced presentation of mechanisms employed by animals to interact with their environments and to maintain their organization. Lec.

PCB 4723L ANIMAL PHYSIOLOGY LABORATORY
CR/PR: PCB 4723. Laboratory portion of Animal Physiology.

PCB 5315 PRINCIPLES OF IMMUNOLOGY
PR: PCB 3023 or CI. Course will emphasize the basic cellular and molecular mechanisms involved in the vertebrate immune response. Lec.

PCB 5306 LIMNOLOGY
PR: PCB 3043, CHM 2046, and PHY 2053. An introduction to the physical, chemical, and biological nature of freshwater environments. Lec.

PCB 5306L LIMNOLOGY LABORATORY
CR/PR: PCB 5306. Laboratory portion of Limnology.

PCB 5415 BEHAVIORAL ECOLOGY
PR: PCB 4674. An emphasis on the evolutionary mechanisms that influence an organism’s behavioral responses to environmental events. The theoretical framework is presented and analyzed. Lec.

PCB 5525 MOLECULAR GENETICS
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 5645 PRINCIPLES OF NEUROSCIENCE
PR: PCB 4723 or CI. Study of the mammalian brain’s structure and function with an emphasis on the neu-
roanatomy, neuropharmacology, and neurophysiology of the human brain. Lec.

ZOO 3205 ADVANCED 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 3205L ADVANCED INVERTEBRATE ZOOLOGY LABORATORY (1)
CR/PR: ZOO 3205. Laboratory portion of Invertebrate Zoology.

ZOO 3303 VERTEBRATE ZOOLOGY (3)
The origin, diversity, and adaptations of vertebrates. Phylogenetic systematics (classics) will be used as the basis for determining evolutionary relationships of organisms.

ZOO 3323C ANATOMY OF CHORDATES (4)

ZOO 4513C ANIMAL BEHAVIOR (3)
PR: PCB 3043 or 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)

ZOO 4753C HISTOLOGY (4)
PR: PCB 3023. Comparative approach to the study of tissues and the relation of their structure and function. Lec-

ZOO 5235 PARASITOLOGY (3)
PR: MCB 3030C, ZOO 3205, ZOO 3323C, or ZOO 4753. Fundamentals of animal parasitology and parasitism, the biology of selected animal parasites, including those of major importance to man. Lec.

ZOO 5423C HERPETOLOGY (3)
PR: ZOO 3323C. Major aspects of amphibian and reptilian behavior emphasizing fossil history, evolutionary morphology, sensory physiology, life history and reproductive behavior. Field trip-Lec-lab.

ZOO 5453C Ichthyology (4)
PR: ZOO 3323C and senior standing. PCB 4674 is recommended. Evolution, systematics, structure, behavior, physiology, and ecology of fishes. Lec-lab.

ZOO 5553C MARINE ANIMAL ECOLOGY (4)

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 similar 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 -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 2030 INTRODUCTION TO GENERAL, ORGANIC AND BIOCHEMISTRY (4)
First half of a two-semester sequence. Fundamental concepts of general, organic, and biological chemistry. No credit for science majors.

CHM 2045 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)

CHM 2210 ORGANIC CHEMISTRY I (3)
PR: CHM 2046, CHM 2046L. Fundamental principles of organic chemistry. Lecture.

CHM 2210L ORGANIC CHEMISTRY LABORATORY I (2)

CHM 2211 ORGANIC CHEMISTRY II (3)
PR: CHM 2210 or equivalent. Continuation of organic chemistry. Lecture.

CHM 2211L ORGANIC CHEMISTRY LABORATORY II (2)
CR: CHM 2211L. Continuation of organic chemistry laboratory.

CHM 2303 SELECTED TOPICS IN CHEMISTRY (1-3)
Topics of interest to students relating to chemistry and other sciences.

CHM 3120C ELEMENTARY ANALYTICAL CHEMISTRY (4)

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, radiocchemistry, 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 3510 INTERMEDIATE INORGANIC CHEMISTRY (3)
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.

CHM 3510L INTERMEDIATE INORGANIC CHEMISTRY LABORATORY (1)
CR: CHM 3510. Illustrative laboratory work concerning the fundamental principles of inorganic chemistry including atomic structure, bonding, transition metal chemistry, structural consequences and spectroscopic methods.
### CHM 4060 USE OF THE CHEMICAL LITERATURE 
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
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 
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 
PR: CHM 4130C. Continuation of CHM 4130C. 

### CHM 4300 BIOMOLECULES I 
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 
PR: CHM 3120C and MAC 2282 or MAC 2312, and PHY 2054 or PHY2049. Thermodynamics, the states of matter, solutions. 

### CHM 4411 PHYSICAL CHEMISTRY II 
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 

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

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

### CHM 4932 SELECTED TOPICS IN CHEMISTRY 
PR: Cl. The course content will depend on the interest of faculty members and student demand. 

### CHM 4970 UNDERGRADUATE RESEARCH 
PR: Cl. (S/U only) 

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

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

### CHM 5452 POLYMER CHEMISTRY 
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 
PR: CHM 4411 or Cl. Chemical forces, reactivity, periodicity, and literature in inorganic chemistry; basic core course. Lec. 

### CHM 5931 SPECIAL TOPICS IN CHEMISTRY 
PR: Cl. The following courses are representative of those that are taught under this title: Natural Products, Stereochemistry, Reactive Intermediates, Photochemistry, Instrumental Electronics, Advanced Lab Techniques, Heterocyclic Chemistry, etc. 

### CHS 4100C NUCLEAR CHEMISTRY 
PR: CHM 3120C. Theory and application of natural and induced radioactivity. Emphasis on the production, properties, measurement, and uses of radioactive tracers. 

### CHS 4300 FUNDAMENTALS OF CLINICAL CHEMISTRY 
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 
PR: BCH 3033 and Cl, 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 
PR: Cl. Laboratory practice in clinical chemistry laboratories in the Tampa Bay area. (S/U only) 

### CHS 4310C INSTRUMENTAL ANALYSIS 
PR: CHM 4412 or Cl. Theory and practice of instrumental methods of chemical analysis. Lec.-lab. 

### Classics 

#### CLA 3103 GREEK CIVILIZATION - HP 
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 
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 
A course in the Greek and Latin word elements used in science and technology. 

#### CLT 3101 GREEK LITERATURE IN TRANSLATION - 6A - XMW 
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 
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 
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 
An introductory course in classical Greek grammar with appropriate readings. 

#### GRE 1121 BEGINNING CLASSICAL GREEK II 
PR: GRE 1120 or equivalent. An introductory course in classical Greek grammar with appropriate readings. 

#### GRE 2200 INTERMEDIATE CLASSICAL GREEK 
PR: GRE 1121 or equivalent. Readings in Greek at an intermediate level. 

#### GRW 4905 DIRECTED READING 
Departmental approval required. 

#### GRW 5905 DIRECTED READING 
Departmental approval required. 

#### GRW 5934 SELECTED TOPICS 
Study of an author, movement or theme. May be repeated up to 12 credit hours. 

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**USF**
COM 3110 COMMUNICATION FOR BUSINESS
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 4670 OVID (4)
COM 3120 INTRODUCTION TO COMMUNICATION (3)
PR: Communication major, minimum GPA 3.0, or instructor permission. An introductory course in human communication; emphasis on improving speaking and listening skills and an understanding of the factors influencing communication processes. Cross-listed with ORI 3950.
COM 4710 WRITING LIVES -6A (3)
PR: Junior/Senior standing or C. Designed to develop proficiency in the understanding and oral communication of literary and other written materials. Weekly seminar sessions augment intern experience. Application for seminar must be submitted one semester prior to seminar offering.
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 C. Required of Communication majors. Rpt. up to 12 hours as topics vary.
ORI 2000 INTRODUCTION TO COMMUNICATION AS PERFORMANCE (3)
PR: Junior/Senior standing. Required of Communication majors. Rpt. up to 12 hours as topics vary.
ORI 3950 COMMUNICATION AS PERFORMANCE LAB (3)
PR: ORI 2000 or C. The study, rehearsal, and performance of literary and other written materials. May be repeated (maximum total six hours).
ORI 4120 PERFORMANCE OF POETRY (3)
PR: ORI 2000 or C. Designed to introduce the student to and give experience in various forms of group approaches to performance.
ORI 4931 PERFORMANCE AND VIDEO (3)
SPC 2660 PUBLIC SPEAKING -6S (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 -6S (3)
PR: Junior standing or C. Focus on 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.

Communication
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 hearings. Note: For non-majors only.
COM 3120 INTRODUCTION TO COMMUNICATION THEORY IN ORGANIZATIONS (3)
PR: majors, COM 2000 or C; non-majors, COM 3122 or COM 3110 or C. 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 intervention. Students must sign up for a one-hour lab and the lecture.
COM 3121 INTERVIEW COMMUNICATION LAB (0)
Interview laboratory for practice and individual consultation. Students must take this course in conjunction with the lecture COM 3122. Open to majors and non-majors. Not repeatable.
COM 4027 COMMUNICATING ILLNESS, GRIEF, AND LOSS -6A (3)
PR: Junior/Senior standing or C. Focus on the role of communication in contexts of grief and loss. Rpt. up to 12 hours as topics vary.
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 4124 COMMUNICATION AND ORGANIZATIONAL CHANGE (3)
PR: Communication major, minimum GPA 3.0. 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 4710 WRITING LIVES -6A (3)
PR: Junior/Senior standing or C. Designed to develop proficiency in the understanding and oral communication of literary and other written materials. 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)
PR: Communication major, minimum GPA 3.0, 75 hours completed, 15 hours of core requirements, and 9 elective hours completed, and C. Required of Communication majors. Rpt. up to 12 hours as topics vary.
ORI 3950 COMMUNICATION AS PERFORMANCE LAB (3)
PR: ORI 2000 or C. The study, rehearsal, and performance of literary and other written materials. May be repeated (maximum total six hours).
ORI 4120 PERFORMANCE OF POETRY (3)
PR: ORI 2000 or C. Designed to introduce the student to and give experience in various forms of group approaches to performance.
ORI 4931 PERFORMANCE AND VIDEO (3)
SPC 2660 PUBLIC SPEAKING -6S (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 -6S (3)
PR: Junior standing or C. Focus on 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 C. Designed to develop proficiency in the understanding and oral communication of literary and other written materials. Weekly seminar sessions augment intern experience. Application for seminar must be submitted one semester prior to seminar offering.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPC 3230</td>
<td>RHETORICAL THEORY -HP</td>
<td>3</td>
<td>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.</td>
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<tr>
<td>SPC 3301</td>
<td>INTERPERSONAL COMMUNICATION -SS</td>
<td>3</td>
<td>A study of interpersonal communication in informally structured settings with emphasis on the understanding, description, and analysis of human communication.</td>
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<tr>
<td>SPC 3441</td>
<td>GROUP COMMUNICATION -8A</td>
<td>3</td>
<td>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.</td>
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<tr>
<td>SPC 3513</td>
<td>ARGUMENTATION AND DEBATE</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>SPC 3601</td>
<td>ADVANCED PUBLIC SPEAKING</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>SPC 3631</td>
<td>RHETORIC OF THE SIXTIES -HP</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>SPC 3653</td>
<td>POPULAR FORMS OF PUBLIC COMMUNICATION</td>
<td>3</td>
<td>PR: Junior standing or CI. Analysis of public communication with emphasis on various presentational forms.</td>
</tr>
<tr>
<td>SPC 3681</td>
<td>RHETORICAL ANALYSIS</td>
<td>3</td>
<td>This course introduces students to fundamentals of message analysis. Student examines persuasive strategies and language in oral and written discourse (not repeatable).</td>
</tr>
<tr>
<td>SPC 3712</td>
<td>COMMUNICATION AND CULTURAL DIVERSITY -SS</td>
<td>3</td>
<td>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.)</td>
</tr>
<tr>
<td>SPC 4201</td>
<td>ORAL TRADITION -XMW</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>SPC 4305</td>
<td>COMMUNICATING EMOTIONS -6A</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>SPC 4310</td>
<td>RELATIONSHIPS ON FILM</td>
<td>3</td>
<td>Examination of the ways in which cinema inscribes conceptions and meanings of romance, love, intimacy and sexuality. Focus on systems of interpretation fostered by cinematic representations of intimacy, sexuality, emotionality, subjectivity, and betrayal.</td>
</tr>
<tr>
<td>SPC 4431</td>
<td>FAMILY COMMUNICATION</td>
<td>3</td>
<td>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 family fiction and cinema.</td>
</tr>
<tr>
<td>SPC 4632</td>
<td>RHETORIC OF SOCIAL CHANGE</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>SPC 4680</td>
<td>HISTORY AND CRITICISM OF PUBLIC ADDRESS</td>
<td>3</td>
<td>PR: SPC 3601 or CI. The principles of rhetorical criticism applied to selected great speeches of Western Civilization.</td>
</tr>
<tr>
<td>SPC 4683</td>
<td>RHETORICAL ANALYSIS OF MASS MEDIA</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>SPC 4714</td>
<td>COMMUNICATION, CULTURE AND COMMUNITY -XMW</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>SPC 4900</td>
<td>DIRECTED READINGS</td>
<td>1-3</td>
<td>PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and CI. Maximum 6 hours.</td>
</tr>
<tr>
<td>SPC 4903</td>
<td>HONORS READINGS</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>SPC 4905</td>
<td>UNDERGRADUATE RESEARCH</td>
<td>1-3</td>
<td>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.</td>
</tr>
<tr>
<td>SPC 4930</td>
<td>SELECTED TOPICS</td>
<td>1-3</td>
<td>PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and CI. May be repeated.</td>
</tr>
<tr>
<td>SPC 4932</td>
<td>SENIOR SEMINAR IN COMMUNICATION</td>
<td>3</td>
<td>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. Course is repeatable to a maximum of 6 hours including first registration.</td>
</tr>
<tr>
<td>SPC 4970</td>
<td>HONORS THESIS</td>
<td>3</td>
<td>PR: Admission to Communication Honors Program. Involves individual research and preparation of an undergraduate honors thesis. May be repeated up to six credit hours.</td>
</tr>
<tr>
<td>SPC 5930</td>
<td>TOPICS IN DISCUSSION</td>
<td>3</td>
<td>Variable topics course. Rpt. up to 12 hours.</td>
</tr>
</tbody>
</table>

**Communication Sciences and Disorders**

**SPA 3001 INTRODUCTION TO INTERPRETING IN PUBLIC SCHOOLS**

PR: Admission to IS1 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 IS1 majors but may be elected by non-majors with the approval of the instructor.

**SPA 3001L INTRODUCTION TO INTERPRETING IN PUBLIC SCHOOLS LAB**

PR: Admission to IS1 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**

PR: Junior standing or 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  
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  
PR: Admission to ISI Program. CR: SPA 3003. An exploration 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. This course may be repeated for up to 2 credits.

SPA 3004 INTRODUCTION TO LANGUAGE DEVELOPMENT AND DISORDERS  
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 3101 INTRODUCTION TO SPEECH SCIENCE  
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 3112 APPLIED PHONETICS IN COMMUNICATION DISORDERS  
PR: Junior standing and CI. Introduction to phonetic analysis of normal and disordered speech, including extensive training in transcription using the International Phonetic Alphabet.

SPA 3310 INTRODUCTION TO DISORDERS OF HEARING  
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 3390 BASIC AMERICAN SIGN LANGUAGE  
PR: CI. Introduction to American Sign Language (ASL) as used in the deaf community. General discussion of ASL structure and introduction to various manual communication systems and philosophies. Emphasis on building a basic vocabulary. One hour laboratory work is included. Open to all majors.

SPA 4000 COMMUNICATION DISORDERS IN THE PUBLIC SCHOOLS  
PR: CI. An examination of the speech, language and hearing problems affecting school-age children and the classroom teacher's role in the detection, prevention and amelioration of communication disorders. (Non-major course only).

SPA 4050 INTRODUCTION TO THE CLINICAL PROCESS - CRM  
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  
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  
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  
PR: SPA 4210. 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 4311 FUNDAMENTALS OF FINGERSPELLING  
PR: CI. A concentrated study of technique in fingerspelling emphasizing clarity and rhythm in expression as well as receptive understanding.

SPA 4322 STRUCTURE OF AMERICAN SIGN LANGUAGE  
PR: CI. Semiotic and linguistic consideration of American Sign Language (ASL). Includes aspects of phonology, syntax, semantics, and discourse in ASL.

SPA 4335 SIGN LANGUAGE CODES  
PR: CI. A review of the sign systems (SEE I, SEE II, L.O.V.E., and Signed English) used to code messages through the use of sign. The student will have the opportunity to practice one of the sign systems.

SPA 4363 NATURE AND NEEDS OF THE DEAF AND HARD OF HEARING  
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  
PR: Admission to ISI Program. This course provides the student with a review 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  
PR: SPA 3380 and CI. A continuation of the basic course which expands the student's signing skills and introduces American Sign Language (ASL) idioms. Provides a greater opportunity for skill development in ASL structure and idiomatic usage. One hour laboratory course work is included.

SPA 4383 ADVANCED AMERICAN SIGN LANGUAGE  
PR: SPA 4382 and CI. A continuation of the study of American Sign Language (ASL) at the advanced skill level. Added emphasis on idioms, body language, and facial expression as an integral part of ASL. One hour laboratory course work is included. Open to all majors.

SPA 4383L AMERICAN SIGN LANGUAGE LABORATORY  
PR: CI. 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  
PR: Admission to ISI Program. CR: SPA 4386L. This course provides techniques for interpreting instructional, non-instructional, and informal content in various 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  
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 4366, SPA 4366L. 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 discussions about the overall performance. This course is restricted to majors.

**SPA 4552 COUNSELING OF COMMUNICATIVE HANDICAPPED 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 4570 SELECTED TOPICS (3)**

PR: CI. 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 SPEECH 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 5312PERIPHERAL 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 interactive 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.

**Community Experiential Learning**

**IDS 4910 COMMUNITY RESEARCH (1-4)**

PR: CEL approval. Open to all students approved for CEL. To provide students with community related research experience. Repeatable up to 8 credit hours.

**IDS 4942 COMMUNITY INTERNSHIP (1-4)**

PR: CEL approval. Open to all students approved for CEL. To provide students with community-based internship. S/U only. Repeatable up to 8 credit hours.

**IDS 4955 INTERNATIONAL COMMUNITY RESEARCH (1-4)**

PR: CEL approval. To provide students with an international community related research experience. Repeatable up to 8 credit hours.

**IDS 4956 INTERNATIONAL COMMUNITY INTERNSHIP (1-4)**

PR: CEL approval. Open to all students approved for CEL. To provide students with an international community based internship. S/U only. Repeatable up to 8 credit hours.

**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 3024 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 3711 RESEARCH METHODS IN CRIMINAL JUSTICE (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 3110. The course 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 Cl. Provides a comprehensive examination of the American legal 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 Cl. 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 Cl. 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 Cl. 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 Cl. 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 AND LAW** (3) PR: CCJ 3024 or Cl. Provides students with an introduction to legal and administrative issues in both institutional and community corrections.

**CCJ 4331 ALTERNATIVES TO INCARCERATION** (3) PR: CCJ 3024 or CCJ 3610 or Cl. 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 Cl. 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 Cl. 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 Cl. 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 Cl. 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 Cl. The course provides students with an introduction to the Juvenile Justice system, particularly with the issues on juveniles' rights and the role 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 4544 JUVENILE CORR: CRIMINAL ALTERNATIVES** (3) PR: CCJ 4501 or Cl. 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 Cl. 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 4564 ABNORMAL BEHAVIOR AND CRIMINALITY** (3) PR: CCJ 3610 or Cl. 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 4565 JUVENILE SUBSTANCE USE** PR: CCJ 4501 or Cl. 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 policy.

**CCJ 4700 STATISTICAL RESEARCH METHODS IN CRIMINAL JUSTICE II** (3) PR: CCJ 3024 or CCJ 3610 or Cl. 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: Cl. 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: Cl. 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 Cl.

**CCJ 4934 SEMINAR IN CRIMINOLOGY -SA -XMW** (3) PR: Senior standing and Cl. 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 topics 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 Cl.

*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.

**CJT 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 written work or reading assignments. See requirements for the B.A. degree in Criminal Justice for the number of hours required. (S/U only).

**ECO 3024 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.

**ECO 4011 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.

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**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.)

**ECO 2023 ECONOMIC PRINCIPLES** (MICROECONOMICS) -SS (3)
Introduction to the theory of price determination. (No credit after completing ECO 2023.)

**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 2023 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**
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 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)

**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 4773 INTERNATIONAL COMMERICAL 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 selected by the instructor or instructors on pertinent economic issues.

**ECO 5201 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.

**ECO 5203 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)

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.

ECP 4506 ECONOMICS OF CRIME (3)
PR: ECO 2323. Application of economic theory to the analyses of criminal behavior, crime prevention, law enforcement, sanctions and corrections.

ECS 3013 ECONOMIC DEVELOPMENT (3)
PR: ECO 2013 or CI. Economic development in emerging nations.

ECS 4606 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, Van Wyck Brooks, Henry Miller, and others.

AML 3453 HISTORICAL PERSPECTIVES IN EARLY AMERICAN LITERATURE -HP (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 African 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 taken 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 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.

ENS 110 TECHNICAL WRITING -6A (3)
Effective presentation of technical and semi-technical information.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 3213</td>
<td>PROFESSIONAL WRITING -6A</td>
<td>3</td>
<td>Introduction to the techniques and types of professional writing, including correspondence and reports most often found in business, technical, and scientific communities.</td>
</tr>
<tr>
<td>ENC 3310</td>
<td>EXPOSITORY WRITING -6A</td>
<td>3</td>
<td>A course teaching the techniques for writing effective prose, excluding fiction, in which student essays are extensively critiqued, edited, and discussed in individual sessions with the instructor.</td>
</tr>
<tr>
<td>ENC 4311</td>
<td>ADVANCED WRITING</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>ENL 3273</td>
<td>BRITISH LITERATURE TO 1900</td>
<td>3</td>
<td>A study of 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.</td>
</tr>
<tr>
<td>ENL 4122</td>
<td>BRITISH NOVEL THROUGH HARDY</td>
<td>3</td>
<td>A survey of early and later British novels such as Fielding, Smollett, Sterne, Austen, Scott, Dickens, Eliot, and Hardy, among others.</td>
</tr>
<tr>
<td>ENL 4132</td>
<td>BRITISH NOVEL: CONRAD TO THE PRESENT</td>
<td>3</td>
<td>A 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.</td>
</tr>
<tr>
<td>ENL 4171</td>
<td>HISTORY OF BRITISH DRAMA TO 1912</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>ENL 3311</td>
<td>CHAUCER</td>
<td>3</td>
<td>An intensive study of The Canterbury Tales and major critical concerns.</td>
</tr>
<tr>
<td>ENL 4334</td>
<td>MILTON</td>
<td>3</td>
<td>Study of the poetry and major prose of John Milton, with special emphasis on Paradise Lost.</td>
</tr>
<tr>
<td>LIN 3670</td>
<td>ENGLISH GRAMMAR AND USAGE</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>LIN 4671</td>
<td>TRADITIONAL ENGLISH GRAMMAR</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>LIN 4680</td>
<td>STRUCTURE OF AMERICAN ENGLISH</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>LIT 2000</td>
<td>INTRODUCTION TO LITERATURE -6A -HP</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>LIT 2010</td>
<td>INTRODUCTION TO FICTION -6A -HP</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>LIT 2021</td>
<td>CURRENT SHORT FICTION</td>
<td>3</td>
<td>Traditional and experimental short stories of this generation: such writers as Updike, Malamud, O’Connor, Roth, Barth, Ionesco, and Barthes. Will not be counted toward the English major.</td>
</tr>
</tbody>
</table>
LIT 2030 INTRODUCTION TO POETRY - 6A - HP
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
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 selected 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 2051 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, H. G. Wells, G. K. Chesterton, H. P. Lovecraft, Arthur C. Clarke, among others. Will not be counted toward the English major.

LIT 2331 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 - HP
(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 3040 INTRODUCTION TO DRAMA
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)
A study 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 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 - 6A - HP
(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 3147 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 3311 THE BIBLE AS LITERATURE - XMW
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 - 6A - XMW - XLW
(3)
A survey of feminism, antifeminism, sexual identity, the feminine mystique, stereotyped and liberated female imagery 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 3341 RELIGIOUS AND EXISTENTIAL THEMES
(3)
Theological and philosophical ideas, allusions, and symbols in the literature of such writers as 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
(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. Will not be counted toward the English major.

LIT 4804 LITERATURE AS CULTURAL STUDY - XMW
(3)
The study of literary text as cultural artifacts and the problematics of that literary texts as historical, social, political, psychological, philosophical, religious, etc. documents (or as any one of those). Topics and works vary. Will not be counted toward the English major.

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
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 2881 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 upon the interests of 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 2000 GLOBAL GEOGRAPHY -SS -HP -AF (4) Comparative and analytical representation of 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 3401 GEOGRAPHY OF THE 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) GEA 1930 GEOGRAPHY OF CURRENT EVENTS -SS (4) Application of basic geographic principles of the analysis of contemporary events in various parts of the world.

GEA 2041C MAP INTERPRETATION (4) Analysis and synthesis of various types of maps and map projections.

GEA 2571 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.

GEA 3013 INTRODUCTION TO PHYSICAL GEOGRAPHY (4) Principles and concepts of the discipline; maps, earth-sun relationships, weather, climate, soil, water, and landforms.

GEA 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.

GEA 3422U URBAN GEOGRAPHY (4) PR: GEO 3402 or Cl. Geographic analysis of urban areas; development, site, situation, internal structure, and hinterland are considered.

GEA 3901 ELEMENTS OF GEOGRAPHY (1) Independent study; various topics in physical and cultural geography. (S/U only)

GEA 3931C SELECTED TOPICS (4) PR: GEO 3103. Map compilation and graphic presentation.

GEA 4114C GEOGRAPHIC TECHNIQUES AND METHODOLOGY (4) PR: 12 credit hours in Geography or Cl. Selected topics in various geographic techniques and methodologies and their application.

GEA 4124C AIR PHOTO INTERPRETATION (4) PR: GEO 3013 or Cl. Detection, identification, and analysis of objects on the earth's surface. Techniques other than photogrammetry are also considered.

GEA 4164C QUANTITATIVE METHODS (4) PR: 12 credit hours in Geography or Cl. Statistical analysis in geographic research.

GEA 4201C ADVANCED PHYSICAL GEOGRAPHY (4) PR: GEO 3013 or Cl. Intensive study of a topic selected from physical geography.

GEA 4210C PROCESS GEOGRAPHY (4) PR: GEO 3013 or GLY 2010 or Cl. Origin, evolution, and distribution of the landforms of North America.

GEA 4280C HYDROLOGY (4) PR: GEO 3013 or Cl. Hydrologic cycle; precipitation, evapotranspiration, water budget, streamflow, and probability analysis.

GEA 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.

GEA 4372 GLOBAL CONSERVATION -6A -XMW (4) The distribution, exploitation, and conservation of physical and human resources, ecology.

GEA 4421C CULTURAL GEOGRAPHY (4) PR: GEO 3402 or Cl. 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 SPECIAL INTEREST 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 GEO 3402 or CI. The factors underlying geo-political decisions and influencing their outcome; the geographic consequences of these decisions.

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 is 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 2050 SCIENCE, EARTH, AND LIFE (3)
The nature, history, and philosophy of science intended primarily for non-science majors. Consideration of science as a way of knowing through examples taken primarily from historical geology and biology (e.g., extinction of the dinosaurs, continental drift, evolution) but also from physics and astronomy. Consideration of social relevance of science. Does not count towards geology major.

