

COLLEGE OF ARTS AND SCIENCES

UNIVERSITY OF SOUTH FLORIDA - 2002/2003 UNDERGRADUATE CATALOG

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

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

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

General Information

The College of Arts and Sciences Dean's Office is located in Cooper Hall (CPR), Room 107. For additional information about the College, visit our web site at <http://www.cas.usf.edu>. Information regarding advising, admission to the College, graduation requirements, special programs, and departments follows.

Community Initiative

Universities have become major actors in today's knowledge-based society. As such they can no longer remain secluded ivory towers, removed from the social problems that surround them. Recognizing this, the College of Arts and Sciences launched the Community Initiative, a new focus that identifies the community outside the university as an integral part of its educational mission to acquire, disseminate, and apply knowledge. The Community Initiative develops concrete and integrated efforts to link the teaching, research, and service components of our College with the interests and needs of residential, community-based organizations and businesses in the local area. Two major components of the Community Initiative are the Urban Studies Certificate Program and the Community Experiential Learning (CEL) Program. The Urban Studies Certificate gives students the opportunity to supplement their education and training with a focus on the urban world around them. Through the Community Experiential Learning (CEL) Program students can explore the relationship between their classroom learning and the broader community as they do community-based independent research or internships.

CASMAR

To assure that our undergraduate students' needs are being met in every aspect of their academic career, the College of Arts and Sciences continues to focus on strategies to aid in increased retention and continued success of our students from orientation through graduation. One such effort is the creation of CASMAR (College of Arts and Sciences Mentor and Retain), a program that uses trained mentors to shadow students and serve as a resource to them in order to assure that they are provided with the proper resources they need. Assistance is offered with academic advising, career development, tutoring and study skills strategies, as well as

personal development. For more information about CASMAR, check the CAS website or call (813) 974-6957 or send an email to casmar@chuma1.cas.usf.edu.

Undergraduate Advising Information

The Arts and Sciences Office of Graduate and Undergraduate Studies, located in the Behavioral Science Building (BEH), Room 201, handles all student-related academic matters. Students contemplating a major in Arts and Sciences or who have specific questions about a department/major should make an appointment with an advisor in their area of interest. Natural Science and pre-professional majors should consult the Science Advising Center. For a list of advisors, consult "Advising Inquiries" on the College of Arts and Sciences web page <http://www.cas.usf.edu>.

Advising Offices

Tampa Campus: College of Arts and Sciences Office Graduate and Undergraduate Studies, Behavioral Science Building (BEH), Room 201, (813) 974-6957.

Lakeland Campus: Student Services Office (863) 667-7000, or (800) USF-5636 (in-state only).

Sarasota Campus: Palmer "C" Building (PMC), Room 101, (941) 359-4331/4330.

St. Petersburg Campus: Davis Hall, Room 134, (727) 553-1511/1507.

North Pinellas Initiative: USF classes at SPJC Clearwater (for Interdisciplinary Social Science majors), (727) 553-1511.

Pasco-Hernando Initiative: USF classes at PHCC (for Interdisciplinary Social Science majors): (727) 553-1511.

Office Hours

The Arts and Sciences Office of Graduate and Undergraduate Studies is open 8 a.m. to 5 p.m. Monday through Friday. Academic advisors and major departments should be contacted directly to obtain information about office hours and appointment availability. Students are also encouraged to utilize the College's on-line advising information located at <http://www.cas.usf.edu>.

Science Advising Center

The Science Advising Center is located in the Behavioral Sciences Building (BEH), room 339, and provides a complete range of advising and informational services to Biology, Chemistry, Geology, Physics, Interdisciplinary Natural Sciences, and Medical Technology majors. In addition, the Center provides a wide range of services to health professions students preparing for admissions to professional schools of medicine, dentistry, veterinary medicine, chiropractic medicine, podiatry, optometry, pharmacy, physician assistant, physical therapy and other health related fields. These services include advising, workshops on application to professional schools, maintenance of evaluation files for professional school applicants, and coordination of health professions student organizations. Center advisors are prepared to assist students with planning their academic programs and with incorporating career enhancement opportunities into their educational experience. The Center maintains a library of resource materials related to post-baccalaureate degree schools and programs, and to careers in the sciences and health professions. For additional information, call (813) 974-2674 or go to <http://www.cas.usf.edu/sac>.

Undergraduate Admission to the College of Arts and Sciences

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

Undergraduate students must submit a formal application for admission into the College. This usually occurs during orientation and advising for new students. This application is also available in the Arts and Sciences' Office of Graduate and Undergraduate Studies (BEH 201) for continuing students. To ensure the best possible degree planning, students need to schedule an appointment with an academic advisor in his/her major field soon after being admitted to the university. Students preparing for a science or mathematics career must plan their courses carefully because of the sequential nature of the science curricula, and students seeking entrance into a professional school or the medical technology internship program require specialized counseling. Therefore, immediate application for admission into the College is strongly recommended.

Information on admission criteria, departments, majors, programs, counseling and other services of the College may be obtained from the Office of Graduate and Undergraduate Studies (BEH 201), College of Arts and Sciences, University of South Florida, Tampa, Florida 33620 or visit our web site at <http://www.cas.usf.edu>.

General Requirements for B.A./B.S./B.S.W. Degree Within the College of Arts and Sciences

The College of Arts and Sciences offers three undergraduate degrees: Bachelor of Arts, Bachelor of Science, and Bachelor of Social Work. The Bachelor of Independent Studies is an external degree program in which the student proceeds at his/her own pace.

IT IS EACH STUDENT'S RESPONSIBILITY TO MEET GRADUATION REQUIREMENTS:

1. Complete at least 120 accepted semester hours with an overall gpa of 2.000. Mass Communications requires 124 hours for the 1987-88 catalog and after.
2. Maintain an overall major gpa of 2.000. Note: In English and Mass Communications students must have a 2.500 gpa in major courses in the 1989 catalog or after; Social Work requires a 2.75 major gpa.
3. Complete the Foreign Language Entrance Requirement if entering USF fall semester, 1987 or later. Students pursuing a B.A. degree must complete the Foreign Language Exit Requirement.
4. Students enrolling in a college in January, 1983 or after must satisfy State Rule 6A-10.30 (Gordon Rule) concerning computation and communications. Transfer students who enter the University of South Florida with 60 or more semester hours from a regionally accredited institution are considered to have met the communications portion of the Gordon Rule.
5. Complete Liberal Arts Requirements (for more information, see section titled "Liberal Arts Requirements.")
 - General Education Requirements (36) hours credit:*
 - Six (6) hours credit in English Composition
 - Six (6) hours credit in Quantitative Methods
 - Six (6) hours credit in Natural Sciences
 - Six (6) hours credit in Social Sciences
 - Six (6) hours credit in Historical Perspectives
 - Three (3) hours credit in Fine Arts
 - Three (3) hours credit in African, Latin American, Middle Eastern, or Asian Perspectives
 - Exit Requirements (9) hours credit*
 - Six (6) hours credit in Major Works and Major Issues
 - Three (3) hours credit in Literature and Writing
6. Elective Physical Education is limited to 2 semester hours.
7. ROTC is limited to 9 semester hours.
8. When double majoring a maximum of 2 courses or 8 hours may be used to satisfy requirements between majors.

9. Maximum of 20 hours of S/U option. S/U contracts must be negotiated in writing within the first three (3) weeks of the term. None of the 20 credits may be taken in the student's major unless S/U is the only grading option. English 1101 or 1102 may not be taken S/U.
10. The Audit option is available only during the first 5 days of classes; none permitted later.
11. Complete at least 9 semester hours during summer terms if entering USF with fewer than 60 semester hours.
12. "D" grades are not acceptable in the major and supporting sciences for all natural sciences majors. "D" grades are not acceptable for the major area in Communication, Communication Sciences and Disorders, English, History, Humanities, Mass Communications, Psychology, Social Work, and Sociology. Only one "D" is allowed in the major for Criminology. (Important! All grades including "D"s and "F"s are used to calculate gpa's for students in the College of Arts and Sciences.)
13. Complete all major course requirements.
14. Complete a minimum of 48 hours of upper-level courses (numbered 3000 or above). Lower-level course work from 2-year or 4-year schools, though, equivalent to a 3000-level course at USF, does not meet this requirement.
15. Thirty (30) of the last 60 semester hours must be completed at USF to fulfill the residency requirement.
16. Biology, Chemistry, Criminology, Economics, English, Interdisciplinary Natural Sciences, Mass Communications, Mathematics, Physics, Political Science, Religious Studies, and Sociology have established minimum major course hours to be taken in residency at USF. See the department section of the catalog for these credit-hour requirements. In addition, all students who have majors in arts and letters and in the social sciences must take a minimum of 80 hours outside of the major department.
17. Students must satisfy CLAST (College Level Academic Skills Test).
18. Transfer credit for MAT 1033 will only be acceptable towards a bachelor's degree in the College of Arts and Sciences if it was earned as part of an Associate of Arts degree awarded by a public community college in the State of Florida or is part of a Florida public community college transcript which explicitly indicates that general education or general distribution requirements have been met.

Turn in your graduation application to BEH 201 during the 1st to the 4th week of the semester in which you plan to graduate. Applications are not accepted late.

THE DEPARTMENTAL MINOR

Minors generally require half as many hours as required for the major. In order to help students develop some concentration in elective work taken in conjunction with their chosen major, the College of Arts and Sciences offers minors in the following: Africana Studies, American Studies, Anthropology, Chemistry, Classics, Communication, Communication Sciences and Disorders, Criminology, Economics, English, Environmental Science and Policy, Foreign Languages, Geography, Geology, Gerontology, History, Humanities, International Studies, Linguistics, Mass Communications, Mathematics, Philosophy, Physics, Political Science, Psychology, Religious Studies, Sociology, and Women's Studies.

Certain restrictions apply to students earning a minor: (a) students may not use courses in the major for the minor; and (b) ISS majors may not earn a minor in any of the cognate areas incorporated in their contracts. In some departments, S/U grades within the minor curriculum are not countable. Specific requirements for the different minors appear under the departmental summaries listed under "Departments and Programs."

Baccalaureate-Level Degree Programs

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

BACHELOR OF ARTS

Africana Studies (AFA)
 Anthropology (ANT)
 Chemistry (CHM)
 Communication (SPE)
 Communication Sciences and Disorders
 Deaf Studies Concentration (DST)
 Interpreter Training Concentration (ITT)
 Speech-Hearing-Language Concentration (LSH)
 Criminology (CCJ)
 Economics (ECO)
 English
 Creative Writing Concentration (CRW)
 English and American Literature (LIT)
 Professional and Technical Writing (CWT)
 Geography (GPY)
 Geology (GLY)
 Gerontology (GEY)
 Government and International Affairs
 International Studies (INT)
 Political Science (POL)
 History (HTY)
 Humanities and American Studies
 American Studies (AMS)
 Humanities (HUM)
 Interdisciplinary Social Sciences (ISS)
 Liberal Studies (ALA)
 Mass Communications
 Advertising Concentration (ADV)
 Journalism/Magazine Production Concentration (MAG)
 News Concentration (NWS)
 News Editorial Concentration (JOU)
 Programming and Production Concentration (PGM)
 Public Relations Concentration (PUR)
 Visual Communications Concentration (VIC)
 Mathematics (MTH)
 Philosophy (PHI)
 Physics (PHY)
 Psychology (PSY)
 Religious Studies (REL)
 Sociology (SOC)
 Women's Studies (WST)
 World Language Education
 Classics (CLS)
 French (FRE)
 German (GER)
 Interdisciplinary Classical Civilizations (ICC)
 Italian (ITA)
 Russian (RUS)
 Spanish (SPA)

BACHELOR OF SCIENCE

Biology (BIO)

Chemistry (CHS)
 Environmental Science and Policy (ESP)
 Geology (GLS)
 Gerontology (GES)
 Interdisciplinary Natural Sciences (INS)
 Health Professions Track (INH)
 Medical Technology (MET)
 Microbiology (MIC) - housed in Biology
 Physics (PHS)

BACHELOR OF SOCIAL WORK (B.S.W.)

Social Work (SOK)

BACHELOR OF INDEPENDENT STUDIES (B.I.S.)

Independent Studies (BIS)

Honors Programs

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

Special Programs

COMMUNITY EXPERIENTIAL LEARNING PROGRAM

The Community Experiential Learning (CEL) Program offers students the opportunity to explore the relationship between their classroom learning and the broader community. With faculty guidance, students design their own community experiences and receive between one and four academic credit(s) upon completion. Students may choose to work as an intern with a community organization/agency or to explore a community issue through independent research. The community can be as close as a neighborhood just beyond the campus or on the other side of the world.

Students may participate in CEL anytime during their academic career. Good standing at the university and a 2.0 gpa is required for acceptance into the Program. CEL courses are offered throughout the entire year. Ideally, students should plan their CEL projects during the term prior to their implementation, but they can be added at any time during the term. Information may be obtained from Robin Jones, BEH 201, (813) 974-8452.

CERTIFICATES OF CONCENTRATION

Certificate Programs

The Certificate of Concentration is a short-term program for students who are interested in taking a series of courses in a selected area of Arts and Sciences, but are not necessarily interested in a degree. A minimum of 16 hours of approved course work are required. Students working for a Certificate of Concentration may register as non-degree or as degree-seeking students.

CERTIFICATE IN ASIAN STUDIES

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

Requirements for the Certificate in Asian Studies:

1. 18 semester hours from the courses listed below.
2. At least two courses must be from Group A and at least two courses must be from Group B. (Other relevant courses may be substituted with the approval of the program advisor.)
3. Students must declare their intention to be awarded the certificate by notifying the program advisor at least one full semester prior to graduation.

4. Students who fail to achieve a cumulative 2.5 GPA or higher in the program will be denied the certificate.

Courses credited toward the Asian Studies Certificate:

Group A

Art:

ARH 4530 (4) ARH 4796 (4)

Humanities:

HUM 3271 (4) HUM 3273 (4) HUM 4402 (4)

HUM 4404 (4) HUM 4405 (4)

Languages:

CHI 1120 (4) CHI 1121 (4) CHI 2200 (4)

CHI 2201 (4) CHI 4905 (1-5) CHI 4930 (1-5)

JPN 1120 (4) JPN 1121 (4) JPN 2000 (3)

JPN 2201 (3) JPN 4905 (1-5) JPN 4930 (1-5)

Religion:

REL 3330 (3) REL 4343 (4) REL 3350 (3)

REL 4333 (4) REL 4344 (4)

Group B

Geography:

GEA 3194 (4)*

History:

ASH 3404 (4) ASH 3501 (4)

Int'l Studies:

ASN 3012 (3) ASN 3014 (3) ASN 3105 (3)

INR 4900 (1-3)* INR 4910 (1-3)* INR 4931 (1-4)*

Political Science:

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

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

The advisor for the Certificate in Asian Studies is Professor Dajin Peng. He may be contacted at SOC 373, 813-974-3787.

CERTIFICATE IN ITALIAN STUDIES

The College of Arts and Sciences and the College of Fine Arts offer a certificate in Italian Studies. The history of the geographic expression that today we call Italy is the sum of many particular histories and cultures. Yet, in their diversity and diaspora, the people of Italy have preserved, through time and place, a sense of common identity. For this reason, to understand the complexity of past and present experiences of Italians in the peninsula and of their descendants abroad, the Undergraduate Certificate in Italian Studies is designed with a broad interdisciplinary perspective.

The certificate will encompass courses in several departments in two colleges. The majority of courses will focus on the study of history and culture of the people who inhabit or originated from the Italian peninsula and the islands of Sardinia and Sicily from pre-historic times to the present. In addition, however, offerings will also focus on the Italian diaspora with specific reference to the experiences of people of Italian descent in the many nations in which they settled from the early 19th century to the present.

Students are required to take between 23 and 28 semester hours from a list of courses approved for the certificate. A Faculty Advisory Committee will coordinate the Certificate of Italian Studies. Students may receive credit for courses, not included in the above list, or (if circumstances require it) may substitute a required course with another, by petitioning and if approved by the Advisory Committee.

Study Abroad: Students in the Italian Studies Certificate program are strongly encouraged to study abroad for the summer, a semester or a year in the USF in Italy program or in any other accredited program. The Advisory Committee will determine which courses taken as part of the overseas experience will count toward fulfilling the requirements for the certificate.

For additional information, send a message to Dr. Domenic Ierardo or Dr. Fraser Ottanelli, Coordinators of the Certificate in Italian Studies at itastudies@chuma.cas.usf.edu.

NOTE: Students may apply a maximum of sixteen credits in the same department toward fulfilling the requirements for the certificate.

I. Language Requirement:

Students must demonstrate proficiency in Italian or complete two semesters of language courses chosen from the following courses.

ITA 1120 Beginning Italian I

ITA 1121 Beginning Italian II

ITA 2200 Intermediate Italian I

ITA 2240 Italian Conversation I

ITA 2241 Italian Conversation II

ITA 3420 Composition

LAT 1120 Beginning Latin I

II. Core Courses:

Each student will take three courses from the following list. However only one course will be allowed from each department.

ARH 4301 Renaissance Art

ITW 4100 Survey of Italian Literature I

ITW 4101 Survey of Italian Literature II

HIS 3930 Renaissance Society

HIS 3930 The Italian Diaspora

HUM 4437 Italian Renaissance Culture

III. Elective Courses:

Students will take 6-8 credits of elective courses chosen from the following list:

Anthropology:

ANT 4143 European Archeology

ANT 4930 Mediterranean Archeology

Art History:

ARH 4796 The Renaissance Book [instructor's consent]

ARH 4318 Venetian Art [instructor's consent]

English:

LIT 4930 Italian Cinema

Government and International Affairs:

POT 4936 Selected Topics in Political Theory

History:

EUH 3412 Roman Republic

EUH 3413 Roman Empire

HIS 3930 The Italian Diaspora

HIS 3930 The Italian-American Experience

HIS 3930 The Rise of Rome

HIS 3930 The Punic Wars

HIS 3930 The Roman Revolution

HIS 3930 Renaissance Society

HIS 3930 Women and Men in Early Modern Europe

Humanities:

HUM 4437 Italian Renaissance Culture

HUM 4930 Italian Film and Music—Fellini and Rota

HUM 4930 Neo-Realism and the New Wave: Post

World War II French and Italian Film

World Language Education:

CLA 3123 Roman Civilization

CLT 3102 Roman Literature in Translation

ITA 1120 Beginning Italian I

ITA 1121 Beginning Italian II

ITA 2200 Intermediate Italian I

ITA 2240 Italian Conversation I

ITA 2241 Italian Conversation II

ITA 3420 Composition

ITA 3470 Overseas Study

ITW 4100 Survey of Italian Literature I

ITW 4101 Survey of Italian Literature II
 ITW 4905 Directed Study
 LAT 1120 Beginning Latin I

Theatre:

THE 4480 The Theatre of Luigi Pirandello

CERTIFICATE IN LATIN AMERICAN AND CARIBBEAN STUDIES

The College of Arts and Sciences offers a Certificate in Latin American and Caribbean Studies for students who wish to gain an intensive multi-disciplinary understanding of this important area. This certificate is designed for students who want to learn more about the region and have that knowledge formally recognized in their academic record.