GLY 2100 HISTORY OF THE EARTH AND LIFE -NS (3)
PR: A course in geology. Study of the physical and biologic history of the earth including evolution of the major groups of organisms, continental drift, and interpretation of ancient environments.

GLY 2100L EARTH HISTORY LABORATORY (3)
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 3358 EARTH AND ENVIRONMENTAL SYSTEMS (3)
This course examines the geology of the earth and the environment, using an earth systems approach that looks at interactions between the lithosphere, hydrosphere, atmosphere, and biosphere. Students will learn general principles of geology, travel world-wide on the internet, and participate in discussions on topics ranging from the scientific method to the latest geologic discoveries. Open University courses.

GLY 3200 MINERALOGY (4)
PR: GLY 2010, one year of chemistry, or CI. Principles of crystal chemistry, crystallography and mineralogy with emphasis on common rock-forming minerals. Lec.-lab.

GLY 4500C STRUCTURAL GEOLOGY -NS (3)
PR: 12 hours of geology. MAC 2132 or equivalent or CI. 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 CI. An introduction to the geological 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 4500 MOONS, PLANETS, AND METEORS: AN INTRODUCTION TO PLANETARY SCIENCE -XMW (4)
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 Ancient Earth. Field trips and lectures, internet exercises.

GLY 4154 GEOLOGY AND DEVELOPMENT OF MODERNAFRICA (3)
An in-depth look at how geology has affected the politics, history, and culture of Africa. Units include the Nile and hydropolitics, deserts and drier climate, farming and hominid evolution, and mining and politics. No science prerequisites. Cross listed as AFA 4154.
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 and their classification and the study of their relationship 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 cryosphere to study the sedimentary rock record. Examination of the rock record to solve problems in sedimentary geology.

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 -XWV (3)
PR: Junior standing. A comprehensive introduction to the nature of all coastal environments including beaches, dunes, tidal inlet systems, 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: 1-2 geology courses. 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 4930 INTRODUCTION TO HYDROGEOLOGY (4)
PR: GLY 2010. Senior or advanced junior 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 4935 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 COLOQUIUM (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 5752 GEOLOGICAL FIELD EXCURSION (2)
Lectures and 2-3 week field excursion to study regional geography, 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 multidisciplinary 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 integration.

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 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 study, data collection and analysis of data, interpretation of results, and evaluation of reports.

GEY 4612 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.)
**AMH 3100 AFRICAN HISTORY TO 1850 -HP- AF**

An outline survey of pre-colonial African history including a preatory 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.)

**AMH 3200 AFRICAN HISTORY SINCE 1850 -HP-AF**

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**

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**

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**

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 loyalty, violence, and slavery in American society from 1750-1789.

**AMH 3140 THE AGE OF JEFFERSON**

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**

The United States, 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**

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**

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 internationalism.

**AMH 3231 THE UNITED STATES, 1914-1945**

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**

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**

Southern history since the surrender at Appomattox. Topics covered include Reconstruction, the Populist revolt, race relations, demography and disfranchisement, Southern women, and the Civil Rights Movement.

**AMH 3421 EARLY FLORIDA**

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**

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**

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**

The development of American Foreign Relations in the Agricultural era.

**AMH 3511 U.S. DIPLOMATIC HISTORY IN THE 20TH CENTURY**

A history of American Foreign Relations in the Industrial era.

**AMH 3530 IMMIGRATION HISTORY**

A study of the composition and character of the "American" people with emphasis on the period from 1840s to the 1920s. Examines old world backgrounds of immigrants and their responses to the new world's social, economic, and political conditions.

**AMH 3540 UNITED STATES MILITARY HISTORY**

A study of American military policy and practices from colonial days to the present. Attention is given both to tactics and to strategy in the unfolding formulation and development of American armed might.
AMH 3545 WAR AND AMERICAN EMPIRE (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 Vietnam.

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 America to 1865. Topics include pre-colonial African, 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 3590 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 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 3186 MEDIEVAL HISTORY (4)
A study of the daily life and attitudes of the medieval nobleman, peasant, townsman, and the agrarian-urban economy and society which affected their lives.

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 336 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 EMPIRE (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 Rome from the assassination of Julius Caesar in 44 B.C. to the death of the emperor Constantine in A.D. 337. Emphasized is Rome's government of a vast Mediterranean empire including much of the near East and Europe.

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-Prussia, 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 democratic 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 HISTORY OF IMPERIAL RUSSIA, 1589-1917 (4)
A survey of social, political, economic and cultural development in the Russian Empire from Peter the Great to Nicholas II. Topics include expansion and modernization
of the Empire, the culture of the Imperial court, peasant rebellions, social and legal reform, the role of the West, and the collapse of the Romanov dynasty.

A study of Soviet society under communism from the Revolution to the collapse of the USSR. Topics include the origins and development of revolutionary socialism, the Bolshevik seizure of power, Stalinism and the Great Terror, popular dissent and resistance, and the treatment and experience of ethnic minorities, Gorbachev and the dissolution of the Soviet Union.

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 3308 WAR AND SOCIETY -XMW (3)
An examination of the ways in which societies have organized themselves for war and how societies are changed by war. Also explores gendered expectations in war, and the changing conduct of war.

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 3938 ISSUES IN HISTORY (3)
The course provides an introduction to the discipline of history by examining a specific historical issue and its relation to at least one of the following dimensions: gender, race and ethnicity, international perspectives, environmental perspectives.

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 3104 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, writing and filmmaking.

HIS 4930 DIRECTED READING (1-4)
PR: CI. 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: CI. 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.

HIS 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 monocolture, 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 2201 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 2212 NINETEENTH-CENTURY AMERICAN CULTURE - HP (3)
An examination of cultural patterns in America from 1776 to 1900 with an emphasis on the texture of everyday life.

AMS 2270 TWENTIETH-CENTURY AMERICAN CULTURE - HP (3)
An examination of cultural patterns in America from 1900 to the present with an emphasis on the texture of everyday life.

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 3210 REGIONS OF AMERICA - HP (3)
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 (3)
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 3570 SOUTHERN WOMEN: MYTH AND REALITY -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 4540 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 4800 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.

AMS 4940 INTERNSHIP IN AMERICAN STUDIES (1-4)
A structured, out-of-class learning experience providing firsthand, practical training in American Studies-related professional careers in the community. May be repeated up to 8 credit hours.

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. 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 3930 SELECTED TOPICS IN HUMANITIES (1-4)
The intermediate-level course will deal with a recurrent theme in the arts or focus on particular cultural centers. Topics will vary; course may be repeated for credit with change of content up to 8 credit hours.

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 4438 ITALIAN RENAISSANCE CULTURE
PR: Sophomore standing or CI. A study of the painting, literature, music, sculpture and architecture of early mo"dern Italy (1300-1600), emphasizing humanism, the revival of antiquity, the tension between sacred and secular, and artists such as Michelangelo, Titian and Raphael.
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 4199 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 3006 EUROPE -AF (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 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 3033 INTRODUCTION TO INTERATIONAL 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 3054 INTERNATIONAL HUMAN RIGHTS (3)

This course explores the evolution of international rights from the Greeks to the present. It examines human rights issues in major regions of the world.

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 GLOBAL SECURITY 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 outbreak 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: CI. A supervised program of intensive reading of interdisciplinary materials in areas of specific interest. May be repeated.

INR 4910 DIRECTED RESEARCH (1-3)

PR: CI. 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 seminar 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 women'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 PR: FOL 4101 or equivalent.

Arabic

ARA 1120 MODERN ARABIC I CR: ARA 1120L. An intensive study of basic skills: pronunciation, listening comprehension, speaking and some composition.

ARA 1120L MODERN ARABIC I LABORATORY CR: ARA 1120. Laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with lecture section required, and, if dropped, then dropped simultaneously. (S/U only.)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARA 1121</td>
<td>MODERN ARABIC II</td>
<td>(4)</td>
<td>Focuses on advanced Arabic language skills.</td>
</tr>
<tr>
<td>CHI 1120L</td>
<td>MODERN CHINESE I LABORATORY</td>
<td>(1)</td>
<td>Laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)</td>
</tr>
<tr>
<td>CHI 1121L</td>
<td>MODERN CHINESE II LABORATORY</td>
<td>(1)</td>
<td>Laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)</td>
</tr>
<tr>
<td>CHI 1121L</td>
<td>MODERN CHINESE III LABORATORY</td>
<td>(1)</td>
<td>A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)</td>
</tr>
<tr>
<td>CHI 1121L</td>
<td>MODERN CHINESE IV LABORATORY</td>
<td>(1)</td>
<td>Laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)</td>
</tr>
<tr>
<td>FRE 1120L</td>
<td>BEGINNING FRENCH I LABORATORY</td>
<td>(1)</td>
<td>A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)</td>
</tr>
<tr>
<td>FRE 1121</td>
<td>BEGINNING FRENCH II</td>
<td>(4)</td>
<td>Elementary course in French. A continuation of FRE 1120.</td>
</tr>
<tr>
<td>FRE 1121L</td>
<td>BEGINNING FRENCH II LABORATORY</td>
<td>(1)</td>
<td>Laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)</td>
</tr>
<tr>
<td>FRE 1170</td>
<td>OVERSEAS STUDY-ELEM. FRENCH</td>
<td>(4)</td>
<td>Off-campus study in France. Credit is given for the course.</td>
</tr>
<tr>
<td>FRE 1121</td>
<td>BEGINNING FRENCH III</td>
<td>(3)</td>
<td>A review of the basic structure of French.</td>
</tr>
<tr>
<td>FRE 2200</td>
<td>FRENCH IV</td>
<td>(3)</td>
<td>Conversations on current idiomatic usage.</td>
</tr>
<tr>
<td>FRE 2240</td>
<td>CONVERSATION II</td>
<td>(3)</td>
<td>Advanced French conversation. Credit is given for the course.</td>
</tr>
<tr>
<td>FRE 3230</td>
<td>READING IN FRENCH LITERATURE AND CULTURE</td>
<td>(3)</td>
<td>Readings and discussions in the cultural history of France.</td>
</tr>
<tr>
<td>FRE 3420</td>
<td>COMPOSITION I</td>
<td>(3)</td>
<td>A fundamental composition course for students who have completed FRE 2200 and/or 2201.</td>
</tr>
<tr>
<td>FRE 3440</td>
<td>FRENCH FOR BUSINESS</td>
<td>(3)</td>
<td>An introduction to the French language in ordinary business transactions.</td>
</tr>
<tr>
<td>FRE 3470</td>
<td>OVERSEAS STUDY</td>
<td>(1-6)</td>
<td>An intensive study-travel project in France. Departmental approval required. May be repeated up to 12 credit hours.</td>
</tr>
<tr>
<td>FRE 3500</td>
<td>FRENCH CIVILIZATION</td>
<td>(3)</td>
<td>Readings and discussions in the cultural history of France.</td>
</tr>
<tr>
<td>FRE 4421</td>
<td>COMPOSITION I</td>
<td>(3)</td>
<td>Continuation of French composition. This course is designed to follow FRE 3420.</td>
</tr>
<tr>
<td>FRE 4471</td>
<td>ADVANCED OVERSEAS STUDY</td>
<td>(1-6)</td>
<td>An introduction to the French language in ordinary business transactions.</td>
</tr>
<tr>
<td>FRE 4700</td>
<td>FRENCH LINGUISTICS</td>
<td>(3)</td>
<td>An introduction to the phonological, morphological and syntactic structure of French.</td>
</tr>
<tr>
<td>FRE 4900</td>
<td>DIRECTED STUDY</td>
<td>(1-3)</td>
<td>Departmental approval required.</td>
</tr>
<tr>
<td>FRE 4930</td>
<td>SELECTED TOPICS</td>
<td>(1-3)</td>
<td>Study of an author, movement or theme.</td>
</tr>
<tr>
<td>FRENCH</td>
<td>FRENCH FOR READING</td>
<td>(3)</td>
<td>Course designed to provide a reading ability in French that will support research in other disciplines. Primarily for graduate students.</td>
</tr>
<tr>
<td>FRENCH</td>
<td>BEGINNING FRENCH</td>
<td>(4)</td>
<td>The first course in the study of elementary French. Emphasis on the development of basic skills in comprehension, speaking and reading.</td>
</tr>
</tbody>
</table>
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
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, DuBelle, Lamartine, Hugo, Vigny, Musset, Baudelaire, Mallarme, Rimbaud, Valery, Peguy, Eliard, Apollinaire, Char, and others. Course content may vary from year to year.

FRW 5222 CLASSICAL PROSE AND POETRY
PR: FRW 4101. Emphasis on Malherbe, La Fontaine, Boileau, Descartes, and Pascal.

FRW 5226 20TH CENTURY POETRY AND THEATRE

FRW 5266 THE 20TH CENTURY NOVEL
PR: FRW 4101. Proust, Gide, Mauriac, Mauxra, Camus, Robbe-Grillet.

FRW 5314 CLASSICAL DRAMA
PR: FRW 4101. Corneille, Moliere, and Racine.

FRW 5415 LITERATURE OF THE MIDDLE AGES
PR: FRW 4100 or FRW 4101. Major genres, including epic, Arthurian romances, drama and lyric poetry. Reading in modern French translation.

FRW 5425 LITERATURE OF THE RENAISSANCE
PR: FRW 4100 or FRW 4101. A study of Renaissance French humanism including Rabelais, Montaigne, and the Pliade poets.

FRW 5445 18TH CENTURY LITERATURE
PR: FRW 4100. The classical tradition and the new currents of thought in the Age of Enlightenment.

FRW 5526 PRE-ROMANTICISM

FRW 5535 ROMANTICISM
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
PR: FRW 4100 or FRW 4101. A detailed study of real and naturalism with emphasis on Flaubert, Zola, les Goncourt, Maupassant, and Daudet.

FRW 5934 SELECTED TOPICS
PR: Upper-level or graduate standing. Study of an author, movement or theme.
Greek

GRK 1120 BEGINNING MODERN GREEK I
CR: GRK 1120L. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.

GRK 1120L BEGINNING MODERN GREEK LABORATORY
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
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
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
PR: GRK 1121 or the equivalent. For language students who intend to attain basic proficiency.

GRK 2200L MODERN GREEK III LABORATORY
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 4095 DIRECTED STUDY
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
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
CR: HBR 1120L. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.

HBR 1120L MODERN HEBREW I LABORATORY
CR: HBR1120. 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
PR: HBR 1120 or its equivalent; CR: HBR1121L. A continuation of HBR 1120. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

HBR 1121L MODERN HEBREW II LABORATORY
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
PR: HBR 1121 or the equivalent. For language students who intend to attain basic proficiency.

HBR 2200L MODERN HEBREW III LABORATORY
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 4095 DIRECTED STUDY
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
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
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 I LABORATORY
CR: ITA 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

ITA 1121 BEGINNING ITALIAN II
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
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 2230 INTERMEDIATE ITALIAN I
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
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
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
A fundamental composition course for students who have completed ITA 2200.

ITA 3470 OVERSEAS STUDY
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
A survey of Italian literature from the earliest monuments through the classicism of the 18th century.

ITW 4101 SURVEY OF ITALIAN LITERATURE II
A survey of Italian literature beginning with the Classicism of the 18th century and continuing to present.

Japanese

JPN 1120 MODERN JAPANESE I
CR: JPN 1120L. An intensive study of basic skills: pronunciation, listening comprehension, speaking, and some composition.

JPN 1120L MODERN JAPANESE I LABORATORY
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
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
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 2200L POLISH III LABORATORY (1)
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. May be repeated.

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
SPN 1120 BEGINNING SPANISH I
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 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.)

SPANISH FOR BUSINESS WRITING (3)
PR: SPN 2201 or equivalent. Practical training in contemporary Spanish business communication. Focus on business forms and composition. Not open to native or near-native speakers of Spanish.

SPANISH FOR NATIVE SPEAKERS II (3)
PR: SPN 2201 or equivalent or graduate standing. Advanced business communication in Spanish through discussion, reading, and writing of representative texts from the Spanish-speaking world. Emphasis on business forms and composition of proposals, reports, and the formulation and expression of ideas in standard Spanish. Not open to native or near-native speakers of Spanish.

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 course. May not count as Spanish major elective.

SPN 3340 SPANISH FOR BUSINESS (3)
PR: SPN 2201 or equivalent. An introduction to the Spanish language as used in undertaking ordinary business transactions.

SPN 3440 SPANISH FOR BUSINESS WRITING (3)
PR: SPN 3340 or equivalent. Continuation of SPN 3340. Advanced business communication in Spanish through discussion, reading, and writing of representative texts from the Spanish speaking world. Emphasis on business forms and composition of proposals, reports, and the formulation and expression of ideas in standard Spanish. Not open to native or near-native speakers of Spanish.

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)

SPN 4700 SPANISH LINGUISTICS (3)
PR: LIN 3010 or equivalent (may be taken concurrently with CI) and SPN 2201 or equivalent. An introduction to Hispanic linguistics: Phonology, morphology, syntax, and lexicography.

SPN 5525 MODERN SPANISH AMERICAN CIVILIZATION (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 5557 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.

SPN 5558 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 3100 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 (3)
PR: SPW 3030 or equivalent. A study of Spanish literature from its origins through the 17th century.

SPW 4101 SURVEY OF SPANISH-AMERICAN LITERATURE (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 5357 SPANISH PROSE (3)
PR: SPW 4131. Emphasis on the gaucho theme and contemporary prose fiction.

SPW 5368 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)

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)

SPW 5934 SELECTED TOPICS (3)
PR: Upper-level or graduate standing. Study of an author, movement or theme.

Yoruba

YOR 1120 YORUBA I (3)
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 CI. 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 -64 (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 4000 DESCRIPTIVE LINGUISTICS (3)
PR: LIN 3010 or CI. Introduction to the basic techniques of formalizing linguistic descriptions through elementary phonological, morphological, and syntactic data solution-problems drawn from a variety of languages. Both taxonomic and generative analysis and descriptions will be developed and compared.

LIN 4575 LANGUAGE TYPES OF THE WORLD (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: CI. Readings in special topics. Departmental approval required.

LIN 4930 SELECTED TOPICS (1-3)
PR: CI. Course content depends upon students' needs and instructor's interest and may range over the entire field of linguistics.

LIN 5700 APPLIED LINGUISTICS (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 AS A SECOND LANGUAGE (3)
PR: Upper-level standing. Designed to introduce and prepare the enrolllee 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.
LIS 5525 CROSS-CULTURAL ISSUES IN ESL
PR: LIN 5700. This is a lecture course on cultural issues in teaching English as a second/foreign language. May not be repeated for additional credit hours.

**Liberal Studies**

IDS 3300 STRUCTURES OF KNOWLEDGE AND KNOWING
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/body; substance and function.

IDS 3310 PROGRESS AND UTOPIA
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
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
PR: Senior standing or CI. Examination of aspects of contemporary theories of nature and man deriving in the liberal arts, to the purpose of developing a general assessment of contemporary knowledge and methods of knowing.

IDS 4930 SELECTED TOPICS
Course content determined by students' and instructor's interests and needs.

**Library and Information Science**

LIS 2001 LIBRARY AND INFORMATION SKILLS
An introduction to various types of information sources (print and electronic) and search techniques. The course is designed to instruct students how to locate, evaluate, and effectively use information.

LIS 2002 INTRODUCTION TO THE INTERNET
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
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 5262 MICROCOMPUTER APPLICATIONS IN LIBRARY AND INFORMATION CENTERS
Microcomputer hardware and software for libraries and their application in library/information settings. Projects using major application for budgets, databases, and telecommunications are undertaken.

LIS 5315 INSTRUCTIONAL GRAPHICS
PR: CI. 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
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
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
PR: CI. 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
Overview of biological, chemical, geological, and physical oceanography. (Also listed under Geology.)

OCE 3430 SELECTED TOPICS IN MARINE SCIENCE
(1-4)
Selected topics in the marine sciences including marine biology, marine chemistry, marine geology, marine oceanography, and interdisciplinary topics relating to marine environments.

**Mass Communications**

ADV 3000 INTRODUCTION TO ADVERTISING
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
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
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
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
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
PR: ADV 3000 and ADV 3101. A study of retail advertising, planning and production of complete general advertising campaign, including research, production methods, budgeting, and media schedules.

ADV 4800 ADVERTISING CAMPAIGNS
PR: ADV 3101, ADV 3300, ECO 1000, MAR 3023, and MMC 4420. Advanced advertising course requiring planning and production of complete general advertising campaign, including research, production methods, budgeting, and media schedules.

ADV 4840 ADVERTISING PRACTICUM
PR: CI. 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
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
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 4414 SOCIAL HISTORY OF THE FILM, 1945 TO THE PRESENT
PR: MMC 2100 and MMC 3602. The development of the film from 1945 to the present.

JOU 2100 BEGINNING REPORTING
PR: MMC 2100 and MMC 3602. Basic instruction in news judgment, source of news, newsgathering, and newswriting techniques. Typing ability is required.

JOU 3101 ADVANCED REPORTING
PR: JOU 2100 or RTV 3304 (RTV majors only), JOU 4200
(may be taken concurrently), PHI 1103 and POS 2041.
Getting information and writing the more complex and
specialized story, techniques of investigative and analyti-
cal 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 supple-
ments; 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 CI. For news-editorial sequence major.
Practical experience outside the classroom where the
student works for academic credit under the supervi-
sion of a professional practitioner. Periodic written and
oral reports to the faculty member coordinating the study.
(S/U only.)

JOU 4000 PUBLIC AFFAIRS REPORTING (3)
PR: JOU 3101 or RTV 3304 (RTV majors only), POS 2041
and POS 2112 or POS 3142. Covering city council meet-
ings, courthouse, city hall, courts, society, and other spe-
cial 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 2010. 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 ANDTYPOGRAPHY (3)
PR: JOU 4200 or CI. Theoretical and practical applications
of newspaper design; problems in newspaper layout;
the research of newspaper typographic design and its
application; redesign of contemporary newspapers.

JOU 4941 EDITING PRACTICUM (3)
PR: Senior standing. JOU 4200 and CI. For news-editorial
sequence majors. Practical experience outside the class-
room where the student works for academic credit under the
supervision of a professional practitioner. Periodic
written and oral reports to the faculty member coordinat-
ing the study. (S/U only.)

JOU 4944 MAGAZINE PRACTICUM (1)
PR: Senior standing. JOU 4000 and CI. For magazine sequence
majors. Practical experience outside the classroom where
the student works for academic credit under the supervi-
sion of a professional practitioner. Periodic written and
oral reports to the faculty member coordinating the study.
(S/U only.)

JOU 4916 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 narrativ-
estyle journalism can be accurate, thorough, fair, and com-
pelling, 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 multi-
media presentation, electronic media, and industrial and
documentary film.

MMC 4203 HISTORY AND PRINCIPLES OF
COMMUNICATIONS LAW (3)
PR: MMC 2100 and MMC 3602. Historical and constitu-
tional backgrounds of freedom and control of expression,
statutory enactments, major court decisions and admin-
istrative rulings which affect print media, telecommunica-
tions, 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 meth-
ods as applicable to the study of mass and mass commu-
rications. 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 comple-
tion of an 8-12 week paid media internship with newspa-
per, broadcast station, or other media-related agency
approved by the School. Reports on experiences for dis-
cussion and evaluation. (S/U only.)

PGY 2100 COLLEGE OF ARTS AND SCIENCES
PGY 2100 COLOR PHOTOGRAPHY (3)
PR: PGY 3602 or CI. 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 3510 PHOTOJOURNALISM I (3)
PR: MMC 2100 and MMC 3602. Laboratory required. Cam-
era operation, darkroom techniques, picture composition;
editing, ethics, history, and laws in connection with photo-
journalism.

PGY 3620 PHOTOJOURNALISM II (3)
PR: PGY 3610. Laboratory required. Advanced process
and practice of photography for publication. Content in-
cludes advanced camera and laboratory techniques, pub-
lication 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 settings 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 4000 ADVANCED PUBLIC RELATIONS (3)
PR: MMC 4420, PUR 4100, and PUR 4401. As the final
course in the public relations sequence, it involves inten-
sive study of counselling 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.

Communications 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: CRW 2100 or ENC 3310 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 2100 and MMC 3602. 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: MMC 4200, POS 2112 or POS 3142, RTV 3001, RTV 3304; for programming option: RTV 2100 or RTV 3304, RTV 3001, RTV 4500, 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 (3) 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 3414 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 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 bonded variation, product measures and Fubibi's theorem, differentiation, L^ 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 2320 BUSINESS CALCULUS -5A -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, economics, and other sciences. (No credit for mathematics majors or students with credit in MAC 2233, MAC 2281, or MAC 2311.)

MAC 2323 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, 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 2324 ELEMENTARY CALCULUS II -5A -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 (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, 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, trignometric, 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 2311.)

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 2233.)

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)

MAD 5101 LISP: PROGRAMMING WITH ALGEBRICAL APPLICATIONS (3)
PR: MHF 5306 or MAD 6510 or MAS 5311 or Cl. 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: Cl. Brief introduction to classical graph theory (4-color theorem, etc.). A language oriented introduction to connected digraphs, condensations, incidence matrices, Polyga's Theorem, networks.

MAE 5875 ABSTRACT ALGEBRA FOR TEACHERS (PR: MAS 4301 and bachelor's degree or CC. Groups, fields, vector spaces as they relate to high school algebra and other sciences. (No credit for mathematics majors.)

MAE 5877 MATHEMATICAL ANALYSIS FOR TEACHERS (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 (PR: MAP 2302 or Cl. Existence and uniqueness theory, properties of solutions, linear systems, stability theory, Sturm-Liouville theory.

MAP 5317 ORDINARY DIFFERENTIAL EQUATIONS II (PR: MAP 5316 and MAE 5307 or Cl. 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 Cl. 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 Cl. Sturm-Liouville theory, Fourier series.

Mathematics of finance, differentiation and integration of algebraic functions with applications to business, economics, and other sciences. (No credit for mathematics majors.)

MAS 3105 LINEAR ALGEBRA -6A (3)

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 5507 ADVANCED LINEAR ALGEBRA (3)
PR: MAS 4301 or Cl. 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 5715 NUMBER THEORY (3)
PR: MAS 4301 or Cl. Fundamental theorem of arithmetic, modular arithmetic, Chinese remainder theorem,
Mersenne primes, perfect numbers, Euler-Fermat theorem, pseudoprimes, primitive roots, law of quadratic reciprocity, factorization and primality testing algorithms.

MAS 5311 ALGEBRA I
PR: MAS 4301 or Cl. Group theory; Sylow theorems, classification of groups of small order. Ring theory: ideals, quotient rings, polynomial rings, Euclidean domains, quotiiint rings, symmetry rings, Euclidean domains, principal ideal domains and unique factorization.

MAS 5312 ALGEBRA II
PR: MAS 5311 or Continuation of MAS 5311. Finitely generated modules over a principal ideal domain, basic field theory, finite fields, Galois theory.

MAT 2930 SELECTED TOPICS IN MATHEMATICS
PR: Cl. The course content will depend on the interest of faculty members and student demand.

MAT 2936 TECHNOLOGY SEMINAR -6A
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
PR: Cl. Specialized independent study determined by the student’s needs and interests. The written contract required by the College of Arts and Sciences specifies the regulations governing independent study. May be repeated. (S/U only.)

MAT 4930 SELECTED TOPICS IN MATHEMATICS -6A
PR: Cl. The course content will depend on the interest of faculty members and student demand.

MAT 4937 MATHEMATICS MAJORS SEMINAR -6A
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
PR: Admission to Mathematics Honors Program and CC. Course restricted to mathematics majors. (S/U only.)

MAT 5932 SELECTED TOPICS -6A
PR: Cl. Each course covers a single topic outside the usual curriculum.

MGF 2131 CHAOS AND FRACTALS -6A -QM
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
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
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
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
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
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
PR: MGF 3301 or Cl. Emphasis on axiomatics, advanced Euclidean geometry, elements of projective geometry, non-Euclidean geometries.

MTG 4302 INTRODUCTION TO TOPOLOGY -6A

MTG 5256 DIFFERENTIAL GEOMETRY
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 II

MTG 5317 TOPOLOGY
PR: MTG 3316. The fundamental group; elements of homotopy theory and homology theory.

STA 2022 BASIC STATISTICS -6A -QM
Basic philosophy of statistical thinking. Acquisition of data. Techniques for organizing and presenting statistical data. Sample mean, variance and standard deviation. Statistical decisions and analysis. Random sampling, design of experiments, linear association and prediction. Statistical software. (No credit for mathematics majors.)

STA 2023 INTRODUCTORY STATISTICS I -6A -QM
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
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

STA 4442 INTRODUCTION TO PROBABILITY -6A
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
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 5225 SAMPLING TECHNIQUES

STA 5325 MATHEMATICAL STATISTICS
PR: STA 5446. Sample distribution theory, point and interval estimation, optimality theory, statistical decision theory and hypothesis testing.

STA 5446 PROBABILITY THEORY I
PR: STA 4442 and MAA 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.
### Medical Technology

**MLS 4031 INTRODUCTION TO MEDICAL TECHNOLOGY**  
**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**  
**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**  
**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**  
**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**  
**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**  
**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**  
**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**  
**PR:** Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on concepts of laboratory management, including personnel staffing, reimbursement, quality assurance, and regulatory issues, and clinical education techniques, including writing, lecture presentation, and evaluation.

### Philosophy

**PHH 2000 INTRODUCTION TO PHILOSOPHY -6A -XMW**  
An introduction to selected philosophical problems and traditions.

**PHH 3062 HISTORY OF PHILOSOPHY: ANCIENT AND MEDIEVAL**  
A survey of Western philosophy from the pre-Socratics to the end of the Middle Ages.

**PHH 3420 HISTORY OF PHILOSOPHY: MODERN**  
A survey of Western philosophy from the end of the Middle Ages to the nineteenth century.

**PHH 4440 CONTINENTAL PHILOSOPHY**  
A study of developments in post-Kantian European philosophy.

**PHH 4600 CONTEMPORARY PHILOSOPHY -6A -XMW**  
Selected schools of twentieth century thought such as idealism, positivism, pragmatism, realism, and existentialism.

**PHH 4700 AMERICAN PHILOSOPHY -6A -XMW**  
Major traditions in American thought, Pragmatism, the Enlightenment, Transcendentalism, Idealism, Pragmatism, and Analytic Philosophy in relation to American culture.

**PHI 1103 CRITICAL THINKING -SS**  
Methods of thinking that lead to reliable conclusions, with emphasis on concrete cases in ordinary thinking and the sciences.

**PHI 2100 INTRODUCTION TO FORMAL LOGIC -6A -QM**  
An elementary study of propositional, predicate, class and syllogistic logic with some attention to basic problems of logical theory.

**PHI 2600 ETHICAL THEORY**  
A study of ethical theories, concepts, problems and methods.

**PHI 2631 ETHICS AND BUSINESS**  
An application of traditional ethical theories to contemporary problems in business.

**PHI 3340 SCIENTIFIC METHOD**  
Probability, inductive inference, the hypothetico-deductive method, experimentation, and selected topics in the philosophy of science.

**PHI 3601 CONTEMPORARY MORAL ISSUES -6A -SS**  
Open to all students. A study of contemporary moral issues concerning racism, sex, sexism, abortion, poverty, crime, war, suicide, and human rights in general.

**PHI 3633 BIOMEDICAL ETHICS**  
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**  
**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/sexi sm, etc.

**PHI 3640 ENVIRONMENTAL ETHICS -SS**  
A study of alternative theories of environmental ethics, including the application of these theories to contemporary environmental problems, such as pollution, resource depletion, species extinction, and land use.

**PHI 3700 PHILOSOPHY OF RELIGION -6A -SS**  
Analysis of religious experience and activity and examination of principal religious ideas in light of modern philosophy.

**PHI 3905 DIRECTED STUDY**  
**PR:** C.I. Individual study directed by a faculty member. Approval slip from instructor required.

**PHI 3906 SELECTED TOPICS**  
**PR:** C.I. Selected topics according to the needs of the student.

**PHI 4073 AFRICAN PHILOSOPHY -XMW**  
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**  
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**  
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, and the physical basis for intelligence, etc.

**PHI 4632 FEMINIST ETHICS -XMW**  
A study of the varied approaches to moral reasoning taken by feminist ethical writers such as Wollstonecraft, Mill, Gilligan, Daly, Hoagland and others. (May also be taken for credit in Women's Studies.)
### PHI 4760 CHINESE PHILOSOPHY

A survey of confucianism, taoism and other aspects of Chinese thought. The course is available to both majors and non-majors and does not have laboratory sections associated with it.

### PHI 4800 AESTHETICS -6A -XMW

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 meaning, as well as asthetics and morality.

### PHl4905 DIRECTED STUDY

PR: CI. Individual study directed by a faculty member. Approval slip from instructor required.

### PHI 4930 SELECTED TOPICS

PR: CI. Selected topics according to the needs of the senior student. Approval slip from instructor required.

### PHI 5135 SYMBOLIC LOGIC

PR: PHI 2100 or CI. Study of topics such as the following: Metatheory of propositional and predicate logic, related metatheoretic results, alternative logics.

### PHI 4325 PHILOSOPHY OF LANGUAGE

PR: Eight hours of philosophy, major in linguistics, or CI. An examination of semantic, syntactical, and functional theories of language with special attention given to the problems of meaning, linguistic reference, syntactical form, and the relations between scientific languages and ordinary linguistic usage. Seminar format.

### PHI 5901 RESEARCH

PR: CI. Individual research supervised by a faculty member. Approval slip from instructor required.

### PHI 5934 SELECTED TOPICS

PR: CI. Selected topics according to the needs of the student. Approval slip from instructor required.

### PHS 3021 PHILOSOPHIES OF LOVE AND SEX

Discussion of Philosophies of Love/Sex of Plato, Aristotle, Epicurus, Aquinas, Hume, Kant, Schopenhauer, Russell, Sartre, Marx, etc.

### PHM 3100 SOCIAL PHILOSOPHY -6A

An analysis of rival theories of social order and their philosophical foundations.

### PHM 3400 INTRODUCTION TO PHILOSOPHY OF LAW

A study of the fundamental concepts of law from a philosophic standpoint including crime, justice, punishment, free speech, etc.

### PHM 4322 ANCIENT AND MEDIEVAL POLITICAL PHILOSOPHY -6A

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

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

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

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

A study of the religious and atheistic existentialists and the bearing of their views on religion, ethics, metaphysics, and theory of knowledge.

### PHP 4350 PLATO -6A -XMW

The examination of Plato will include the dialogues Protagoras, Georgias, Meno, Republic, etc.

### PHP 4010 ARISTOTLE -6A -XMW

Study of Aristotle's philosophy.

### PHP 4100 KANT

Lecture and discussion of Kant's philosophy, especially The Critique of Pure Reason.

### PHP 4100 THE RATIONALISTS -6A

A careful study of the epistemologies of Descartes, Spinoza, Leibniz, and Malebranche.

### PHP 4745 THE EMPIRICISTS -6A

A careful study of epistemologies of Locke, Berkeley, Hume, and Thomas Reid.

### PHP 4784 ANALYTICAL PHILOSOPHY -6A

A study of the method devoted to clarifying philosophical problems through analysis of the language in which these statements of problems are stated.

### PHP 4788 PHILOSOPHY OF MARXISM -6A -XMW

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

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

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

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

Second semester of general physics and laboratory for science students. Must be taken concurrently and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2048 and PHY 2048L courses.

### PHY 2049, 2049L GENERAL PHYSICS & LABORATORY

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 2049 and PHY 2049L courses.

### PHY 2053, 2053L GENERAL PHYSICS & LABORATORY

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 2053L courses.

### PHY 2054, 2054L GENERAL PHYSICS & LABORATORY

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 2054L courses.

### PHY 3101 MODERN PHYSICS

A study of recent developments in physics, especially those having to do with atomic structure and the structure of matter. Special emphasis upon the study of the atomic and nuclear models of the atom. Schrodinger wave equation. Introduction to solid state physics.
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: PHY 3101 or PHY 2049; CR: MAC 2283 or MAC 2313. Reflection, refraction, dispersion, interference, diffraction, polarization, and laboratory.

PHY 3822L INTERMEDIATE LABORATORY (2)
PR: PHY 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 4131 GREAT THEMES IN PHYSICS -6A ·XMW (3)

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 (4)
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, computers, etc.)

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 agreement. (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 4935 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.

PHY 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.

PHY 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.

PHY 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.

PHY 5304 NUCLEAR PHYSICS (3)
PR: PHY 4604 or Cl. Nuclear forces, nuclear models, nuclear structure, decay, nuclear reaction, and high energy physics.

PHY 5305 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)
Introduction to politics in different states; 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 factors 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 the 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 102 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 coop-
eration 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 multinational corporations.

INR 5086 ISSUES IN INTERNATIONAL RELATIONS (3)
Explores specific topics and provides the student with an opportunity for in-depth study of historical and contemporary problems in international politics. May be repeated for credit as topic varies.

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 CI. 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 3420 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 laws regulating air, water, 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)
Examines theoretical models of political behavior and choice within institutions; 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 - 6A - XMW (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 Women's Studies.)

POS 4905 INDEPENDENT STUDY (1-3)
PR: 3.0 average in Political Science and CI. 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 CI. 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 CI. 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 CI. 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.
The study of political problems and issues and topics in modern society. Presents data and theory underlying social, political, psychological, and developmental processes. Not for major credit.

EXP 4523C COGNITIVE PSYCHOLOGY
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 4540 PSYCHOLOGY OF LANGUAGE
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.
PSY 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 function of psychologists 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, supervisory science, 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.

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 4804 SOCIAL PSYCHOLOGY (3)
PR: PSY 3213 with 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. 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 cognitive psychology.

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 portion 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. (SU 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.

Public Administration

PAD 4693 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: URH 4050 or URH 6056. Analysis of basic concepts, issues, and strategies of planning; policy determination, collection of information, and decision-making.

PAD 5005 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 formulation; 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 5035 REHABILITATION COUNSELING: CONCEPTS AND APPLICATIONS (3)
PR: CC. Introduction to the profession of Rehabilitation Counseling and current issues in the field. Coverage includes rehabilitation history, legislation, case management and related services for Americans with disabilities.

RCS 5600 MEDICAL ASPECTS OF DISABILITY (3)
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 5604 FOUNDATIONS OF MENTAL HEALTH COUNSELING (3)
A skill-building course on the utilization of one's self in mental health counseling relationships. Includes the study of the origin, history, professional functions, and current issues in the field of mental health counseling.

RCS 5406 HUMAN GROWTH AND DEVELOPMENT (3)
Human development theory as applied in psychotherapy and case management rehabilitation, mental health, and addiction settings.

RCS 5450 SUBSTANCE ABUSE (3)

RCS 5700 LEGAL, ETHICAL, PROFESSIONAL STANDARDS AND ISSUES IN COUNSELING (3)
An overview of all aspects of professional functioning including history, roles, organizational structure, ethics, standards, and credentialing. Contemporary and developing issues in the field of professional counseling will also be addressed.

RCS 5905 DIRECTED STUDIES (1-4)
PR: Cl. Supervised rehabilitation studies under the direction of a faculty member. Rpt. to 8 hours.

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)

GRE 2041 NEW TESTAMENT GREEK II (4)

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 1001 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 Buddhist.

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 the major world religions.

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 3147 NATIVE AMERICAN RELIGIONS (3)
Introduction to and survey of Native American Religions. A variety of multiplicity of perspectives, including anthropological, historical, social psychological, sociological, and philosophical.

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
An exploration of ideas about life after death and its
relations to this life, in Judaism, Christianity, Islam, Hinduism,
and Buddhism.

REL 3210 RELIGIONS AND SOCIETY
THROUGH FILM -6A -HP -SS
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
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
cultural material of the Biblical period. Special attention
will also be given to excavation methods and interpretation
of archaeological evidence.

REL 3310 WORLD RELIGIONS
An introduction to and a comparison of the ideas, the
literature and institutions of the major religions of the world
including Judaism, Christianity, Islam, 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
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
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
An examination of the central ideas of recent theological
thinkers; such men as Barth, Brunner, Bultmann, Bonoheofer, Rahner, Tillich, Cox, Altizer, Buber, Niebuhr.

REL 3550 ROMAN CATHOLICISM -6A -XMW
An examination of the history, doctrine, and ethics of the
Roman Catholic Church.

REL 3600 INTRODUCTION TO JUDAISM -6A -AF
An introduction to Judaism: its religious tenets; its codes of
ethics; its rites and customs. This course is intended as
a description of what it means to be a Jew.

REL 3611 HISTORY OF JUDAISM
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
A study of Jewish life in the West since 1789, emphasizing
Jewish beliefs, practices, and institutions.

REL 3700 INTRODUCTION TO ISLAM -6A -HP -AF
An introduction to Islam as the religion of an heroic protagonist.

REL 3936 SELECTED TOPICS
PR: Cl. Course contents depend on students' needs.

REL 4133 MORMONISM IN AMERICA
A study of Mormonism in America as an example of a new
religion. Includes the study of history, myths and symbols,
textual beliefs, rituals and practices, believers, recruitment,
socialization, and organizations.

REL 4161 RELIGION, TECHNOLOGY AND SOCIETY
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
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
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
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 4244 NEW TESTAMENT I: GOSPELS, ACTS
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
PR: REL 3240 or REL 4221 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.
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 Babylonia; the way in which applied logic and practical reasoning were shaped in a religious definition of the social order; the dialectical argument.

**REL 4670 JUDAISM AND CHRISTIANITY AFTER THE HOLOCAUST -SA-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 CI. 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 CI. Individual investigations with faculty supervision.

**REL 4939 THE DEVELOPMENT OF RELIGIOUS STUDIES**
(3) Course designed for senior majors (and minors) in religious studies to complement REL 4931 (Senior Seminar). Discussion of key figures and methodological advances in the development of the field from the 18th century to the 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 and foundation courses, CR: SOW 4522 and SOW 4534. 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, SOW 4341 and SOW 4522. CR: SOW 4343 and SOW 3401. 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, groups, 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: SOW 3101, SOW 4341 and SOW 4522. CR: SOW 3102 and SOW 4343. Restricted to Social Work majors, others by School permission. The purpose of this course is twofold: to familiarize the student with research as it is practiced in the profession of Social Work; and to equip the student with the theoretical understandings necessary to be a critical consumer of social work research.

**SOW 4233 SOCIAL WELFARE: POLICY & PROGRAM**
(4) PR: SOW 3101, SOW 4341, SOW 4522, SOW 3102, SOW 4343 and SOW 3401. CR: SOW 4510 and SOW 4510L. 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) CR: SOW 3101; SOW 4522. 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 4522, and SOW 3101. CR: SOW 3401 and SOW 3102. 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 4233. 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 4233. CR: SOW 4510L. Restricted to social work majors in Senior year. Supervised field placement in a social welfare organization consisting of 32 hours per week for the duration of one semester.

**SOW 4522 MULTICULTURAL AMERICA**
(3) PR: SOW 3203, SOW 3302. CR: 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 CI. 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 CI. 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-XLM (3)
PR: SYG2000 or CI. 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 -XMX (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 (3)
PR: SYG2000 or CI. Experiences of peasant life in 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 and 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.

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 MEDICAL SOCIOLOGY (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 4430 DISABILITY & SOCIETY -XMW (3)
PR: SYG2000 or CI. Examination of the applicability of sociological concepts to the experience of disability, and 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 4530 SOCIOLOGY OF JUVENILE DELINQUENCY**
(3)
PR: SYG2000 or Cl. 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.

**SYG 2000, WST 3010, 3011 ISSUES IN FEMINISM**
(3)
Topical examination 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 Women's Studies and Psychology.)

**WST 3010 INTRODUCTION TO WOMEN'S STUDIES -SS-NW**
(3)
Survey of major issues relevant to the female experience. This women's movement: historical, psychological, sociological, and anthropological perspectives. (May also be taken for credit in Women's Studies and Anthropology.)

**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 20th 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 -XLMW (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 -6A -XLMW (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)

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 4800 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 Cl. 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 5334 SELECTED TOPICS (1-4)
Study of current research methods and scholarship on women from a multidisciplinary perspective. May be repeated as topics vary. (Cl).
The College of Business Administration offers courses of study leading to both undergraduate and graduate degrees. All degree programs in the College of Business Administration are fully accredited by the American Assembly of Collegiate Schools of Business (AACSB). The undergraduate curriculum which leads to a Bachelor of Arts or Bachelor of Science degree is composed of several segments: (1) broad general education in the arts, humanities and sciences; (2) the common body of knowledge for management responsibilities; (3) specialized areas of concentration in Accounting, Economics, Finance, Management, Marketing, General Business, Management Information Systems; and (4) opportunities for breadth in both business and nonbusiness subjects. Through flexibility in its requirements, the College is able to satisfy the different interest and career objectives of students with diverse backgrounds. Graduate programs in the College are described in the USF Graduate Catalog.

BACCALAUREATE LEVEL DEGREE PROGRAMS

Admission to the College

Undergraduate Programs

1. Admission to the College of Business Administration is based upon availability of faculty and space by discipline.

2. The College of Business Administration is an upper level limited access college, which means that it has admission requirements in addition to those of the University in general.

   The criteria to be admitted to the College of Business Administration are as follows:
   a. Minimum of 60 semester hours of college credit earned.
   b. Minimum of 2.5 cumulative grade point average on all college-level work and minimum 2.0 on all credit attempted at USF including any prior to salvage.
   c. Completion of these prerequisite college courses (or equivalents):
      - Financial Accounting
      - Managerial Accounting
      - Microeconomics
      - Macroeconomics
      - Statistics I
      - Computers in Business
      - Calculus for Business
      d. All courses (or their equivalents) listed in c., above, must be completed: (1) with at least a C grade, and (2) with a combined minimum grade point average of 2.0.
      e. In computing the cumulative grade point average, all business and economics courses taken for S or U grades will be converted to C or F, respectively.
      f. Students meeting all other requirements and with a cumulative grade point average between 2.3 and 2.5 may apply to the College of Business, and will be considered on a case by case basis.
   3. Students working toward meeting the limited access criteria will be permitted to enroll in all foundation courses in Business (listed below) except GEB 4890, provided they have completed 60 semester hours and have met course prerequisites.
   4. Minimum of 550 on TOEFL when applicable.
   5. Students must be admitted to the College of Business Administration at least one term before their anticipated graduation date.

Academic Dismissal

Students who have been dismissed twice from the University for academic reasons will not be readmitted to the College of Business Administration.

Transfers from Junior/Community Colleges

Junior/community college students should complete the program of general education at the junior/community college.

Students pursuing the associate degree in university transfer/parallel curricula at the junior/community college should take two semesters of mathematics to include a course in business calculus, two semesters of accounting principles, two semesters of economic principles, one semester of statistics, and one semester of computers in business and, perhaps, a speech course. (See paragraph 2c above.) Students pursuing associate degrees in terminal/career programs must be aware that some courses taken at the junior/community college may not be acceptable for credit in the baccalaureate programs at USF.

Students should avoid taking any Business courses at the junior/community college which are listed as 3000 and 4000 level courses at USF. Normally, courses in finance, marketing, management, and accounting as well as other business administration and economic courses taken at the lower division level which are offered as upper division courses at USF will not be accepted for upper division credit in business administration or economics. Exceptions to this policy will be made only upon proper validation of such courses. Validation consists of CLEP or other written examinations prepared and administered by the College of Business Administration, USF.

Prerequisites (State Mandated Common Prerequisites)

A student wishing to transfer to USF should complete the A.A. degree at a Florida community/junior 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 a student transfers without an A.A. degree and has fewer than 60 semester hours of acceptable credit, a student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. A transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students must meet the State Mandated Prerequisites below.

- ACG X021 Financial Accounting
- ACG X001 and ACG X11
- ACG X071 Managerial Accounting I
- CGS X100 Computers in Business
- ECO X013 Economic Principles (Macroeconomics)
- ECO X023 Economic Principles (Microeconomics)
- MAC X233 Calculus for Business
- STA X233 Introductory Statistics I
- QMB X100

Transfer Students From Other Colleges and Universities

Transfer credits ordinarily will be accepted from accredited institutions in the amount earned; however, all hours earned must be applied toward graduation. Individual courses will be evaluated and appropriately credited toward requirements in the student's program at USF. Transfer students are required to complete satisfactorily, at USF, a minimum of 50 percent (30-33 semester credit hours, depending on major) of required business courses, including 12 - 18 semester hours in the major field. Independent study and independent research courses do not fulfill this requirement. Students should be aware that USF Liberal Arts Exit Requirements will normally
increase the minimum residency at USF by an additional six to nine credit hours. Note that College of Business Administration academic residency requirements for graduation exceed the minimum requirements established for USF.

General Requirements for B.A./B.S. Degree

Students must satisfactorily complete a minimum of 120 semester hours, of which 60 or more must be earned at baccalaureate degree-granting institutions. Of the minimum 120, at least 60 hours must be business courses, and a minimum of 54 hours must be non-business courses (i.e., all courses not normally offered in the College of Business Administration). Additional electives may be required to reach a minimum of 120 hours. These electives may be either business or non-business. More specifically the requirements for graduation are:

1. Non-Business

   General Education Requirements  Semester Hours
   a. English Composition  6
   b. Quantitative Methods (Calculus is required)  6
   c. Natural Sciences  6
   d. Social Sciences  6
   e. Historical Perspectives  6
   f. Fine Arts  3
   g. African, Latin American, Middle Eastern, or Asian Perspectives  3
   TOTAL  36

   Exit Requirements  Semester Hours
   a. Major Works and Major Issues  6
   b. Literature and Writing  3
   TOTAL  9

   (see Liberal Arts Requirements for more details)

   SUFICIENT ELECTIVE COURSES TO REACH
   A MINIMUM NON-BUSINESS HOURS  54

2. Business

   Foundation Courses in Business  Semester Hours
   ACG 2021 Principles of Financial Accounting  3
   ACG 2071 Principles of Managerial Accounting  3
   CGS 2100 Computers in Business  3
   ECO 2013 Economic Principles: Macroeconomics  3
   ECO 2023 Economic Principles: Microeconomics  3
   QMB 2100 Business & Economic Statistics I  3
   BUL 3320 Law and Business I  3
   ECO 3100 Managerial Economics  3
   FIN 3403 Principles of Finance  3
   QMB 3200 Business & Economic Statistics II  3
   MAN 3025 Principles of Management  3
   ISM 3431 Management Science POM  3
   MAR 3023 Basic Marketing  3
   GEB 4890 Business Policy  3
   Total Foundation Courses in Business  42

   Major Requirements  18-24
   Minimum Business Courses  60-72

3. Electives in Business or Non-Business

   Sufficient elective courses to reach a minimum of 120 hours
   Minimum Total Hours  120

4. All Business majors are required to take a speech course (SPC 2023, COM 3110 or equivalent) and an advanced writing course (ENC 3213, ENC 3310, or equivalent).

5. All business students are required to select at least one course that deals with contemporary international topics. This course can be included in the business, non-business, or elective category. Consult with a business advisor for suggestions on acceptable courses.

6. A grade-point average of 2.0 must be achieved in the major field, as well as in all college work and in all USF work, for students to be certified for graduation. Students must have satisfactorily completed CLAST and the writing and computation course requirements of 6A-10.30 ("Gordon Rule"). For a Bachelor of Arts degree, students must demonstrate competency in a foreign language (refer to the Academic Policies and Procedures section of this catalog). American Sign Language is not approved by the College of Business for the Foreign Language Exit Requirement.

7. All courses in the major or minor field and all foundation courses in business must be taken on a graded basis; the S/U option is not available.

8. Accounting majors are not required to take ACG 2071 and may enroll in ACG 3103 upon the completion of ACG 2021 and meeting all other admission requirements for the College of Business Administration. While the College provides advising services to assist students with academic planning, the responsibility for seeing that all graduation requirements are met ultimately rests solely with the student.

Student Advising and Records

The Office of Undergraduate Programs provides the following services for College of Business Administration students:

1. Academic advising and program information.
2. Orientation for undergraduate students applying for admission to the College of Business Administration. Orientation is mandatory prior to being accepted.
3. Registration and drop/add for business courses.
4. Evaluation of undergraduate transcripts of transfer students.
5. Maintenance of academic advising records for all admitted students.

PROGRAMS AND CURRICULA

GENERAL BUSINESS (GBA)

The General Business Major is a program of study that will allow the student to take additional upper level course work in several business and, in some instances, other disciplines related to the student's plan of study.

- Requirements for the B.A./B.S. Degree

Within the 120 semester hour program as listed in the General Requirement section, students must complete a minimum of 18 hours of upper level courses beyond the business core requirements. Students are required to take one upper level course from each of the following groups:

   Accounting:
   - ACG 3103 Intermediate Financial Accounting I (3)
   - ACG 3341 Cost Accounting and Control I (3)
   - TAX 4001 Concepts of Federal Income Taxation (3)

   Economics:
   - Any course offered by the Economics Department numbered 3000 or above. (3)

   Finance:
   - Any course offered by the Finance Department numbered 3000 or above (except FIN 3100 and FIN 3105) (3)

   Management:
   - MAN 3240 Organizational Behavior Analysis (3)
   - MAN 3403 Industrial Relations (3)
   - ISM 3011 Management Information Systems (3)

   Marketing:
   - MAR 3823 Marketing Management (3)
   - MAR 3813 Marketing Research (3)
   - Other upper level business electives (3-9)

   TOTAL (18-24)

   Independent study and independent research courses are not appropriate electives.

- Requirements for a Minor in Business Administration (Non-Business Majors Only)

Admission to the Business Administration Minor Program requires the signature of the student's major program advisor. All students admitted to the program must complete an introductory computer course (with a content similar to CGS 2100 Computers in Business) or obtain a waiver for this requirement.
from the College of Business Administration by demonstrating competence in the use of computers.

The course requirements are:
1. ACG 3074 Managerial Accounting for Non-Business Majors
   - Basic Economics*
   - Principles of Finance
   - Principles of Management
   - Managerial Applications
   - Basic Marketing

2. A grade point average of 2.0 or better must be achieved in the minor coursework at USF and in all minor courses completed at any institution.

3. At least 12 hours of the required 18 credit hours must be taken in residence at USF.

*ACG 2021 & ACG 2071 may be substituted for ACG 3074.

**ECO 2013 & ECO 2023 may be substituted for ECO 1000.

ACCOUNTING (ACC)

The objectives of the baccalaureate degree program in accounting are to provide students with accounting and business knowledge that will serve as a basis for careers in industry, government, non-profit organizations and public accounting.

The baccalaureate program also prepares students for entry into the Master of Accountancy (M.Acc.) professional degree program.

The state of Florida, like most states, requires a fifth year of education in order to sit for the CPA examination. Any further questions concerning the CPA examination should be directed to the faculty of the School of Accountancy.

- Requirements for the B.A./B.S. Degree

In addition to the non-business and business foundation courses listed in the General Requirements section, students must complete a minimum of 27 hours of upper level accounting courses, of which 18 credit hours must be taken in residence at USF, and sufficient elective hours to reach a 120 hour total.