The Certificate is granted to a person who takes a minimum of 15 semester hours of courses about Latin America and the Caribbean. One course must be taken in each of four areas: 1) Anthropology, 2) Geography/Government & International Studies, 3) History, and 4) Art/Humanities/Literature. A fifth course may be taken from a list of other courses or from one of the four core areas.

Students must also demonstrate proficiency in a Latin American or Caribbean language or have two semesters of relevant foreign language courses.

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

The following courses are a sample of courses offered that fulfill the certificate requirements. However, these should be considered as a partial list only. The student is strongly encouraged to review the *Schedule of Classes* each semester for current course offerings.

1) Anthropology

ANT 4162 South American Archaeology
 ANT 4163 Mesoamerican Archaeology
 ANT 4340 The Caribbean
 ANT 4324 Mexico and Central America
 ANT 4930 Caribbean Popular Culture

2) Geography/Government & International Affairs

CPO 4930 Latin American Politics
 CPO 5934 Selected Topics: Latin America
 INR 4931 Americas (TV)
 INR 4931 Latin America through Film
 LAS 3002 Latin America

3) History

AMH 3421 Early Florida
 LAH 2020 Latin American Civilization
 LAH 2734 Latin American History in Film
 LAH 3130 Colonial Latin America
 LAH 3200 Modern Latin America
 LAH 3430 History of Mexico
 LAH 3470 History of the Caribbean
 LAH 3930 US/Latin American Relations
 HIS 3930 History of Brazil
 HIS 3930 Inter-American Relations
 HIS 3930 Modern Central America
 HIS 3930 Revolutions in Latin America
 HIS 3930 Andean History
 HIS 4936 Latinos in the United States

4) Art/Humanities/Literature

ARH 4930 Latin American Art History
 HUM 4464 Latin American Culture Since 1492
 HUM 6465 Latin American Arts & Letters
 SPN 3440 Spanish for Business
 SPN 3520 Spanish American Civilization
 SPN 3930 Latin Writers
 SPN 5135 Colonial Spanish American Literature
 SPN 5525 Modern Spanish American Literature
 SPT 2524 Women Writers of Latin America
 SPW 3030 Introduction to Hispanic Literature
 SPW 4131 Survey of Spanish American Literature
 SYG 3235 Latina Lives

THE 4434 Caribbean Theatre
 WST 5934 Latin American Feminism

5) Others

ISS 5934 Seminar Latin American Caribbean and Latino Studies
 REL 3375 Issues in Caribbean Religions

See also: Sociology, Economics, Study Abroad.

For information and advice about the certificate program, contact the Latin American and Caribbean Studies Office, CPR 474, or call 974-3547. The program is open to all majors in all colleges.

CERTIFICATE IN MODERN WESTERN EUROPEAN STUDIES

The College of Arts and Sciences offers this certificate through the collaboration of the Departments of English, Geography, History, Humanities and American Studies, Government and International Affairs, Languages & Linguistics, and Philosophy. It is designed for majors in any field who wish to gain a multi-disciplinary understanding of a part of the world that has shaped much of our civilization and holds great significance for Americans in present and future.

The student and the Coordinator will plan the individual course of study, which requires between 21 and 24 semester hours. Students must declare their intention to be awarded the certificate by notifying the Coordinator at least one full semester prior to graduation. A cumulative gpa of 2.5 in the certificate course work is required. Please contact Professor Georg H. Kleine at SOC 274, (813) 974-2688, or by e-mail: kleine@chuma1.cas.usf.edu.

1) Language Requirement (6)

Students will enroll in two additional semesters of the foreign language they have taken in fulfillment of the College of Arts and Sciences language requirement.

2) Core Courses (9-10)

Students will take a total of three courses from the following; one of them must be either EUS 3000 or GEA 3500.

EUS 3000 Europe
 GEA 3500 Geography of Europe
 EUH 3206 History of Twentieth Century Europe
 HUM 3251 Studies in Culture: The Twentieth Century
 LIT 3144 Modern European Novel
 PHM 4331 Modern Political Philosophy

3) Elective Courses (6-8)

A. Overseas Experience

Students should make Western European study and travel an important component of their academic work. They are required to enroll for at least 3 elective credit hours in courses that involve Western European study and travel. These may be taken in one of three ways:

1. as IDS 4955 (Off-Campus Term International Program),
- 2.* as one or two of the courses listed below as Elective Courses, or
- 3.* as part of overseas study courses offered by other USF colleges and other universities.

**Elective courses under options (2) and (3) will be chosen in consultation with the Coordinator and an Advisory Committee.*

Western European study and travel allows students to concentrate on one of the areas of electives. Students may want to use overseas experience credits to fulfill their summer enrollment requirement.

A structured alternative experience in the United States may be substituted for the Overseas Experience. The Certificate accepts IDS 4943 (Off-Campus Term Special Project) or any of the courses listed below as Elective Courses for credit for this requirement. Coordinator, Advisory Committee and student will tailor the experience to fit the student's individual needs.

B. English (3)

ENL 3230	British Literature 1616-1780
ENL 3251	British Literature 1780-1900
ENL 3273	British Literature 1900-1945
ENL 3331	Early Shakespeare
ENL 3332	Late Shakespeare
LIT 3102	Literature of the Western World II

C. History (1-4)

EUH 3142	Renaissance and Reformation
EUH 3202	History of 17th and 18th Century Europe
EUH 3205	History of 19th Century Europe
EUH 3206	History of 20th Century Europe
EUH 3461	German History to 1870
EUH 3462	German History 1870 to Present
EUH 3501	British History to 1688
EUH 3502	British History 1688 to Present
HIS 3930	Special Topics
HIS 4900	Directed Reading

D. Humanities and American Studies (1-4)

HUM 4437	Italian Renaissance Culture
HUM 4438	Northern Renaissance Culture
HUM 4440	Arts and Letters in the 17th and 18th Centuries
HUM 4442	Arts and Letters of the Romantic Period
HUM 4444	19th Century European Arts and Letters
HUM 4445	20th Century European Arts and Letters
HUM 4905	Directed Study
HUM 4941	Study on Location

E. Government and International Affairs (3)

CPO 4930	Comparative Government and Politics
INR 3955	Overseas Study
POS 3931	Selected Topics
POS 4905	Independent Study
POT 4054	Modern Political Theory

F. Languages and Linguistics (1-4)

(Note: the student should take courses from the list below after completing the two additional semesters of the foreign language requirement (see I) or, if already advanced in a language, with the instructor's approval. These courses are generally taught in the target language.)

FRENCH

FRE 3230	Reading in French Literature and Culture
FRE 3440	French for Business
FRE 3500	French Civilization
FRW 4100	Introduction to French Novel
FRW 4101	Introduction to French Drama and Poetry
FRE 4905	Directed Study
FRE 4930	Selected Topics

GERMAN

GER 3500	German Civilization
GET 3100	German Literature in English
GEW 4100	Survey of German Literature I
GEW 4101	Survey of German Literature II
GEW 4900	Directed Study
GEW 4930	Selected Topics

ITALIAN

ITW 4100	Survey of Italian Literature I
ITW 4101	Survey of Italian Literature II
ITW 4905	Directed Study

SPANISH

SPN 3440	Spanish for Business
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SPN 3441	Advanced Spanish for Business Writing
SPN 3500	Spanish Civilization
SPW 3030	Introduction to Hispanic Literature
SPW 4100	Survey of Spanish Literature I
SPW 4101	Survey of Spanish Literature II
SPW 4900	Directed Study
SPW 4930	Selected Topics

G. Philosophy (3)

PHH 3420	History of Philosophy
PHH 4440	Continental Philosophy
PHM 4331	Modern Political Philosophy
PHP 3786	Existentialism
PHP 4410	Kant
PHP 4740	The Rationalists
PHP 4745	The Empiricists

Courses not included in the above list may be included in the program if approved by the Coordinator and an Advisory Committee.

CERTIFICATE IN RUSSIAN STUDIES

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

Language-Linguistics-Literature

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

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

History-Political Science-Economics.

Six to eight hours from the following courses:

CPO 2002	Introduction to Comparative Politics	(3)
CPO 4930	Comparative Government and Politics*	(3)
ECO 4323	Radical Political Economy	(3)
ECO 4935	Russian Political Economy	(3)
EUH 3574	Russian History to 1865	(4)
EUH 3576	Russian History from 1865 to Present	(4)

International Studies-Geography-Philosophy.

Six to eight hours from the following courses:

EUS 3022	Russia	(3)
GEA 3554	Geography of Russia Eurasia	(4)
INR 5086	Issues in International Relations	(3)
INR 3018	World Ideologies	(3)
INR 3770	Comparative Military Systems	(3)
INR 4900	Directed Readings*	(1-4)
INR 4910	Directed Research*	(1-4)
INR 3955	Overseas Study*	(1-6)
INR 4931	Selected Topics*	(1-4)
PHP 4788	The Philosophy of Marxism	(3)

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

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

CERTIFICATE IN URBAN STUDIES

The Urban Studies Certificate offers students the opportunity to supplement their education and training with a focus on the problems and potentials of the urban world around us. Eighty percent of Americans live in one of the country's nearly 400 major metropolitan areas. Understanding the economic, social, cultural, political and spatial phenomena of urban areas, and how they came to be, is essential if one is to thrive in today's world. The Urban Studies curriculum begins with an interdisciplinary Introduction to Urban Studies and then weaves the multidisciplinary urban offerings into a coherent understanding of urban life. The Urban Studies Coordinator helps each student fashion a curriculum that meets his/her unique intellectual and career needs. The curriculum, through its courses and internship possibilities, focuses on the "real world," thus providing students with a valuable foundation for their career planning and advancement. With the help of the Urban Studies Coordinator, students can design concentrations in urban planning, urban management, community development, community organizing, etc. The Certificate requires a minimum of 24 credits.

1) Core Courses (9-10 credits)

URS 3002	Introduction to Urban Studies	(3)
And 2 of the following:		
ANT 4442	Urban Life and Culture	(3)
ARC 4784	The City	(3)
ECP 3613	Economics of the Urban Environment	(3)
GEO 3602	Urban Geography	(4)
ISS 3930	Community Studies	(3)
ISS 4162	City and Urbanization	(3)
POS 3142	Introduction to Urban Politics and Government	(3)
SYD 4410	Urban Sociology or	(3)
Courses may have prerequisites within the discipline.		

2) Methods Courses (select 1 of the following: 3-4 credits)

ANT 4495	Methods in Cultural Research	(3)
ANT 4930	Social Networks	(3)
ECO 4935	Economics Statistics	(3)
POS 3713	Empirical Political Analysis	(3)
STA 2122	Social Science Statistics	(3)
SYA 3300	Research Methods	(3)
SYA 3310	Qualitative Inquiry	(3)
GEO 3164C	Quantitative Methods	(4)
GEO 4100C	Cartography	(4)
GEO 4114C	Geographic Techniques and Methodology	(4)
GEO 4151C	Geographic Information Systems	(4)
GEO 3164C	Quantitative Methods	(4)
Courses may have prerequisites within the discipline.		

3) Electives (select 4 from the following list or from the CORE COURSES not counted above: minimum of 12 credits)

Africana Studies

AFA 4331	Social Institutions and the African-American Community	(3)
AMH 3572	African American History since 1865	(3)
AMS 3700	Racism in American Society	(3)
AFA 4335	Black Women in America	(3)
AFA 4931	Social and Cultural Issues in Black Urban Life	(3)
PUP 3313	Blacks in the American Political Process	(3)

Anthropology

ANT 4316	Ethnic Diversity in the U.S.	(3)
ANT 4462	Health, Illness and Culture	(3)
ANT 4705	Applied Anthropology	(3)

ANT 4930	Special Topics in Anthropology	(3)
Communication		
SPC 3712	Communication and Cultural Diversity	(3)
SPC 4714	Communication, Culture and Community	(3)
Civil and Environmental Engineering		
CES 4000	Structures and Urban Environments for Non-Engineers	(3)
TTE 5501	Transportation Planning and Economics	(3)
Criminology		
CCJ 3003	Crime and Justice in America	(4)
CCJ 3024	Survey of the Criminal Justice System	(3)
CCJ 3610	Theories of Criminal Behavior	(3)
CCJ 3621	Patterns of Criminal Behavior	(3)
CCJ 4110	American Law Enforcement Systems	(3)
CCJ 4501	Juvenile Justice System	(3)
CCJ 4511	Police and Juvenile Delinquency	(3)
CCJ 4550	Developmental Aspects of Juvenile Delinquency	(3)
CCJ 4652	Juvenile Substance Use	(3)
Economics		
ECO 4323	Radical Political Economy	(3)
ECO 4504	Public Finance	(3)
ECP 3201	Economics of Women and Work	(3)
ECP 3203	Labor Economics	(3)
ECP 3302	Environmental Economics	(3)
ECP 3530	Economics of Health	(3)
ECO 4935	Economics of Crime	(3)
Geography		
GEO 4502	Economic Geography	(4)
GEO 4604	Advanced Urban Geography	(4)
GEO 4700	Transportation Geography	(4)
URP 4052	Urban and Regional Planning	(4)
Gerontology		
GEY 3606	Community Services for Older Adults	(3)
History		
AMH 3423	Modern Florida	(4)
AMH 3500	American Labor History	(4)
AMH 3530	Immigration History	(4)
AMH 3572	African American History since 1865	(3)
HIS 3930	Special Topics: The City in History	(3)
HIS 3930	Special Topics: The History of Tampa	(3)
HIS 3930	Special Topics: The History of St. Petersburg	(3)
Humanities and American Studies		
AMS 3700	Racism in American Society	(3)
Interdisciplinary Social Sciences		
ISS 4162	The City and Urbanization	(3)
ISS 4164	Urban Social Issues: An Interdisciplinary Approach	(3)
Political Science		
POS 2112	State & Local Government and Politics	(3)
POS 3145	Governing Metropolitan Areas	(3)
POS 4165	Community Leaders and Politics	(3)
POS 3931	Special Topics: Politics of St. Petersburg	(3)
PUP 3313	Blacks in the American Political System	(3)
PUP 4002	Public Policy	(3)
POS 5155	Issues of Urban Government and Politics	(3)
Psychology		
SOP 4714C	Environmental Psychology	(3)
Public Administration		
PAD 3003	Introduction to Public Administration	(3)
PAD 4204	Public Financial Administration	(3)
PAD 5333	Concepts & Issues in Public Planning	(3)
PAD 5807	Administration of Urban Affairs	(3)
Social Work		
SOW 3203	The American Social Welfare System	(3)
Sociology		
SYO 3120	Sociology of Families	(3)
SYO 3530	Social Stratification	(3)

SYD 3700	Racial and Ethnic Relations	(3)
SYP 4510	Sociological Aspects of Deviance	(3)
SYP 4530	Sociology of Juvenile Delinquency	(3)

4) Internships (1 of the following can be substituted as an ELECTIVE)

CCJ 4940	Internship for Criminal Justice Majors	(3)
HUM 4941	Study on Location	(3)
IDS 4942	CEL Community Internship	(3)
IDS 4956	CEL International Community Internship	(3)
POS 4941	Field Work	(3)
SYA 4949	Sociological Internship	(3)

Information and advice about the certificate program may be obtained from Robin R. Jones. Call (813) 974-8452 or email jones@chuma1.cas.usf.edu. The Office is located in BEH 201.

Health Professions

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

The College of Arts and Sciences offers programs designed to prepare students for admission to professional schools of medicine, osteopathic medicine, chiropractic medicine, dentistry, optometry, podiatry, veterinary medicine, pharmacy, physician assistant, and physical therapy. Most of these professions require four years of preprofessional preparation followed by four years of training in a professional school. A few well-prepared students with exceptional qualifications may be admitted to some professional schools as early as the completion of the junior year of preprofessional work. The preprofessional programs do not meet requirements for a degree; therefore, students must choose a major in addition to fulfilling their pre-professional requirements. Most preprofessional students major in the sciences because of their interests in the health sciences, and because of the considerable overlap between the preprofessional curriculum and the degree requirements for majors in the biology and chemistry departments. Entrance into all professional schools or programs is competitive, and students should begin establishing a record of excellence with the first semester at USF. Furthermore, it is essential that students pursue courses developing a sense of understanding of cultural and humane values as well as basic social problems. Students should also have some clinical and/or volunteer experience related to the medical field.

The College of Arts and Sciences provides academic advising in the Science Advising Center (BEH 339). The office maintains a library of current catalogs and books on admission requirements for professional schools and is an important resource center for preprofessional students. Students considering one of the health professions should contact the College of Arts and Sciences during the first semester at USF to declare their interest in a health professions program. Students are then assigned to the Science Advising Center for curriculum planning. At the time of application to professional schools, students are provided information about admission tests and the application process, and they are assisted in the process of obtaining recommendations. For additional information, go to <http://www.cas.usf.edu/sac/>.

Requirements for Health Professions Schools

These courses prepare students for admission to professional schools of chiropractic medicine, dentistry, medicine, osteopathic medicine, podiatric medicine, optometry, veterinary medicine, and pharmacy. All of these professional schools have in common the following course requirements, which should be completed by the end of the junior year, the usual time of application:

Biology			
BSC 2010, 2010L	Biology I: Cellular Processes	(3,1)	
BSC 2011, 2011L	Biology II: Diversity	(3,1)	
Chemistry			
CHM 2045, 2045L	General Chemistry I	(3,1)	
CHM 2046, 2046L	General Chemistry II	(3,1)	
CHM 2210, 2210L	Organic Chemistry I	(3,2)	
CHM 2211, 2211L	Organic Chemistry II	(3,2)	
Physics			
PHY 2053, 2053L	General Physics I	(3,1)	
PHY 2054, 2054L	General Physics II	(3,1)	

In addition to these requirements it is generally expected that preprofessional students will complete two semesters of English and mathematics appropriate for their degree. Some schools require calculus and some require one or two courses in biochemistry. CLEP credit usually is not accepted by professional schools, and some schools do not accept AP or IB credits. Students should check with the school of their choice regarding credit.

Specific Requirements for Chiropractic School

In addition to completing the basic preprofessional requirements listed under Requirements for Health Professions Schools, students should check requirements of individual schools, which may include courses such as speech and psychology. Although some chiropractic schools may require only 90 semester hours for admission, the state of Florida requires that students have earned a bachelor's degree prior to beginning chiropractic studies in order to be licensed.

Specific Requirements for Dental School

Most dental schools require the courses listed under Requirements for Health Professions Schools. The University of Florida and Nova Southeastern have the following required and recommended courses. However, students are encouraged to check with individual schools regarding specific admission requirements.

Required by University of Florida and strongly recommended by Nova Southeastern:

BCH 3023	Introductory Biochemistry	(3)
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Strongly Recommended:

PCB 5235	Principles of Immunology	(3)
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Recommended:

Business management		
Speech/communication		

Additionally, the University of Florida requires and recommends

Required:

MBC 3030C	General Microbiology	(4)
PCB 3063, 3063L	General Genetics	(3,1)
Developmental Psychology		

Strongly Recommended:

MAC 2241 OR MAC 2311	Calculus	(4)
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STA 2023 Introductory Statistics (4)
 Logic
 Sociology (emphasis on Diversity)
Recommended:
 Conversational Spanish

Specific Requirements for Medical School (including Osteopathic and Podiatric schools)

The basic requirements for medical schools are the courses listed under Requirements for Health Professions Schools. In addition, the following courses are required and/or strongly recommended. Students should check individual schools for additional requirements.

*Required by Florida State University and University of Florida;
 recommended by University of Miami*
 BCH 3023, 3023L Introductory Biochemistry (3,2)

Required by Florida State University
 CHS 4300 Fundamentals of Clinical Chemistry (3)

Strongly recommended by University of South Florida
 MAC 2241 Life Sciences Calculus I (4)
 or
 MAC 2281 Engineering Calculus (4)
 or
 MAC 2311 Calculus I (4)

Specific Requirements for Optometry School

Optometry schools differ somewhat in their admissions requirements. In addition to the common list of courses under Requirements for Health Professions Schools, most schools require the following courses:

Biology
 MCB 3030C General Microbiology (4)

Mathematics
 MAC 2241 Life Science Calculus I (4)
 STA 2023 OR STA 2122 Statistics (4,3)

Psychology
 PSY 2012 Psychological Science I (3)

Students should check requirements of individual schools and complete requirements for those schools where they plan to apply for admission.

Specific Requirements for Veterinary School

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

Biology
 MCB 3030C General Microbiology (4)
 PCB 3063, 3063L General Genetics (3,1)

Chemistry
 BCH 3023 Introductory Biochemistry (3)

Mathematics
 STA 2023 Introductory Statistics (4)
 and
 MAC 2241 AND MAC 2242 Life Sciences
 Calculus I and II (4,4)
 or
 MAC 2311 Calculus I (4)

In addition, students must have a minimum of 80 hours, including 6 hours of English, 6 hours of social science, and 9 hours of humanities. Students are also required to take two courses in animal science which are offered only at University of Florida (e.g., Introduction to Animal Science and Animal Nutrition). Students usually take these in the summer before beginning veterinary school; these 8 hours can be counted in the 80.

Specific Requirements for Pharmacy School

Most pharmacy schools require a minimum of 60 semester hours and the basic science courses listed under Requirements for Health Professions Schools. In addition, specific courses in microbiology, biochemistry, anatomy and physiology, speech, computer literacy, economics, humanities, and social sciences are required or recommended. Due to the variations in admission requirements among the pharmacy schools, students should check with the school of their choice.

Specific Requirements for Physician Assistant School

Physician assistant schools have slightly different requirements from other health profession schools. All physician assistant schools require or strongly recommend the following courses:

Biology
 BSC 2093* Human Anatomy and Physiology I (3)
 BSC 2094 Human Anatomy and Physiology II (3)
 MCB 3030C General Microbiology (4)

Chemistry
 CHM 2045, 2045L General Chemistry I (3,1)
 CHM 2046, 2046L General Chemistry II (3,1)
 CHM 2210 Organic Chemistry I (3)
 OR
 BCH 3023* Introductory Biochemistry (3)

*Note: At USF, BSC 2093 and BCH 3023 have prerequisites that are not always required by the physician assistant programs. See the course descriptions for more information. Some programs may also require Anatomy labs (not offered at USF).

In addition, Biology I and II (BSC 2010 and 2011) are also required by some physician assistant programs. Many schools require the second semester of organic chemistry, an additional upper-level course in biology, courses in psychology and/or sociology, public speaking (SPC 2600), at least one math course (MAC 1105 and STA 2023 are often recommended), and a course in medical terminology (CLT 3040 or HSC 4933). Students should always check with the schools they are interested in to ensure the completion of all requirements for those schools. Visit the Science Advising Center's web site (<http://www.cas.usf.edu/sac/>) for links to the physician assistant schools and their admissions requirements.

Specific Requirements for Physical Therapy School

Physical Therapy programs in the State of Florida have the following requirements:

Biology	
BSC 2010, 2010L	Biology I: Cellular Processes (3,1)
BSC 2093	Human Anatomy and Physiology I (3)
BSC 2094	Human Anatomy and Physiology II (3)
OR	
BSC 2010, 2010L	Biology I: Cellular Processes (3,1)
BSC 2011, BSC 2011L	Biology II: Diversity (3,1)
Human Physiology with Lab (<i>not offered at USF</i>)	
Chemistry	
CHM 2045, CHM 2045L	General Chemistry I (3,1)
CHM 2046, CHM 2046L	General Chemistry II (3,1)
Mathematics	
STA 2023	Introductory Statistics (4)
Physics	
PHY 2053, PHY 2053L	General Physics I (3,1)
PHY 2054, PHY 2054L	General Physics II (3,1)
Psychology	
PSY 2012	Psychological Science I (3)
DEP 2004	Life Cycle (3)
or Human Growth & Development course	

Though many of the prerequisites for Physical Therapy are the same nationwide, a student should always check with their school of choice for admission requirements. Students seeking advising assistance should contact the Science Advising Center (BEH 339) or visit the web site (<http://www.cas.usf.edu/sac/>)

Requirements for B.S. Degree for Early Admission Students

Early admission to professional school is exceptional with today's competitive applicant pool; however, a few students may be admitted prior to completion of the bachelor's degree through special programs such as the University Honors Program.

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

Students planning on early admission should begin studies at a 4-year institution as professional schools require at least 1 year of studies at a university prior to application. Depending upon the professional school, additional science courses may be required or strongly recommended as indicated in the preceding sections. Exposure to a health profession is also strongly recommended.

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

1. Transfer of a minimum of 30 semester hours of science courses from an accredited medical or dental school.
2. Completion of a minimum of 90 semester hours of credit with a minimum grade point average of 2.0 prior to transfer to the medical or dental school.
3. Completion of the following courses with at least a C- in each course:

Biology	
BSC 2010, 2010L	Biology I: Cellular Processes (3,1)
BSC 2011, 2011L	Biology II: Diversity (3,1)
MCB 3030C	General Microbiology (4)

Plus two of the following biology courses, including at least one with a laboratory (minimum 7 semester hours):

PCB 3023, 3023L	Cell Biology (lab optional) (3-4)
PCB 3063, 3063L	General Genetics (lab optional) (3-4)
MCB 4502	Virology (3)
MCB 4115	Determinative Bacteriology (5)
MCB 5815	Medical Mycology (3)
PCB 4064	Experimental Genetics (3)
PCB 4723	Animal Physiology (3)
PCB 4723L	Animal Physiology Lab (1)
PCB 5235	Principles of Immunology (3)
ZOO 3323C	Anatomy of Chordates (4)
ZOO 3713	Comparative Vertebrate Anatomy (4)
ZOO 4603	Animal Embryology (4)
ZOO 4753C	Histology (4)

Chemistry	
CHM 2045, 2045L	General Chemistry I (3,1)
CHM 2046, 2046L	General Chemistry II (3,1)
CHM 2210, 2210L	Organic Chemistry I (3,2)
CHM 2211, 2211L	Organic Chemistry II (3,2)
BCH 3023	Introductory Biochemistry (3)

Physics	
PHY 2053, 2053L	General Physics I (3,1)
PHY 2054, 2054L	General Physics II (3,1)

Mathematics	
MAC 2241, MAC 2311, or MAC 2281	Calculus (4,4,3)

<i>Plus either the second semester of a calculus sequence</i>	
OR	
STA 2023	Introductory Statistics I (4)

4. Completion of the University's General Education and Exit Requirements.

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

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

Students admitted to professional schools of veterinary medicine, optometry, or podiatric medicine prior to completion of their degree may also be able to transfer courses from the professional school and receive their bachelor's degree. However, approval of the courses to be transferred must be obtained on an individual basis from the College of Arts and Sciences, and in some cases it may be necessary for students to complete more than 90 hours prior to leaving the University of South Florida. For more information, students should see an advisor in the Science Advising Center (BEH 339).

TEACHER EDUCATION PROGRAMS

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

B.S. DEGREE PROGRAMS FOR SECONDARY SCHOOL TEACHERS

The College of Arts and Sciences in cooperation with the College of Education offers degree programs in Mathematics, Biology, Chemistry, Physics, English, Foreign Language and Social Science Education. Prospective students should consult the College of Education portion of this catalog under the

heading Department of Secondary Education for degree requirements.

DEPARTMENTS AND PROGRAMS

• AFRICANA STUDIES (AFA)

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

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

Recommended Prerequisites (State Mandated Common Prerequisites)

The department encourages students to 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.

If you transfer with fewer than 60 semester hours of acceptable credit, you must meet the university's entering freshman requirements, including ACT or SAT test scores, GPA, and course requirements.

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

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

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

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

Requirements for the Major in Africana Studies

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

Major requirements for the B.A. Degree (36 Cr. Hours)

AFA 2000	Introduction to the Black Experience in Africa and its Diaspora	(3)
AFH 3100	African History to 1850	(3)
AFH 3200	African History Since 1850	(3)
AMH 3571	African-American History to 1865	(3)
AMH 3572	African-American History Since 1865	(3)

Select any seven courses. Students may choose to emphasize African American Studies, African Studies or both. (21 credit hours)

African American Studies (Suggested)

AFA 4313	Black English	(3)
AFA 4331	Social Institutions and the African American Community	(3)
AFA 4335	Black Women in America	(3)
AFA 4340	Black Towns and Communities	(3)
AFA 4350	African American Community Research	(3)
AFA 4400	Middle Passage	(3)
AFA 4500	Slavery in the Americas and Caribbean	(3)
AFA 4931	Selected Topics in Africana Studies	(1-3)
AFS 4311	The African Diaspora: Blacks in the Contruction of the Americas	(3)
AMS 3700	Racism in American Society	(3)
ANT 4340	The Caribbean	(3)
AML 3604	African American Literature	(3)
AML 4303	Major Works: Zora Neale Hurston	(3)
AML 4624	Black Women Writers	(3)
HUM 2420	Arts and Music of the African People	(3)
PHM 4120	Major Black Thinkers	(3)
PUP 3313	Blacks in the American Political Process	(3)

African Studies (Suggested)

AFA 3153	African Literature Survey	(3)
AFA 4150	Africa and the United States	(3)
AFA 4313	Black English	(3)
AFA 4340	Black Towns and Communities	(3)
AFA 4350	African American Community Research	(3)
AFA 4400	Middle Passage	(3)
AFA 4500	Slavery in the Americas and Caribbean	(3)
AFA 4931	Selected Topic in Africana Studies	(1-3)
AFS 2250	Culture and Society of Africa	(3)
CPO 4204	Government and Politics of Africa	(3)
CPO 4244	Government and Politics of East, Central, and Southern Africa	(3)
HUM 2420	Arts and Music of the African People	(3)
INR 4254	Africa in World Affairs	(3)
PHI 4073	African Philosophy	(3)

Africana Studies (Suggested)

AFA 3153	African Literature Survey	(3)
AFA 4313	Black English	(3)
AFA 4331	Social Institutions and the African American Community	(3)
AFA 4335	Black Women in America	(3)
AFA 4400	Middle Passage	(3)
AFA 4931	Selected Topics in Africana Studies	(1-3)
AFS 2250	Culture and Society in Africa	(3)
AFS 4311	The African Diaspora: Blacks in the Contruction of the Americas	(3)
AML 3604	African American Literature	(3)
AML 4624	Black Women Writers	(3)
ANT 4340	The Caribbean	(3)
CPO 4204	Government and Politics of Africa	(3)
CPO 4244	Government and Politics of East, Central, and Southern Africa	(3)
HUM 2420	Arts and People of the African People	(3)
PHI 4073	African Philosophy	(3)
PHM 4120	Major Black Thinkers	(3)
PUP 3313	Blacks in the American Political Process	(3)

Requirements for the Minor in Africana Studies

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

Minor Requirements (18 Hours) Three Options

African and African Diasporan Studies- Option I*Required Core Classes (9 Hours)*

AFA 2000	Intro To The Black Experience	(3)
AFH 3100	African History To 1850	(3)
or		
AFH 3200	African History Since 1850	
AMH 3571	African American History To 1865	(3)
or		
AMH 3572	Afr-Amer History Since 1865	

Elective Classes (Select 9 Hours)

AFA 4150	Africa And The United States	(3)
AFA 4335	Black Women In America	(3)
AFA 4931	Selected Topics In Africana Studies	(1-3)
CPO 4204	Government And Politics Of Africa	(3)
CPO 4244	Government And Politics Of East, Central, And Southern Africa	(3)
HUM 2420	Arts And Music Of The Arican People	(3)
INR 4254	Africa In World Affairs	(3)
PHM 4120	Major Black Thinkers	(3)
PUP 3313	Blacks in the American Political Process	(3)

African American Studies- Option II*Required Core Classes (9 Hours)*

AFA 2000	Introduction to the Black Experience in Africa and its Diaspora	(3)
AMH 3571	African American History to 1865	(3)
AMH 3572	African American History Since 1865	(3)

Elective Classes (Select 9 Hours)

AFA 4150	Africa and the United States	(3)
AFA 4331	Social Institutions and the African-American Community	(3)
AFA 4335	Black Women in America	(3)
AFS 4311	The African Diaspora: Blacks in the Contruction of the Americas	(3)
HUM 2420	Arts and the Music of the African People	(3)
PHM 4120	Major Black Thinkers	(3)
PUP 3313	Blacks in the American Political Process	(3)

African Studies-Option III*Required Classes (9 Hours)*

AFH 3100	African History to 1850	(3)
AFH 3200	African History Since 1850	(3)
CPO 4204	Government and Politics of Africa	(3)
INR 4254	Africa in World Affairs	(3)

Electives (Select 9 Hours)

AFA 4150	Africa and the United States	(3)
AFA 4931	Selected Topics in Africana Studies	(1-3)
CPO 4244	Government and Politics of East, Central, and Southern Africa	(3)
HUM 2420	Arts and Music of the African People	(3)
INR 4254	Africa in World Affairs	(3)

- AMERICAN STUDIES (AMS/HUM)**

See "Humanities & American Studies."

- ANTHROPOLOGY (ANT)**

Anthropology aims at comprehending people as biological and social beings. It is concerned with all forms of people through time and space. One consequence of this broad-ranging view is the presence within anthropology of four branches: archaeology, biological anthropology, cultural anthropology, and linguistics. Exposure to anthropological information and the cross-cultural perspective produces heightened sensitivity in the student to the world about him/her. This helps the student to adopt an intellectual posture of disciplined skepticism with respect to any scheme that purports to define and account for regularities in human life.

The Department of Anthropology is concerned with applying anthropological knowledge, theory, method, and perspectives to problems of contemporary society. Illustrative areas of

activity include human services needs assessment, program planning and evaluation, public archaeology, social and environmental impact assessment, and public policy analysis.

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

Students majoring in other fields may find anthropology coursework an exciting and valuable supplement to their primary academic interest. A minor in anthropology has been developed with this purpose in mind. The minor program is structured to allow the student maximum flexibility in course selection within a broadly defined progression of anthropological concerns. Thus, the student is able to tailor a minor in anthropology to best suit special wants and needs in the context of an overall curriculum.

For additional information about the department please visit our web site: <http://www.cas.usf.edu/anthropology/index.html>

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Community College:

Students wishing to transfer to USF should complete the A.A. degree at the community college. Students should complete two lower level, introductory courses in Anthropology prior to entering the university. If not taken at the community college, they must be completed before the degree is granted. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A grade of "C" is the minimum acceptable grade. If students transfer 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.

Requirements for the Major in Anthropology

Beyond the recommended prerequisites listed above, the major in Anthropology consists of a minimum of 36 credit hours. ANT 2000 is prerequisite to all subsequent courses. ANT 3101, ANT 2410, ANT 2511 and ANT 3610 are required as intermediate level training in the main subdivisions of the field, and ANT 4034 and ANT 4935 complete the specific requirements. Majors are required to complete a minimum of 15 hours of 4000-level elective coursework, including courses from at least three of the four subfields shown below.

Required Core Courses

ANT 2000	Introduction to Anthropology	(3)
ANT 2410	Cultural Anthropology	(3)
ANT 2511	Biological Anthropology	(3)
ANT 3101	Archaeology	(3)
ANT 3610	Anthropological Linguistics	(3)
ANT 4034	Theories of Culture	(3)
ANT 4935	Rethinking Anthropology	(3)

Archaeology

ANT 4142	Old World Archaeology	(3)
ANT 4143	European Archaeology	(3)
ANT 4147	Environmental Archaeology	(3)
ANT 4153	North American Archaeology	(3)
ANT 4158	Florida Archaeology	(4)
ANT 4165	South American Archaeology	(3)
ANT 4163	Mesoamerican Archaeology	(3)
ANT 4172	Historical Archaeology	(3)
ANT 4180	Laboratory Methods in Archaeology	(2-4)
ANT 4181	Museum Methods	(4)
ANT 4183C	Archaeological Science	(4)
ANT 4824	Archaeological Field Methods	(4-12)

Biological Anthropology

ANT 4520	Forensic Anthropology	(3)
ANT 4586	Prehistoric Human Evolution	(3)
ANT 4587	Human Variation	(3)

Anthropological Linguistics

ANT 4620	Language and Culture	(3)
ANT 4750	Language and Social Interaction	(3)

Cultural Anthropology

ANT 4231	Folklore	(3)
ANT 4241	Magic and Religion	(3)
ANT 4285	Oral History	(3)
ANT 4302	Gender in Cross-Cultural Perspective	(3)
ANT 4312	North American Indians	(3)
ANT 4316	Ethnic Diversity in the United States	(3)
ANT 4323	Mexico and Central America	(3)
ANT 4340	The Caribbean	(3)
ANT 4390	Visual Anthropology	(3)
ANT 4432	The Individual and Culture	(3)
ANT 4442	Urban Life and Culture	(3)
ANT 4462	Health, Illness, and Culture	(3)
ANT 4495	Methods in Cultural Research	(3)
ANT 4701	Applied Anthropology	(3)
URS 3002	Introduction to Urban Studies	(3)

Anthropology majors are urged to become competent readers and speakers of a relevant modern foreign language (which may include American Sign Language). They are also urged to enhance their English reading, writing, speaking and critical thinking capabilities and develop their skills in computational, statistical and other forms of quantitative analysis at every opportunity. Students are encouraged to fulfill General Education and Exit requirements with courses relevant to their interests in anthropology whenever possible. In pursuit of all these goals, they should meet with the department's Undergraduate Advisor at least once each semester to discuss such topics as academic progress, future course plans, Department Honors Program, summer field schools, job opportunities, graduate education and professional careers in anthropology.