Required Accounting Courses:
- ACG 3103 Intermediate Financial Accounting I (3)
- ACG 3113 Intermediate Financial Accounting II (3)
- ACG 3431 Cost Accounting and Control I (3)
- ACG 3401 Accounting Information Systems (3)
- ACG 4632 Auditing I (3)
- TAX 4001 Concepts of Federal Income Taxation (3)

Total (18)

Electives (9 hours)
- ACG 4123 Intermediate Financial Accounting III (3)
- ACG 4351 Cost Accounting and Control II (3)
- ACG 5201 Advanced Financial Accounting (3)
- ACG 4501 Governmental/Non-for-Profit Accounting (3)
- ACG 4642 Auditing II (3)
- ACG 4931 Selected Topics (3)
- ACG 4932 Honors Accounting Seminar (3)
- ACG 5671 Internal and Operational Auditing (3)
- TAX 5015 Federal Taxation of Business Entities (3)

Total (9)

ECONOMICS (ECN)

Economics offers a clear and logical approach to business decision-making. The department offers broad course choices allowing students to tailor their programs to provide training for careers in business as well as teaching, government, and law. Students interested in majoring or minoring in economics should contact the Undergraduate Advisor in the Economics Department for more information.

- Requirements for the B.A./B.S. Degree

Within the 120-semester hour program as listed in the General Requirements section, students must complete a minimum of 18 hours of upper-level economics beyond the business core requirements. Students must obtain a grade of "C" or higher in ECO 3100 Managerial Economics or ECO 3101 Intermediate Price Theory, in order to enroll in any course for which ECO 3100, ECO3101 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.

Required Economics Courses:
- ECO 3203 Intermediate Income and Monetary Analysis (3)
- ECO 3101, ECO 3101 or ECO 3203 is a prerequisite. (15)

Total (18)

Requirements for a Minor in Economics:

Students throughout the University may earn a minor in Economics by satisfactorily completing 18 hours in Economics. The requirements are:
1. ECO 2013 Economic Principles: Microeconomics (3)
2. ECO 2023 Economic Principles: Macroeconomics (3)
3. Upper level economics electives (including QMB 3200) (12)

Total Economics Hours (18)

Business majors may obtain a minor with only 6 additional upper level hours in economics beyond the Business Core.

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 9 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
**FINANCE (FIN)**

The Finance major provides a broad-gauged analytical program for students anticipating a career in the management of both large and small organizations. Finance provides a good background for students seeking a general career in business. Finance majors may elect to follow tracks which prepare them for entry and advanced careers in:

- the financial management of corporations
- the management of financial institutions
- investments
- financial services, insurance, and real estate.

In addition, the program in Finance is designed to provide the skills required by students earning degrees in other business disciplines and by students who seek professional degrees in areas such as law and public administration.

The Finance program offers applied and theoretical courses to enable the graduate to identify and solve problems in the acquisition and allocation of funds by organizations in the public and private sectors in domestic and international settings. It provides the background necessary for managing wealth in a risky environment. Finance relies on an interdisciplinary approach which draws on economic theory, accounting, information systems and the quantitative decision frameworks of statistics and mathematics.

The major is designed to insure that graduates will be familiar with the tools of financial decision-making and that they will possess the skills to stay abreast of the developments in the field. Finance graduates will understand the functions and operations of financial markets, will become familiar with computer applications in finance, and will know how to access and utilize financial information. Course content is designed to provide majors with an appreciation of cooperative work skills and to enhance their verbal and written communication skills.

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

Within the 120 semester hour program as listed in the General Requirements section, students must complete a minimum of 18 hours of upper-level finance courses beyond FIN 3403.

- **Required Finance Courses:**
  - FIN 4303 Financial Institutions and Markets (3)
  - FIN 4414 Advanced Corporation Finance (3)
  - FIN 4504 Principles of Investments (3)
  - Additional upper level Finance electives (9-15)

  **Total:** (18-24)

Finance electives may be selected from among those 3000 and 4000 level courses which have FIN, REE, or RMI prefixes. At least two electives must have an FIN prefix. The following Finance tracks are recommended for students with specific interest in the following career areas:

- **Corporate Financial Management**
  - FIN 3604 International Finance
  - FIN 4412 Working Capital Management
  - FIN 4443 Financial Policies and Strategies

- **Management of Financial Institutions**
  - FIN 3233 Money and Banking
  - FIN 3604 International Finance
  - FIN 4324 Bank Management
  - FIN 4412 Working Capital Management
  - FIN 4443 Financial Policies and Strategies

- **Investments**
  - FIN 3604 International Finance
  - FIN 4514 Advanced Investment Analysis & Management
  - REE 4303 Real Estate Investment Analysis

- **Financial Services**
  - FIN 3604 International Finance
  - FIN 4514 Advanced Investment Analysis & Management
  - REE 3043 Principles of Real Estate
  - REE 4303 Real Estate Investment Analysis
  - RMI 3011 Principles of Insurance

- **Requirements for a Minor in Finance (for Business Majors only)**

  Students majoring in Business Administration may minor in Finance. The requirements are:

  1. FIN 4504 Principles of Investments (3)
  2. FIN 4433 Financial Institutions and Markets (3)
  3. FIN 4414 Advanced Corporation Finance (3)

  Another upper level Finance Elective with an FIN, REE, or RMI prefix (3)

  **Total:** (12)

- **Required Courses:**
  - FIN 4303 Financial Institutions and Markets (3)
  - FIN 4414 Advanced Corporation Finance (3)

- **Total:** (6)

- **Recommended Courses:**
  - FIN 4504 Principles of Investments (3)

- **Total:** (9)

**INFORMATION SYSTEMS AND DECISION SCIENCES (ISM)**

The Management Information Systems (MIS) major provides the skills and knowledge necessary for information systems development and support positions in both business and non-business organizations.

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

Within the 120 semester hour program listed in the General Requirements section, students must complete a set of six MIS courses and two approved MIS electives.

- **Required MIS Courses:**
  - ISM 3230 Introduction to Business Application Development (3)
  - ISM 3232 Adv. Business Application Development* (3)
  - ISM 3113 Systems Analysis and Design (3)
  - ISM 4212 Database Administration (3)
  - ISM 4220 Business Data Communications (3)
  - ISM 4300 Managing Information Resources (3)

- **Approved MIS Electives:**
  - ISM 4950 Independent Study (6)

- **Total:** (24)

*An approved 2-semester sequence in COBOL programming (two 3-hour courses) may be substituted for ISM 3232. An approved 2-semester sequence in COBOL is currently offered by the College of Engineering; however, these hours will not count as MIS or Business electives.

ISM 3230 (Introduction to Business Application Development) is to be taken before, or concurrently with, ISM 3113 (Systems Analysis and Design) which is a prerequisite for all other required MIS courses. Normally ISM 3113 should be completed by the end of the first semester of the junior year. MIS majors must earn a "C" or better in all required MIS courses; they can use grade forgiveness for only one upper-level MIS course. No more than three hours of ISM 4950 may be counted as MIS electives. (ISM 4905 will not count as an MIS elective.)

**Requirements for a Minor in MIS (for Business Majors only)**

Students majoring in Business Administration may minor in MIS. The requirements are:

1. ISM 3230 Introduction to Business Application Development (3)
2. ISM 3113 Systems Analysis & Design (PR/CR ISM 3230) (3)
3. Plus, any 2 of the following:
   - ISM 3232 Advanced Business Application Development (6)
4. ISM 4212 Database Administration (3)
5. ISM 4220 Business Data Communication (3)

**Total MIS hours:** (12)

- 2. A grade point average of 2.0 or better must be achieved in the minor course work at USF and in all minor courses completed at any institution.
- 3. At least 9 of the required 12 credit hours must be taken in residence at USF.
MANAGEMENT (MAN)
The undergraduate degree in the Department of Management prepares students for entry-level positions in Human Resource Management, Industrial Relations, and Small Business Management. It also prepares students for entry into graduate programs, such as the Master of Science in Management and the Master of Business Administration.

• Requirements for the B.A./B.S. Degree
Within the 120-semester-hour program as listed in the General Requirements section, students must complete 18 hours of management beyond MAN 3025.

Required Management Courses:
- MAN 3240 Organizational Behavior Analysis (3)
- Additional upper-level management courses (15–21)
- Total (18–24)
MAN 4504 and MAN 4507 do not count towards the management major.

Students are encouraged to seek additional curriculum advice from the Management Department.

• Requirements for a Minor in Management (For Business Majors Only)
Students majoring in Business Administration may minor in Management. The requirements are:
1. MAN 3240 Organizational Behavior Analysis (3)
2. Management electives approved by department chair (9)
3. A grade point average of 2.0 or better must be achieved in the minor course work at USF and in all minor courses completed at any institution.
4. At least 9 hours of the required 12 credit hours must be taken in residence at USF.

MARKETING (MKT)
Marketing is a dynamic field with many dimensions, including product selection and planning, product distribution, pricing and promotion. Marketing poses many challenges and yields generous rewards for those meeting these challenges. Marketing operations are carried out domestically and internationally in virtually all business organizations offering a product or service. Many marketing concepts are applicable to the operations of non-profit organizations such as governmental, educational, and health care institutions as well as charitable and political campaigns.

Marketing operations provide the most visible links between the firm or institution and its many publics. Marketing in the end deals with people, people who are constantly changing in their needs, wants and desires; and coupled with these changing tastes is a fiercely competitive environment sustained by all the resources of a rapidly evolving technology. These forces lead to much of the challenge – to much of the dynamic nature of marketing.

The marketing program at USF prepares students for initial entry and management positions in many areas of marketing with a curriculum that is concerned with:
1. Understanding consumer behavior and the broader environment within which the firm or institution operates;
2. Collecting, analyzing, and using information about customers, competitors, and the environment for managerial decisions;
3. Distributing products effectively and efficiently from producer to user;
4. Advertising and promoting the offerings of the firm or institution effectively;
5. Creatively and effectively managing a sales force selling industrial or consumer goods and services; and
6. Managing retail and wholesale operations including the conceptualization, implementation and evaluation of the buying, merchandising, and control functions.

Each student is strongly encouraged to set up an individualized plan of study with the assistance of a Marketing department faculty adviser. Such counselling can lead to a better definition of career objectives and will result in a plan of study that is consistent with each student's career objectives.

Undergraduate students in the College of Business not majoring in Marketing are encouraged to take selected offerings from the Marketing curriculum to broaden their backgrounds and to prepare for marketing-related positions in business or non-profit organizations.

- Requirements for the B.A./B.S. Degree:
Within the 120-semester-hour program as listed in the General Requirements section, students must complete a minimum of 18 hours in marketing beyond MAR 3023.

Required Marketing Courses:
- MAR 3823 Marketing Management (3)
- MAR 3613 Marketing Research (3)
- MAR 4824 Marketing Management Problems (3)
- Additional upper-level marketing courses (9–15)
- Total (18–24)

It is strongly recommended that marketing majors include courses in speech, computer science, finite mathematics, social psychology, and mass communications as part of their general electives.

The following Marketing elective tracks are recommended for students with specific interests:

Business to Business Marketing/Sales Management
- MAR 4403 Sales Management
- MAR 4453 Business to Business Marketing
- MAR 4503 Buyer Behavior
- MAR 3400 Professional Selling

Promotion
- MAR 4333 Promotion Management
- MAR 4503 Buyer Behavior
- MAR 4933 Promotion Campaigns
- MAR 3400 Professional Selling

Logistics and Physical Distribution
- MAR 4203 Channels Management
- MAR 4213 Logistics and Physical Distribution Management
- MAR 4453 Business to Business Marketing
- MAR 4231 Retailing Management and/or
- MAR 4156 International Marketing

Retailing
- MAR 4231 Retailing Management
- MAR 4503 Buyer Behavior
- MAR 4333 Promotion Management and/or
- MAR 3400 Professional Selling
- MAR 4213 Logistics and Physical Distribution Management

College of Business Administration International Programs

Certificate in International Business
The Certificate in International Business provides students with the perspectives, knowledge, skills and experience necessary for successful careers in today's global environment. A statement recognizing the completion of the Certificate in International Business will appear on the student's official transcript.

To qualify for the Certificate in International Business students must satisfy the requirements for one of the undergraduate major degree programs in Business Administration, and also complete sufficient additional course work to attain a minimum of 18 semester credit hours of upper level international business or international related course work. With approval, international courses taken to meet degree requirements may also be used to meet the 18 semester credit hour certificate requirement. At least 12 of the 18 semester credit hours of international courses must be selected from a set of approved international business courses (see below). Up to 6
of the 18 semester credit hours in the certificate may be selected from approved area studies courses, or other courses taken outside the College which are relevant to the student’s international area of interest. At least 12 semester credit hours of the course work in the Certificate in International Business program must be taken at USF. A grade point average of 2.0 or higher must be achieved in certificate course work taken at USF, as well as in any transfer work applicable to the certificate program. In addition to the specified course requirements, competency to effectively communicate in a foreign language must be demonstrated. Language competency will normally be evaluated by the USF Division of Languages. Students are required to choose a specific region of the world as the focal point for the area studies and language aspects of their programs.

**Minor in International Business**

**Students Majoring in Business Administration**

To qualify for the minor in International Business, students with a major in one of the undergraduate degree programs in Business Administration must successfully complete a minimum of 12 hours of international business or related course work. At least nine semester credit hours in the minor must be selected from a set of approved upper level international business courses (see below). One of the courses in the minor may be an approved area studies course, or other course, taken outside the College which is relevant to the student’s international area of interest. A minimum of nine semester hours of the minor course work must be taken at USF. A grade point average of 2.0 or higher must be achieved in minor course work taken at USF, as well as in any transfer work applicable to the minor. Competency to effectively communicate in a foreign language is strongly advised.

**Non-Business Administration Majors**

To qualify for the International Business minor non-business majors must complete the requirements for the minor in Business Administration (see previous Requirements for a Minor in Business Administration) and, in addition complete at least nine semester credit hours selected from a set of approved upper level international business courses (see below). At least three of the international courses must be completed at USF. A grade point average of 2.0 or better must be achieved in the minor course work taken at USF, as well as in any transfer work applicable to the certificate program. Competency to communicate in a foreign language is strongly advised. A statement attesting to the completion of the Minor in International Business will appear on the student’s official transcript.

**Courses Approved for the Certificate in International Business and the Minor in International Business**

The following courses are currently approved for the International Business major and minor:

- ECO 3703 International Economics
- ECO 4713 International Monetary Economics
- ECO XXXX Economics of Latin America
- FIN 3804 International Finance
- MAN XXX International Management
- MAR 4156 International Marketing

Others courses will be added as they are developed and approved. In addition, the College frequently offers Selected Topics courses that qualify for the International Business certificate and minors. Students should consult with an advisor for additional approved courses.

**Recommendations for Students Interested in International Business**

To increase the quality and number of initial job opportunities and to enhance longer-term career objectives students are strongly advised to:

- Couple study of international business with a major or minor in one of the functional areas of business. The combination of international business and one of the traditional functional areas of business administration is a very attractive set of qualifications in the marketplace.

- Include an international internship and/or overseas study experience in the program. With careful planning, a student can complete an area studies course, an international business course and language training in a single term of relatively inexpensive study abroad. More information is available from the Business Undergraduate Programs Office and the Center for International Business.

- Maintain a portfolio of international academic and professional activity. Information on the content of such a portfolio is available from the International Business Programs Office.

**Other Campuses**

Due to limited enrollment and faculty, only the following majors are regularly offered at the Regional Campuses:

- St. Petersburg
  - Accounting, Management, and General Business Administration
- Sarasota
  - Accounting and General Business Administration
- Lakeland
  - Accounting and General Business Administration

Students may declare other business majors while attending these locations, but it may be necessary to finish their major study requirements at another campus within the University.

**Student Organizations within the College of Business**

All students are encouraged to participate in extracurricular activities. The following organizations provide a means for students to develop both professionally and socially while attending the College of Business Administration.

- **Association of Marketing Students** - A collegiate chapter of the American Marketing Association, will help to further the growth of business oriented individuals within the field of Marketing.
- **Beta Alpha Psi** - The national professional accounting fraternity devoted to the promotion of the profession, inspiring professional ideals, and recognizing academic achievement.
- **Beta Gamma Sigma** - Honorary society which encourages and rewards outstanding scholarship among business students.

- **Business College Council** - An organization whose representatives from each of the major fields advises the Dean of the College and the faculty on student attitudes and goals. Also, it acts as a liaison between the Student Government Association and the College of Business Administration.
- **Delta Sigma Pi** - Fosters the study of business and a close association between students and the business world.
- **Economics Club** - Provides a forum for discussion of economic issues and actively encourages communication between students and Economics faculty.

- **International Business Board** - Stimulates and promotes interest in international business and provides professional and cultural programs and dialogue regarding opportunities for study in the field.

- **Management Information Systems Society** - Student chapter of the Data Processing Management Association, career oriented and interested in all areas of business data management.

- **Minority Business Association** - Encourages and supports students in their efforts to achieve success in a demanding academic setting.
National Association of Black Accountants - Develops, encourages, and serves as a resource for greater participation by African-Americans and other minorities in the accounting and finance professions.

Pi Sigma Epsilon - A professional society interested in marketing, sales management, and selling.

Student Accounting and Business Organization - Promotes professionalism in accounting and other Business disciplines. (St. Petersburg Campus)

Student Finance Association - An organization for finance majors and other business-oriented students which provides exposure to the many facets and opportunities in the field of finance.

BUSINESS ADMINISTRATION FACULTY

Accounting/Law

Director, School of Accountancy: R. M. Keith; James E. Ellis
Rooks Distinguished Professor in Business Administration: D. M. Dennis


Economics


Finance

Chairperson: R. Meyer; Lykes Professor of Banking & Finance: J. L. Pappas; University Distinguished Service Professor and Serge Bonanni Distinguished Professor of International Finance: A. Beenhakker; Professor Emeritus-Dean Emeritus: R. G. Cox; Professors: A. Beenhakker, S. E. Bolten, S. Kaplin, R. L. Meyer, J. L. Pappas, F. B. Power, A. Schwartz, K. F. Wieland; Associate Professors: S. Besley, S. B. Bulmash, D. A. Johnson, P. Kares, R. J. Rivard; Assistant Professors: B. Francis, J. Geh, J. Qi; Other Faculty: J. Rader.

Information Systems & Decision Sciences


Management


Marketing


BUSINESS ADMINISTRATION COURSES

General Business Administration

BUL 3320 LAW AND BUSINESS I
This course covers the nature of legal and societal institutions and environments, and major aspects of public, private, UCC and related business law.

BUL 3321 LAW AND BUSINESS II
PR: BUL 3320. Legal problems in marketing of goods, nature of property, sales of personal property, securing of credit granted, nature and use of negotiable instruments.

BUL 3350 THE LAW OF BUSINESS ASSOCIATIONS
PR: BUL 3320. A study of the law of corporations, the law of partnerships, and the law of agency.

BUL 4331 LAW AND THE ACCOUNTANT
PR: BUL 3320 or CI. A comprehensive study of commercial law as it affects the practice of accounting.

GEB 2350 DOING BUSINESS AROUND THE WORLD - SS
This course introduces the student to: 1) the nature of international business; 2) the framework of international organizations and the monetary system within which international business functions; 3) forces affecting international business, and 4) management responses to problems caused by international environments.

GEB 2935 SELECTED TOPICS IN BUSINESS
PR: CI. Topics to be selected by department chairs. May be repeated if topics vary. Not available for credit to upper-level students who have been admitted to the College of Business.

GEB 4580 BUSINESS POLICY - XMW
PR: Senior standing and FIN 3403, MAN 3025, MAR 3023. The course is intended to provide a unifying, integrating, and coordinating opportunity to tie together concepts, principles, and skills learned separately in other, more specialized courses in Business Administration.

GEB 4905 INDEPENDENT STUDY
PR: CI. Specialized independent study determined by the student’s needs and interests. May be repeated up to eight credit hours. (S/U only.)

GEB 4915 INDEPENDENT RESEARCH
PR: CI. Individual study contract with instructor and department chairperson. The research project will be mutually determined by the student and instructor. May be repeated up to 8 hours.

GEB 4935 SELECTED TOPICS IN BUSINESS ADMINISTRATION
The content and organization of this course will vary according to the current interests of the faculty and needs of students.

Accounting/Law

ACG 2021 PRINCIPLES OF FINANCIAL ACCOUNTING
Study of basic financial accounting principles including the recording, reporting and use of financial information and the preparation and interpretation of financial statements.

ACG 2071 PRINCIPLES OF MANAGERIAL ACCOUNTING
PR: ACG 2021. A study of the accountant’s role in assisting management in the planning and controlling of business activities.

ACG 3074 MANAGERIAL ACCOUNTING FOR NON-BUSINESS MAJORS
The study of the uses of accounting data internally by managers in planning and controlling the affairs of organizations. Does not count towards major or CPA requirements.

ACG 3131 INTERMEDIATE FINANCIAL ACCOUNTING I
PR: ACG 2021. Theory and methodology underlying financial reporting, including the FASB’s conceptual framework.
the accounting process, financial statements, accounting changes, present value applications, and current assets.

ACG 3113 INTERMEDIATE FINANCIAL ACCOUNTING II (3)
PR: ACG 3103. Continuation of ACG 3103. Topics covered include property, plant and equipment, intangibles, current liabilities, long-term debt, stockholders' equity, earnings per share, cash flows, full disclosure, and other current accounting topics.

ACG 3341 COST ACCOUNTING AND CONTROL I (3)
PR: ACG 2071 or ACG 3103. Deals with cost accounting systems for different entities, cost behavior patterns, cost-volume-profit analysis, relevant information for decision making, and budgets and standard costs for planning and control.

ACG 3401 ACCOUNTING INFORMATION SYSTEMS (3)
PR: ACG 2021 and CGS 2100. This course provides students with a basic understanding of well-controlled information systems in a variety of technological environments with added emphasis placed on the collection, processing, and reporting of accounting information. Students who complete this course will not receive credit for ACG 4621.

ACG 4123 INTERMEDIATE FINANCIAL ACCOUNTING III (3)
PR: ACG 3113. Theory and practice underlying revenue recognition, income tax allocation, leases, postretirement benefits, earnings per share, statement of cash flows, full disclosure, and other current accounting topics.

ACG 4351 COST ACCOUNTING AND CONTROL II (3)
PR: ACG 3341. Application of the material covered in ACG 3341 with specific emphasis on cost allocations, performance measurements, analysis of current cost accounting systems and accounting in today's environment (giving consideration to the influences of the international environment).

ACG 4501 GOVERNMENTAL/NOT-FOR-PROFIT ACCOUNTING (3)

ACG 4621 COMPUTER CONTROL AND AUDIT (3)
PR: ISM 3113. Study of information systems controls and auditing techniques emphasizing the effect both general and specific controls have on the collection, data integrity, system effectiveness and efficiency in computerized business environments. Students who complete this course will not receive credit for ISM 4320 or ACG 4301.

ACG 4632 AUDITING I (3)
PR: ACG 3113 and ACG 3401. This course provides a sound conceptual foundation of basic Auditing process as the perspective of the public accounting profession. Professional standards, ethics, legal responsibilities, and the utilization of technology are addressed.

ACG 4642 AUDITING II (3)
PR: ACG 4632. Further development of material covered in ACG 4632, with special emphasis on additional reporting topics and audit techniques not previously addressed.

ACG 4901 INDEPENDENT STUDY (1-3)
PR: Consent of Director. Specialized independent study determined by the students' needs and interests. May be repeated up to 6 credit hours. (S/U only.)

ACG 4911 INDEPENDENT RESEARCH (1-4)
PR: Consent of Director. Individual study contract with instructor and director required. The research project will be mutually determined by the student and instructor. May be repeated up to 8 hours.

ACG 4931 SELECTED TOPICS IN ACCOUNTING (1-4)
PR: CI. The course content will depend on student demand and instructor's interest.

ACG 4932 HONORS ACCOUNTING SEMINAR (3)
PR: Honors accounting student in final semester of bachelor's program. Use of case studies to explore the interaction of accounting and business topics that have been previously emphasized.

ACG 5201 ADVANCED FINANCIAL ACCOUNTING IV (3)
PR: ACG 4123. Advanced accounting. Accounting for business combinations, preparation of consolidated financial statements, home office/branch relationships, foreign opera-

ations and transactions, and partnerships.

ACG 5675 INTERNAL AND OPERATIONAL AUDITING (3)
PR: ACG 3113 and ACG 3401; CR: ACG 4632. To provide students with an opportunity to learn about the theory and practice of Internal and Operational Auditing and to apply relevant audit principles and techniques to selected audit problems.

ACG 5935 SELECTED TOPICS IN ACCOUNTING (1-4)
PR: CI. To allow advanced undergraduate students and graduate students to research and study contemporary and emerging topics in the field. May be repeated up to 6 credit hours.

TAX 4001 CONCEPTS OF FEDERAL INCOME TAXATION (3)
PR: ACG 2021. Major concepts used in taxation of income by federal government including enactment of tax laws, basic tax research, preparation of basic tax returns and exploration of tax policy issues.

TAX 5015 FEDERAL TAXATION OF BUSINESS ENTITIES (3)
PR: TAX 4001. Tax issues encountered by small businesses. Includes tax planning, capital formation and preservation, tax compliance and tax alternatives.

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 MACROECONOMIC 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)
Introduction to the theory of price determination. How an economic system 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. (May not receive credit for both ECO 3100 and ECO 3101.)

ECO 3115 INTERMEDIATE PRICE THEORY (3)
PR: ECO 2023. The price system and allocation of scarce resources between competing uses. (May not receive credit for both ECO 3100 and ECO 3101.)

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 3522 AMERICAN ECONOMIC HISTORY (3)
PR: ECO 2023. Growth and evolution of American economic institutions from Colonial times to the present.

ECO 3775 INTERNATIONAL ECONOMICS - WMV (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 4405 ADVANCED PRICE THEORY (3)
PR: Grade of B or better in ECO 3100 or ECO 3101. An advanced survey of special topics in microeconomics: borrowing and saving, decision making under uncertainty, markets for capital and labor, game theory, production and exchange efficiency, social welfare, and efficiency consequences of market and non-market allocation.

ECO 4505 ADVANCED MICROECONOMIC THEORY (3)
PR: Grade of "B" or better in ECO 3203. An advanced survey of special topics in microeconomics. 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.

ECO 4323 RADICAL POLITICAL ECONOMY - XMW (3)
PR: ECO 1000 or ECO 2013 or Cl.
The Marxist school of thought in economics. Application of Marxist theory to problems of advanced capitalist and socialist societies.

ECP 4401 INTRODUCTION TO MATHEMATICAL ECONOMICS (3)
PR: ECO 2013, QMB 3200, and MAC 2233 or MAC 2230 or Cl.
Mathematical models of optimizing behavior and economic equilibrium.

ECP 4421 INTRODUCTION TO ECONOMETRICS (3)
PR: QMB 3200 with grade of "B" or better or Cl.
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.

ECO 4713 INTERNATIONAL MONETARY RELATIONS (3)
PR: ECO 3203 Advanced analysis of international macro-economic systems. 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.

ECP 4905 INDEPENDENT STUDY (1-3)
PR: Cl.
Specialized independent study determined by the student's needs and interests. May be repeated up to 6 credit hours. (S/U only.)

ECO 4914 INDEPENDENT RESEARCH (1-3)
PR: Cl.
Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 6 hours.

ECO 4935 SELECTED TOPICS IN ECONOMICS (1-3)
PR: Cl.
Topics to be selected by the instructor or instructors on pertinent economic issues.

ECO 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.

ECO 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.

ECO 3301 ENVIRONMENTAL ECONOMICS - XMW (3)
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.

ECO 3413 ECONOMICS OF REGULATION AND ANTITRUST (3)
Economic analysis of the rationale and mechanics of enforcement 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 1000 or ECO 2013 or ECO 2023.
Economic analysis of urban social problems. Poverty, discrimination, housing, transportation, pollution, crime and fiscal considerations.

ECP 4232 COLLECTIVE BARGAINING AND PUBLIC POLICY (3)
PR: ECO 2023 or Cl.
Administration of labor management agreements. Impact of the government role in collective bargaining and labor relations.

ECP 4451 LAW AND ECONOMICS (3)
PR: ECO 3100. Application of economic theory to the analyses of criminal behavior, crime prevention, law enforcement, sanctions and corrections.

ECS 3013 ECONOMIC DEVELOPMENT (3)
PR: ECO 2013 or Cl.
Economic development in emerging nations.

ECS 3014 COMPARATIVE ECONOMIC SYSTEMS - XMW (3)
PR: ECO 1000 or ECO 2013 or Cl.
The major economic systems: traditional, capitalism, democratic socialism, communism, and fascism.

Finance

FIN 2104 PERSONAL FINANCE (3)
Survey of the problems and techniques of personal financial planning. Includes consumer credit, insurance, home ownership, and personal investing, with attention given to current economic and legal constraints. Not available for credit to upper level students who have been admitted to the College of Business. May not be counted toward major requirements in FIN or GBA.

FIN 2107 INTRODUCTION TO INVESTMENTS (3)
Emphasizes the operations of the security markets in the U.S. and the risks and returns of alternative investment media. Designed for non-business administration students. Not available for credit to upper level students who have been admitted to the College of Business. May not be counted toward major requirements in FIN or GBA.

FIN 2935 SELECTED TOPICS IN FINANCE (1-6)
PR: Cl.
Topics to be selected by department chairs. May be repeated if topics vary. Not available for credit to upper level students who have been admitted to the College of Business Administration. May be repeated up to 6 credit hours.

FIN 3233 MONEY AND BANKING (3)
PR: ECO 2013.
Examines the structure and operations of our monetary system, commercial banking, central banking, money, and capital markets, and provides an introduction to monetary theory and policy.

FIN 3403 PRINCIPLES OF FINANCE (3)
PR: ACG 2071 or Cl and ECO 2023.
Study of the processes, decisions structures, and institutional arrangements concerned with the use and acquisition of funds by a firm. Includes the management of the asset and liability structure of the firm under certain and risky situations. The financial decision process will include and recognize the international as well as domestic aspects of financial management.

FIN 3604 INTERNATIONAL FINANCE (3)
PR: ECO 2013, FIN 3403 or Cl.
Study of factors affecting international business, assessment of risks, international managerial finance; institutions and instruments of international business finance.

FIN 4243 FEDERAL RESERVE SYSTEM AND MONETARY POLICY (3)
PR: FIN 3233 or Cl.
An analysis of the Federal Reserve System, with special emphasis on monetary theory and the formulation and administration of monetary policy.

FIN 4303 FINANCIAL INSTITUTIONS AND MARKETS (3)
PR: FIN 3403.
A study of financial institutions and their roles in helping to allocate savings in the economy. Also includes
a description and analysis of securities issued and traded in money and capital markets.

FIN 4324 BANK MANAGEMENT
PR: FIN 3403 and FIN 3233. Application of traditional finance concepts to the management of commercial banks with emphasis on money market making and problem solving techniques to major problem areas in banking.

FIN 4412 WORKING CAPITAL MANAGEMENT
PR: FIN 3403. This course is designed to provide the student with an understanding of short-term financial management. Topics to be covered include cash management, credit and collection policy, inventory decisions, and sources of short-term financing.

FIN 4414 ADVANCED CORPORATION FINANCE
PR: FIN 4504. An examination of the financial policies of corporations, with special reference to dividend policy, financial structure, capital expenditures, acquisitions, mergers, and reorganization.

FIN 4443 FINANCIAL POLICIES AND STRATEGIES
PR: FIN 4414. A senior seminar for majors in Finance. Primarily a case course examining financial policies and the application of financial analysis to alternative strategies.

FIN 4481 INVESTMENT MANAGEMENT
PR: ECO 2013 and FIN 3403. Survey of the risks and returns of investment media in relation to the investment objectives of individual and institutional investors. Includes an examination of the capital markets, information flows, and analytical techniques in terms of their impact upon the valuation process.

FIN 4514 ADVANCED INVESTMENT ANALYSIS AND MANAGEMENT
PR: FIN 4504. A comprehensive survey of security analysis and portfolio management. The course will utilize a quantitative approach to investment selection and management.

FIN 4915 INDEPENDENT STUDY
PR: CI. Specialized independent study determined by the chairperson. The research project will be mutually determined by the student and instructor. May be repeated up to six credit hours. (S/U only.)

FIN 4934 SELECTED TOPICS IN FINANCE
PR: CI. Topics to be selected by instructor and department chairperson on pertinent Finance issues.

RMI 3011 REAL ESTATE DECISION MAKING
PR: FIN 3403. Acquaints students with the range of knowledge required to engage in real estate decision making in the United States. Integrates the institutional framework with which decisions are made, the elements of financial analysis, deal structuring, and marketing, and the pricing, financing and allocation of real property in the real estate markets.

REE 4303 REAL ESTATE INVESTMENT ANALYSIS
PR: FIN 4504. A comprehensive study of the determinants of the market and financial feasibility of the real estate investment decision. The development of market and site analyses, theories of urban development patterns, and the role of taxation will be studied along with the application of analytical techniques for decision making.

RMI 3011 PRINCIPLES OF INSURANCE
PR: QMB 3200, RMI 3011. The course will analyze the use of life, health, and disability insurance contracts as a method of dealing with the risks of death, sickness, and disability. It will include an analysis of cost determination of the various types of coverage.

RMI 4210 PROPERTY INSURANCE
PR: RMI 3011. Course dealing with recognition of personal and business property risks, and coverages which may be used in dealing with these risks. Considers the underwriting, marketing, and social problems associated with these coverages. Topics include commercial risks and business property risks, and coverages which may be used in dealing with these risks. Considers the underwriting, marketing, and social problems associated with these coverages. Topics include workmen's compensation, public liability, auto liability, suretyship and crime insurances. Not limited to Finance majors.

RMI 4220 CASUALTY INSURANCE
PR: RMI 3011. Course dealing with recognition of personal and business casualty risks and coverages which may be used in dealing with these risks. Topics include commercial risks and business property risks, and coverages which may be used in dealing with these risks. Considers the underwriting, marketing, and social problems associated with these coverages. Topics include workmen's compensation, public liability, auto liability, suretyship and crime insurances. Not limited to Finance majors.

Information Systems and Decision Sciences

CGS 2100 COMPUTERS IN BUSINESS
PR: CGS 2100; ACG 2021; ACG 2071 or equivalent. The course will examine the computer system strategy, the hardware and software systems used by business organizations. Course includes hands-on experience and the use of software packages for business analysis.

ISM 3011 MANAGEMENT INFORMATION SYSTEMS
PR: RMI 3011. This course will explore the foundations of systems analysis and design. The course will cover systems analysis and design in a variety of business environments, including computer-based business systems.

ISM 3230 INTRODUCTION TO BUSINESS APPLICATION DEVELOPMENT
PR: CGS 2100 or equivalent, or CI. Introduction to problem-solving and business application development. Review of programming and programming languages. Basic programming concepts are presented in a modern programming language. Principles of programming style are emphasized. Projects cover business applications.

ISM 3232 ADVANCED BUSINESS APPLICATION DEVELOPMENT
PR: ISM 3320. Advanced presentation of business application development using a modern programming language. Advanced topics include data structures, indexing, file processing, and user interfaces. Good program design techniques are emphasized. Projects cover business applications.

ISM 3343 MANAGEMENT SCIENCE PRODUCTION/OPERATIONS MANAGEMENT APPLICATIONS
PR: MAC 2233, Fundamentals of production and operations management (POM) and fundamentals of management science (MS). The course will cover MS models in the solution of POM problems.

ISM 4212 DATABASE DESIGN AND ADMINISTRATION
PR: ISM 3113, ISM 3320 with grades of "C" or better. Principles of database design/management for mainframe, micro, and client/server environments. Includes database conceptual and logical design, database modeling, physical vs. logical representation and back-up and recovery management.

ISM 4218 ADVANCED SYSTEMS ANALYSIS AND DESIGN
PR: ISM 3320, ISM 3113, ISM 4212. This course builds on previous class and/or work experience in systems development. Students will have opportunities to apply commercial and academic experience in an integrated CASE tool on a team project. Students will gain an understanding of systems development problems and approaches using a variety of methods, such as, lectures, discussion, team presentations, guest speakers, demonstrations, and computer use.

ISM 4219 ADVANCED DATABASE ADMINISTRATION
PR: ISM 3113, ISM 4212. Essential concepts of database administration in a business environment are covered in
order to prepare students to understand and deal with database administration issues and concepts. Students gain hands-on experience by administering a database environment and completing assignments that involve resource management, data administration, security, backup, recovery and database tuning issues.

**ISM 4220 BUSINESS DATA COMMUNICATIONS**
- PR: ISM 3113. Fundamentals of data communication, including network architectures, communication protocols, transmission standards and media access control methods.

**ISM 4234 INFORMATION SYSTEM INTERFACE DESIGN**
- PR: ISM 3230. The fundamental concepts of human perception and cognition are studied in order to develop effective human-computer interfaces. Various types of interfaces are examined. Students will develop human-computer interfaces via state-of-the-art development languages and systems.

**ISM 4290 OBJECT-ORIENTED DESIGN AND DEVELOPMENT**
- PR: ISM 3232. This course presents an object-oriented approach to software development of business information systems. Students will learn to create object models of the business world and to develop information system designs based on these objects. The designs will be implemented using C++, VisualBasic, or other OO (object-oriented) programming languages.

**ISM 4240 DISTRIBUTED OPERATING SYSTEMS**
- PR: ISM 3230. Introduction to distributed operating systems fundamentals such as distributed systems architecture, file structures, client-server, open systems, resource allocation, and basic tools for manipulating these operating environments.

**ISM 4290 SENIOR SEMINAR IN INFORMATION SYSTEMS**
- PR: ISM 3113, ISM 4300. A seminar covering advanced topics in systems management, analysis and design. Applications of these procedures to actual or hypothetical cases.

**ISM 4300 MANAGING INFORMATION RESOURCES**
- PR: ISM 3113, ISM 4212 and ISM 4220 with grades of "C" or better. Current issues in information systems management focusing on organizational policies, procedures and standards for managing distributed computing resources.

**ISM 4320 INFORMATION SYSTEMS CONTROLS**
- PR: MIS Major or CI. A study of information systems control and its application in system design and system management. Students who complete this course will not receive credit for ACG 4621.

**ISM 4400 DECISION SUPPORT SYSTEMS APPLICATIONS- COMPUTERIZED DECISION MAKING**
- PR: FIN 3403, QMB 3200, and ISM 3113. Methods and techniques for developing systems to support decision making in business organizations.

**ISM 4475 ELECTRONIC COMMERCE SYSTEMS**
- PR: MIS Major or CC. This course is designed to familiarize students with the opportunities and challenges associated with electronic commerce, to explore the underlying technologies used in implementing electronic commerce systems, and to develop the practical skills needed to design and develop effective Web pages.

**ISM 4905 INDEPENDENT STUDY**
- (1-6) Independent study as directed by designated faculty. May be repeated up to 6 credit hours. (S/JU only)

**ISM 4930 SELECTED TOPICS IN MIS**
- (1-3) Selected topics in MIS.

**ISM 4950 INDEPENDENT RESEARCH**
- (1-6) PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. No more than 3 hours may be counted as MIS elective.

**MAN 4504 OPERATIONS MANAGEMENT: A SYSTEMS APPROACH**
- PR: ISM 3431 or equivalent. Studies the problems of "operations" in various types of enterprises, both the public and private sectors. Emphasis is placed on the application of various decision science methodologies to problem situations.

**MAN 4507 OPERATION PRODUCTION SYSTEMS**
- PR: MAN 4504 or CI. Study of closed loop production planning and control systems. Master production planning, inventory management, materials requirements planning, capacity, management, production activity. Relationship to organizational effectiveness.

**QMB 2100 BUSINESS AND ECONOMIC STATISTICS I - 6A - QM**
- PR: MAC 2233. Description of sample data; calculation of probabilities, frequency functions of random variables, the binomial and normal distributions; sampling theory and estimation; test of hypotheses; elements of Bayesian decision theory.

**QMB 3200 BUSINESS AND ECONOMIC STATISTICS II**
- PR: MAC 2233, QMB 2100. Theory and use of statistical inference. Point and interval estimations; criteria for choosing estimators and decision rules; hypotheses tests; analysis of variance; correlation; multiple regression; and non-parametric methods.

**QMB 4600 QUANTITATIVE APPROACH FOR BUSINESS DECISIONS**
- PR: ISM 3431. The use of systematic approaches and management science tools for decision making and problem solving in an organizational setting. Emphasis is on quantitative approaches for problem identification, analysis, choice and implementation.

**QMB 4703 SIMULATION AND MODELING TECHNIQUES**
- PR: ISM 3431 or CI. A study of manual and computer simulation techniques and their application to problem solving in management (behavioral and quantitative). Knowledge of a computer language and the basic tools and techniques of management science is advised.

**Management**

**MAN 3025 PRINCIPLES OF MANAGEMENT**
- Study of the fundamentals of management. It treats topics in organizational theory, organizational behavior, and interpersonal relations which are relevant to effective management performance.

**MAN 3240 ORGANIZATIONAL BEHAVIOR ANALYSIS**
- PR: MAN 3025. The course covers research literature relevant to organizational functioning including behavioral effects of power and authority, formal organization, structural variation, leadership, motivation, and communication.

**MAN 3301 HUMAN RESOURCE MANAGEMENT**
- To develop a broad exposure to new approaches, techniques, and future trends in the management of personnel. A study of the major functions in personnel including job analysis, manpower planning, selection, performance evaluation, training, and wage and salary administration.

**MAN 3401 INDUSTRIAL RELATIONS**
- A conceptualization of the administrative problems arising from unionization. Emphasis on the relationship between management and employee representatives in private and public employment.

**MAN 4120 MANAGERIAL BEHAVIORAL LABORATORY**
- PR: MAN 3240 or equivalent. Development of direct understanding of personal, interpersonal, and intergroup factors present in organizational interaction. Stress is on a series of experiential exercises and written application of results within a laboratory setting.

**MAN 4129 THEORY AND PRACTICE OF MANAGEMENT SKILLS**
- (3) This course involves the transference of management theories into practice. It requires the active involvement of students in developing and practicing the skills needed to be a successful manager.

**MAN 4202 ORGANIZATIONAL EFFECTIVENESS**
- (3) PR: MAN 3240. The analysis and measurement of factors which influence organizational effectiveness and the quality
of work life. Data based cases will be used by students to assess managerial and supervisory skills and to measure organizational functioning and work design.

MAN 4402 EMPLOYMENT LAWS (3)
Federal and state regulation of the employment relationship, including wage and hour laws; EEO; affirmative action programs; employee benefits; insurance; workers' compensation, safety, health, employee's personal rights; collective bargaining legislation.

MAN 4430 SEMINAR IN NEGOTIATIONS AND ADMINISTRATION OF LABOR AGREEMENTS (3)
Case studies in contract negotiation, administration, grievance settlement, and arbitration. Assumes familiarity with industrial relations system.

MAN 4802 ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT (3)
PR: ACC 2021, ACC 2071, MAR 3023, or Cl. Study of the factors involved in starting and managing a small-to-medium-sized business. Emphasis on conduct of pre-business feasibility study, start-up of business, successful management of the firm, and options for succession or termination.

MAN 4804 SMALL BUSINESS MANAGEMENT COUNSELING (3)
PR: MAN 4802 or Cl. Field application in small business settings by (a) analyzing an on-going small business and developing recommendations for making improvements; or (b) conducting a feasibility study for a new enterprise and developing a strategy for implementation if favorable.

MAN 4905 INDEPENDENT STUDY (1-3)
PR: Cl. Specialized independent study determined by the students' needs and interests. May be repeated up to 8 credit hours. (SU only)

MAN 4930 SELECTED TOPICS IN MANAGEMENT (1-3)
PR: Cl. Topics to be selected by instructor and department chairperson for pertinent Management issues.

MAN 4931 INDEPENDENT RESEARCH (1-4)
PR: Cl. In-depth contact with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 8 hours.

Marketing

MAR 2931 SELECTED TOPICS IN MARKETING (1-4)
PR: Cl. Topics to be selected by department chairman. May be repeated if topics vary. Not available for credit to upper-level students who have been admitted to the College of Business. May be repeated up to 6 credit hours.

MAR 3023 BASIC MARKETING (3)
PR: ACG 2021, ECO 2013, ECO 2023, or Cl. Survey of the marketing of goods and services within the economy. Attention is paid to the impact of marketing on other functional areas of business as well as society.

MAR 3400 PROFESSIONAL SELLING (3)
PR: MAR 3023 or Cl. A study of the stages of the professional selling process, and the role of sales in today's marketing environment. Emphasis on learning adaptive selling techniques and developing effective interpersonal communications skills. Sales careers are examined.

MAR 3613 MARKETING RESEARCH (3)
PR: QMB 3200, MAR 3023. A study of research methods and techniques applicable to problem solving in marketing. Attention is also given to defining information needs, determining the value of information, interpreting and reporting information for use in marketing decision making.

MAR 3823 MARKETING MANAGEMENT (3)
PR: MAR 3023. An applications oriented study of the marketing function at an intermediate level. Emphasis upon techniques for analysis and problem-solving. Builds upon the principles and concepts learned in MAR 3023, and provides a strong foundation for the remaining courses in the marketing curriculum.

MAR 4156 INTERNATIONAL MARKETING (3)
PR: MAR 3023. A study of procedures and problems associated with establishing marketing operations in foreign countries. Includes the institutions, principles and methods involved in the solution of these business problems as well as the effects of national differences on business practices and buyer behavior.

MAR 4203 CHANNELS MANAGEMENT (3)
PR: MAR 3023. A detailed study of marketing channels as a functional area of marketing management responsibility and as a part of marketing strategy. Attention is given to wholesaling and retailing and their structural, dynamic interrelationships including distribution logistics.

MAR 4213 LOGISTICS AND PHYSICAL DISTRIBUTION MANAGEMENT (3)
PR: MAR 3023 or Cl. A study of logistics in the marketing of goods and services. Includes a description and analysis of the logistics environment as well as components of the physical distribution system with emphasis on information flows and the application of quantitative techniques used in establishing and controlling customer service levels.

MAR 4231 RETAILING MANAGEMENT (3)
PR: MAR 3023. A comprehensive study of the retailing structure, institutions, and environment. Includes pertinent management theories and practices in analyzing, organizing, planning and controlling retail operations, both large and small.

MAR 4333 PROMOTION MANAGEMENT (3)
PR: MAR 3023 or Cl. A study of the role of promotion in the marketing program of the firm, including the promotional tools available to the marketing manager and the various types of decisions made in the promotional area. Decision making process in development of a promotional program is emphasized.

MAR 4403 SALES MANAGEMENT (3)
PR: MAR 3023 or Cl. A study of sales management and strategy as a subset of marketing management. Emphasis is placed on developing the problem-solving and decision-making skills required of the sales manager in the modern market-oriented company.

MAR 4453 BUSINESS TO BUSINESS MARKETING (3)
PR: MAR 3023. A study of the marketing of goods and services to the industrial and institutional sectors. Includes characteristics of the markets and channels of distribution, sales, management, research and promotional practices, marketing policies and strategies.

MAR 4503 BUYER BEHAVIOR (3)
PR: MAR 3023. A study of the basic concepts of buyer behavior, including pre- and post-purchase attitudes and behavior patterns, information processing relating to the functional areas of marketing and the buyer's decision-making process. Managerial applications to marketing are emphasized.

MAR 4524 MARKETING MANAGEMENT PROBLEMS (3)
PR: Senior Standing, MAR 3023, MAR 3613, and two other 3000 level marketing courses, or Cl. The integration of marketing knowledge applied to decision roles in managing the total marketing effort of firms, and coordination with other major functional areas on specific problems.

MAR 4903 INDEPENDENT RESEARCH (1-3)
PR: Cl. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 6 credit hours.

MAR 4905 INDEPENDENT STUDY (1-3)
PR: Cl. Specialized independent study determined by the students' needs and interests. May be repeated up to 6 credit hours. (SU only)

MAR 4933 SELECTED TOPICS IN MARKETING (1-3)
PR: Cl. Topics to be selected by instructor and department chairperson.
The College of Education is accredited by the National Council for Accreditation of Teacher Education (NCATE). The College emphasizes student learning outcomes relevant for the world of the 21st century. Program goals focus on graduating highly competent teachers who reflect on their own professional practice and continue their professional development.

The College of Education is committed to a continuous and systematic examination of the professional program of teacher education. Professional practice is examined under controlled conditions, which make possible an objective appraisal of effects in terms of learning outcomes.

The University of South Florida follows a University-wide approach to teacher education. Its programs for the preparation of teachers represent cooperative effort in planning and practice by faculties of all academic areas. Courses needed by teacher candidates but designed also for other students are offered outside the College of Education. Courses in the University which are primarily designed for teacher candidates are taught by the College of Education faculty.

In the total teacher education program there is a special concern for developing in the student a deep interest in intellectual inquiry and the ability to inspire this interest in others.

All programs meet the requirements of chapter 6A-5, Rules of the State Board of Education of Florida, and have "Approved Program" status.

**BACCALAUREATE-LEVEL DEGREE PROGRAMS**

**Admission to the College**

All students who plan to teach must apply for admission to a teacher education program through the Student Academic Services Office of the College of Education.

Admission to an upper level teacher education program is contingent upon meeting the following minimum college requirements:

1. Completion of a College of Education application form.
2. Completion of the General Education requirements.
3. Completion of all portions of the CLAST with passing scores.
4. Completion of the following prerequisites:
   - EDF 1005/2005 Introduction to Education
   - EDG 2701 Teaching Diverse Populations
   - EME 2040 Introduction to Educational Technology
   - At least 9 of the 15 hours of electives beyond the General Education requirements
5. An overall minimum GPA of 2.5 on all attempted hours plus a minimum ACT score of 20 or SAT score of 960 (840 if taken before April 1, 1995) will be required for full admission to the College. An overall minimum GPA of 2.25 on all attempted work will be accepted for students with a 22 or higher ACT score or SAT score of 1030 (940 if taken before April 1, 1995).
6. Admission to programs will be based upon the applicants' performance on either test. If the number of applicants exceed the capacity of a program, preference will be given to students with higher scores. Students who meet all other requirements but have not achieved minimum test scores or minimum GPA may be considered under Affirmative Action.
7. Additional criteria as may be established by each program. (See Admission to Programs below.)

**Time Limitations**

The College of Education may accept professional education and specialization coursework completed at this University or at other accredited institutions as follows:
1. Courses completed within the last five years may be accepted.
2. Courses completed over five years but less than ten years ago must have the approval of the chairperson from the department in which the equivalent course is taught.
3. Courses completed ten years ago or longer will count as elective credit only.

**Qualification for Internship Experience**

The final internship experience is observing and teaching in early childhood, elementary, secondary, or exceptional schools. Internship sites include the entire spectrum of sites available in the various counties served by USF. Special vocational sites are arranged through the Adult and Vocational Education Department. Other than Senior Seminar and EEX 4070, students may not enroll in additional courses during the semester in which the internship occurs.

Special requirements for enrollment in the final internship and seminar courses are:
1. Admission to the College of Education at least one semester before internship.
2. Completion of General Education, "Gordon Rule," and all other program prerequisites.
3. Completion of an application for the final internship by the deadlines noted below.
4. Elementary, Early Childhood and Physical Education programs require completion of all professional education and specialization course work except for EEX 4070. Elementary and Early Childhood programs also require a combined grade point average of 2.5 in professional and specialization course work as well as an overall GPA of 2.5.
5. Secondary Education, Special Education and Vocational Education programs require completion of the professional course sequence except for EEX 4070/EDF 4430 a minimum of two thirds of the specialization coursework, plus a minimum GPA of 2.5 in each area or an overall GPA of 2.5. Students must earn a "C" grade or higher in their required major courses. "S/U" grades are not accepted.
6. Applications for internship may be obtained in the Office of Student Academic Services. Applications for Fall Semester are due the preceding January 30. Applications for Spring Semester are due the preceding June 30.

**College Requirements for Graduation**

To be certified by the College of Education for graduation, a student must have earned 120 semester hours credit. A minimum overall USF grade-point average of 2.5 or a minimum GPA of 2.5 in teaching specialization courses and a minimum GPA of 2.5 in the Professional Education sequence is required. The Elementary and Early Childhood programs require a combined grade point average of 2.5 in professional education and specialization as well as an overall 2.5. Satisfactory completion of the internship is also required. Prior to completion of the internship, the student must pass both the subject area for the appropriate area and the Professional Education sections of the Florida State Teacher Certification Examination. A student must also have completed the major requirements in a state-approved teacher education program (which includes general preparation, teaching specialization, and professional preparation). A minimum of 8 credits in professional courses in addition to internship and 12 credits in specialization courses must have been earned at USF. The student must complete a minimum of 30 hours after admittance to an upper level program and must meet all University requirements.

Normally, the college will recommend the granting of a Bachelor of Science (BS) degree. To obtain a Bachelor of Arts (BA) degree, the student must meet the Foreign Language Competency (see graduation requirements in front of catalog).
SunCoast Area Teacher Training Program (SCATT)

SCATT is an award-winning teacher training program founded on the premise that prospective teachers are the key to influencing the future of our society. The SCATT program offers students a variety of activities, workshops, and seminars that enhance their views of education as a field of study.

The entrance requirements for the program help identify those students who have demonstrated high levels of academic achievement, ability, leadership, and a commitment to the profession. To graduate as a SCATT student, individuals participate in experiences each semester prior to final internship which extend "above and beyond" the requirements of the present academic program. These include educational fieldtrips, workshops on current teaching strategies, hands-on experiences with students, and opportunities to network with other education majors. During final internship, SCATT students participate in additional training that emphasize communication skills, approaches to classroom management, and professionalism. SCATT also helps prospective employers identify highly-qualified pre-service teachers for positions in the university's service area.

To apply to the SCATT program, students must be admitted to the College of Education in a program that requires a full-time internship, complete an application available from the SCATT office, and attend a scheduled Interview/Orientation. For further information please call (813) 974-2061.

Programs Leading to the Baccalaureate Degree

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

<table>
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<tr>
<th>Program</th>
<th>Department</th>
<th>Code</th>
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<tbody>
<tr>
<td>Behavior Disorders</td>
<td>Special Education</td>
<td>(EBD)</td>
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<tr>
<td>Business and Office</td>
<td>Adult &amp; Vocational</td>
<td>(BTE)</td>
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<td>Education</td>
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<td>Early Childhood Education</td>
<td>Child/hood/Language Arts/Reading</td>
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<td>Elementary Education</td>
<td>Child/hood/Language Arts/Reading</td>
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<td>English Education</td>
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<td>Foreign Language</td>
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<td>Spanish</td>
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<tr>
<td>Industrial-Technical</td>
<td>Adult &amp; Vocational</td>
<td>(EVT)</td>
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<td>Education/Technology</td>
<td>Education</td>
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<td>Mathematics</td>
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<td>Mental Retardation</td>
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<td>Physical Education</td>
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<td>(PTE)</td>
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<td>K-8</td>
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<td>(PTS)</td>
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<td>6-12</td>
<td>Wellness Leadership</td>
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<td>Science Education</td>
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<td>Biology</td>
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<td>(NSB)</td>
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<td>Physics</td>
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<td>Social Science Education</td>
<td>Secondary Education</td>
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<td>Specific Learning Dis/ Special Education</td>
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<td>abilities Education</td>
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<tr>
<td>Art, Drama, and Music Education</td>
<td>College of Fine Arts</td>
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<td>See Departmental Section for specific program requirements.</td>
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* A Bachelor of Arts degree may be awarded when competency in foreign language is demonstrated.