Requirements for the Minor in Anthropology

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

- 2000-level required core course (3 cr. hrs.)
ANT 2000 Introduction to Anthropology
- Intermediate-level core courses (3-6 cr. hrs.)
ANT 2410 Cultural Anthropology
ANT 2511 Biological Anthropology
ANT 3101 Archaeology
ANT 3610 Anthropological Linguistics
- 4000-level elective courses (9-12 cr. hrs.)
As described above in the listing of elective courses in archaeology, physical anthropology, anthropological linguistics and cultural anthropology.

REQUIREMENTS FOR THE ANTHROPOLOGY HONORS PROGRAM

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

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

• BACHELOR OF INDEPENDENT STUDIES (BIS)

New applicants are not currently being accepted. The Bachelor of Independent Studies (BIS) Program is the State University System External Degree Program. The universities currently involved are Florida International University, Florida State University, the University of Florida, the University of North Florida, and the University of South Florida. The administrative office for the statewide program is located at USF in Tampa.

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

Admission Procedures

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

Mechanisms for Recognizing Prior Learning

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

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

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

Recommended 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. If students transfer 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.*

CURRICULUM

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

TUTORIALS

The tutorial or guided independent study is predominantly print intensive, with core and suggested readings drawn from the BIS Guide to Independent Studies. In the Humanities tutorial, for example, the student reads across the disciplines of the Humanities Study Area which include Language, Literature, Philosophy, Art, Drama, and Architecture. Selected works are reviewed within the framework of historical periods. Tutorial objectives include knowledge of the basic principles of each of the genres and periods, the ability to visualize relationships between the disciplines, grasp of the nomenclature of the disciplines, and the capacity to apply basic concepts to current issues. The student is responsible for systematic interaction with the faculty mentor who directs the reading process and evaluates the student's progress.

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

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

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

SEMINARS

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

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

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

UNDERGRADUATE THESIS

The fourth study area or Inter-area Study calls for a synthesis of the first three study areas via the preparation and defense of an undergraduate thesis. The student begins the Area with Inter-area reading leading to the completion of an undergraduate thesis prospectus under the direction of a primary advisor. Following approval of the prospectus by a committee composed of three faculty, the student writes the study under the direction of the committee chairperson. The final step is to complete successfully an oral examination on the thesis.

• BIOLOGY (BIO/MRN/MIC)

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

In addition to a set of courses in biology, students must have a thorough preparation in other areas of natural sciences to be competitive for jobs or for further study beyond the baccalaureate. A modern biology curriculum is built on a foundation of mathematics, chemistry and physics. Students should study the requirements listed below and then make maximum use of the vigorous advising program maintained by the Department in structuring their programs. For advising contact the Science Advising Center, BEH 339 or call 813-974-2674.

Requirements for Entrance into either the Biology or Microbiology Programs

1. Completion of two semesters of college-level basic biology (BSC 2010 / 2010L and BSC 2011 / 2011L, or equivalents); two semesters of college-level basic chemistry (CHM 2045 / 2045L and CHM 2046 / 2046L, or equivalents); and one semester of any college-level mathematics, physics, or statistics course.
2. A cumulative GPA of at least 2.75 in the five courses listed above.

These requirements will NOT BE WAIVED for students who pass major courses beyond college-level basic biology, but do not have the necessary cumulative GPA (2.75) in the five courses listed above.

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

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Community College:

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

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

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

Required Courses for the Biology Major

1. Department of Biology Courses-minimum 40 credit hours
 - a. BSC 2010 Biology I Cellular Processes (3)
BSC 2010L Biology I Cellular Processes Laboratory (1)
BSC 2011 Biology II Diversity (3)
BSC 2011L Biology II Diversity Laboratory (1)
 - b. PCB 3023 Cell Biology (3)
PCB 3043 Principles of Ecology (3)
PCB 3063 General Genetics (3)
 - c. **ONE** of the following:
PCB 3023L Cell Biology Laboratory (1)
PCB 3043L Principles of Ecology Laboratory (1)
PCS 3063L General Genetics Laboratory (1)
 - d. **ONE** of the following (with laboratory):
BOT 3373C Vascular Plants: Form and Function (4)
MCB3030C General Microbiology (4)
ZOO 3205C Advanced Invertebrate Zoology (4)
ZOO 3713C Comparative Vertebrate Anatomy (4)
ZOO 4603C Animal Embryology (4)
ZOO 4753C Histology (4)
 - e. **ONE** of the following (with laboratory):
MCB 4404 Microbial Physiology and Genetics (4)
PCB 4723 Animal Physiology (3)
 - f. The remaining credit hours to meet the minimum requirements must come from among structured departmental courses that are applicable to the major **and** BCH 3023. At least eight (8) of these credit hours must be at the 4000 level or higher.
 - g. A maximum of four (4) credit hours of Undergraduate Research (BSC 4910) or Biology Honors Thesis (BSC 4970) may be applied.

- h. A minimum of 20 hours of Biology courses must be taken in residency and be applicable to the major.
2. Supporting Courses in the Natural Sciences-minimum 32 credit hours
 - a. CHM 2045 General Chemistry I (3)
CHM 2045L General Chemistry I Laboratory (1)
CHM 2046 General Chemistry II (3)
CHM 2046L General Chemistry II Laboratory (1)
 - b. CHM 2210 Organic Chemistry I (3)
CHM 2210L Organic Chemistry I Laboratory (2)
CHM 2211 Organic Chemistry II (3)
CHM 2211L Organic Chemistry II Laboratory (2)
 - c. MAC 2241 Life Sciences Calculus I (4)
and
MAC 2242 Life Sciences Calculus II (4)
OR
MAC 2281 Engineering Calculus I (4)
and
MAC 2282 Engineering Calculus II (4)
OR
MAC 2311 Calculus I (4)
and
MAC 2312 Calculus II (4)
OR
MAC 2241 Life Sciences Calculus I (4)
and
STA 2023 Introductory Statistics I (4)
 - d. PHY 2048 General Physics I (3)
PHY 2048L General Physics I Laboratory (1)
PHY 2049 General Physics II (3)
PHY 2049L General Physics II Laboratory (1)
OR
PHY 2053 General Physics (3)
PHY 2053L General Physics Laboratory (1)
PHY 2054 General Physics (3)
PHY 2054L General Physics Laboratory (1)
3. Liberal Arts Courses-minimum 45 credit hours
4. Free Elective Courses needed to complete 120 credit hours.

Requirements for the Biology B.S. Major with a Concentration in Marine Biology (MRN)

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Community College:

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

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

MAC X311	Calculus I Acceptable substitutes: MAC 2233, MAC 2253, MAC X281
MAC X312	Calculus II Acceptable substitutes: STA 2122, 2014, 2023, 2034, 2321 or equivalent; MAC 2234, 2254, 3282

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

Required Courses for the Biology Major with a Marine Biology Concentration

1. Department of Biology Courses-minimum 42 credit hours
 - a. BSC 2010 Biology I Cellular Processes (3)
BSC 2010L Biology I Cellular Processes Laboratory (1)
 - BSC 2011 Biology II Diversity (3)
 - BSC 2011L Biology II Diversity Laboratory (1)
 - b. PCB 3023 Cell Biology (3)
 - PCB 3043 Principles of Ecology (3)
 - PCB 3063 General Genetics (3)
 - c. **ONE** of the following:
 - PCB 3023L Cell Biology Laboratory (1)
 - PCB 3043L Principles of Ecology Laboratory (1)
 - PCS 3063L General Genetics Laboratory (1)
 - d. BSC 3263C Marine Biology (3)
 - e. **ONE** of the following (with laboratory):
 - MCB 4404 Microbial Physiology and Genetics (4)
 - PCB 4723 Animal Physiology (3)
 - f. At least one of the following: Vascular Plants (BOT 3373C), Microbiology (MCB 3303C), Vertebrate Zoology (ZOO 2303C), Comparative Vertebrate Anatomy (ZOO 3713C), Advanced Invertebrate Zoology and Lab. (ZOO 3205C)
 - g. Senior Seminar in Marine Biology
 - h. The remaining nine (9) credit hours to meet the minimum requirements must come from courses listed in (f) above and/or from the following list. A maximum of six (6) credits may be taken in courses from other departments/colleges. At least eight (8) of these credit hours must be at the 4000 level or higher:
 - OCB 6050 Biological Oceanography
 - OCC 6050 Chemical Oceanography
 - OCG 6051 Geological Oceanography
 - OCP 6050 Physical Oceanography
 - GLY 4734 Beaches and Coastal Environments
 - GEO 5177 Geographic Information Systems
 - ZOO 5456 + ZOO 5456L Ichthyology
 - MCB 5600 Applied and Environmental Microbiology
 - ZOO 5555C Marine Animal Ecology
 - ZOO 4513 Animal Behavior
 - PCB 4674 Organic Evolution
 - BOT 5185C Marine Botany
 - Advanced Marine Biology and lab
2. Supporting Courses in the Natural Sciences-minimum 32 credit hours
 - a. CHM 2045 General Chemistry I (3)
 - CHM 2045L General Chemistry I Laboratory (1)
 - CHM 2046 General Chemistry II (3)
 - CHM 2046L General Chemistry II Laboratory (1)
 - b. CHM 2210 Organic Chemistry I (3)
 - CHM 2210L Organic Chemistry I Laboratory (2)
 - CHM 2211 Organic Chemistry II (3)
 - CHM 2211L Organic Chemistry II Laboratory (2)
 - c. MAC 2241 Life Sciences Calculus I (4)
and
MAC 2242 Life Sciences Calculus II (4)
OR
MAC 2281 Engineering Calculus I (4)
and
MAC 2282 Engineering Calculus II (4)

OR		
MAC 2311	Calculus I	(4)
and		
MAC 2312	Calculus II	(4)
OR		
MAC 2241	Life Sciences Calculus I	(4)
and		
STA 2023	Introductory Statistics I	(4)
d. PHY 2048	General Physics I	(3)
PHY 2048L	General Physics I Laboratory	(1)
PHY 2049	General Physics II	(3)
PHY 2049L	General Physics II Laboratory	(1)
OR		
PHY 2053	General Physics	(3)
PHY 2053L	General Physics Laboratory	(1)
PHY 2054	General Physics	(3)
PHY 2054L	General Physics Laboratory	(1)

3. Liberal Arts Courses-minimum 45 credit hours
4. Free Elective Courses needed to complete 120 credit hours.
5. Student applies to Marine Biology Program after meeting all entrance requirements of BIO major. In addition, a student must have a major GPA of at least 3.0 at the time of application and maintain a major GPA of at least 3.0 throughout the Program

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

Prerequisites (State Mandated Common Prerequisites)

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

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

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.

Required Courses for the Microbiology Major

1. Department of Biology Courses-minimum 42 credit hours
 - a. BSC 2010 Biology I Cellular Processes (3)
BSC 2010L Biology I Cellular Processes Laboratory (1)
 - BSC 2011 Biology II Diversity (3)
 - BSC 2011L Biology II Diversity Laboratory (1)
 - b. PCB 3023 Cell Biology (3)
 - PCB 3023L Cell Biology Laboratory (1)
 - PCB 3043 Principles of Ecology (3)

- PCB 3063 General Genetics (3)
- c. MCB 3030 General Microbiology (4)
- MCB 4115 Determinative Bacteriology (5)
- MCB 4404 Microbial Physiology and Genetics (4)
- MCB 4404L Microbial Physiology and Genetics Laboratory (1)
- d. Ten (10) hours from the following list:
- BOT 4434C Mycology (3)
- MCB 4502 Virology (3)
- MCB 4910 Microbiology Undergraduate Research (1-4)
- MCB 4934 Seminar in Microbiology (1)
- MCB 5206 Public Health and Pathogenic Microbiology (3)
- MCB 5600 Applied and Environmental Biology (3)
- MCB 5815C Medical Mycology (3)
- PCB 5235 Principles of Immunology (3)
- ZOO 5235 Parasitology (3)
- BCH 3023L Basic Biochemistry Laboratory (2)
- e. A maximum of four (4) credit hours of Undergraduate Research (MCB 4910) or Biology Honors Thesis (BSC 4970) may be applied.
- f. A minimum of 20 hours of Biology courses must be taken in residency and be applicable to the major.
2. Supporting Courses in the Natural Sciences-minimum 35 credit hours
- a. CHM 2045 General Chemistry I (3)
- CHM 2045L General Chemistry I Laboratory (1)
- CHM 2046 General Chemistry II (3)
- CHM 2046L General Chemistry II Laboratory (1)
- b. CHM 2210 Organic Chemistry I (3)
- CHM 2210L Organic Chemistry I Laboratory (2)
- CHM 2211 Organic Chemistry II (3)
- CHM 2211L Organic Chemistry II Laboratory (2)
- c. MAC 2241 Life Sciences Calculus I (4)
- and
- MAC 2242 Life Sciences Calculus II (4)
- OR
- MAC 2281 Engineering Calculus I (4)
- and
- MAC 2282 Engineering Calculus II (4)
- OR
- MAC 2311 Calculus I (4)
- and
- MAC 2312 Calculus II (4)
- OR
- MAC 2241 Life Sciences Calculus I (4)
- and
- STA 2023 Introductory Statistics I (4)
- d. PHY 2048 General Physics I (3)
- PHY 2048L General Physics I Laboratory (1)
- PHY 2049 General Physics II (3)
- PHY 2049L General Physics II Laboratory (1)
- OR
- PHY 2053 General Physics (3)
- PHY 2053L General Physics Laboratory (1)
- PHY 2054 General Physics (3)
- PHY 2054L General Physics Laboratory (1)
- e. BCH 3023 Introductory Biochemistry (3)
3. Liberal Arts Courses-minimum 45 credit hours
4. Free Elective Courses needed to complete 120 credit hours.

MINIMUM GRADE FOR MAJORS

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

BIOLOGY HONORS PROGRAM

The Honors Program has been placed on inactive status. This program is to be reinstated at a later date.

CHEMISTRY (CHS/CHM)

The Department of Chemistry awards two degrees at the baccalaureate level, the Bachelor of Arts in Chemistry and the Bachelor of Science in Chemistry, and three degrees at the graduate level, a non-thesis Master of Arts, the Master of Science and the Doctor of Philosophy. Each of the graduate degrees offers specialization in the areas of analytical chemistry, biochemistry, inorganic chemistry, organic chemistry and physical chemistry. In addition, a Master of Arts degree is offered as part of a carefully integrated accelerated B.A.-M.A. program. The chemistry faculty is comprised of 24 full-time members all of whom hold the Ph.D. degree. The combination of a large and strong faculty with a wide variety of courses and electives provides students with programs of study which can be tailored to fit individual needs while maintaining a sound background in all general aspects of chemistry.

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

General Requirements for the Majors in Chemistry

The required sequence of Chemistry courses should be started immediately in the freshman year; the mathematics and physics requirements should be completed before the junior year as preparation for CHM 3400 Elementary Physical Chemistry I (B.A. degree) or CHM 4410 Physical Chemistry I (B.S. degree), courses which are to be taken in the third year. CHM 4410 is a prerequisite to other advanced courses required for the B.S. degree in chemistry. CHM 4060 "Use of Chemical Literature" also is a prerequisite to several B.S. degree courses.

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

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

Free Electives. Courses over and above the required courses should be taken to complete a 120-hour program. Recommended courses are listed in the degree requirements below. Additional courses in computer programming, economics, management, engineering, statistics, writing, and other applied disciplines are strongly recommended to strengthen the degree for subsequent professional employment.

Transfer Credit: It is strongly recommended that students transferring from community/junior colleges to the University of South Florida complete whole sequences of chemistry courses, such as general and organic chemistry, before the

transfer. Even though courses may carry the same common course number, topics may vary sufficiently from school to school to leave the transfer student ill-prepared to proceed within a sequence.

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Community College:

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

CHMX045/X045L	General Chemistry I (with lab) or CHM 1040&1041, or 1045C, or 1045E
CHM X046/X046L	General Chemistry II or CHM 1046C, or 1046E
MAC 2311	Calculus I or MAC 2281 Eng Calculus I
MAC 2312	Calculus II or MAC 2282 Eng Calculus II
CHM 2210/2210L	Organic Chem I & Lab or CHM 2210C
CHM 2211/2211L	Organic Chem II & Lab or CHM 2211C
OR	
PHY 2048/2048L	Gen Physics I & Lab or PHY 2048C, or PHY 2053C
PHY 2049/2049L	Gen Physics II & Lab or PHY 2049C, or PHY 2054C

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

BA in Chemistry (CHM)

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

Required Chemistry Courses (33 cr. hrs.)	
CHM 2045	General Chemistry I (3)
CHM 2045L	General Chemistry I Lab (1)
CHM 2046	General Chemistry II (3)
CHM 2046L	General Chemistry II Lab (1)
CHM 2210	Organic Chemistry I (3)
CHM 2210L	Organic Chemistry I Lab (2)
CHM 2211	Organic Chemistry II (3)
CHM 2211L	Organic Chemistry II Lab (2)
CHM 3120C	Elementary Analytical Chemistry I (4)
CHM 3400	Elementary Physical Chemistry I (3)
CHM 3401	Elementary Physical Chemistry II (3)
CHM 3402L	Elementary Physical Chemistry Lab (1)
CHM 3610	Intermediate Inorganic Chemistry I (3)
CHM 3610L	Intermediate Inorganic Chem. I Lab (1)

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

Suggested courses: BCH 3023, BCH 3023L, CHS 4300, CHM 4060, CHM 4070, CHM 4130, CHM 4611, CHM 4970, CHM 4932*.

*Content varies each semester.

Required Supporting Courses (14-16 cr. hrs.)

MAC 2311 (4)	) or (	MAC 2281 (3)
MAC 2312 (4)		MAC 2282 (3)
PHY 2053 (3)		PHY 2054 (3)
PHY 2053L (1)		PHY 2054L (1)

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

BA in Chemistry, emphasis in Biochemistry (CHM)

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

Required Chemistry Courses (30 cr. hrs.)	
CHM 2045	General Chemistry I (3)
CHM 2045L	General Chemistry I Lab (1)
CHM 2046	General Chemistry II (3)
CHM 2046L	General Chemistry II Lab (1)
CHM 2210	Organic Chemistry I (3)
CHM 2210L	Organic Chemistry I Lab (2)
CHM 2211	Organic Chemistry II (3)
CHM 2211L	Organic Chemistry II Lab (2)
CHM 3120C	Elementary Analytical Chemistry I (4)
BCH 3023	Introductory Biochemistry (3)
BCH 3023L	Basic Biochemistry Lab (2)
BCH 4034	Advanced Biochemistry (3)

Required Chemistry Electives (9 cr. hrs.)	
Minimum of 9 hrs. selected from the following:	
CHM 3400	Elementary Physical Chemistry I* (3)
CHM 3401	Elementary Physical Chemistry II* (3)
CHM 3610	Intermediate Inorganic Chemistry I* (3)
CHM 3610L	Intermediate Inorganic Chem. I Lab* (1)
CHM 4060	Use of the Chemical Literature (1)
CHM 4300	Biomolecules I (3)
CHM 4070	Historical Perspectives in Chemistry (3)
CHM 4932	Selected Topics in Chemistry (3)

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

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

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

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

*Content varies each semester.

BA in Chemistry, emphasis for Health Professions (CHM)

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

Required Chemistry Courses (30 cr. hrs.)

CHM 2045	General Chemistry I	(3)
CHM 2045L	General Chemistry I Lab	(1)
CHM 2046	General Chemistry II	(3)
CHM 2046L	General Chemistry II Lab	(1)
CHM 2210	Organic Chemistry I	(3)
CHM 2210L	Organic Chemistry I Lab	(2)
CHM 2211	Organic Chemistry II	(3)
CHM 2211L	Organic Chemistry II Lab	(2)
CHM 3120C	Elementary Analytical Chemistry I	(4)
BCH 3023	Introductory Biochemistry	(3)
CHS 4300	Fundamentals of Clinical Chem.	(3)
CHS 4301L	Fundamentals of Clinical Chem. Lab	(2)

Required Chemistry Electives (9 cr. hrs.)

Minimum of 9 hrs. selected from the following:

BCH 3023L	Basic Biochemistry Lab	(2)
BCH 4034	Advanced Biochemistry	(3)
CHM 3400	Elementary Physical Chemistry I*	(3)
CHM 3401	Elementary Physical Chemistry II*	(3)
CHM 3610	Intermediate Inorganic Chemistry*	(3)
CHM 3610L	Intermediate Inorganic Chem Lab*	(1)
CHM 4060	Use of the Chemical Literature	(1)
CHM 4070	Historical Perspectives in Chemistry	(3)

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

MAC 2311 (4)	) or (	MAC 2281 (3)
MAC 2312 (4)		MAC 2282 (3)
PHY 2053 (3)	) or (	PHY 2054 (3)
PHY 2053L (1)		PHY 2054L (1)
BSC 2010 (3)	) or (	BSC 2010L (1)
PCB 4723 (3)		PCB 3023 (3)
PCB 4723L (1)		PCB 3023L (1)

Other suggested electives important for advanced studies in health professional vocations: BSC 2011, PCB 3063, PCB 5235, PCB 5525, STA 2023, MCB 3030, PCB 4723, ZOO 4753, ZOO 3713, MCB 4502, CHM 4932*, PCB 4253, PCB 5845.

*Content varies each semester.

BS in Chemistry (CHS)

The Bachelor of Science in Chemistry is a rigorous program that supplies the foundation in chemistry required for both the student who begins a chemical vocation immediately upon graduation as well as the one who pursues advanced study in chemistry or related areas. In accord with this goal, the curriculum for the B.S. degree in Chemistry meets the requirements for degree certification by the American Chemical Society. Because of the strong base developed in this curriculum, the B.S. in Chemistry also provides entry into other chemistry-related advanced studies. Prerequisites are included in the list below.

Required Chemistry Courses (50 cr. hrs.)

CHM 2045	General Chemistry I	(3)
CHM 2045L	General Chemistry I Lab	(1)
CHM 2046	General Chemistry II	(3)
CHM 2046L	General Chemistry II Lab	(1)
CHM 2210	Organic Chemistry I	(3)
CHM 2210L	Organic Chemistry I Lab	(2)
CHM 2211	Organic Chemistry II	(3)
CHM 2211L	Organic Chemistry II Lab	(2)
BCH 3023	Introductory Biochemistry	(3)
CHM 3120C	Elementary Analytical Chemistry I	(4)
CHM 3610	Intermediate Inorganic Chemistry I	(3)
CHM 3610L	Intermediate Inorganic Chem. I Lab	(1)
CHM 4060	Use of the Chemical Literature	(1)
CHM 4130C	Methods of Instrumental Analysis	(4)
CHM 4131C	Methods of Chemical Investigation	(4)
CHM 4410	Physical Chemistry I	(3)
CHM 4411	Physical Chemistry II	(3)

CHM 4412	Physical Chemistry III	(3)
CHM 4611	Advanced Inorganic Chemistry	(3)

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

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

Required natural science or engin. elective (3-6 hrs.)

- 1 - 3000 level course (PHY 3101, MAP 4302 suggested) or
 - 2 - 2000 level courses (BSC 2010, BSC 2011, GLY 2010, GLY 2100, EVR 2001, CGS 2060, CGS 2100, EGN 2210)
- Other suggested chemistry electives: CHM 4970, BCH 3023L, CHM 4070, CHM 4932*.

*Content varies each semester.

MINOR IN CHEMISTRY

Minimum of 24 total hours. Students apply for a minor when submitting a graduation application (i.e., there is no need to "declare" a minor).

Required Chemistry Courses (14 cr. hrs.)

CHM 2045	General Chemistry I	(3)
CHM 2045L	General Chemistry I Lab	(1)
CHM 2046	General Chemistry II	(3)
CHM 2046L	General Chemistry II Lab	(1)
CHM 2210	Organic Chemistry I	(3)
CHM 2210L	Organic Chemistry I Lab	(2)
CHM 4060	Use of Chemical Lit.	(1)
OR		
CHM 4932	Selected Topics in Chemistry	(1)

Chemistry Electives (Minimum 10 hrs.)

Choose 10 hours of structured classes, applicable to the major.

NOTE: In all laboratory classes the lecture is PR/CR.

BCH 3023	Introductory Biochemistry	(3)
BCH 3023L	Basic Biochemistry Lab	(2)
CHM 2211	Organic Chemistry II	(3)
CHM 2211L	Organic Chemistry II Lab	(2)
CHM 3120C	Elementary Analytical Chemistry	(4)
CHM 3610	Intermediate Inorganic Chemistry	(3)
CHM 3610L	Intermediate Inorganic Chem. Lab	(1)
CHM 3400	Elementary Physical Chemistry	(3)
CHM 4300	Biomolecules	(3)
CHM 4932	Selected Topics in Chemistry*	(1-3)
CHS 4300	Fund. Clinical Chemistry	(3)

*Note: CHM 4932 content varies each semester. Recent topics include: Chemical Archaeology, Applied Spectroscopy, NMR, Toxic Substances, Antibiotics, Analytical Environmental Methods, Chemistry of Materials, Polymer Chemistry, Spectroscopy, & Computer in Chemistry.

ENVIRONMENTAL CONCENTRATION

Chemical science is a core component of environmental science both in the analysis of environmental conditions and in the solution of environmental problems. B.A. and B.S. chemistry majors wishing to concentrate on environmental concerns should complete the following required courses and seriously consider taking one or more of the suggested electives.

Required Supporting Courses

BSC 2010	Biology I - Cellular Processes
BSC 2011	Biology II - Diversity
GLY 2010	Dynamic Earth: Intro to Physical Geography
GLY 2010L	Dynamic Earth Laboratory
EVR 2001	Introduction to Environmental Science
EVR 2001L	Environmental Science Lab

Suggested Electives

EVR 2861	Introduction to Environmental Policy
EVR 4910	Environmental Science and Policy Project
GLY 2030	Environmental Geology
GLY 3038	Earth and Environmental Systems
GLY 3200	Mineralogy

Teacher Education Programs

For information concerning the degree programs for secondary school teachers, see College of Education section this Catalog and junior college teachers, see USF Graduate Catalog.

Combined BA-MA Program Admission

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

COURSE REQUIREMENTS

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

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

Graduate: Not less than 20 credit hours of formal, regularly scheduled chemistry graduate courses, including not less than two of the five core courses (BCH 5065, CHM 5225, CHM 5425, CHM 5621, CHM 6150). At least 10 of the credit hours must be at the 6000 level. The core course requirement may be waived in part or entirely by recommendation of the supervisory committee on the basis of past work, performance on a test, or substitution of more comprehensive and advanced courses.

RESEARCH AND THESIS

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

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

SUPERVISION AND PROMOTION

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

• COMMUNICATION (SPE)

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

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

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

Requirements for the Major in Communication

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

Prerequisites (State Mandated Common Prerequisites)

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

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

I. Prerequisites (3 hours)

This course is a prerequisite for declaring the communication major.

SPC 2600 Public Speaking (3)

In addition, admittance to the major is limited to those students who have completed at least 30 hours of college level work and have achieved an overall grade point average in all college courses of 2.5 or above.

II. Core Distribution Requirements (12 hours)

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

COM 2000 Introduction to Communication (3)

ORI 2000 Introduction to Communication as Performance (3)

SPC 3301 Interpersonal Communication (3)

SPC 2541 Persuasion (3)

III. Area of Concentration (9 hours)

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

Performance Communication

ORI 3950 ORI 4931 ORI 4120

ORI 4310 SPC 4201

Interpersonal and Organizational Communication

COM 3120 COM 3014 COM 4020

COM 4124 COM 4710 COM 4942

SPC 3212 SPC 3425 SPC 4305

SPC 4310 SPC 4431

Public and Cultural Communication

COM 4030 COM 4022 SPC 3230

SPC 3513 SPC 3631 SPC 3653

SPC 3680 SPC 3710 SPC 4683

SPC 4632 SPC 4680 SPC 4714

IV. Departmental Electives (12) hours

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

The following three classes count as electives outside the area of concentration for everyone (regardless of the concentration chosen):

COM 3122	Interview Communication
SPC 3601	Advanced Public Speaking
SPC 4930	Selected Topics Course (titles and topics vary each semester)

Communication Honors Program

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

Requirements for the Minor in Communication

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

- SPC 2600 Public Speaking (3)
- COM 2000 Introduction to Communication (3)

The other 12 hours may be selected from among departmental offerings and must include a minimum of 6 hours at the 3000-level or higher. A grade of "D" will not be counted toward a Communication minor. Courses may not be taken S/U where a grade option exists.

• COMMUNICATION SCIENCES AND DISORDERS (LSH, ITT, DST)

The undergraduate program in Communication Sciences and Disorders (CSD) offers three curriculum concentrations that lead to the B.A. degree. 1) The undergraduate concentration in Speech-Language-Hearing Science (LSH) provides pre-professional study that prepares the student for Master's level preparation in Speech-Language Pathology, or Deaf Education, or for entry into the clinical Doctor of Audiology degree (AuD). 2) The undergraduate curriculum in the Deaf Studies (DST) concentration focuses on the study of deaf culture through the development of communicative proficiency in ASL and prepares the individual to work with the deaf in a variety of social service settings. 3) The Interpreter Training (ITT) undergraduate curriculum prepares individuals to work in educational setting with students who require assistance with educational skills due to their hearing impairment or deafness. Students interested in these concentrations should contact the Department of Communications Sciences and Disorders regarding academic advising. The Department also offers the Master's of Science degree in Speech-Language Pathology and Deaf Education. A doctor of Audiology Degree is awarded. The department offers a 5-year M.S. course of study combining undergraduate with graduate courses; however, enrollment into this program is currently not available.

Concentrations in Communication Sciences and Disorders (CSD)

Recommended Prerequisites (State Mandated Common Prerequisites)

Students are encouraged to complete the A.A. degree at the community college. Some courses required for the Speech-Language-Hearing (LSH) or Deaf Studies (DST) major may also meet General Education Requirements thereby transferring maximum hours to the university.

Students entering the university with fewer than 60 semester hours of acceptable credit, must meet the university's entering freshman requirements including ACT and SAT test scores, GPA, and course requirements.

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

- I. ANT 2000 Introduction to Anthropology 3
or
PSY 2012 Psychological Science I 3
or
SYG 2000 Introduction to Sociology 3
- II. And each of the following:

BSC 1085	Human Anatomy & Physiology I	3
BSC 1085L	Human Anatomy & Physiology I Lab	1
BSC 1086	Human Anatomy & Physiology II	3
BSC 1086L	Human Anatomy & Physiology II Lab	1

 or equivalent work such as:

BSC 2093	Human Anatomy & Physiology I	5
BSC 2094	Human Anatomy & Physiology II	5
STA 2122	Social Science Statistics	3

 (or equivalent)

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

IV. Admission to the program of study for Interpreters Training (ITT) requirement: ability to use ASL at the intermediate level of a standardized ASL competency test such as the Sign Communication Proficiency Index (SCPI) or other equivalent evaluation. Completing a community college interpreter training program curriculum is highly recommended.

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

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

Students are encouraged to join the USF chapter of the National Student Speech-Language-Hearing Association. This group is affiliated with the American Speech-Language - Hearing Association (ASHA) and has many membership benefits.

A. General Information and Upper-level Requirements for the Degree

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

B. Prerequisites for Admission

1. Required Courses

- | | | |
|----|-----------|-------------------------------------|
| { | BSC 1085 | Human Anatomy and Physiology I |
| | BSC 1085L | Human Anatomy and Physiology I Lab |
| | BSC 1086 | Human Anatomy and Physiology II |
| | BSC 1086L | Human Anatomy and Physiology II Lab |
| or | | |
| { | BSC 2093 | Human Anatomy & Physiology I |
| | BSC 2094 | Human Anatomy & Physiology II |

2. Recommended Courses

LIN 3010 or LIN 3801 or CGS 2060

Courses in this category must be completed with a minimum grade of "C."

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

1. Required Courses (3 cr. hrs.) - see major advisor
2. STA 2122 (3) or equivalent
3. Additional Courses (3 cr. hrs.)
SYG 2000 or ANT 2000 or PSY 2012 or equivalent

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

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

The course of study includes:

- | | | |
|---------------|---------------|--------------|
| SPA 3002 (3) | SPA 3110 (3) | SPA 4222 (3) |
| SPA 3004 (3) | SPA 3112 (3) | SPA 4555 (3) |
| SPA 3011 (3) | SPA 4050 (3) | SPA 4632 (3) |
| SPA 3030 (3) | SPA 4201 (3) | |
| SPA 3101 (3) | SPA 4210 (3) | |
| SPA 3612C (4) | (Recommended) | |

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

E. Deaf Studies Concentration (DST) (min. 30 cr. hrs.)

New students are not being admitted to the DST Major for the 2002/2003 year while the curriculum is being restructured.

The DST concentration seeks to educate students to communicate with the deaf and to apply this knowledge in work settings where knowledge of the deaf culture is essential for the provision of social services. This DST concentration is not intended to prepare interpreters for the deaf although exceptionally proficient students may qualify as interpreters. This concentration also does not qualify students for admission into the M.S. programs in Speech-Language Pathology or Deaf Education, nor the Doctor of Audiology Program. Those students choosing to become teachers of the deaf must pursue the LSH concentration in Speech-Language-Hearing Science and obtain the M.S. degree in Aural Rehabilitation/Deaf Education.

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

- | | | |
|----------------------|--------------|--------------|
| SPA 3002 (3) | SPA 3310 (3) | SPA 4614 (4) |
| SPA 3004 (3) | SPA 3612 (4) | SPA 4617 (3) |
| SPA 3030 (3) | SPA 4613 (4) | SPA 4632 (3) |
| Other electives (6). | | |

F. Interpreter Training Concentration (ITT)

The ITT concentration seeks to educate students to become interpreters for deaf individuals. A program of 56-59 credit hours is planned for the student majoring in the Interpreter Training concentration. Course content is distributed

across five categories of information and skills necessary for a career in Interpreting:

1. Role of the Interpreter in various settings
2. Cognitive, Psychosocial, and Language Development of Hearing and Deaf Children in Public Schools
3. Techniques and Applications of Interpreting
4. Professional Practices of the Interpreter
5. Internship

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

The following courses are included in the major:

- | | | |
|--------------------------|----------------|---------------|
| EDF 3214 or DEP 3103 (3) | | |
| EDF 3604 (3) | EEX 4070 (2-3) | ISS 3010 (3) |
| SPA 3004 (3) | SPA 3673 (3) | SPA 4662L (1) |
| SPA 3660 (3) | SPA 4617 (3) | SPA 4663 (3) |
| SPA 3660L (1) | SPA 4615L (1) | SPA 4663L (1) |
| SPA 3653 (3) | SPA 4652 (3) | SPA 4685 (4) |
| SPA 3653L (1) | SPA 4662 (3) | |

Graduation within the ITT major also requires successful completion of either the Educational Interpreter Evaluation (EIE) or the Quality Assurance (QA) screening.

Minimum Grade for Majors

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

Honors Program

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

Requirements for the Minor in American Sign Language

Students seeking a minor in American Sign Language (DST) must complete a minimum of 17-18 credits:

1. A minor must include these four courses:
 - SPA 3612C - Basic ASL
 - SPA 4613C - Intermediate ASL
 - SPA 4614C - Advanced ASL
 - SPA 4632 - Nature and Needs of the Deaf and Hard of Hearing

- In addition, a minor must include one of the following:
SPA 4331 - Fundamentals of Finger Spelling
SPA 4617 - Structure of Sign Language
- Students transferring credit hours toward a minor in DST must complete 12 credit hours within the Department of Communication Sciences and Disorders regardless of the number of credit hours transferred.
- A GPA of 2.0 or better must be achieved in minor course work in order for a student to be certified for graduation with a minor in American Sign Language.

• CRIMINOLOGY (CCJ)

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

The objective of the undergraduate program in Criminology is to develop a sound educational basis either for graduate work or for professional training in one or more of the specialized areas comprising the modern urban criminal justice system.

Recommended 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. If students transfer with 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.

Transfer students should be aware that by university regulation they are obligated to establish academic residency by completing the equivalent of one academic year (30 semester hours) in "on-campus" courses. All undergraduate transfer students electing Criminology as their major will be required, moreover, to take a minimum of 30 credit hours in major coursework at the University of South Florida. The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Requirements for the Major in Criminology

A minimum of 36 semester hours is required of all undergraduate majors in Criminology including:

- Each of the following core courses:
CCJ 3024 (3)* CCJ 3610 (3)*
CCJ 3701 (3)** CCJ 4934 (3)
- At least two of the following substantive courses:
CCJ 3204 (3) CJE 4114(3)
CJL 4410 (3) CCJ 4306 (3)
CJE 4010 (3)
- 18 semester hours of electives within the major.

* These are gateway courses and are required for all other coursework in the major or minor; therefore, they need to be taken first.

**Students who plan to continue on to graduate school must also take CCJ 4700 as one of their electives within the major.

NOTE: No more than six (6) hours of CCJ 4900, CCJ 4910 or any combination of the two will be accepted toward the minimum number of hours in the major.

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

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

Requirements for the Minor in Criminology

The Department of Criminology offers a minor in Criminology. The minor consists of:

- Two required courses:
CCJ 3024 (3) CCJ 3610 (3)
- The selection of four of the following 3 hour courses for a total of 18 semester hours:
CCJ 3204 CCJ 3621
CJE 4114 CJL 4410
CCJ 4306 CJE 4010

Students must receive approval from the Department prior to starting their minor work. A minimum of 9 semester hours must be completed at USF. Students minoring in Criminology are subject to the Department's "2 D" Rule.