Teacher Education Program

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

1. General Education Requirements (36 credit hours)

See the University General Education Requirements section of the catalog.

2. Common Prerequisites (24 credit hours)

Common Prerequisites will apply to all students entering the College of Education beginning in Fall 1998.

- EDF 1005/2005 Introduction to Education (3)
- EDG 2701 Teaching Diverse Populations (3)
- EME 2040 Introduction to Educational Technology (3)
- Electives (may be specified by program) (15)

3. Professional Education Core (25-30 credit hours)

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

- EDF 3122 Learning and the Developing Child (For Elementary or Early Childhood Majors) (3)
- EDF 3214 Human Development and Learning (3)
- EDF 3604 Social Foundations of Education (3)
- EDF 3542 Philosophy of Education (4)

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

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

5. Liberal Arts Exit Requirements (9 credit hours)

- a. Six hours from the list of approved courses dealing with Major Works and Major Issues.*
- b. Three hours of Literature and Writing from the list of approved courses.*

* See advisor for approved courses.

Three of these nine hours may be taken S/U and up to six hours may be included in the program requirements.

DEPARTMENTS AND PROGRAMS

The College of Education is organized into 8 departments. Each department has one or more programs which are listed alphabetically in the following departmental section.

Department of Adult & Vocational Education and Human Resource Development

The Adult & Vocational Education and Human Resource Development Department at USF offers degrees through the College of Education designed to prepare teachers and leaders in the various fields of Vocational-Technical and Adult Education and in the human resource development field. Certification programs leading to the Bachelor of Science (B.S.) degree are: Business and Office Education, Industrial-Technical Education, and Technology Education.
BUSINESS AND OFFICE EDUCATION

The Business and Office Education curriculum is designed to serve students who wish to focus on the needs of today’s workplace, and combine teaching with business experience while achieving initial teaching certification for grades 6-12.

- Requirements for the B.S. Degree (BTE):
  General Education and Professional Education requirements are listed under Teacher Education Program.

Prerequisites (State Mandated Common Prerequisites):
These prerequisites must be met by transfer students as well as USF students.
A grade of "C" is the minimum acceptable grade.
EDF 1005/2005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology
(Equivalent course or demonstrated competency may be substituted)
AGG X001 Financial and Managerial Accounting I
AGG X011 Financial and Managerial Accounting II
ECG X013 Macroeconomic Principles (Macroeconomics)
ECG X023 Economic Principles (Microeconomics)
XXXXXXX Electives in Business Administration, 3 semester hours
At least one course taken to meet the natural science requirements in General Education must include a laboratory component.
In addition to EDG 2701, Lower division courses must include 6 credit hours with an international or diversity focus. Professional education courses taken at the community college will transfer as general electives.

Specialization Requirements (37 cr. hrs.):
- BTE 4948 Field-Based Seminar (3)
- BTE 4909 Directed Study (3)
- BTE 4401 Special Methods (4)
- BUL 3112 Business Law I (3)
- CGS 2000 Computers in Business I (3)
- DEC 4161 Program Management (3)
- ENC 3210 Technical Writing or ENC 3213 Professional Writing (4)
- EVT 4651* Equity in the Schools and Workplace (3)
- FIN 3100 Personal Finance (3)
- MAN 3025 Principles of Management (3)
- Business Elective (3)
- Word Processing (3)
*Approved Liberal Arts Exit Requirement

INDUSTRIAL-TECHNICAL EDUCATION

- Requirements for the B.S. Degree (EVT):
  General Education requirements are listed under Teacher Education Program.

INDUSTRIAL-TECHNICAL EDUCATION TRACK:
Enrollment in the Industrial-Technical Education program is restricted to persons with employment experiences qualifying them to teach in Industrial, Technical, Health Occupations, or Public Service areas.
Special provision is made for students to satisfy four (4) of the required six (6) years of work experience in a specific occupation by completing an Associate of Science degree program in a technological specialty or successfully completing an appropriate occupational competency exam.
Acceptability of work experience will be determined by the program advisor.
Students may validate up to 30 semester hours of credit through the Occupational Competency Testing Program, or appropriate licensure or certificate.

Prerequisites (State Mandated Common Prerequisites):
The prerequisites must be met by transfer students as well as USF students.
A grade of "C" is the minimum acceptable grade.
EDF 1005/2005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology
(Equivalent course or demonstrated competency may be substituted)
An additional 15 semester hours should be completed in a Vocational Specialty Area. At least one course taken to meet the natural science requirements in General Education must include a laboratory component.
In addition to EDG 2701, Lower division courses must include 6 credit hours with an international or diversity focus. Professional education courses taken at the community college will transfer as general electives.

Specialization and Professional (56 cr. hrs.):
- ADE 4384 Working With Adult Learners (3)
- EDF 3604 Social Foundations of Education (3)
- EIV 4210* Program Management (4)
- EIV 4360 Special Teaching Methods: Industrial-Technical Education (4)
- EIV 4065 History & Principles of Vocational Education (4)
- EIV 4084 Professional Development in Industrial Technical Education (4)
- EVT 4165 Curriculum Construction: Industrial-Technical Education (3)
- EVT 4365 Basic Teaching Methods in Vocational Education (4)
- EVT 4367 Assisting Student Skill in Industrial-Technical Education (4)
- EVT 4562 Vocational Education for Special Needs Students (4)
- EVT 4651 Equity in Schools and Workplace (3)
- EVT 4936 Senior Seminar in Education (2)
- EVT 4940 Internship (10)
- EVT 4946 Supervised Field Experience: Industrial-Technical Education (4)

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

TECHNOLOGY EDUCATION TRACK:
Within the EVT program, students can pursue state certification in Technology Education. In general, students enrolling in the Technology Education program are expected to have successfully completed, at a community college, most of the technical laboratory courses required for Florida Teacher Certification. Teacher certification requires students to have 30 semester hours, with three (3) semester hours in each of the following areas: (a) materials and processes, (b) drafting and design, (c) energy, (d) graphics, (e) electronics, (f) construction, and (g) industrial systems.

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

The program of studies includes both course work and extensive field experience in school settings. This is to enable students to integrate theory with teaching practice.
Technology Education students must complete the General Education Requirements of 36 semester hours, Prerequisites of 24 semester hours, the Professional Education Core Requirements of 25-30 semester hours, the Technical Course Requirements of 30 semester hours, and 19 semester hours in Adult and Vocational Education.
Prerequisites (State Mandated Common Prerequisites):
These prerequisites must be met by transfer students as well as USF students.
A grade of "C" is the minimum acceptable grade.
EDF 1005/2005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology
(Equivalent course or demonstrated competency may be substituted)

An additional 15 semester hours should be completed in a technological area of specialization. At least one course taken to meet the natural science requirements in General Education must include a laboratory component.

In addition to EDG 2701, Lower division courses must include 6 credit hours with an international or diversity focus. Professional education courses taken at the community college will transfer as general electives.

Specialization (19 cr. hrs.):
EIA 3192 Technology Education and Society (4)
EIA 4360 Special Teaching Methods: Technology Education (3)
EIV 4210 Program Management: Industrial-Technical Education (4)
EVT 4165 Curriculum Construction: Industrial-Technical Education (4)
EVT 4365 Basic Teaching Methods in Vocational Education (4)
Plus electives selected with advisor approval.

Department of Childhood/Language Arts/Reading Education

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

Recommended prerequisites for admission to these programs include two American History courses, one American History and one American National Government course. These courses may be taken as part of the general education requirement.

Admission is limited to fall and spring semesters.

Early Childhood Program

Student may complete a program to be eligible for licensure in Early Childhood Education Pre-Kindergarten/Primary (age 3 - Grade 3). The current program of studies includes both coursework and extensive field experiences in early childhood settings to enable students to integrate theory with teaching practice. Upon successful completion of the required courses and the associated internships, Early Childhood majors will be eligible for certification in Pre-Kindergarten/Primary (age 3 - Grade 3).

Elementary Education Program

Students may complete a state-approved program to be eligible for certification in Elementary Education (Grades 1-6). Degree and certification requirements are subject to change. The current program of studies includes both coursework and extensive field experience in elementary school settings to enable students to integrate theory with teaching practice.

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

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

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

ELEMENTARY EDUCATION

• Requirements for the B.S. Degree (EDE):
  General Education and Professional Education requirements are listed under Teacher Education Program.

Prerequisites (State Mandated Common Prerequisites):
These prerequisites must be met by transfer students as well as USF students.
A grade of "C" is the minimum acceptable grade.
EDF 1005/2005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology
(Equivalent course or demonstrated competency may be substituted)

Students should also complete 15 hours beyond those taken to meet General Education Requirements from the following liberal arts and sciences areas: a) fine arts or humanities; b) political sciences, sociology, economics, cultural geography, or speech; c) mathematics; d) natural sciences; and/or e) psychology. Among these 15 hours must be included one course in mathematics, and combined with the General Education Requirements, two courses in the natural sciences, one of which must include a laboratory component.

In addition to EDG 2701, Lower division courses must include 6 credit hours with an international or diversity focus. Professional education courses taken at the community college will transfer as general electives.

Specialization (41 cr. hrs.):
ARE 4313 Art For the Child and You (3)
EDF 4941 Childhood Education Internship Level I (3)
EDF 4942 Childhood Education Internship Level II (6)
HLP 4722 Health and Physical Education for the Child (3)
LAE 4314 Language Arts in Childhood Education (3)
LAE 4414* Literature in Childhood Education (3)
MAE 4310 Teaching Elementary School Mathematics I (3)
MAE 4326 Teaching Elementary School Mathematics II (2)
MUE 4210 Music For The Child (3)
RED 4310 Early Literacy Learning (3)
RED 4511 Literacy in the Intermediate and Middle Grades (3)
SCE 4310 Teaching Elementary School Science (3)
SSE 4313 Teaching Elementary School Social Studies (3)

Students are advised that the Elementary Education specialization will require an enrollment of more than the traditional four semesters of the junior and senior years in order to complete the program specialization courses and the required sequence of internships.
*Approved Liberal Arts Exit Requirement

EARLY CHILDHOOD EDUCATION:

• Pre-Kindergarten/Primary
• Requirements for the B.S. Degree (EEC):
  General Education Requirements are listed under Teacher Education Program.
Prerequisites (State Mandated Common Prerequisites):
These prerequisites must be met by transfer students as well as USF students.
A grade of "C" is the minimum acceptable grade.
EDF 1005/2005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology
(Preferred course or demonstrated competency may be substituted)
Students should also complete 15 hours beyond those taken to meet General Education Requirements from the following liberal arts and sciences areas: a) fine arts or humanities; b) political sciences, sociology, economics, cultural geography, or speech; c) mathematics; d) natural sciences; and/or e) psychology. Among these 15 hours must be included one course in mathematics, and combined with the General Education Requirements, two courses in the natural sciences, one of which must include a laboratory component.
In addition to EDG 2701, Lower division courses must include 6 credit hours with an international or diversity focus.
Professional education courses taken at the community college will transfer as general electives.

Program Requirements (33 credit hours)
1. ENGLISH:
ENC 3310 Expository Writing (3)
One of the following:
LIT 3101 Great Literature of the World (3)
HST 4263 Third World Women Writers (3)
Two of the following:
AML 3031 American Literature to 1860 (3)
AML 3032 American Literature 1869-1912 (3)
AML 3051 American Literature 1912-1945 (3)
AML 3604 African-American Literature (3)
AML 4111 Nineteenth-Century American Novel (3)
AML 4121 Twentieth-Century American Novel (3)
LIT 4386 British and American Literature by Women (3)
One of the following:
ENL 3015 British Literature to 1616 (3)
ENL 3230 British Literature 1616-1780 (3)
ENL 3251 British Literature 1780-1900 (3)
ENL 3273 British Literature 1900-1945 (3)
One of the following:
ENL 3331 Early Shakespeare (3)
ENL 3332 Late Shakespeare (3)
One of the following:
ENG 4060 History of the English Language (3)
LIN 3010 Introduction to Linguistics (3)
LIN 3670 English Grammar and Usage (3)
LIN 4671 Traditional English Grammar (3)
2. ENGLISH EDUCATION:
LAE 4323 Methods of Teaching English: Middle School (3)
LAE 4464 Adolescent Literature for Middle and Secondary Students (3)
LAE 4530 Methods of Teaching English: Practicum (3)
LAE 4642 Methods of Teaching English: High School (3)
LAE 4530 must be taken concurrently with LAE 4642 (PR: LAE4464), the fall or spring immediately preceding internship. LAE 4323 should be taken the semester prior to enrolling in LAE 4530. Methods courses are available in Fall and Spring Semesters, only.

FOREIGN LANGUAGE EDUCATION:
General Education and Professional Education requirements are listed under Teacher Education Program. A minimum of 30 credit hours beyond intermediate course requirements must be earned in the foreign language. Programs are available for Spanish (FLS), French (FLF), Italian (FLI), German (FLG) and Russian (FLR).
Prerequisites (State Mandated Common Prerequisites):
These prerequisites must be met by transfer students as well as USF students.
A grade of "C" is the minimum acceptable grade.
EDF 1005/2005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology
(Equivalent course or demonstrated competency may be substituted)
In addition, fifteen semester hours must come from the following areas: courses in elementary and intermediate grammar, composition and advanced conversation; culture and civilization in the target language.
At least one course taken to meet the natural science requirements in General Education must include a laboratory component.
In addition to EDG 2701, Lower division courses must include 6 credit hours with an international or diversity focus. Professional education courses taken at the community college will transfer as general electives.

Specialization (36 cr. hrs.):
1. Foreign Language (27 cr. hrs.)
   - General Education Requirements
     - These prerequisites must be met by transfer students as well as USF students.
     - A grade of "C" is the minimum acceptable grade.
     - EDF 1005/2005 Introduction to Education
     - EDG 2701 Teaching Diverse Populations
     - EME 2040 Introduction to Educational Technology
     - (Equivalent course or demonstrated competency may be substituted)
     - In addition, fifteen semester hours must come from the following areas:
       - courses in elementary and intermediate grammar, composition and advanced conversation
       - culture and civilization in the target language
     - At least one course taken to meet the natural science requirements in General Education must include a laboratory component.
     - In addition to EDG 2701, Lower division courses must include 6 credit hours with an international or diversity focus. Professional education courses taken at the community college will transfer as general electives.

   - Fall Term: FLE 4314 (elementary)
   - Spring Term: FLE 4333 (secondary) and FLE 4370 (practicum)

- MATHEMATICS EDUCATION (MAE):
- General Education and Professional Education Requirements are listed under Teacher Education Program.

Prerequisites (State Mandated Common Prerequisites):
These prerequisites must be met by transfer students as well as USF students.
A grade of "C" is the minimum acceptable grade.
EDF 1005/2005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology
(Equivalent course or demonstrated competency may be substituted)
MAC 2311 Calculus I (4)
MAC 2312 Calculus II (4)
STA 2023 Elementary Statistics (3)
Computer Programming Language (3)
(Microcomputer-based Fortran, Pascal, or C)
Math Electives (for USF, MAC 2312) (7)
*May be part of General Education Requirements

Specialization (36 cr. hrs.):
- MAD 3100 Discrete Mathematics (3)
- MAE 4320 Middle School Methods (3)
- MAE 4330 Senior High School Methods (3)
- MAE 4551 Reading in Math (2)
- MAE 4652 Technology for Teaching (3)
- MAE 4653 Technology for Teaching (3)
- MAS 3105 Linear Algebra (3)
- MAS 4214 Elementary Number Theory (3)
- MAS 4301 Elementary Abstract Algebra (3)
- MGF 3301 Bridge to Abstract Mathematics (3)
- MGF 4403 Early History of Math (3)
- MTG 4212 Geometry (4)

- SCIENCE EDUCATION (NSB, NSC, NSP):
- General Education and Professional Education requirements are listed under Teacher Education Program.

Prerequisites (State Mandated Common Prerequisites):
These prerequisites must be met by transfer students as well as USF students.
A grade of "C" is the minimum acceptable grade.
EDF 1005/2005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology
(Equivalent course or demonstrated competency may be substituted)

- Biology Education
  - BSC 2010* Biology I with lab (4)
  - BSC 2011* Biology II with lab (4)
  - BSC 2092* Human Anatomy Physiology (5)
  - CHM 2045* General Chemistry I with lab (4)
  - MAC 2311* Calculus I (3)
  - PHY 2053* General Physics I with lab (4)

- Chemistry Education
  - BSC 2010* Biology I with lab (4)
  - CHM 2045* General Chemistry I with lab (4)
  - CHM 2046* General Chemistry II with lab (4)
  - MAC 2311* Calculus I (3)
  - PHY 2053* General Physics I with lab (4)
  - PHY 2054* General Physics II with lab or PHY 2051* Biology II with lab (4)

- Earth/Space Science Elective* (4)

- Physics Education
  - BSC 2010* Biology I with lab (4)
  - CHM 2045* General Chemistry with lab (4)
  - CHM 2046* General Chemistry II with lab or PHY 2011* Biology II with lab (4)
  - MAC 2311* Calculus I (3)
  - MAC 2312* Calculus II (3)
  - MAC 2313* Calculus III (3)
  - PHY 2048* General Physics with lab and (4)
  - PHY 2049* General Physics with lab or (4)
  - PHY 2053* General Physics with lab and (4)
  - PHY 2054* General Physics with lab (4)

*May be part of General Education Requirements

In addition to EDG 2701, Lower division courses must include 6 credit hours with an international or diversity focus. Professional education courses taken at the community college will transfer as general electives.

Course Requirements:
1. SCIENCE:
   - A minimum of 32 semester hours in the discipline of major concentration (Biology, Chemistry, or Physics) and a minimum of 16 semester hours within the natural sciences outside the concentration area. See advisor for specific course recommendations.

2. SCIENCE EDUCATION:
   - As a minimum, satisfactory completion of the following courses:
     - SCE 4305 Communication Skills in Science (3)
     - SCE 4320 Teaching Middle Grade Science (3)
     - SCE 4330 Teaching Methods in Secondary School Science (3)
     - and one choice from among science/technology/society interaction, history of science, or scientific method. These courses deal with philosophy of science, communication skills and the teaching of science at the middle grades and secondary school levels. In addition, a Physics major will need a three credit hour course in computer applications in physics.


SOCIAL SCIENCE EDUCATION (SSE):

General Education and Professional Education requirements are listed under Teacher Education Program. It is recommended that students pursue a double major in Social Science Education with History or one of the Social Sciences.

Prerequisites (State Mandated Common Prerequisites):

These prerequisites must be met by transfer students as well as USF students.

A grade of "C" is the minimum acceptable grade.

EDF 1005/2005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology

(Equivalent course or demonstrated competency may be substituted)

American Government (3)
Anthropology (3)
Geography (3)
Economics (3)
World/European History (3)

One Natural Science course which includes a laboratory. In addition to EDG 2701, Lower division courses must include 6 credit hours with an international or diversity focus. Professional education courses taken at the community college will transfer as general electives.

Specialization (40 credit hours):

1. SOCIAL SCIENCE:

   AMH 2010* American History I (3)
   AMH 2020* American History II (3)
   HIS 4101 Theory of History (4)
   HUM 2243* Studies in Culture - Renaissance Thru the Twentieth Century (4)
   POS 3182 Florida Politics & Government (3)

   One of the following:

   Any AFH, LAH or ASH prefix* (3)

   One of the following:

   SYG 2000 Introduction to Sociology (3)
   SYG 2010 Contemporary Social Problems (3)

   One of the following:

   AMH 3421 Early Florida (4)
   AMH 3423 Modern Florida (4)

   One of the following:

   POT 4054 Modern Political Theory (3)
   POT 4064 Contemporary Political Thought (3)
   POT 4204 American Political Thought (3)

   *May be part of General Education requirements'

2. SOCIAL SCIENCE EDUCATION:

   SSE 4333* Teaching Middle Grades Social Science (3)
   SSE 4334 Teaching Secondary Grades Social Science (3)
   SSE 4640 Communication Skills in the Social Sciences (2)

   *must be completed prior to SSE 4334 and SSE 4640.

Department of Educational Measurement and Research

The Department of Educational Measurement and Research teaches EDF 4430, Measurement for Teachers, which is required of all students enrolled in teacher education programs. The objectives of this course include designing and applying classroom tests and other assessment devices, including alternative assessments, monitoring student progress and communicating student achievement. Emphasis is placed on assessment and instruction as integrated activities.

MUSIC EDUCATION (MUE)

See College of Fine Arts.

School of Physical Education

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

ELECTIVE PHYSICAL EDUCATION PROGRAM

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

PROFESSIONAL PHYSICAL EDUCATION PROGRAM

(Under Revision)

Students must choose one of the following programs:

a) Physical Education Grades K-8 (Florida Teacher Certification);

b) Physical Education Grades 6-12 (Florida Teacher Certification);

c) Wellness Leadership (Non-certification).

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

The two-year program is offered beginning in the junior year and includes mandatory attendance during the summer session between the junior and senior years. Students can only enter during Fall Semester of each year.

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

Director
School of Physical Education, Wellness, & Sports Studies
College of Education
University of South Florida
4202 E. Fowler, PED 214
Tampa, Florida 33620-5000

Prerequisites (State Mandated Common Prerequisites):

These prerequisites must be met by transfer students as well as USF students.

For K-8 and 6-12 Physical Education Track:

A grade of "C" is the minimum acceptable grade.

EDF 1005/2005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology
(Equivalent course or demonstrated competency may be substituted)

BSC 3092 Human Anatomy and Physiology with Lab (3-4)
HSC 2400 First Aid (3)
PET 2622 Care and Prevention of Injuries (3)

Professional education courses taken at the community college will transfer as general electives.

For Wellness Leadership Track:

BSC 3092 Human Anatomy and Physiology with Lab (3-4)
HSC 2400 First Aid (3)
Course Requirements:

CORE COURSES FOR ALL TRACKS:
PET 3010 Personal/Professional Development Seminar
PET 3310 Kinesiology
PET 3351 Exercise Physiology I

ADDITIONAL REQUIRED COURSES FOR K-8 TRACK:
(PTE)
EDF 3122 Learning & The Developing Child
EDF 4430 Measurement for Teachers
EDF 3604 Social Foundations of Education
PET 3032 Motor Development & Assessment
PET 3421 Curriculum and Instruction in Physical Education
PET 3422 Instructional Design & Content: Movement Experiences
PET 3441 Instructional Design & Content: Middle School Physical Education
PET 3640 Adapted Physical Education
PET 3943 Physical Education Internship: Middle School
PET 4401 Organization and Administration of Physical Education Programs
PET 4432 Instructional Design & Content: Physical Education Elementary
PET 4433 Instructional Design & Content: Physical Education Elementary II
PET 4942 Physical Education Pre-Internship: Elementary
PET 4946 Internship in Teaching Physical Education: Elementary

ADDITIONAL REQUIRED COURSES FOR 6-12 TRACK:
(PTS)
EDF 3604 Social Foundations of Education
EDF 4430 Measurement for Teachers
EDF 4131 Learning and the Developing Adolescent
PET 3032 Motor Development & Assessment
PET 3421 Curriculum and Instruction in Physical Education
PET 3422 Instructional Design & Content: Movement Experiences
PET 3441 Instructional Design & Content: Middle School Physical Education
PET 3640 Adapted Physical Education
PET 3943 Physical Education Internship: Middle School
PET 4304 Principles & Issues in Coaching
PET 4401 Organization & Administration of Physical Education Programs
PET 4442 Instructional Design & Content: Physical Education Secondary
PET 4443 Instructional Design & Content: Physical Education Secondary II
PET 4944 Physical Education Pre-Internship: Secondary
PET 4947 Internship in Teaching Physical Education: Secondary

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

in addition to the above courses, students in Wellness Leadership must also take PEM 2131 Weight Training (for majors only) and PET 3931 Teaching Aerobic Dance/Exercise. These courses must be taken after acceptance into the Wellness Leadership Program.

Department of Psychological and Social Foundations of Education

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

EDF 2005 Introduction to Education and Field Experience (3)
EDF 3122 Learning and the Developing Child (3)
EDF 3214 Human Development And Learning (3)
EDF 3228 Human Behavior and Environmental Selection (3)
EDF 3542 Philosophy of Education (4)
EDF 3604 Social Foundations of Education (3)
EDF 4111 Child Growth and Learning (3)
EDF 4131 Learning And The Developing Adolescent (4)
EDF 4905 Independent Study: Educational Foundations (1-4)
EDF 4909 Directed Study: Educational Foundations (1-3)
EDF 5136 Adolescence (4)
EDF 5285 Programmed Instruction and Teaching Machines (3)
EDF 5672 American Democracy and Public Education (3)
EDG 2701 Teaching Diverse Populations and Field Experience (3)
IDS 3115 Values and Choices (3)

The Counselor Education program offers undergraduate courses focusing on human services skill development, decision-making and personal growth. Course content contributes to student success in academic and personal endeavors and may serve to orient students to post-graduate work in human services fields.

MHS 4001 Introduction to Guidance Processes (3)
MHS 4052 Human Relations Skills in Counseling (4)
MHS 4905 Independent Study: Guidance and Counseling Education (1-4)
SDS 4040 Introduction to Student Personnel Work in Higher Education (2)
SLS 1101 The University Experience (2)
SLS 2401 Career Development Process (2)

Department of Special Education

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

Students are required to meet University and College of Education entrance requirements prior to enrollment in the Department. Upon admission, students affiliate with the campus on which they wish to take their program of studies. Students may not register for courses on other campuses without permission. On the Tampa Campus, students are assigned to teams. All courses are taken with the assigned team. Since no teams start in the summer, there are no summer admissions. The program sequence includes at least two semesters of part-time field experience and one semester of full-day internship. All part-time field experiences must be successfully completed as a member of a team concurrently enrolled in a specified course in designated local schools under the direction of a faculty member. Field experiences begin during the first semester of a student's enrollment with increasing involvement throughout the program. Students are responsible for providing transportation to their experience sites.
In some instances students may pursue a part-time program (9 hours or less a semester). This requires that students be available to participate in field experiences and concurrent classes during regular school hours.

These programs are currently under review. Students are advised to work closely with program advisors in the Department when developing their program of study.

Prerequisites (State Mandated Common Prerequisites):
These prerequisites must be met by transfer students as well as USF students.
A grade of "C" is the minimum acceptable grade.
EDF 1005/2005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology
(An equivalent course or demonstrated competency may be substituted.)

Students should also complete 15 hours beyond those taken to meet General Education Requirements from the following liberal arts and sciences areas: a) fine arts or humanities; b) political sciences, sociology, economics, cultural geography, or speech; c) mathematics; d) natural sciences: and/or e) psychology. Among these 15 hours must be included one course in mathematics, and combined with the General Education Requirements, two courses in the natural sciences, one of which must include a laboratory component.

In addition to EDG 2701, Lower division courses must include 6 credit hours with an international or diversity focus. Professional education courses taken at the community college will transfer as general electives.