• ECONOMICS (ECO)

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

Requirements for the Major in Economics

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Community College:

The State of Florida has identified common course prerequisites for the major in Economics. These courses must be completed with a minimum grade of "C" before the degree is granted. If the courses are not transferred in, they may be taken at USF.
ECO X013 Economic Principles: Macroeconomics
and
ECO X023 Economic Principles: Microeconomics
or ECO XXXX and ECO XXXX

Coursework in the Economics Major:

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

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

ECO 3100, Managerial Economics, may be substituted for ECO 3101. Students may not take both ECO 3100 and ECO 3101 for credit.

Either ECO 1000 (if taken before both ECO 2013 and ECO 2023) or QMB 2100 (if taken as a prerequisite to QMB 3200) may be substituted for a maximum of 3 hours of upper level elective credit.

Students must obtain a grade of "C" or higher in ECO 3101 or ECO 3100 in order to enroll in any course for which ECO 3101 or ECO 3100 is a prerequisite. At least 9 of the 18 hours of upper level economics electives must be in courses for which either ECO 3101, ECO 3100 or ECO 3203 is a prerequisite.

No more than 3 hours credit can be applied toward a major from ECO 4905 and/or ECO 4914.

At least 12 hours must be taken in residence at USF.

Economics majors working at the regional campuses may not be able to fulfill all economics course requirements at those campuses.

Requirements for the Minor in Economics

All students, regardless of college, can earn a minor in Economics by satisfactorily completing 18 hours in Economics including:

ECO 2013 Economic Principles: Macroeconomics (3)

ECO 2023 Economic Principles: Microeconomics (3)

Economics electives numbered 3000 or higher (12)

ECO 1000, if taken before both ECO 2013 and ECO 2023, may be substituted for 3 hours of upper level electives. Before being recognized as a minor in economics a student must obtain program approval by the Economics Department Undergraduate Advisor. A grade point average of 2.0 or higher must be achieved in the minor course work at USF and in all minor courses completed at any institution. 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 4505 Economics of Crime. Additional courses of interest are ECO 4504 Public Finance, ECP 3530 Economics of Health, ECP 3302 Environmental Economics, ECP 3203 Labor Economics, and ECP 3201 Economics of Women and Work.

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

Five-year Bachelor/Master Degree Program

This program allows superior students with strong analytical skills and the ability to handle a fast paced, challenging program the opportunity to complete both the Bachelor and Master degrees in economics in five years.

The program requires the students to take two graduate level courses required for the MA degree during the last year in the Bachelor program. These 6 hours are counted as general electives (not major electives) in the undergraduate program and are also used to satisfy the requirements for the MA in economics. In addition to the 120-hour Bachelor's program, five-year students take 24 hours at the graduate level.

To be eligible for the program, a student must have completed at least 6 hours of 3000 level or above economics courses at USF (not including statistics), have an overall grade point average of 3.0 or above, and have a minimum of 3.25 cumulative grade point average in all economics courses (including statistics).

To apply for admission, send a letter to the Graduate Program Director in the Department of Economics stating your qualifications and desire to enter the program. To plan your

program, or for additional information, see the Undergraduate Advisor in Economics.

• ENGLISH (ENG)

Requirements for the Major in English

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

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

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

ENC 1101 Composition I

ENC 1102 Composition II

or

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

Suggested electives:

AMH 2010 American History I 3

AMH 2020 American History II 3

EUH 2021 Medieval History I 3

EUH 2022 Medieval History II 3

Upper-level coursework in the English Major:

The program in English provides three areas of specialization (divided into three degree-options below):

English and American literature - The primary mission of the literature option is to provide a solid foundation in the study of British and American literature. The program also offers courses in other world literatures in translation, cultural studies, feminist and ethnic studies, and both traditional and more recent critical approaches.

Creative writing - The creative writing option includes training in writing fiction and poetry and study of English and American literature.

Professional and technical writing - The professional and technical writing option combines the study of English and American literature with an introduction to writing found in the professional workplace.

The English Education major is described under the section for the College of Education. Major requirements for English majors are listed below. A grade of "D" will not be counted toward fulfilling the major requirements. Grades of "D" or "F" in English courses will, however, be used in calculating the major GPA unless the course is retaken under the grade forgiveness policy. Students may not use more than one Directed Study toward meeting the major requirements. Transfer students must earn at least 15 hours in the major at USF. A 2.5 GPA in the major is required for graduation.

OPTION I: ENGLISH AND AMERICAN LITERATURE

Twelve courses (36 hours) as follows:

1. Two of the following:

AML 3031 American Literature to 1860

AML 3032 American Literature 1860-1912

AML 3051 American Literature 1912-1945

2. Four of the following:
- ENL 3015 British Literature to 1616
 - ENL 3230 British Literature 1616-1780
 - ENL 3251 British Literature 1780-1900
 - ENL 3273 British Literature 1900-1945
 - ENL 3331 Early Shakespeare or
 - ENL 3332 Late Shakespeare
3. Five of the following, at least two of which must be from Group A:
- Group A*
- AML 4111 19th Century American Novel
 - AML 4121 20th Century American Novel
 - ENL 4122 British Novel through Hardy
 - ENL 4132 British Novel: Conrad to the present
 - ENL 4311 Chaucer
 - ENL 4338 Advanced Studies in Shakespeare
 - ENL 4341 Milton
 - LIT 3101 Literature of the Western World Through the Renaissance
 - LIT 3102 Literature of the Western World Since the Renaissance
- Group B*
- AML 3031 American Literature to 1860
 - AML 3032 American Literature 1860-1912
 - AML 3051 American Literature 1912-1945
 - AML 3604 African-American Literature
 - AML 4261 Literature of the South
 - AML 4330 Selected American Authors
 - ENG 4060 History of the English Language
 - ENL 3015 British Literature to 1616
 - ENL 3230 British Literature 1616-1780
 - ENL 3251 British Literature 1780-1900
 - ENL 3273 British Literature 1900-1945
 - ENL 3331 Early Shakespeare
 - ENL 3332 Late Shakespeare
 - ENL 4303 Selected British Authors
 - LIN 4671 Traditional English Grammar
 - LIN 4680 Structure of American English
 - LIT 3022 Modern Short Novel
 - LIT 3043 Modern Drama
 - LIT 3073 Contemporary Literature
 - LIT 3144 Modern European Novel
 - LIT 3374 Bible as Literature
 - LIT 3410 Religious and Existential Themes
 - LIT 3700 Survey of Poetry
 - LIT 4930 Selected Topics in English Studies
4. ENG 4013 Literary Criticism (Required for Literature majors)

OPTION II: CREATIVE WRITING

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

1. Writing Requirements

CRW 3111 Form & Technique of Fiction

or

CRW 2100 Narration & Description

CRW 3311 Form & Technique of Poetry

Any three of the following:

CRW 3112 Fiction I

CRW 3121 Fiction II

CRW 3312 Poetry I

CRW 3321 Poetry II

CRW 4120 Fiction III

CRW 4320 Poetry III

CRW 4930 Selected Topics in Creative Writing

Note: CRW 2100 or CRW 3111 must be taken before any other courses in the Fiction series, and CRW 3311 must be taken before any other courses in the Poetry series.

2. Literature Requirements

The student must select seven literature courses from those listed in OPTION I. Two courses must be from Group 1,

two courses from Group 2, and three courses from Group 3 and/or Group 4.

OPTION III: PROFESSIONAL AND TECHNICAL WRITING

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

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

1. Composition requirements:

Five of the following:

CRW 2100 Narration and Description

ENC 2210 Technical Writing

ENC 3213 Professional Writing

ENC 3310 Expository Writing

ENC 4260 Advanced Technical Writing

ENC 4311 Advanced Composition

ENC 4931 Selected Topics in Professional and Technical Writing

2. Literature requirements:

The student must select seven literature courses from those listed in OPTION I. Two courses must be from Group 1, four courses from Group 2, and one course from Group 3 and/or Group 4.

Requirements for the Minor in English ENGLISH AND AMERICAN LITERATURE MINOR (15 HOURS)

1. One of the following:

AML 3031 American Literature to 1860

AML 3032 American Literature 1860-1912

AML 3051 American Literature 1912-1945

2. Two of the following:

ENL 3015 British Literature to 1616

ENL 3230 British Literature 1616-1780

ENL 3251 British Literature 1780-1900

ENL 3273 British Literature 1900-1945

ENL 3331 Early Shakespeare

ENL 3332 Late Shakespeare

3. One course at the 4000 level listed in major OPTION I

4. One additional 3000- or 4000-level course with AML, CRW, ENC, ENG, ENL, LIN, or LIT prefix.

CREATIVE WRITING MINOR (15 HOURS)

1. CRW 3111 Form & Technique of Fiction

or

CRW 2100 Narration & Description

CRW 3311 Form & Technique of Poetry

Any two of the following:

CRW 3112 Fiction I

CRW 3121 Fiction II

CRW 3312 Poetry I

CRW 3321 Poetry II

CRW 4120 Fiction III

CRW 4320 Poetry III

CRW 4930 Selected Topics in Creative Writing

2. One AML or ENL course listed in OPTION I.

PROFESSIONAL AND TECHNICAL WRITING

MINOR (15 HOURS)

1. ENC 2210 Technical Writing

ENC 4260 Advanced Technical Writing

Any two of the following courses:

CRW 2100 Narration & Description

ENC 3213 Professional Writing

ENC 3310 Expository Writing

- ENC 4311 Advanced Composition
- ENC 4931 Selected Topics in Professional and Technical Writing

2. One AML or ENL course listed in OPTION I

ENGLISH HONORS PROGRAM

The Department of English Honors Program will provide a carefully selected group of seniors with opportunities for advanced scholarship:

- A. Closer contact with faculty tutors than students in the regular major program;
- B. An opportunity to work and exchange ideas in the stimulating environment of a small group of fellow students with similar aims and abilities;
- C. An opportunity to develop individual initiative and sophisticated critical skills.

The English Honors Program will benefit those interested in graduate work, advanced professional study, or greater intellectual challenges.

Admissions Criteria

Students may apply for the program after completing 80 hours of course work (90 before actual admission). Applicants should have a GPA of 3.3 in the major and an overall GPA of 3.0 and should submit signatures of recommendation from two English faculty supporting their applications.

After screening all applications, the department's Honors Committee will interview all eligible applicants before selecting participants in each year's program.

Requirements for Completion of Departmental Honors

1. The Honors student will complete the requirements of his/her chosen English major as described in the current catalog.
2. In addition to the requirements of the major, the student will take two (three-hour) Honors seminars during the first semester of his/her senior year. Both courses should help the student in selecting a topic for his/her Honors thesis.
3. During the second semester of the senior year, the Honors student will enroll for three thesis hours. The instructors of the first semester's seminars will serve as instructors of record for the thesis hours and as readers of all Honors theses. The student will choose a member of the faculty to serve as the third reader of his/her thesis. The student must satisfy the following requirements:
 - a. Complete both Honors seminars with a 3.3 GPA;
 - b. Complete all remaining major requirements with a 3.3 GPA and remaining academic course work with an overall GPA of 3.0 in both areas;
 - c. Submit an acceptable thesis to the Departmental Honors committee.
4. The student who completes all requirements above will graduate with Honors in English. The credit hours completed within the program by the student who does not complete all Honors requirements will, of course, count toward the baccalaureate degree.

The Honors Committee will disqualify any student from the program who does not complete the Honors seminars with at least a 3.3 GPA.

Honors students failing to complete a thesis within two years after acceptance into the program will be notified by the Honors Committee of their dismissal from the program.

• ENVIRONMENTAL SCIENCE AND POLICY (EVR)

The status of the earth's environment has been a major concern since the 1960s. As we enter the 21st century, it represents one of the most critical issues facing nearly all nations individually as well as the earth community as a whole. Increased population, technology, globalization and diminishing natural resources all play an important role in the changing

environment. As a consequence, governments at all levels are devoting resources to help understand the problems that we are facing and to aid in their mitigation. This includes everything from public education to cleaning up toxic waste sites. The environmental industry is a growing arena for employment for degree holders at all levels.

The Bachelor of Science (B.S.) in Environmental Science and Policy was approved in 1995. This interdisciplinary program spans multiple colleges within the university but is housed in the College of Arts and Sciences. All students must complete the University's General Education Requirements. All majors in the program must complete the required courses including two introductory courses in environmental science and policy, 2 semesters each of general biology and general chemistry, environmental ethics, environmental policy, statistics and physical science (either geology or physics). In addition, majors take six courses that allow them to sub-specialize in science or in policy. Students choosing to sub-specialize in science take 2 semesters of calculus, 1 semester of organic chemistry and lab, and 4 electives within designated tracks. Students choosing to sub-specialize in policy take environmental law and environmental economics and 4 electives within designated categories. Finally, all majors must complete an upper division seminar and an internship or project. The Program Advisor advises ESP majors.

Requirements for the Major in Environmental Science and Policy

Recommended 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. If students transfer with 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 required supporting major courses prior to entering the university. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

BSC 2010, 2010L & BSC 2011, 2011L	
Biology I and II with Lab	8
and	
CHM 2045 & CHM 2045L General Chemistry & Lab	4
CHM 2046 & CHM 2046L General Chemistry II & Lab	4
plus	
STA 2023 Statistics	3
One approved Geology or Physics Course with Lab	4

The calculus sequence is only required for students pursuing the ESP-Science concentration.

MAC 2241 & MAC 2242 Life Sciences Calculus	4
or	
MAC 2281 & MAC 2282 Engineering Calculus	4
or	
MAC 2311 & MAC 2312 Calculus	3

All students majoring in Environmental Science and Policy are required to see the advisor each semester prior to registration for the following term. Students who are eligible for an internship must see the internship coordinator four weeks prior to the beginning of the semester in which they will complete the internship.

REQUIREMENTS FOR ALL ENVIRONMENTAL SCIENCE MAJORS

EVR 2001 Intro to Environmental Science
 EVR 2001L Intro to Environmental Science Lab
 EVR 2861 Intro to Environmental Policy
 EVR 4921 ESP Seminar
 EVR 4910 ESP Project

or

EVR 4940 ESP Internship
 BSC 2010 Biology I
 BSC 2010L Biology Lab I
 BSC 2011 Biology II
 BSC 2011L Biology Lab II
 CHM 2045 General Chemistry I
 CHM 2045L Chemistry Lab I
 CHM 2046 General Chemistry II
 CHM 2046L Chemistry Lab II
 PUP 4203 Environmental Politics and Policy
 PHI 3640 Environmental Ethics

Statistics

STA 2023 Introductory Statistics

or

QMB 2100 Business and Economic Statistics

or

EGN 3443 Engineering Statistics

Geology or Physics

GLY 2010 Dynamic Earth
 GLY 2015L Essentials of Geology Lab

or

GLY 2100 Historical Geology
 GLY 2015L Essentials of Geology Lab

or

PHY 2048 General Physics
 PHY 2048L General Physics Lab

or

PHY 2053 General Physics
 PHY 2053L General Physics Lab

Science Track

MAC 2241 Life Sciences Calculus I
 MAC 2242 Life Sciences Calculus II

or

MAC 2281 Engineering Calculus I
 MAC 2282 Engineering Calculus II

or

MAC 2311 Calculus I
 MAC 2312 Calculus II

and

CHM 2210 Organic Chemistry
 CHM 2210L Organic Chemistry Lab

Policy Track

ECP 3302 Environmental Economics
 POS 3697 Environmental Law

Science Track

MAC 2241 and MAC 2242 **OR** MAC 2281 and MAC 2282 **OR** MAC 2311 and MAC 2312 and CHM 2210 and CHM 2210L plus 4 electives from one of the following tracks: Restoration, Water Quality, Environmental Monitoring or Marine Resources. Please contact the Program office for a current list of electives under these categories.

Policy Track

ECP 3302 and POS 3697 plus four approved policy-related electives. Please contact the Department office for a current list of electives under this category. The Department is located in SCA 238 or you may call (813) 974-2739.

Requirements for the Minor in Environmental Science and Policy

A total of 19-20 credits are required for the minor in Environmental Science and Policy, 12 of which must be completed at USF. The Minor in Environmental Policy consists of the following program outline:

Required core courses:

EVR 2001 Introduction to Environmental Science
 EVR 2001L Introduction to Environmental Science Lab
 EVR 2861 Introduction to Environmental Policy

Three of the following four courses:

PUP 4203 Environmental Politics and Policy
 PHI 3640 Environmental Ethics
 ECO 3302 Environmental Economics
 (prerequisite: ECO 2023 Microeconomics)
 POS 3697 Environmental Law

And one 3-4 credit course from the following list, with prior approval from an ESP advisor:

BSC 4057 Environmental Issues
 CGN 4933 Policy Issues in Environmental Engineering
 SPC 4930 Communication and the Natural Environment
 GEO 4340 Natural Hazards
 HIS 4936 Seminar in Environmental History
 POS 5086 Global Environmental Governance
 WST 3225 Women, Environment and Gender
 ANT 4199 Environmental Archaeology
 EVR 4930 Selected Topics in Environmental Policy

- GEOGRAPHY (GPY)**

The degree program in Geography consists of 10 courses (41 hours total), 5 of which are core courses required of all majors. Further, students choose either the Urban or Environmental track for their remaining courses. Both tracks offer an applied and techniques orientation for the students, which is stressed through coursework, advising, and through the core course structure for the major. The Environmental track focuses on major environmental systems including the hydrosphere, atmosphere, pedosphere, and biosphere. Particular emphasis is placed on the human modification of the natural environment and the global interconnections of the major earth systems. The Urban track focuses on the social and spatial effects of the growth of cities, including issues such as the historical evolution of urban form and function, land-use changes and conflicts, economic restructuring, the growth and decline of inner-cities, and urban racial and ethnic relations.

Requirements for the Major in Geography**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. 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.

Upper-level Course Requirements

A major in Geography consists of 11 courses as follows:

Required core courses (6 courses + lab):

GEO 3013	Intro to Physical Geography	(3)
GEO 3013L	Intro to Physical Geography Lab	(1)
GEO 3402	Human Geography	(4)
GEO 3180	Digital Thematic Mapping	(4)
GEO 3164C	Quantitative Methods	(4)
GEO 4933	Geography Colloquium	(1)
GEA XXXX	One course with GEA prefix	(4)

Supporting Courses (5 courses):

Majors will select among courses in the Urban and Environmental tracks for their additional coursework. They must take an additional 5 courses, 2 of which *may* be outside of their track. If more than 1 course is taken outside of the track, 1 of them *must* be a techniques (elective) course. The following list designates supporting courses by track (or elective technique).