Emotional and Behavioral Disabilities (EH Certification)
Students seeking the B.S. degree with certification in EH are required to take the following courses:
EED 4011 Introduction to Behavior Disorders (3)
EED 4949 Undergraduate Supervised Practicum in Behavior Disorders (1-6)
EEX 4011 Foundations of Special Education (3)
EEX 4221 Educational Assessment of Exceptional Students (3)
EEX 4243 Education of the Exceptional Adolescent and Adult (3)
EEX 4604 Behavior Management for Special Needs and at Risk Students (3)
EEX 4742 Narrative Perspectives on Exceptionality: Cultural and Ethical Issues (3)
EEX 4846 Clinical Teaching in Special Education (3)
ELD 4011 Introduction to Specific Learning Disabilities (3)
EMR 4941 Undergraduate Supervised Practicum in Mental Retardation (1-6)
LAE 4314 Language Arts in Childhood Education (3)
MAE 4310 Teaching Elementary School Mathematics I (3)
RED 4310 Early Literacy Learning (3)
RED 4511 Literacy in the Intermediate and Middle Grades (3)
RED 4511 Literacy in the Intermediate and Middle Grades (3)

Specific Learning Disabilities (LD Certification)
Students seeking the B.S. degree with certification in LD are required to take the following courses:
EEX 4011 Foundations of Special Education (3)
EEX 4221 Educational Assessment of Exceptional Students (3)
EEX 4243 Education of the Exceptional Adolescent and Adult (3)
EEX 4604 Behavior Management for Special Needs and at Risk Students (3)
EEX 4742 Narrative Perspectives on Exceptionality: Cultural and Ethical Issues (3)
EEX 4846 Clinical Teaching in Special Education (3)
ELD 4011 Introduction to Specific Learning Disabilities (3)
EMR 4941 Undergraduate Supervised Practicum in Mental Retardation (1-6)
LAE 4314 Language Arts in Childhood Education (3)
MAE 4310 Teaching Elementary School Mathematics I (3)
RED 4310 Early Literacy Learning (3)
RED 4511 Literacy in the Intermediate and Middle Grades (3)

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

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

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

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

Student Council for Exceptional Children
The Student Council for Exceptional Children [SCEC] is an organization of those members of the University interested in the education of the exceptional child. Various exceptionalities included are Gifted, Emotionally Disturbed, Physically Handicapped, Mentally Retarded, Specific Learning Disabilities, and Culturally Different.
Activities of the USF Chapter include field trips to various special educational facilities, prominent speakers, seminars, state and national conventions, and social events. The specific activities are determined by the members and the exceptionality in which they are interested. All interested students are invited to join.

National Education Association Student Program (NEASP)

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

Kappa Delta Pi

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

Physical Education and Wellness Association (PEWA)

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

Mathematics Education Club

The role of this organization shall be to provide an informative and supportive environment for all members, encourage scholarship, and provide a helpful atmosphere for students progressing through the Mathematics Education program. Membership shall be available to any student in good standing who expresses interest in the Mathematics Education program at USF.

Minority Organization of Students in Education (MOSE)

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

Science Education Association (SEA)

The Science Education Association provides a supportive environment for students majoring in science education, although membership is open to anyone interested in science. SEA plans field trips, guest speakers, and the compiliation of a classroom science activities file for education majors.
### Education Courses

**Adult Education**

**ADE 4384 Working with the Adult Learner:**
- **ADULT EDUCATION**
  - An investigation of the needs of the adult learner. Identification of principles of adult learning; physiological, psychological, and social characteristics of adult learners, and corresponding implications are explored.

**Business and Office Education**

**BTE 4401 Special Teaching Methods:**
- **BUSINESS EDUCATION**
  - PR: Successful completion of BE competencies, or Cl.

**BTE 4410 Methods of Teaching: Business Education**
- **PR:** Successful completion of BE competencies, or Cl.
- Methods, techniques, and materials for skill development.

**BTE 4936 Senior Seminar in Business and Office Education**
- **PR:** Senior standing; CR: BTE 4940.
  - Synthesis of teacher candidates' coursework in their complete college program.

**BTE 4940 Internship: Business Education**
- **CR:** BTE 4936.
  - One full semester of internship in a public or private school. In special programs where the internship experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 semester hours. (S/U only)

**BTE 4948 Field-Based Seminar in Business Education**
- Supervised field experience and orientation to the broad field of business education. Specifically designed to be preparatory for the internship. (S/U only)

**BTE 5171 Curriculum Construction: Business Education**
- **PR:** Senior standing; CR: BTE 4940.
  - Synthesis of teacher candidates' coursework in their complete college program.

**Computers in Education**

**EME 2040 Introduction to Educational Technology**
- PR: Admission to College of Education. Emphasizes theoretical and practical aspects of cognitive development for children ages 3 through 6 with focus on planning integrated experiences and content in science, mathematics, and social sciences.

**EME 5403 Microcomputers in Education**
- PR: Admission to College of Education. Emphasizes theoretical and practical aspects of cognitive development for children ages 3 through 6 with focus on planning integrated experiences and content in science, mathematics, and social sciences.

**Curriculum and Instruction**

**EDG 4620 Curriculum and Instruction**
- **PR:** Senior standing. To extend competency in teaching field. (3)
- Emphasis is placed on principles of curriculum development and use of instructional strategies. Students will develop, implement, and evaluate a variety of lesson plans.

**Early Childhood Education**

**EEC 2000 Introduction to Early Childhood Education**
- **PR:** Successful completion of BE competencies, or Cl.

**EEC 4008 Literature in Early Childhood Education - 6A - XLW**
- Emphasis is placed on developing knowledge of literature for younger children (0 - 8 years) and methodologies and strategies for utilizing literature to teach literacy in content areas of the curriculum.

**EEC 4203 Programs for Young Children**
- **PR:** Admission to College of Education. Develops students' understanding of programs in early childhood, philosophical orientations that guide program development, and components of high-quality programs.

**EEC 4211 Integrated Curriculum: Science and Mathematics**
- **PR:** Admission to College of Education. Provides students with knowledge of beginning sequential science and mathematic concepts for the appropriate stages of cognitive development of young children. Emphasis will be placed on how science and mathematics are integrated throughout the curriculum and become valued functional tools.

**EEC 4212 Integrated Curriculum: Social Sciences/Humanities & Arts**
- **PR:** Admission to College of Education. Emphasis is placed on understanding concepts associated with major content areas within the social sciences. Planning, implementing, and evaluating appropriate learning experiences for children age 3 through grade 3 will link understanding to practice.
Elementary Education

ARE 4313 ART FOR THE CHILD AND YOU (3) PR: Admission to College of Education. Art and the intellectual, creative, emotional, and aesthetic growth of children.

EDE 4301 TEACHING METHODS IN THE ELEMENTARY SCHOOL (3) PR: EDE 4941 and EDG 4620. Techniques and strategies appropriate to instruction of children in educational settings.

EDE 4905 INDEPENDENT STUDY: ELEMENTARY EDUCATION (1-4) PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

EDE 4909 DIRECTED STUDY: ELEMENTARY EDUCATION (1-4) PR: Senior standing. To extend competency in teaching field.

EDE 4910 INTERNSHIP: ELEMENTARY EDUCATION (10-12) PR: EDE 4941 and EDE 4942. Teacher candidate is required to demonstrate professional competencies during one semester of full day internship in a public or private elementary school and attend a weekly seminar. (S/U only.)

EDE 4941 CHILDHOOD EDUCATION INTERNSHIP I (3) PR: Admission to the Elementary Education. CR: RED 4310, EDG 4620. Students spend six hours per week in a supervised in-school experience and attend a weekly seminar. Concurrent enrollment in EDG 4620-Elementary Section. (S/U only.)

EDE 4942 CHILDHOOD EDUCATION INTERNSHIP II (6) PR: EDE 4941, RED 4310, EDG 4620, EDF 3122, LAE 4314, EDE 4301, MAE 4310, MAE 4326, SCE 4310, LAE 4414, SSE 4313. Students spend 12 hours per week in a supervised internship experience in classroom settings and attend a weekly seminar. (S/U only.)

HLP 4722 HEALTH AND PHYSICAL EDUCATION FOR THE CHILD (3) PR: Admission to the College of Education. A study of the importance of movement competency and its contribution to the development of a positive self-concept in children; content and methodology for developing appropriate movement experiences for children; content and methodology for teaching elementary health science.

LAE 4411 LANGUAGE ARTS IN CHILDHOOD EDUCATION (3) PR: Admission to the College of Education. Implementing a coordinated and integrated language arts curriculum and guiding the developmental language experiences of children in elementary school. Explores the content, organization, and instruction of oral and written expression in childhood education.

LAE 4414 LITERATURE IN CHILDHOOD EDUCATION -6A -XLW (3) The selection, evaluation and use of fiction, nonfiction and poetry for instructional, informational, and recreational purposes in Childhood Education.

MAE 4310 TEACHING ELEMENTARY SCHOOL MATHEMATICS I (3) PR: Admission to College of Education and two college level mathematics courses. Methods for teaching number ideas, computational skill, and mathematical reasoning.

MAE 4326 TEACHING ELEMENTARY SCHOOL MATHEMATICS II (2) PR: MAE 4310. Methods for teaching informal geometry, measurement, probability and statistics.

MUE 4310 MUSIC FOR THE CHILD (3) PR: Admission to Elementary program. Music fundamentals; the development of music skills and knowledge of music materials and teaching strategies for presenting music to children in the elementary school.

RED 4310 EARLY LITERACY LEARNING (3) PR: Admission to College of Education. Prepares preservice teachers to understand the foundations of literacy and the learning principles and instructional strategies necessary to provide literacy instruction to emergent, novice, and transitional readers and writers.

SCE 4310 TEACHING ELEMENTARY SCHOOL SCIENCE (3) PR: Admission to College of Education and completion of General Education Requirements in the Natural Science area. Techniques and materials for teaching science in the elementary school.

SSE 4313 TEACHING ELEMENTARY SCHOOL SOCIAL STUDIES (3) PR: Admission to College of Education or CI. Designed to study techniques and strategies employed by social studies teachers that are effective in motivating elementary school aged youth to acquire the information, skills, and modes of reasoning unique to the social sciences. Students are expected to plan and present instructional plans demonstrating the use of various methods, techniques, and materials that achieve concrete outcomes. Theoretical foundations of social studies are also examined.

English Education

LAE 4323 METHODS OF TEACHING ENGLISH: MIDDLE SCHOOL (3) Whole language methods of integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature-based program for middle school students. Must be taken one or two semesters prior to internship. Recommended to be taken with LAE 4464.

LAE 4464 ADOLESCENT LITERATURE FOR MIDDLE AND SECONDARY STUDENTS -6A -XLW (3) PR: English Education majors or CI. A study of the types of literature read by adolescents with an emphasis upon the criteria for the choice of good books and knowledge of available books and teaching materials. Recommended to be taken with LAE 4323 two semesters prior to internship.

LAE 4530 METHODS OF TEACHING ENGLISH: PRACTICUM (3) PR: Senior standing or enrollment in Plan II Master's Program. Required concurrently with LAE 4642. Taken one semester (spring or fall) prior to internship.

LAE 4642 METHODS OF TEACHING ENGLISH: HIGH SCHOOL (3) PR: LAE 4464. Whole language methods of integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature-based program for high school students. Must be taken one semester prior to internship with LAE 4530.

LAE 4935 SENIOR SEMINAR IN ENGLISH EDUCATION (2) PR: Senior standing. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

LAE 4940 INTERNSHIP: ENGLISH EDUCATION (1-12) One full semester of internship in a public or private school. Intern takes Senior Seminar in English Education concurrently. In special programs where the internship experience is distributed over two or more semesters, student will be registered for credit which accumulates from 9 to 12 semester hours. (S/U only.)
LAE 5932 SELECTED TOPICS IN THE TEACHING OF ENGLISH (3)  
PR: Certification in English and/or Mass Communications and approval of graduate advisor. Investigation of topics which are of special interest to the student and are related to the teaching of English in the secondary school. Topics will be selected by the student in accordance with his particular goals and will be approved by the student's graduate advisor.

Foreign Language Education  
FLE 4314 FOREIGN LANGUAGE TEACHING IN THE ELEMENTARY SCHOOL (3)  
PR: EDG 4620 or concurrent registration, and fluency in target language and in English. Methods of planning and teaching foreign languages in the elementary school. The emphasis is on teaching communicatively and on integrating culture in the K-6 classroom.

FLE 4333 FOREIGN LANGUAGE TEACHING IN THE SECONDARY SCHOOL (3)  
PR: FLE 4314, and fluency in the target language and in English. Methods of teaching foreign languages within a communicative framework. Includes examination and practice of correct instructional techniques in listening, speaking, reading and writing skills, testing, error correction, and computer assisted language instruction. The emphasis is on teaching foreign languages and teaching for cultural understanding at the secondary level 7-12.

FLE 4370 PRACTICUM IN FOREIGN LANGUAGE TEACHING IN THE SECONDARY SCHOOL (3)  
PR: Senior standing or enrollment in Plan II Master's Program (or CC). Required concurrently with FLE 4333. Fluency in the target language and in English. Preintership field experience in a K-12 environment. Will include observation and practice in a K-12 classroom as well as class meetings.

FLE 4938 SENIOR SEMINAR IN FOREIGN LANGUAGE EDUCATION (2)  

FLE 4940 INTERNSHIP: FOREIGN LANGUAGE EDUCATION (1-12)  
One full semester of internship in a public or private school. Intern takes Senior Seminar in Education concurrently. (S/U only.)

Education -- General  
EDG 4909 DIRECTED STUDIES (3)  
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

Industrial-Technical Education  
EIA 3192 TECHNOLOGY EDUCATION AND SOCIETY (4)  
Introduction to programs, facilities and opportunities in teaching technology education. Includes historical, current and futuristic implications of technology in society.

EIA 4380 SPECIAL TEACHING METHODS: TECHNOLOGY EDUCATION (3)  
Equips Technology Education instructors with professional competencies for classroom and laboratory settings. Includes the selection of appropriate methods, planning, and delivery of instruction, along with supervision of students in laboratory areas.

EIV 4210 PROGRAM MANAGEMENT: INDUSTRIAL-TECHNICAL EDUCATION (4)  
Planning, organizing, motivating and controlling of the learning environment in Industrial-Technical Education Classroom and Laboratories. Program standards for OSHA, program review, record keeping, and budgeting will be examined.

EIV 4314 METHODS OF TEACHING: DIVERSIFIED COOPERATIVE TRAINING (3)  
Methods, techniques, and materials for instruction. This course specializes in Diversified Cooperative Training.

EIV 4338 SPECIAL TEACHING METHODS: INDUSTRIAL-TECHNICAL EDUCATION (4)  
PR: EVT 4365 or Cl. Instructional techniques in industrial-technical education. Vocational Industrial Clubs of America activities may be included.

EIV 5315 PROGRAM MANAGEMENT: DIVERSIFIED COOPERATIVE TRAINING (3)  
Organization, coordination, and budgeting of adult, cooperative, and special programs.

EVT 4065 HISTORY AND PRINCIPLES OF VOCATIONAL EDUCATION (4)  
An overview of current policies and principles in vocational education including their historical, sociological, and philosophical bases. Open to majors and non-majors.

EVT 4910 PROFESSIONAL DEVELOPMENT IN INDUSTRIAL TECHNICAL EDUCATION (1-3)  
Designed for the ITE teacher in forming plans of professional development. Competencies include the development of a personal education philosophy; attributes in creating harmonious school community relationships; and desirable staff and teacher associations.

EVT 4165 CURRICULUM CONSTRUCTION: INDUSTRIAL-TECHNICAL EDUCATION (4)  
Design, development, implementation and evaluation of effective curricular materials in industrial, technical and health related occupations; includes individualized and self-paced materials. Open to majors and non-majors.

EVT 4263 ORGANIZATION AND ADMINISTRATION OF STUDENT VOCATIONAL ORGANIZATIONS (1-4)  
Includes the organization and administration of the local student vocational organization in industrial, health occupations, business and distributive education.

EVT 4365 BASIC TEACHING METHODS IN VOCATIONAL EDUCATION (4)  
Examines the role of the vocational instructor in the teaching learning process; looks at factors that promote and inhibit learning. Reviews a wide variety of instructional approaches, techniques and methods; includes selection of techniques for situations.

EVT 4367 ASSESSING STUDENT SKILL IN INDUSTRIAL TECHNICAL EDUCATION (4)  
Techniques for assessing student's mastery of skills in industrial/technical education. Focuses on specific competencies including developing and administering performance tests, monitoring student process, and others. Open to majors and non-majors.

EVT 4502 VOCATIONAL EDUCATION FOR SPECIAL NEEDS STUDENTS (4)  
Focuses on modifying the vocational education curriculum, laboratory, shop, student outcomes, learning activities, tests, media, etc. to accommodate the unique learning needs of minority, handicapped, disadvantaged, non-traditional and other special needs students.

EVT 4656 EQUITY IN SCHOOLS AND THE WORKPLACE - 6A-XMW (3)  
Issues related to gender equity in schools and the workplace. Includes legal, ethical, psychological, sociological, and economic factors; males and females in traditional and non-traditional occupations.

EVT 4905 INDEPENDENT STUDY: INDUSTRIAL-TECHNICAL EDUCATION (1-4)  
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

EVT 4999 DIRECTED STUDY: INDUSTRIAL-TECHNICAL EDUCATION (1-3)  
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

EVT 4938 SENIOR SEMINAR IN INDUSTRIAL-TECHNICAL EDUCATION (2)  
PR: Senior standing; CR: EVT 4940. Synthesis of teacher candidate's courses in complete college program.

EVT 4940 INTERNSHIP: INDUSTRIAL-TECHNICAL EDUCATION (1-12)  
CR: EVT 4936. One full semester of internship in a public or private school. In special programs where the internship experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9-12 semester hours. (S/U only.)
EVT 4946 SUPERVISED FIELD EXPERIENCE: 
INDUSTRIAL-TECHNICAL EDUCATION (1-6) 
PR: CI. Planned supervised functions in the area of specialization and coordinated with selected schools, government offices, and counseling techniques.

EVT 5265 PREPARATION AND DEVELOPMENT FOR TEACHING 
The development of selected instructional materials, use of new educational media, performance evaluation instruments, and counseling techniques.

EVT 5664 SCHOOL COMMUNITY DEVELOPMENT 
This course is an approach to identifying, assessing, analyzing, and understanding community involvement and public support.

Mathematics Education 
MAE 4320 TEACHING MATHEMATICS IN THE MIDDLE GRADES (3) 
PR: 18 semester hours of mathematics or CI. Techniques and materials of instruction in middle grades mathematics topics. Students are expected to observe 15 hours in middle schools.

MAE 4330 TEACHING SENIOR HIGH SCHOOL MATHEMATICS (3) 
PR: MAE 4320 and admission to teacher education program in mathematics. Techniques and materials of instruction in mathematics. Students are expected to observe 20 hours in high schools.

MAE 4551 READING THE LANGUAGE OF MATHEMATICS (2) 
Consideration of issues related to the communication of mathematics, including reading and writing mathematics and solving verbal problems.

MAE 4652 TECHNOLOGY FOR TEACHING SECONDARY MATHEMATICS I (3) 
PR: Admission to Mathematics Education Program or CI. This course prepares secondary mathematics education majors to write computer programs in both QBASIC and Logo 4.0 that are appropriate for secondary school mathematics classrooms. A variety of uses of computers in mathematics instruction will also be covered.

MAE 4653 TECHNOLOGY FOR TEACHING SECONDARY MATHEMATICS II (3) 
PR: MAE 4320 and MAE 4652. This course prepares secondary mathematics education majors to be proficient with personal computers and Logo 4.0 and are appropriate for secondary school mathematics classrooms. A variety of uses of computers in mathematics instruction will also be covered.

MAE 4909 DIRECTED STUDY: MATHEMATICS EDUCATION (1-3) 
PR: Senior Standing. To extend competency in teaching field.

MAE 4935 SENIOR SEMINAR IN MATHEMATICS EDUCATION (2) 

MAE 4940 INTERNSHIP: MATHEMATICS EDUCATION (1-12) 
CR: MAE 4936. One full semester of internship in a public or private school. In special programs where the internship is preferred, the experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 semester hours. (S/U only.)

Measurement and Research 
EDF 4430 MEASUREMENT FOR TEACHERS (3) 
PR: Upper level standing. Concepts and skills related to designing and developing classroom tests; evaluating tests, instruction, and student progress; and communicating student achievement. Including application of performance assessment techniques and computer applications for measuring and assessing pupil progress.

Physical Education -- Elective 
HLP 2081 PERSONAL WELLNESS: A LIFETIME COMMITMENT (3) 
An examination of the bases for adopting a positive health lifestyle with a major emphasis on diet, weight management, physical fitness, stress management, and substance-abuse management.

PEL 1121 GOLF I (2) 
Introductory experience in the sport of golf. Fundamental skills, information, strategy, and participation. (S/U only.)

PEL 1341 TENNIS I (2) 
Introductory experiences in the sport of tennis. Basic skills, playing strategies, lecture, demonstration, and participation. (S/U only.)

PEL 1346 BADMINTON (2) 
Progressive experiences in badminton, fundamental skills, strategy, information and participation. (S/U only.)

PEL 2122 GOLF II (2) 
Continuation of PEL 1121. Emphasis on course play and refinement of strokes. (S/U only.)

PEL 2321 VOLLEYBALL (2) 
Review and refinement of fundamental skills, presentation and practice of the various offensive and defensive strategies. (S/U only.)

PEL 2342 TENNIS II (2) 
Continuation of PEL 1341L. Refinement of basic skills, supplementary strokes, greater emphasis on tactics and playing strategies. (S/U only.)

PEL 2441 RACKETBALL (2) 
Development and refinement of the skills and strategies of Racketball with opportunity for competition and tournament play. (S/U only.)

PEL 2621 BASKETBALL (2) 
Review and refinement of fundamental skills, presentation and practice of the various offensive and defensive strategies. (S/U only.)

PEL 2131 WEIGHT TRAINING (2) 
Knowledge and techniques necessary for increasing muscle function. Assessment of status and development of a personal program (S/U only.)

PEL 2141 JOGGING (2) 
Introduction to the knowledge and techniques necessary for increasing cardiorespiratory efficiency. Assessment of status and development of a personal program. (S/U only.)

PEL 2441 KARATE (2) 
Introductory experiences in the sport of Karate. Fundamental skills, strategy, information, and participation. (S/U only.)

PEL 2930 SELECTED TOPICS (1-2) 
Activities offered are selected to reflect student need and faculty interest. May be repeated up to 6 hours. (S/U only.)

PEL 1121 SWIMMING I (2) 
Development and refinement of the essential skills and information necessary for enjoyment swimming. Emphasis on personal safety. (S/U only.)

PEL 2113 LIFEGUARD TRAINING (2) 
PR: PEL 2122 or equivalent. Knowledge and skills necessary for saving the lives of others in the event of aquatic emergency. ARC certification offered. (S/U only.)

PEL 2122 SWIMMING II (2) 
PR: PEL 1121 or equivalent. Continuation of PEL 1121. Special emphasis on development of endurance and efficient stroke. (S/U only.)

PEL 2136 SKIN & SCUBA DIVING (2) 
PR: PEL 2172 or equivalent. Development of the essential skills and knowledge necessary for enjoying the sport of Skin & Scuba Diving. Correct utilization and care of equipment; emphasis on personal safety. (S/U only.)

PET 3931 SELECTED TOPICS (1-3) 
Topics offered are selected to reflect student need and faculty interest. May be repeated up to 9 credit hours. (S/U only.)

Professional Physical Education 
HLP 4941 WELLNESS INTERNSHIP (12) 
PR: CC. Completion of all curriculum requirements. Supervised performance in adult fitness and/or wellness programs. Full semester on-site. Open to Wellness Leadership Physical Education Majors only. (S/U only.)
HSC 2400 FIRST AID
Meets the American Red Cross certification requirements in
standard and advanced first aid.

HSC 3301 HEALTH, SAFETY, NUTRITION AND MOTOR SKILLS
FOR THE YOUNG CHILD
Practical application of the knowledge to teach developmentally
appropriate motor activities; to provide continuous health
services; create and maintain a healthy learning environ­
ment; and sequence appropriate health instruction for Pre-
K through 3rd grade students.

PEP 3940 PRACTICUM IN HEALTH PROMOTION/Wellness
Prepares students to design and manage wellness programs
for the College of Education. Practical experience as a profes­
sional in a community or worksite health promotion or
wellness program. (S/U only.)

PET 3951 COMMUNICATION SKILLS FOR WELLNESS
Leadership
PR: Completion of Semester I and II in Wellness Leader­
ship track or CI. Designed to develop knowledge and skills
in communication and counseling that is specific to wellness
and health promotion.

PET 2101 AQUATICS
PR: Red Cross beginning swimmer's skills or equivalent.
Includes analysis of swimming skills, teaching methodology,
conducting class activities, and organizing and con­
ducting aquatic programs.

PET 3170 AQUATIC EXERCISE
PR: CC. An instructor training course in aquatic exercise.
Focuses on teaching aerobic, strength, flexibility, and weight
control exercises performed in swimming pools. Open to
non-majors.

PET 3100 PERSONAL/PROFESSIONAL DEVELOPMENT
SEMINAR
PR: CC. Identification of personal and professional knowl­
dge, skills, and attitudes necessary for successful profes­
sional practice of physical educators and wellness leaders.
Introduction to career opportunities and the historical, philos­
ophical, and sociological foundations of the profession.
Development of a personal-professional development plan.
Field work required. Majors only.

PET 2622 CARE AND PREVENTION OF PHYSICAL INJURIES
PR: Principles and techniques of conditioning athletes for com­
petition; prevention and care of injuries in physical educa­
tion and athletic activities.

PET 3031 MOTOR DEVELOPMENT AND ASSESSMENT
PR: CC. Study of the assessment, evaluation and motor
development performance of children and adolescents and
application of principles of motor skills acquisition in phys­
ical education instruction. Open to non-majors.

PET 3080 SURVEY OF WELLNESS PROGRAM
PR: CC. An analysis of various types of wellness programs
in the public and private sector including community-based
programs, commercial health and fitness enterprises, gov­
ernment-based programs, corporate-based programs, and
hospital health and fitness centers.

PET 3310 KINESIOLOGY
PR: CC. A study of the structure and function of the skeletal
and muscular systems and of mechanical principles relat­
to psycho-motor performance. Open to non-majors.

PET 3351 EXERCISE PHYSIOLOGY
PR: CC. A study of the effects of physical activity on the body.
Topics include acute and chronic adaptation of the cardio­
vascular, muscular, metabolic, hormonal, and energy sys­
tems to exercise. Open to non-majors.

PET 3421 CURRICULUM AND INSTRUCTION IN
PHYSICAL EDUCATION
PR: CC. Development of knowledge and skills related to the
instruction process of physical education. Preparation of
materials and planning instruction.

PET 3441 INSTRUCTIONAL DESIGN AND CONTENT:
MIDDLE SCHOOL PHYSICAL EDUCATION
PR: CC. The development of physical education content and
instructional activities for middle school students. The
focus is upon matching appropriate content and learning
experiences to the unique needs of the pre- and early
adolescent learner.

PET 3540 ADAPTED PHYSICAL EDUCATION
PR: CC. A study of characteristics, programming needs and
teaching of physical education for students with disabilities.

PET 3943 PHYSICAL EDUCATION INTERNSHIP:
MIDDLE SCHOOL
PR: CC. A part-time internship in middle school physical
education. Focus on the relationship of physical education to
the needs of the pre- and early adolescent learner, the
organization and purpose of the middle school, and app­
lication appropriate content and methodologies.

PET 4141 TRENDS AND TASKS- ELEMENTARY
PHYSICAL EDUCATION DESIGN CONCEPTS
PR: CC. Current trends are evaluated from a historical and
philosophical perspective. Non-teaching tasks are identi­
fied as part of the professional role. Evaluate and continue
personal-professional development plan developed in pre­
vious semesters. Taken concurrently with Physical Educa­
tion Internship: Elementary. Physical Education Majors only.