Urban Track Courses:

GEO 3602	Urban Geography	(4)
GEO 4502	Economic Geography	(4)
GEO 4604	Advanced Urban Geography	(4)
GEO 4700	Transportation Geography	(4)
GEO 4470	Political Geography	(4)
URP 4052	Urban and Regional Planning	(4)
GEO 4421	Cultural Geography	(4)
GEO 4340	Natural Hazards	(4)

Environmental Track Courses:

GEO 4201C	Advanced Physical Geography	(4)
GEO 4210	Process Geomorphology	(4)
GEO 4280C	Hydrology	(4)
GEO 4340	Natural Hazards	(4)
GEO 4372	Global Conservation	(4)
MET 4002	Climatology	(4)
MET 4010C	Meteorology	(4)
GEO 4300	Biogeography	(4)
MET 4532C	Tropical Meteorology	(4)

Techniques Courses (electives):

GEO 4114C	Geographic Techniques and Methodology	(4)
GEO 4131C	Remote Sensing of the Environment	(4)
GEO 4151C	Geographic Information Systems (GIS)	(4)

Courses Excluded as Electives for the major:

GEO 1930	Geography of Current Events	(4)
GEO 2371	Earth System Science	(3)

Only 4 combined hours of the following courses may be applied toward the degree:

GEO 4900	Directed Reading	(1-4)
GEO 4910	Individual Research	(1-4)

Requirements for the Minor in Geography

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

GEO 3013 (3) GEO 3013L (1) GEO 3402 (4)
One GEA elective (4) and one upper level GEO, MET or URP elective (3000-5000 level) (4).

• GEOLOGY (GLY)

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

The Bachelor of Science degree program provides the student with a hands-on foundation in the fundamentals of the geosciences. The Bachelor of Arts program is designed primarily for the liberal arts student who has an interest in the subject but who is not preparing for a career in the field, or for the pre-professional school student. A student who elects the B.A. program and decides to pursue the geology profession or attend graduate school will need at least physics and field geology in his/her program.

The graduate program in geology allows the student to pursue advanced studies in nearly all areas of geology. As a result of faculty interests and geographic location, several geologic subdisciplines are emphasized, including applied geophysics, coastal geology, geomorphology, geochemistry, hydrogeology, paleontology, and petrology.

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. 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 (or their equivalents) 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 1045C or CHM 1045E	
CHM 1046/1046L	General Chemistry II (with lab)
or CHM 1046C or CHM 1046E	
GLY 2010C	Introduction to Physical Geology
MAC 2311	Calculus I
PHY 2048C	General Physics and Laboratory I
or PHY 2048/2048L or PHY 2053C	
PHY 2049C	General Physics and Laboratory II
or PHY 2049/2049L or PHY 2054C	

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

Requirements for the Major in Geology (BA)

- Geology courses (38 hours):
 - Introductory Sequence* (4 hours):
 - One course chosen from GLY 2010, GLY 2030, GLY 2038, GLY 2040, and OCE 2001 (3)
 - GLY 2015L (1)

*Transfer students who have taken GLY 2010C and GLY 2100C or the equivalent will be deemed to have met the introductory sequence requirements. However, ALL students are strongly encouraged to take GLY 2015L, as this course will greatly facilitate success in the upper-level offerings.
 - Junior-level sequence (28 hours):
 - GLY 3311C The Solid Earth: Petrology and Geochemistry (4)
 - GLY 3420C The Solid Earth: Plate Tectonics and Earth Structure (4)
 - GLY 3552C Sedimentary Record 1: Sedimentary Processes and Petrology (4)
 - GLY 3720C Fluid Earth 1: Basic Principles (4)
 - GLY 4104C Sedimentary Record 3: Paleontology and Earth Evolution (4)
 - GLY 4554C Sedimentary Record 2: The Earth's Surface (4)
 - GLY 4822C Fluid Earth 2: Hydrogeology (4)
 - Senior-Level Sequence (12 hours):
 - GLY 4145 Computational Geology (3)
 - GLY 4921 Geocommunications (3)
- Supporting Courses for the B.A. Degree (24 hours):
 - CHM 2045, 2045L, CHM 2046, 2046L
 - MAC 2241, 2242 or MAC 2311, 2312 or MAC 2281, 2282

Two courses in biology or physics with labs selected from the following: BSC 2010 and 2010L, BSC 2011 and 2011L, PHY 2053 and 2053L, PHY 2054 and 2054L, PHY 2048 and 2048L, PHY 2049 and 2049L

Requirements for the Major in Geology (BS)

1. Geology courses (44 hours):
 - a. Introductory Sequence* (4 hours):
 1. One course chosen from GLY 2010, GLY 2030, GLY 2038, GLY 2040, and OCE 2001 (3)
 2. GLY 2015L (1)

*Transfer students who have taken GLY 2010C and GLY 2100C or the equivalent will be deemed to have met the introductory sequence requirements. However, ALL students are strongly encouraged to take GLY 2015L, as this course will greatly facilitate success in the upper-level offerings.
 - b. Junior-level sequence (28 hours):
 - GLY 3311C The Solid Earth: Petrology and Geochemistry (4)
 - GLY 3420C The Solid Earth: Plate Tectonics and Earth Structure (4)
 - GLY 3552C Sedimentary Record 1: Sedimentary Processes and Petrology (4)
 - GLY 3720C Fluid Earth 1: Basic Principles (4)
 - GLY 4104C Sedimentary Record 3: Paleontology and Earth Evolution (4)
 - GLY 4554C Sedimentary Record 2: The Earth's Surface (4)
 - GLY 4822C Fluid Earth 2: Hydrogeology (4)
 - c. Senior-Level Sequence (12 hours):
 - GLY 4145 Computational Geology (3)
 - GLY 4921 Geocommunications (3)

and either:

 - GLY 494XL Practical and Applied Geology (6)

Must take at least one each of computational, field, and laboratory experience
- or,
- A Geologic Field Course and/or Summer Research Experience, as defined and approved by the Department Undergraduate Committee. Non-traditional research experiences (i.e., NSF-supported Research Experiences for Undergraduates summer programs) are acceptable provided the student concurrently registers for six hours of Geologic Field Studies (GLY 4780) to meet credit hour requirements, and their research supervisor provides the Undergraduate committee with an assessment of student activities during the program.
2. Supporting Courses for the BS Degree (28 hours):
 - MAC 2281, MAC 2282 (recommended) or MAC 2311, MAC 2312
 - BSC 2010, 2010L
 - CHM 2045, 2045L, CHM 2046, 2046L
 - PHY 2048, 2048L, PHY 2049, 2049L (recommended) or PHY 2053, 2053L, 2054, 2054L

Liberal Arts Requirements

All students are required to complete the University's Liberal Arts Requirements.

Free Electives (19-25 hours)

The student will choose, in consultation with his/her geology advisor, 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.

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

Geology Honors Program

The purpose of the Honors Program is to provide a select group of undergraduate geology majors an opportunity to

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

Requirements for the Minor in Geology

16 credit hours are required, which must include the completion of the introductory sequence courses (4 hours) and any three of the Junior-level sequence courses (12 hours).

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.

• GERONTOLOGY (GEY)

Gerontology is the study of the process of human aging in all its many aspects: physical, psychological, and social. In the Department of Gerontology, particular emphasis is placed upon applied gerontology, with the goal of educating students who in their professional careers will work to sustain or improve the quality of life of older persons. Since Gerontology is an interdisciplinary field, dual majors with other departments are encouraged. The Department offers the degrees of Bachelor of Arts in Gerontology, Bachelor of Science in Gerontology, a minor in Gerontology, and Master of Arts in Gerontology. The Department of Gerontology also hosts the university-wide Ph.D. in Aging Studies, and offers 3 graduate certificates in Gerontology.

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. If students transfer with 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. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

ACG X021	Financial Accounting or ACG X001
ACG X071	Managerial Accounting or ACG X011 or ACG X630
CSG X000	Computers in Business or EME X402, COC X317, CSG X101, X361, X001, X060, or CGS 1061
GEY X000	Introduction to Gerontology
STA X122	Social Science Statistics or QMB 2150, STA 2022, STA X013, STA X014, STA X040, STA X023, STA X024, or QMB X100

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.

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

The Bachelor of Arts Degree in Gerontology entails 36 semester hours of required course work. In this program the course of study is intended to provide students with a liberal education in gerontology and some exposure to the various career opportunities in the field of aging. This degree is especially appropriate for students who plan to pursue graduate or professional work in gerontology, or some other field, or who plan to work with older adults in careers in areas such as case management, social services, or activity therapy. A grade of lower than "C-" in Gerontology courses will not be counted toward fulfilling the requirements for the major.

Required Courses:

GEY 2000	Introduction to Gerontology	(3)
GEY 3326	Aging in the 21st Century	(3)
GEY 3601	Physical Changes and Aging	(3)
GEY 3625	Sociocultural Aspects of Aging	(3)
GEY 4401	Research Methods in Gerontology	(3)
GEY 4612	Psychology of Aging	(3)

A required prerequisite is STA 2122.

B.A. students complete 18 additional elective hours, which may include field placement. Students should meet frequently with the departmental advisor to plan courses and field work that will prepare the student for career goals.

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. A grade of lower than "C-" in Gerontology courses will not be counted toward fulfilling the requirements for the major.

Required courses:

BUL 3320	Law and Business I	(3)
GEY 3601	Physical Changes and Aging	(3)
GEY 4327	Long Term Care Administration I	(3)
GEY 4328	Long Term Care Administration II	(3)
GEY 4329	Long Term Care Administration III	(3)
GEY 4360	Gerontological Counseling	(3)
GEY 4641	Death and Dying	(3)
GEY 4945	Field Placement	(9)
MAN 3025	Principles of Management	(3)
MAN 3240	Organizational Behavior Analysis	(3)
MAN 3301	Human Resource Management	(3)

Students also complete the following fifteen (15) hours of prerequisites: ACG 2021, ACG 2071, CGS 2100, GEY 2000, and GEY 3326.

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

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

GEY 2000 at this university or its equivalent at another institution is required as a gerontology prerequisite. ACG 2021 and ACG 2071 taken at this university or elsewhere will satisfy accounting prerequisites.

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

Requirements for the Minor in Gerontology

An undergraduate minor in Gerontology is available for students interested in pursuing careers in conjunction with any undergraduate major, but it should be particularly beneficial to persons majoring in such disciplines as anthropology, business, 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 15 hours of the following courses:

Required:

GEY 2000	Introduction to Gerontology	(3)
or		
GEY 3326	Aging in the 21st Century	(3)

Required: Choose 2 of the following 3 courses

GEY 3601	Physical Changes and Aging	(3)
GEY 3625	Sociocultural Aspects of Aging	(3)
GEY 4612	Psychology of Aging	(3)

Electives:

Six additional GEY credit hours.

• 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. Each student develops a course of study designed to fulfill his or her career and educational goals in consultation with the International Studies Advisor.

Requirements for the Major in International Studies

Recommended 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. If students transfer with 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.

While the INT program does not have mandatory prerequisites, a student may apply up to 10 credit hours of lower level courses from the following list: AFS 2250, Culture and Society in Africa, ANT 2410, Cultural Anthropology; GEA 2000, World Regional Geography; CPO 2002, Comparative Politics; INR 2002, Introduction to International Relations; REL 2300, Introduction to World Religions; or GEB 2350, Doing Business Around the World.

Upper-level Course Requirements

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	Introduction to International Studies	(3)
INR 3081	International Issues and Actors	(3)
INR 3038	International Wealth and Power -SS	(3)
INR 4936	Senior Seminar -MW	(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 elective courses from within the International Studies Program or from course offerings of other departments, which are approved by the major advisor as having adequate international or cross-cultural content.

With the approval of the major advisor, 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. A limited number of internships are available to provide students with real-world experience while earning credits in the 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 advisor who is empowered to make appropriate substitutions when educationally justified.

Requirements for the Minor in International Studies

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

INR 3003	Introduction to International Studies	(3)
INR 3081	International Issues and Actors	(3)
INR 3038	International Wealth and Power-SS	(3)

Plus 3 upper level courses chosen from the International Studies Program's offerings.

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

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, 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**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.

Upper-level Course Requirements

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. Students enrolled in the Washington, D.C. semester program may have this rule altered by their advisor. (A GPA of 3.0 is required to enroll in these courses; the Chair may grant special exception for students with a GPA between 2.70 and 2.99).

In addition, all Political Science majors are required to take, at least, 3 credit hours of Economics (See your advisor for recommendations).

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.

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

Required Core Courses (12 cr. hrs.)

CPO 2002	Introduction to Comparative Politics	(3)
or		
INR 2002	Introduction to International Relations	(3)
and		
POS 2041	American National Government	(3)
POT 3003	Introduction to Political Theory	(3)
POS 3713	Empirical Political Analysis	(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 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.

Students must choose electives from the seven fields (24 credit hours) with at least one course from Field I, one course from Field II or III, and one course from any of Fields IV, V, VI, or VII. Core courses must be completed before a course from a given field or field grouping can be taken.

Field I	Political Theory		
	POT 3013 (3)	POT 4064 (3)	POT 5626 (3)
	POT 4054 (3)	POT 4204 (3)	
Field II	Comparative Government and Politics		
	CPO 4034 (3)	CPO 4930 (3)	CPO 5934 (3)
Field III	International Relations		
	INR 3102 (3)	INR 3370 (3)	INR 4403 (3)
	INR 3038 (3)	INR 4035 (3)	INR 4502 (3)
	INR 3336 (3)	INR 4254 (3)	INR 4334 (3)
	INR 5086 (3)		
Field IV	American National and State Governments		
	POS 2080 (3)	POS 3273 (3)	POS 4413 (3)
	POS 2112 (3)	POS 3453 (3)	POS 4424 (3)
	POS 3173 (3)	POS 4204 (3)	POS 5094 (3)
	POS 3182 (3)	PUP 4323 (3)	

Field V	Urban Government and Politics		
	POS 3142 (3)	POS 4165 (3)	URP 4050 (3)
	POS 3145 (3)	POS 5155 (3)	PUP 4534 (3)
Field VI	Public Policy		
	INR 3102 (3)	INR 4334 (3)	POS 3145 (3)
	PUP 4002 (3)	PUP 4007 (3)	PUP 4203 (3)
	PUP 4323 (3)	PUP 4534 (3)	PUP 5607 (3)
	URP 4050 (3)		
Field VII	Law and Politics		
	INR 4403 (3)	POS 3691 (3)	POS 4624 (3)
	POS 3283 (3)	POS 4614 (3)	POS 4693 (3)
	POS 4694 (3)		

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

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

Requirements for the Minor in Political Science

A minor in political science requires the completion of a minimum of 18 credit hours, made up of two courses (6 credit hours) from among CPO 2002 (or INR 2002), POS 2041, and POT 3003. An additional 12 credit hours of courses included in the Political Science major are also 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.

FIELD WORK

The Department of Political Science has a field work program that 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

The Honors Program in Political Science is designed for the outstanding undergraduate who seeks an intensive learning experience plus academic recognition during the senior year.

Eligibility:

Political Science majors with a 3.5 grade point average in political science courses and a 3.0 overall average will be invited to participate in the honors program.

Requirements:

Students who participate must complete the Honors seminar with a grade of "B" or better and must write an Honors Thesis, POS 4970 (3). The Honors Thesis must meet the following criteria:

- a thesis proposal must be approved by the student's major professor before s/he begins writing;
- students need two academic advisors who must approve the final version of the thesis;
- students will publicly present their thesis and provide a copy of it to the department after the final draft has been approved;
- the thesis must be at least 50 pages long, contain an abstract, table of contents, bibliography and footnotes/endnotes;
- all theses are due during the last week of classes for the semester in which the student is currently enrolled.

Requirements for the Pre-Law Plan in Political Science

The Political Science Program offers a pre-law plan designed for the undergraduate students who are 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 required to complete courses that can help them develop necessary skills to study law. Students receive the skills and information needed for entry into a number of law-related positions in business and government. Please see the departmental pre-law advisor to obtain more information about the pre-law plan.

Prior to admission to law school, a student must take the Law School Admission Test (LSAT), as 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.

Recommended 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. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

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

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

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

International Affairs Focus in Political Science

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

Basic courses in the area include:

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

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

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

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

Public Administration (PAD)

The Public Administration Program offers courses that 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 4144	Nonprofit Organizations and Public Policy
PAD 4204	Public Financial Administration
PAD 4419	Personnel and Supervision in Today's Organizations
PAD 4707	Managing Information Resources in the Public Sector
PAD 4930	Selected Topics in Public Administration and Public Policy
PAD 5035	Issues in Public Administration and Public Policy
PAD 5333	Concepts and Issues in Public Planning
PAD 5605	Administrative Law and Regulation
PAD 5700	Research Methods in Public Administration
PAD 5807	Urban and Local Government Administration
PAD 5836	Comparative Public Administration
POS 5159	Urban Policy Analysis

An undergraduate minor in Public Administration has recently been approved.

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

Prerequisites (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. If students transfer with fewer than 60 semester hours of acceptable credit, they must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

Students are encouraged to complete two lower level introductory history courses from the list below to meet prerequisites for the major during the program of study at the community college which should be, 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

Upper-level Course Requirements for the Major

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. A minimum grade of "C" or

better must be attained in each course counted toward 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 2600, "Public Speaking," LIS 2937, "Library and Internet Research Skills," and computer service courses. Additional hours can be profitably drawn from the following disciplines: Africana Studies, American Studies, Anthropology, Economics, Geography, Government and International Affairs, Psychology, Philosophy, Sociology, Women's Studies, Literature, the Humanities, and the Fine Arts. Majors intending to pursue graduate work should take a minimum of two years of classical or modern foreign language. Open University courses and exit courses titled "Issues in History" (HIS 3938) and "War and Society" (HIS 3308) 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. The department will supervise certification of the minor. 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 and exit courses titled "Issues in History" (HIS 3938) and "War and Society" (HIS 3308) are not eligible for major field credit.

• 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 offers an interdisciplinary curriculum that investigates the visual arts, music, literature, and the cultures from which they emerge.

Requirements for the Major in Humanities Recommended 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. If students transfer with 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 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.

ENC 1101 Composition I (3)

ENC 1102 Composition II (3)

Humanities (HUM 2000-level courses)	(6)
Creative Writing courses (CRW courses)	(3-6)
Introductory courses in applied and non-applied Fine Arts (ART, MUS)	(6)
Literature in Translation (RUT, CLT courses)	(3-6)
Social Science (AMH, EUH courses)	(6)

Course Requirements for the Humanities Major

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; offered only in fall semester.
4. Two or more classes 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.

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 that 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**Recommended 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. If students transfer with 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 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 Composition I	(3)
ENC 1102 Composition II	(3)
POS 2041 American National Government	(3)

Course Requirements for the American Studies Major

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, PGY 3000). 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.

• INTERDISCIPLINARY NATURAL SCIENCES (INS)

The Interdisciplinary Natural Science degrees serve the academic and career goals of undergraduate students who seek a broad education in the Natural Sciences (Biology, Chemistry, Physics, Mathematics, Geology). There are two Interdisciplinary Natural Science degrees, the Interdisciplinary Natural Science degree (INS) which encompasses all five natural science disciplines and the Interdisciplinary Natural Science degree, Health Professions track (INH) specializing in the science courses for the health professions.

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.

Recommended 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. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

Students are encouraged to complete as many of the following courses as possible, 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.