PET 4142 TRENDS AND TASKS- SECONDARY
PHYSICAL EDUCATION
PR: CC. Current trends are evaluated from a historical and
philosophical perspective. Non-teaching tasks are identi­
fied as part of the professional role. Evaluate and continue
personal-professional development plan developed in pre­
vious semesters. Taken concurrently with Physical Educa­
tion Internship: Secondary. Physical Education Majors only.

PET 4304 PRINCIPLES AND ISSUES IN COACHING
The application of principles from philosophy, psychology,
sociology, and physiology to competitive athletics and coach­
ing.

PET 4353 EXERCISE PHYSIOLOGY II
PR: CC. & PET 3352. A study of Exercise Physiology focusing
on the adult. Includes specific populations such as the
obese, heart patients, arthritics, elderly, and high perfor­
ance athletes. Open to non-majors.

PET 3352 HEALTH-FITNESS APPRAISAL & EXERCISE
PRESCRIPTION
PR: CC. & PET 3352. Techniques in conducting health­
fitness tests and exercise prescription for adults. Includes
cardiovascular strength, flexibility, body composition, health
risk testing, exercise prescribing, and monitoring. Open to
non-majors.

PET 4401 ORGANIZATION & ADMINISTRATION OF
PHYSICAL EDUCATION PROGRAMS
PR: CC. A study of organizational and administrative proce­
dures for physical education programs in elementary and
secondary schools. Includes budgeting, staff supervision,
extracurricular programs, and the selection and supervi­
sion of staff.

PET 4404 ORGANIZATION & ADMINISTRATION OF
WELLNESS PROGRAMS
PR: CC. Design and implementation of various types of wellness
programs with emphasis on assessment and evaluation,
management, staffing, and program development.

PET 4432 INSTRUCTIONAL DESIGN AND CONTENT:
PHYSICAL EDUCATION ELEMENTARY
PR: CC. This is the second of a three-course sequence in
which students study movement forms and instructional
processes suitable for elementary age students.

PET 4433 INSTRUCTIONAL DESIGN AND CONTENT:
PHYSICAL EDUCATION ELEMENTARY II
This course prepares students to select, plan, conduct
complex movement experiences for students K-6.

PET 4442 INSTRUCTIONAL DESIGN AND CONTENT:
PHYSICAL EDUCATION SECONDARY
PR: CC. Development of knowledge and skills related to the
teaching of selected movement activities such as team
sports, gymnastics, and physical fitness. Focus is on under­
standing mechanical principles utilized within those activi­
ties as well as on instructional progression and the pre­
paration of materials for instruction at the secondary school
level.

PET 4443 INSTRUCTIONAL DESIGN AND CONTENT:
PHYSICAL EDUCATION SECONDARY II
PR: CC. In this course, students are prepared to plan,
<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Restrictions</th>
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<td>EDF 4905</td>
<td>INDEPENDENT STUDY: PROFESSIONAL PHYSICAL EDUCATION</td>
<td>1-4</td>
<td>Independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)</td>
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<td>EDF 4942</td>
<td>PHYSICAL EDUCATION INTERNSHIP: ELEMENTARY</td>
<td>4</td>
<td>A part-time internship in elementary school physical education. Focus on the nature of the total elementary school curriculum, characteristics of students, and application of appropriate content and instructional competencies. (S/U only.)</td>
<td></td>
</tr>
<tr>
<td>EDF 4944</td>
<td>PHYSICAL EDUCATION INTERNSHIP: SECONDARY</td>
<td>4</td>
<td>A part-time internship in high school level physical education with focus on the relationship of physical education to the needs of the early adolescent and the implementation of appropriate content and methodology. (S/U only.)</td>
<td></td>
</tr>
<tr>
<td>EDF 4946</td>
<td>ASSOCIATE TEACHING PHYSICAL EDUCATION: ELEMENTARY</td>
<td>12</td>
<td>A full-time internship in the elementary school in which the student undertakes the full range of teaching responsibilities in elementary physical education. May not be repeated. (S/U only.)</td>
<td></td>
</tr>
<tr>
<td>EDF 4947</td>
<td>ASSOCIATE TEACHING PHYSICAL EDUCATION: SECONDARY</td>
<td>12</td>
<td>A full-day internship in middle, junior or senior high school physical education programs with focus on the implementation of appropriate content and methodology to meet the needs of secondary students. (S/U only.)</td>
<td></td>
</tr>
</tbody>
</table>

Psychological and Social Foundations

**EDF 2005 INTRODUCTION TO EDUCATION AND FIELD EXPERIENCE**

- Introductory survey course required for admission to the College of Education. A broad overview of the history, sociology, and philosophy of education in the United States focuses on education as a field of study and teaching as a profession. Includes lecture and field experience.

**EDF 3122 LEARNING AND THE DEVELOPING CHILD**

- General psychology and admission to College of Education. Preadolescent child growth and development, learning theory, and behavioral analysis applied to instruction and to the organization and management of the classroom.

**EDF 3214 HUMAN DEVELOPMENT AND LEARNING**

- General psychology and admission to College of Education. Application of respondent and operant learning principles to classroom teaching, learning models for different instructional goals, analysis of teacher behavior, micro-teaching.

**EDF 3228 HUMAN BEHAVIOR AND ENVIRONMENTAL SELECTION - 6A - XMW**

- Learning principles, behavior analysis applied to global environmental and social issues. Requires elementary education and processing skills.

**EDF 3542 PHILOSOPHY OF EDUCATION - XMW**

- Upper level standing. A study of philosophy of education with an emphasis on aspects that are relevant to an understanding of the issues and problems of American education.

**EDF 3604 SOCIAL FOUNDATIONS OF EDUCATION - XMW**

- Upper Level Standing. Social, economic and political context within which schools function and the values which provide direction for our schools; the culture as a motivating influence in instruction; and the ways in which ethnicity, race, social class, gender and language background affect access to educational and economic opportunity and achievement.

**EDF 4111 CHILD GROWTH AND LEARNING**

- Upper level standing and admission into Early Childhood Program or CI. An introduction to the principles of child growth and learning as they relate to the education of young children. Special emphasis is placed on the contributions of family and community to these developmental processes.

**EDF 4131 LEARNING AND THE DEVELOPING ADOLESCENT**

- General psychology and admission to College of Education. Adolescent growth and development, learning theory, and behavioral analysis applied to instruction and to the organization and management of the classroom.

**EDF 4909 DIRECTED STUDY: EDUCATIONAL FOUNDATIONS**

- Senior Standing. To extend competency in teaching field. Offered only as a scheduled class.

**EDF 5136 ADOLESCENCE**

- Study of the educational, intellectual, personality, physical, social and vocational factors in adolescence and their importance for school personnel.

**EDF 5285 PROGRAMMED INSTRUCTION AND TEACHING MACHINES**

- Principles for programming in the several academic subjects.

**EDF 5672 AMERICAN DEMOCRACY AND PUBLIC EDUCATION**

- Interdependence of the public school and democracy in the United States and the responsibility of the school in fostering and strengthening basic democratic principles.

**EDG 2701 TEACHING DIVERSE POPULATIONS AND FIELD EXPERIENCE**

- Introductory survey course required for admission to the College of Education. Places schools and teaching within the context of the U.S. as a pluralistic society. Topics include: demographics of diversity; prejudice; elements of culture; American heritage of diversity and its value; and barriers to cultural understanding. Includes lecture and field experience.

**IDS 3115 VALUES AND CHOICES - 6A - XMW**

- An in-depth examination of values and their relationship to choices in contemporary society using historical perspective and inquiry of moral/ethical dilemmas. Available to majors or non-majors.

**MHS 4052 HUMAN RELATIONS SKILLS IN COUNSELING - XMW**

- EGC 4001 or CI. Introduction to the theory of human relations dynamics and development of skills required for effective interpersonal relations. Lecture sessions and laboratory training.

**MHS 4905 INDEPENDENT STUDY: GUIDANCE AND COUNSELING EDUCATION**

- CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

**SDS 4040 INTRODUCTION TO STUDENT PERSONNEL WORK IN HIGHER EDUCATION**

- CI. Study of student personnel services in institutions of higher education. Identification of the needs of students and of the ways to respond to meet these needs. Survey of service units on a campus in terms of structure, organization, funding, etc.

**SLS 1101 THE UNIVERSITY EXPERIENCE**

- Freshman only or CI. An extended introduction and orientation to USF. Topics include purposes of higher education, structure and function of USF, overview of the processes of career planning and selecting a major, study skills, and managing out-of-class time.

**SLS 2401 CAREER DEVELOPMENT PROCESS**

- Students will study vocational choice theories and participate in career decision processes. Development of self-awareness and knowledge of career opportunities and requirements necessary for decision making. Available to lower level majors or non-majors.
Reading Education
RED 4511 LITERACY IN THE INTERMEDIATE AND MIDDLE GRADES (3)
PR: RED 4310. Prepares preservice teachers to facilitate literacy learning for students who are beyond the primary grades. Students will develop an understanding of instructional strategies and materials appropriate for remedial, multicultural, and mainstream students ways to promote literacy development across the curriculum, and theories of reading disabilities.

Science Education
SCE 4237 SCIENCE, TECHNOLOGY, SOCIETY INTERACTION - S/U-XMW (4)
Achieve a historical and philosophical understanding of (1) the nature of the scientific enterprise: interaction of science, technology, and society (STS), (2) how to teach STS including the use of computers and related technologies, and (3) intricacies of sample STS topics.

SCE 4305 COMMUNICATION SKILLS IN THE SCIENCE CLASSROOM (2)
Reading and communication skills important in understanding scientific literature and communicating findings to others.

SCE 4320 TEACHING METHODS IN MIDDLE GRADE SCIENCE (3)
PR: Completion of 25 semester hours of Science or CC. Survey techniques and materials unique to science, grades 5-9. Not designed for high school certification purposes.

SCE 4330 TEACHING METHODS IN THE SECONDARY SCHOOL-SCIENCE - S/U-XMW (3)
PR: Completion of 26 hours in approved science areas, EDG 4620 (or CR), and CC. Techniques and materials of instruction in secondary school sciences.

SCE 4936 SEMINAR IN SCIENCE EDUCATION (1)
PR: Senior standing; CR: SCE 4949. Synthesis of teacher candidate's courses in completed college program.

SCE 4940 INTERNSHIP: SCIENCE EDUCATION (1-12)
CR: SCE 4936. One full semester of internship in a public or private school.

SCE 5937 SELECTED TOPICS IN SCIENCE EDUCATION (1-4)
May be repeated when topics are not duplicated.

Social Science Education
SSE 4333 TEACHING MIDDLE GRADES SOCIAL SCIENCE (3)
Designed to study techniques and strategies employed by social sciences teachers that are effective in motivating teenage youth to acquire information, skills, and modes of reasoning unique to the social sciences. Students are expected to plan and present Instructional plan(s) demonstrating the use of various methodologies, techniques, and materials that achieve concrete outcomes. Theoretical foundations of social studies are also studied. Fieldwork in a middle school is required.

SSE 4334 TEACHING SECONDARY GRADES SOCIAL SCIENCE (3)
PR: SSE 4333. This course is a continuation of SSE 4333 with further development of the instructional techniques and strategies and the information, skills, and modes of reasoning unique to the social sciences with an emphasis on the secondary school environment. The teaching profession, school settings, legal, and classroom management issues are also studied. Fieldwork in a high school is required.

SSE 4380 GLOBAL AND MULTICULTURAL PERSPECTIVES IN EDUCATION - S/U-XMW (3)
PR: EDG 3604 and EDG 4620, or CI. Examination of the major issues surrounding global and multicultural perspectives in education. (Available to non-Education majors.)

SSE 4460 COMMUNICATION SKILLS IN SOCIAL SCIENCES (2)
PR: SSE 4334. Preparation for instruction and demonstration of instructional techniques in social sciences covered in SSE 4333 and SSE 4334 with an emphasis on students developing their communication, presentation, and organizational skills. (S/U only.)

SSE 4670 ECONOMICS USA: PRINCIPLES OF ECONOMICS FOR TEACHERS (3)
A television course focusing on content and teaching methodology related to micro/macro economic principles. (S/U only.)

SSE 4936 SENIOR SEMINAR IN SOCIAL SCIENCE EDUCATION (2)
PR: Senior standing; CR: SSE 4940. Synthesis of teacher candidate's courses and preparation for the professional interview and application process.

SSE 4940 INTERNSHIP: SOCIAL SCIENCE EDUCATION (1-12)
CR: SSE 4936. One full semester of internship in a public or private school. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 Semester hours. (S/U only.)

SSE 544 ECONOMIC DECISION-MAKING FOR TEACHERS (3)
PR: Admission to the College of Education or CC. Provides teachers (K-12) with content related to the operation of businesses in a market economy. Teachers analyze economic/business concepts from the perspective of individuals currently operating businesses in the Tampa Bay area. Focus of the instruction is on the application of content to K-12 instructional programs.

Special Education
EED 4011 INTRODUCTION TO BEHAVIOR DISORDERS (3)
PR: EEX 4011, or equivalent or CI. Survey of emotional, behavioral and social disorders in children and youth. History of the field, definitions, classifications, theoretical approaches, intervention techniques, classroom management, service delivery models, trends and issues.

EED 4905 INDEPENDENT STUDY: BEHAVIOR DISORDERS (1-3)
CR: CI. Specialized independent study determined by the student's needs and interests. May be repeated up to a maximum of 3 credit hours when subjects vary. (S/U only.)

EED 4909 DIRECTED STUDY: BEHAVIOR DISORDERS (1-3)
PR: Senior standing. To extend competency in teaching field.

EED 4941 UNDERGRADUATE SUPERVISED PRACTICUM IN BEHAVIOR DISORDERS (2-3)
PR: EEX 4011 and major in behavior disorders. Supervised field experience in assessment, classroom management, and clinical teaching with children who have emotional and behavioral disabilities. Repeatable up to 6 credit hours. (S/U only.)

EEX 4011 INTRODUCTION TO SPECIAL EDUCATION (3)
Characteristics and needs of children who have learning disabilities, emotionally handicapped, hearing impairments, mentally retarded, physically handicapped, speech impairments, visual limitations, and who are gifted and talented.

EEX 4070 INTEGRATING EXCEPTIONAL STUDENTS IN THE REGULAR CLASSROOM (2-3)
Designed for non-special education majors. Includes basic identification techniques and strategies to promote academic and social integration and interaction of "mainstreamed" exceptional students. Concurrent field experience projects are included. No credit for department majors.

EEX 4221 EDUCATIONAL ASSESSMENT OF EXCEPTIONAL STUDENTS (3)
PR: EDF 3214 and EEX 4011. Taken concurrently with EED 4941, ELD 4491, or EMR 4941. Introduction to assessment of exceptional students through formal and informal techniques. Emphasis placed on the interpretation of information for educational programming and individualization of instruction.

EEX 4243 EDUCATION OF THE EXCEPTIONAL ADOLESCENT AND ADULT (3)
PR: EEX 4011 or equivalent or CI. Procedures for implementing educational programs for exceptional adolescents and adults. Topics include service delivery, curriculum, academic remediation, advocacy, utilization of ancillary services, alternative programs, and community resources.

EEX 4604 BEHAVIOR MANAGEMENT FOR SPECIAL NEEDS AND AT RISK STUDENTS (3)
PR: EEX 4011. Taken concurrently with EED 4941, ELD 4941, or EMR 4941. Techniques to prevent, analyze, and manage challenging and disruptive classroom behavior as well as teaching social skills.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEX 4742</td>
<td>NARRATIVE PERSPECTIVES ON EXCEPTIONALITY:</td>
<td>3</td>
<td></td>
<td>Cultural and Ethical Issues - 6A - XLW</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>This course is designed to use literature as a way to interpret the lives of individuals with disabilities, their families and those who play an educational role in their lives. The course also addresses cultural and ethnic diversity so as to better analyze the role of ethics and values in decisions made pertaining to individuals with disabilities.</td>
</tr>
<tr>
<td>EEX 4846</td>
<td>CLINICAL TEACHING IN SPECIAL EDUCATION</td>
<td>3</td>
<td>EED 4941, ELD</td>
<td>Effective teaching principles, instructional management procedures, and specialized teaching techniques for exceptional students. The course is designed to use literature as a way to interpret the lives of individuals with disabilities, their families and those who play an educational role in their lives. The course also addresses cultural and ethnic diversity so as to better analyze the role of ethics and values in decisions made pertaining to individuals with disabilities.</td>
</tr>
<tr>
<td>EEX 4909</td>
<td>DIRECTED STUDY: EXCEPTIONAL STUDENT EDUCATION</td>
<td>1-3</td>
<td>EEX 4909</td>
<td>This course is designed to use literature as a way to interpret the lives of individuals with disabilities, their families and those who play an educational role in their lives. The course also addresses cultural and ethnic diversity so as to better analyze the role of ethics and values in decisions made pertaining to individuals with disabilities.</td>
</tr>
<tr>
<td>EEX 4941</td>
<td>UNDERGRADUATE SUPERVISED PRACTICUM IN SLD</td>
<td>3-6</td>
<td>EEX 4901 or ELD</td>
<td>Supervised field experiences in assessment, behavior management, and clinical teaching with classes for children who have specific learning disabilities. Repeatable up to a total of 6 hours. (S/U only.)</td>
</tr>
<tr>
<td>ELD 4011</td>
<td>INTRODUCTION TO SPECIFIC LEARNING DISABILITIES</td>
<td>3</td>
<td>EEX 4011 or CI</td>
<td>Characteristics, needs and abilities of children with SLD. Emphasis is on theories, issues, trends, and philosophy of problems for such children.</td>
</tr>
<tr>
<td>ELD 4905</td>
<td>INDEPENDENT STUDY: SPECIFIC LEARNING DISABILITIES</td>
<td>1-3</td>
<td>CI or EMR 4941</td>
<td>Specialized independent study determined by student's needs and interests. May be repeated up to 3 credit hours when subjects vary. (S/U only.)</td>
</tr>
<tr>
<td>ELD 4909</td>
<td>DIRECTED STUDY: SPECIFIC LEARNING DISABILITIES</td>
<td>1-3</td>
<td>Senior standing</td>
<td>To extend competency in teaching field.</td>
</tr>
<tr>
<td>EMR 4941</td>
<td>UNDERGRADUATE SUPERVISED PRACTICUM IN SLD</td>
<td>1-6</td>
<td>EEX 4011 and Major in Specific Learning Disabilities</td>
<td>Supervised field experiences in assessment, behavior management and clinical teaching with classes for children who have specific learning disabilities. Repeatable up to a total of 6 hours. (S/U only.)</td>
</tr>
<tr>
<td>EMR 4901</td>
<td>INTRODUCTION TO MENTAL RETARDATION</td>
<td>3</td>
<td>EEX 4011</td>
<td>Introduction to the classification, diagnosis, characteristics, and treatment of children with mental retardation.</td>
</tr>
<tr>
<td>EMR 4230</td>
<td>EDUCATING THE SEVERELY/PROFOUNDLY HANDICAPPED</td>
<td>3</td>
<td>EMR 3011 or CI</td>
<td>Emphasis on educational methods and materials for teaching students with severe/profound handicaps. Practicum/field experience linkage.</td>
</tr>
<tr>
<td>EEX 3705</td>
<td>SEMINAR IN PRESCHOOL HANDICAPPED</td>
<td>2</td>
<td></td>
<td>The impact of the social/cultural environment on the education of at-risk and handicapped children; family systems theory, principles of multicultural education, strategies for working effectively with families of school-age children, diverse cultures and family structures represented in school.</td>
</tr>
<tr>
<td>EEX 5752</td>
<td>WORKING WITH FAMILIES: A PLURALISTIC PERSPECTIVE</td>
<td>3</td>
<td></td>
<td>The impact of the social/cultural environment on the education of at-risk and handicapped children; family systems theory, principles of multicultural education, strategies for working effectively with families of school-age children, diverse cultures and family structures represented in school.</td>
</tr>
<tr>
<td>EGI 4941</td>
<td>UNDERGRADUATE SUPERVISED PRACTICUM</td>
<td>1-6</td>
<td></td>
<td>Organized, supervised experiences with gifted children. Specific experiences may be either a combination of observation and assistance with gifted children or individualized projects.</td>
</tr>
<tr>
<td>EGI 5051</td>
<td>NATURE AND NEEDS OF THE GIFTED</td>
<td>3</td>
<td></td>
<td>Characteristics and educational needs of gifted children and youth. Emphasis is on five types of giftedness as defined by National Department of Education (1) intellectual giftedness, (2) specific academic aptitude, (3) visual and performing arts, (4) leadership and (5) kinesthetic.</td>
</tr>
<tr>
<td>EGI 5325</td>
<td>THEORY AND DEVELOPMENT OF CREATIVITY</td>
<td>3</td>
<td></td>
<td>Exploration of the concept of creativity, its factors, measurement, and application to education. Opportunities are given to work with children in a laboratory setting and to prepare materials to be used with small groups of children.</td>
</tr>
<tr>
<td>EPH 5051</td>
<td>ADVANCED THEORIES IN MOTOR AND PHYSICAL DISABILITIES</td>
<td>3</td>
<td>EEX 4011 or CI</td>
<td>Biological and functional aspects of motor and physical health disabilities, including dysfunctions in central nervous system covering motor, sensory, language and psychological disorders.</td>
</tr>
<tr>
<td>EPH 5321</td>
<td>EDUCATIONAL STRATEGIES FOR PHYSICALLY AND</td>
<td>3</td>
<td>EPH 5051</td>
<td>Educational management of students with cerebral palsy, motor disabilities and multihandicapped conditions including rehabilitation and other community services.</td>
</tr>
</tbody>
</table>
The College of Engineering offers undergraduate and graduate programs to prepare students for a broad spectrum of professional careers in engineering. The undergraduate programs of the College are designed to provide students with a sense of human values and the scientific/technical foundation necessary for a lifetime of continued learning.

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

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

The Accreditation Board for Engineering and Technology, Inc. (ABET) has inspected and accredited the programs of the College of Engineering defined by the Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Industrial Engineering, and Mechanical Engineering curricula. The Bachelor of Science program in Computer Science is accredited by the Computer Science Accreditation Commission (CSAC) of the Computing Sciences Accreditation Board (CSAB).

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

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

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

**PROFESSIONAL ENGINEERING**

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

The Bachelor of Science degrees offered in various engineering fields provide the student a broad education with sufficient technical background to effectively contribute in many phases of engineering not requiring the depth of knowledge needed for advanced design or research. However, while the baccalaureate degree is considered the minimum educational experience for participating in the Engineering profession, and as such is the first professional degree, students interested in design and research are strongly encouraged to pursue advanced work beyond the baccalaureate either at this or other institutions. It is becoming increasingly evident that a large segment of today’s engineering professionals are involved in some form of post baccalaureate study. Engineers are earning advanced degrees to obtain the information and training necessary to meet effectively tomorrow's technological challenges. All are faced with the continuing problem of refurbishing and updating their information skills and most are obtaining additional information by means of formal graduate study, seminars, special institutes and other such systems designed for this purpose.

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

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

**Preparation for Engineering**

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

The high school student anticipating a career in engineering should elect the strongest academic program that is available while in high school. Four years each of English, Mathematics and Science (preferably including Chemistry and Physics), as well as full programs in the social sciences and humanities, are most important to success in any engineering college.

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

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

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

The College of Engineering can assist students who are planning to obtain an Engineering degree from the University of South Florida and who have started their studies elsewhere in formulating a sound total program. Interested students should contact the College's Advising Office (813/974-2684) furnishing sufficient details to permit meaningful response.
Undergraduate Admission to the College

Students may apply to the College of Engineering upon initial entry to the University by申报 Engineering as their intended major on their admissions application. Upon acceptance to the University, engineering will review necessary credentials and notify applicant of Engineering status.

USF students may apply through the Advising Office, in the College of Engineering. To be considered for admission to the College, an applicant must be accepted by the University as a degree-seeking student and be academically in good standing.

Applicants whose native language is other than English must submit TOEFL scores to the College of Engineering. The minimum TOEFL score must be 500.

Engineering Admission Requirements

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

2. Transfer Students:
   Transfer students should complete the following prerequisites 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 X045/X045L General Chemistry I (with lab)
   - CHM X046/X046L General Chemistry II (with lab)
   - PHY X049/X049L General Physics and Laboratory I
   - MAP X302 Differential Equations
   - EG I X111 Introduction to Design Graphics
   - MAC X281 Engineering Calculus I or MAC X311
   - MAC X282 Engineering Calculus II or MAC X312
   - MAC X283 Engineering Calculus III or MAC X313

Admission to Programs in Engineering

This program is under revision. Courses indicated with XXXX rather than course numbers will be submitted for approval during 1989-90. See your academic advisor for additional information.

Once a student has been admitted to the College of Engineering, he/she must then seek admission into one of the specific departments.

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

2. Satisfactory completion of EGN 4930 - Foundations of Engineering.
3. Completion of the following courses with a cumulative grade point average of 2.0 in these courses based on all attempts.
   - EGN 223 - Computer Tools for Engineers
   - EGN 3311 - Statics
   - EGN 3343 - Thermodynamics
   - EGN 3443 - Engineering Statistics
   - EGN 3373 - Introduction to Electrical Systems I

The minimum requirements for admission to the Computer Engineering program offered by the Computer Science and Engineering Department are completion of sections 1, 2 and 3 above and:

1. Completion of:
   - COP XXXX - Program Design
   - CDA XXXX - Computer Organization
   - COT 3100 - Introduction to Discrete Structures

2. The minimum requirements for admission to the Computer Science program offered by the Computer Science and Engineering Department are completion of sections 1 and 2 above and completion of:
   - COP XXXX - Program Design
   - CDA XXXX - Computer Organization

3. The minimum requirements for admission to the Information Systems program offered by the Computer Science and Engineering Department are completion of:
   - COP XXXX - Program Design
   - CDA XXXX - Computer Organization

Prior to being admitted to a department, a student may be permitted to take no more than two departmental engineering courses.

A student can have his or her academic records housed in a department and be advised by the department advisor prior to completing requirements for department admission if he or she so chooses. This type of student must still comply with all of the above-listed requirements prior to official acceptance by the department.

Direct Departmental Admission

The purpose of Direct Departmental Admission (DDA) is to permit students who have displayed academic potential for completing the rigor of Engineering to accelerate their admission to a particular department. The student must apply through the Advising Office of the College of Engineering. The requirements for Direct Departmental Admission (DDA) are:

1. Admission to the College of Engineering
2. High School Students: SAT scores of 500 Verbal and 600 Mathematics, a cumulative total of 1100; ACT scores of 26 Mathematics, a combined average score of 26.
3. Transfer Students: Successful completion of the following 17 hours of courses with a minimum grade point average of 3.30. (Grades in these courses may not be below "A" or "B" - a student with a "C" or less grade in any one of the below listed courses is not eligible for DDA.)
   - MAC 2281 - Engineering Calculus I
   - MAC 2282 - Engineering Calculus II
   - MAC 2283 - Engineering Calculus III
   - PHY 2048 - General Physics I & Lab
   - Either:
     - PHY 2049 - General Physics II & Lab
     - CHM 2041 - Chemistry & CHM 2045L

and 17 hrs.

Engineering Advising

Effective pursuit of engineering and engineering related studies requires careful attention to both the sequence and the type of courses taken. The engineering curriculum differs in key respects from the study plans of other majors - even in the freshmen year. It is, therefore, important, and the College requires, that each student plan his/her academic program and have it approved by a designated adviser in the College of Engineering.

New students must attend the University's Orientation program. They are assigned an engineering adviser during this program and receive advisement for their first semester at that time.

The student and adviser jointly work out a plan of study which meets both the student's career objectives and the College of Engineering's degree requirements. The advisers maintain the College of Engineering's student records.