Biology I and Biology II (BSC 2010, 2010L, BSC 2011, 2011L)	8
Calculus (MAC 2241, MAC 2242 or MAC 2311, MAC 2312)	6-8
General Chemistry (CHM 2041, CHM 2045L, CHM 2046, CHM 2046L)	8
Organic Chemistry (CHM2210, CHM2210L, CHM2211, CHM2211L)	8

General Physics (PHY 2053, PHY 2053L, PHY 2054, PHY 2054L or PHY 2048, PHY 2048L, PHY 2049, PHY 2049L)	8
Introduction to Physical Geology and History of the Earth and Life (GLY 2010, GLY 2015L, GLY 2100, GLY 2100L)	8

Requirements for the Major in Interdisciplinary Natural Sciences

Coursework required for Interdisciplinary Natural Science majors:

TIER 1

Two introductory courses in each of 5 natural sciences areas (Math, Physics, Chemistry, Biology, Geology) totaling 40 hours:

Calculus I and II (MAC 2241, 2242 or MAC 2311, 2312 or MAC 2281, 2282) (STA 2023 could be substituted for Calculus II)	
Biology I and II (BSC 2010, 2010L and BSC 2011, 2011L)	
General Chemistry I and II (CHM 2045, 2045L and CHM 2046, 2046L)	
Geology I and II (GLY 2010, 2015L and GLY 2100, 2100L)	
Physics I and II (PHY 2053, 2053L, 2054, 2054L, or PHY 2048, 2048L, 2049, 2049L)	

TIER 2

At least 8 hours of structured, upper division (3000 level or higher) courses in three of the five natural sciences areas, totaling 24 hours. All Tier 2 courses in the sciences will be selected by the individual student, but must be chosen from the list of courses approved for department Major credit.

Residency

At least 12 of the 24 hours at Tier 2 must be taken at USF.

Requirements for the Major in Interdisciplinary Natural Sciences, Health Professions Track

The Interdisciplinary Natural Science Degree Health Professions track (INH) is designed to fulfill the major requirements for many professional schools in the Health Sciences (e.g. Medicine, Veterinary Medicine, Dentistry). Students contemplating graduate study should pursue a major in the discipline of their interest, such as Biology, Chemistry, or Microbiology. For the INH track, students must complete a minimum of 56 credit hours in natural sciences with a C- or higher in all required courses for the Major.

Required Natural Science Courses:

Biology:

BSC 2010	Biology I - Cellular Processes	(3)
BSC 2010L	Biology I Lab	(1)
BSC 2011	Biology II - Diversity	(3)
BSC 2011L	Biology II Lab	(1)
MCB 3030C	General Microbiology	(4)
BSC 2093	Human Anatomy and Physiology II*	(3)
BSC 2094	Human Anatomy and Physiology II*	(3)

Chemistry:

CHM 2045	General Chemistry I	(3)
CHM 2045L	General Chemistry I Lab	(1)
CHM 2046	General Chemistry II	(3)
CHM 2046L	General Chemistry II Lab	(1)
CHM 2210	Organic Chemistry I	(3)

CHM 2210L	Organic Chemistry I Lab	(1)
CHM 2211	Organic Chemistry II	(3)
CHM 2211L	Organic Chemistry II Lab	(1)
or		
CHM 3120C	Elementary Analytical Chemistry	(4)
BCH 3023	Introductory Biochemistry	(3)
or		
CHS 4300	Fundamentals of Clinical Chemistry	(3)
Mathematics:		
MAC 2241	Life Sciences Calculus I	(4)
MAC 2242	Life Sciences Calculus II	(4)
or		
STA 2023	Introductory Statistics	(4)

Required Biology Electives:

Minimum of 6 credit hours in TWO of the following courses. One course must be with lab. Select from the following courses, noting prerequisites where applicable:

MCB 4115	Determinative Bacteriology	(5)
MCB 4404	Microbial Physiology and Genetics	(4)
MCB 4404L	Microbial Physiology and Genetics Lab	(1)
MCB 5815	Medical Mycology	(3)
MCB 4502	Virology	(3)
PCB 3023	Cell Biology	(3)
PCB 3023L	Cell Biology Lab	(1)
PCB 3063	General Genetics	(3)
PCB 3063L	Genetics Lab	(1)
PCB 4064C	Experimental Genetics	(3)
PCB 5235	Principles of Immunology	(3)
or		
PCH 6511	Tropical Health Immunology	(3)
ZOO 4753C	Histology	(3)

Required Natural Science Electives:

Minimum of 7 credit hours in Biology, Chemistry, or Physics. Select from the following list, noting prerequisites where applicable, and not duplicating courses used to meet the above requirements:

BCH 3023	Biochemistry	(3)
BCH 3023L	Biochemistry Lab	(1)
BCH 4034	Advanced Biochemistry	(3)
CHM 3120C	Elem. Analytical Chemistry	(4)
CHS 4300	Clinical Chemistry	(3)
CHS 4301L	Clinical Chemistry Lab	(2)
HSA 4120	Introduction to Public Health	(3)
HSC 4554	Survey of Human Disease	(3)
MCB 4115C	Determinative Bacteriology	(5)
MCB 4404	Microbial Phys/Genetics	(4)
MCB 4404L	Microbial Phys/Genetics Lab	(1)
MCB 4502	Virology	(3)
MCB 5206	Pub. Health/Pathogenic Micro	(3)
MCB 5815	Medical Mycology	(3)
PCB 3023	Cell Biology	(3)
PCB 3023L	Cell Biology Lab	(1)
PCB 3063	General Genetics	(3)
PCB 3063L	General Genetics Lab	(1)
PCB 4064	Experimental Genetics	(3)
PCB 4723	Animal Physiology	(3)
PCB 4723L	Animal Physiology Lab	(1)
PHY 2053	Physics I	(3)
PHY 2053L	Physics I Lab	(1)
PHY 2054	Physics II	(3)
PHY 2054L	Physics II Lab	(1)
ZOO 4753C	Histology	(4)

*NOTE: Students may substitute General Physics I and II (PHY 2053, PHY 2053L; PHY 2054, PHY 2054L) for BSC 2093, BSC 2094 (Human Anatomy and Physiology).

At least 12 hours of upper division science courses must be completed as USF.

• 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.

In addition to classes at the Tampa and regional campuses, students have the option of attending USF classes in the Interdisciplinary Social Sciences program at either the St. Petersburg College campus in Clearwater or at the Pasco-Hernando Community College campus. For information about Clearwater or Pasco-Hernando Community College classes, call (727) 553-1511.

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

Recommended 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. If students transfer with 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.

Please be aware of the immunization, foreign language, and continuous enrollment policies of the university.

There are no State Mandated Common Prerequisites for the ISS degree program.

Some of the following courses if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses, could count toward the ISS degree. A grade of "C" is the minimum acceptable grade.

AFA 2000	Black Experience	(3)
AMH 2010 or 2020	American History	(3)
ANT 2000	Introduction to Anthropology	(3)
ECO 2013	Economic Principles (Macroeconomics)	(3)
ECO 2023	Economic Principles (Microeconomics)	(3)
GEA 2000	World Geography	(4)
POS 2041	National Government	(3)
or		
POS 2112	State and Local Government	(3)
SYG 2000	Introduction to Sociology	(3)
WST 3015	Women's Studies	(3)

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 life and experience; the various concepts, theories and methods used in the social sciences; and apply them to contemporary issues and questions. Social Science Statistics is the third core course required for majors in Interdisciplinary Social Sciences.

Coursework required for Interdisciplinary Social Sciences Majors

- Required core courses for the major are:

ISS 3010	Introduction to Social Sciences	(3)
ISS 4935	Seminar in the Social Sciences -MW	(3)
STA 2122	Social Sciences Statistics -6A QM	(3)
- The ISS student chooses between two cognate areas and completes twelve hours in each. Twenty available cognates (listed below) range from Africana Studies, to Criminology, Sociology, and Women's Studies. In addition, three special electives emphasize cultural diversity.

3. Students should work out a program of study at the onset of their junior year, particularly before too many courses are completed in the College of Arts and Sciences. **No student should assume that courses already completed in CAS will automatically count toward the ISS degree.**

- 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.
- Students must maintain a minimum grade point average of 2.0 in ISS to graduate.
- ISS majors must satisfy two semesters of a foreign language in order to graduate.
- 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.

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

COGNATE AREAS - Students 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, INT, ITT, LAS, LSH, PAD, POL, PSY, SOC, SOW, and WST.

• LIBERAL STUDIES (ALA)

The Liberal Studies degree fulfills the intent of the traditional Liberal Arts Degree and is for students who want a broad academic background to realize their academic or career goals.

Recommended 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. If students transfer with 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.

Program Admission Procedure and Upper-level Course Requirements:

Students must apply for admission to the program separately from applying to the university. To apply for the Liberal Studies Program, students must (1) have completed a minimum of 20 and no more than 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 and program of study, 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 of the Major who is located 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 hours will include courses in the social sciences, humanities, and natural sciences. In the student's last semester, the faculty committee must approve a senior paper.

For information, contact the Associate Dean for Academic Affairs in BEH 201.

• 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 taught in these classes include using the Internet to answer educational and research needs; designing and creating web pages; efficiently finding and using the information resources of the modern, and increasingly electronic library.

The School's faculty will counsel those undergraduates interested in graduate study in librarianship. The American Library Association accredits the Library and Information Science Master's program, 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>.

• MASS COMMUNICATIONS (COM)

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

Majors seeking careers in the mass media will be directed to the various media in close contact with the School for summer internships, practica and part-time work. A limited number of students will have the opportunity to serve as interns with a mass communications organization and take MMC 4945 for three hours credit. 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 English Diagnostic Test prior to entering MMC 2100 (Writing for Mass Media). (Students who transfer MMC 2100

or its equivalent must pass the Mass Communications English Diagnostic Test with a 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 disallowed as majors in the School. A 2.5 GPA in Mass Communications courses is required for graduation, and no student may graduate with a grade lower than "C" in any Mass Communications course.

The Mass Communications major requires six hours of core curriculum courses (MMC 2100 and MMC 3602) and 31 hours of a combination of required and selective sequence courses for a total of 37 hours in Mass Communications within the 124-hour degree requirement. Six hours in Mass Communications writing courses (three hours in addition to MMC 2100) are a part of the graduation requirement.

Mass Communications majors are required to take a minimum of 80 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 44 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 44 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.

At least twenty-two (22) hours of resident School courses are required.

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

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

Most Mass Communications courses have prerequisites as specified in the course description (these prerequisites are separate from the State Mandated Common Prerequisites for program admission listed below). Refer to each prerequisite listed to determine progressive prerequisites for each course. Students also should note that the Mass Communications major is a four-semester program at a minimum and the majority of courses are offered only during the day (except at the USF St. Petersburg campus where an evening schedule is available).

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. If students transfer with 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 must complete 18 semester hours outside the Mass Communications curriculum and beyond the 36 hours general education requirements 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 encour-

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

English Composition (minimum grade of "C") (6)

MMC 3602 Mass Communications and Society (3)

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

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

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

Required Upper-level Coursework for the Mass Communications Major

SCHOOL CORE CURRICULUM

MMC 2100 Writing for the Mass Media

MMC 3602 Mass Comm and Society

SEQUENCE REQUIREMENTS

1. ADVERTISING Requirements

ADV 3000 Introduction to Advertising

ADV 3101 Advertising Copywriting

ADV 3300 Advertising Media Strategy

ADV 3501 Advertising Research

ADV 4800 Advertising Campaigns

ADV 4940 Advertising Practicum

MMC 4203 Media Ethics

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

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

ECO 1000 Basic Economics

LIS 2937 Library and Internet Research Skills

MAR 3023 Basic Marketing

See specific courses for prerequisites.

2. JOURNALISM Requirements

News-Editorial Option

JOU 2100 Beginning Reporting

JOU 3101 Advanced Reporting

JOU 4104 Public Affairs Reporting

JOU 4200 News Editing I

MMC 4200 Communications Law

MMC 4203 Media Ethics

JOU 4206 Newspaper and News Publication Design

or

PGY 3610 Photojournalism I

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

Other Requirements:

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

ECO 1000 Basic Economics

PHI 1103 Critical Thinking

POS 2041 American National Government

POS 2112 State and Local Government and Politics

or

POS 3142 Intro to Urban Politics & Government

and

SYG 2010 Contemporary Social Problems

Magazine Option

JOU 2100 Beginning Reporting

JOU 3101 Advanced Reporting

JOU 3300 Magazine Article and Feature Writing

JOU 4200 News Editing I

JOU 4212 Magazine Design and Production

MMC 4200 Communications Law

MMC 4203 Media Ethics

MMC 4420 Research Methods

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

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

ECO 1000 Basic Economics

CRW 2100 Narration and Description

PHI 1103 Critical Thinking

POS 2041 American National Government

POS 2112 State and Local Government and Politics

or

POS 3142 Intro to Urban Politics and Government

and

SYG 2010 Contemporary Social Problems

See specific courses for prerequisites.

Visual Communications Option

Departmental Core Curriculum:

MMC 2100 Writing for the Mass Media

MMC 3602 Mass Comm and Society

Sequence Core Curriculum (all 9 courses required):

JOU 2100 Beginning Reporting

JOU 4200 News Editing I

JOU 4206 Newspaper and News Publication Design

MMC 4200 Communication Law

MMC 4203 Media Ethics

MMC 4936 Selected Topics: Visual Communication and New Media

PGY 3610 Photojournalism I

VIC 3001 Introduction to Visual Communications

VIC 3943 Visual Communications Practicum

Suggested Selective Requirements (minimum 6 hours):

Approved Mass Communications courses

Required Courses Outside Mass Communications:

An advisor-approved 6-hour concentration

or

ECO 1000 Basic Economics

SYG 2010 Contemporary Social Problems

3. PUBLIC RELATIONS Requirements

ADV 3000 Introduction to Advertising

JOU 2100 Beginning Reporting

MMC 4200 Communications Law

or

MMC 4203 Media Ethics

PUR 3000 Principles of Public Relations

PUR 3500 Public Relations Research

PUR 4100 Writing for Public Relations

PUR 4103 Public Relations Design and Production

PUR 4401 Public Relations Issues, Practices, Prob.

PUR 4801 Advanced Public Relations

Selective Requirements (4 hours required, selected with advisor's approval)

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

ECO 1000 Basic Economics

LIS 2937 Library and Internet Research Skills

MAN 3025 Principles of Management

MAR 3023 Basic Marketing

POS 2041 American National Government

POS 2112 State and Local Government and Politics

or

POS 3142 Intro to Urban Politics and Government

4. TELECOMMUNICATIONS Requirements

News Option

JOU 4104 Public Affairs Reporting

MMC 4200 Communications Law

MMC 4420 Research Methods

RTV 3001 Introduction to Telecommunications

RTV 3301 Broadcast News

RTV 4304 TV News

RTV 4320 Electronic Field Production

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

Other Requirements:

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

PHI 1103 Critical Thinking
 POS 2041 American National Government
 POS 2112 State and Local Government and Politics
or
 POS 3142 Intro to Urban Politics and Government

and

SPC 2600 Public Speaking

Production Option

MMC 4200 Communications Law
 RTV 2100 Writing for Radio and TV
 RTV 3001 Introduction to Telecommunications
 RTV 3301 Broadcast News
 RTV 4220 TV Production and Direction
 RTV 4320 Electronic Field Production
 RTV 4500 Telecommunications Programming

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

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

CRW 2100 Narration and Description

or

ENC 3310 Expository Writing

and

PHI 1103 Critical Thinking

Requirements for the Minor in Mass Communications

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

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

MMC 2100 (3) MMC 3602 (3)

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

• MATHEMATICS (MTH)

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

The Department of Mathematics consists of approximately 33 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

Prerequisites (State Mandated Common Prerequisites)

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

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

COP XXXX Computer Language Course
 (Pascal, FORTRAN, C, C+, or C++)

MAC X311 Calculus I

MAC X312 Calculus II

MAC X313 Calculus III

Students must also complete two laboratory-based science courses, 4 - 8 semester hours total, from the respective science majors: Biology, Chemistry, Geology, or Physics.

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.

Majors are encouraged to consult the department's Undergraduate Advisor before every semester. The Undergraduate Advisor will recommend electives which are appropriate for the student's interests and goals.

Majors are encouraged to consider the Honors Program and the Accelerated BA/MA Program, which are outlined below.

1. Mathematics Requirements (Minimum 45 credit hours)

Core Requirement. Majors must complete the following five courses (20 cr. hrs.):

MAC 2311	Calculus I	(4)
MAC 2312	Calculus II	(4)
MAC 2313	Calculus III	(4)
MGF 3301	Bridge to Abstract Mathematics	(4)
MAS 3105	Linear Algebra	(4)

Analysis Requirement. Majors must complete one of the following two courses (4 credit hours):

MAA 4211	Intermediate Analysis I	(4)
MAS 4156	Vector Calculus	(4)

Majors who complete both MAA 4211 and MAS 4156 may count one of these towards the Elective Requirement below.

Elective Requirement. Majors must complete seven courses from the following electives (Minimum 21 credit hours):

CGS 3414	Problem Solving Using Pascal or C	(3)
COP 4313	Symbolic Computations in Mathematics	(3)
MAA 4211	Intermediate Analysis I	(4)
MAA 4212	Intermediate Analysis II	(3)
MAA 4402	Complex Variables	(3)
MAD 4401	Numerical Analysis	(3)
MAD 4504	Theory of Computation	(3)
MAD 5305	Introduction to Graph Theory	(3)
MAP 2302	Differential Equations	(3)

MAP 5345	Applied Partial Differential Equations	(3)
MAP 5407	Methods of Applied Mathematics	(3)
MAS 4124	Numerical Linear Algebra	(3)
MAS 4156	Vector Calculus	(4)
MAS 5215	Number Theory	(3)
MAS 4301	Elementary Abstract Algebra	(3)
MAT 4970	Mathematics Senior Thesis	(3)
MHF 5405	History of Modern Mathematics	(3)
MTG 4214	Modern Geometry	(3)
MTG 4302	Introduction to Topology	(3)
STA 4321	Essentials of Statistics	(3)
STA 4442	Introduction to Probability	(3)

Special Notes.

MAT 4930, Selected Topics in Mathematics, or 5000-level mathematics courses may be taken as electives, with the approval of the Undergraduate Advisor.

One or two courses from another department which are of high mathematical content may also be taken as electives, with the approval of the Undergraduate Advisor and the Chairman.

Majors wishing to take a course in statistics should first take STA 4442 and then STA4321.

Majors wishing to continue towards a graduate degree in mathematics should take MAS 4301 and MAA 4211. (See also the sections on the Honors Program and the Accelerated BA/MA Program below.)

2. Mathematics-related Courses (Min. 6 credit hours)

Majors must take two courses in science or engineering which are required courses for the majors within those departments. The two courses need not be in the same department. Science courses must include laboratories and be offered by the Departments of Biology, Chemistry, Geology, or Physics.

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 MAS 4301, Elementary Abstract Algebra,
2. have at least a 3.0 grade point average for all college courses, and
3. have at least a 3.5 grade point average for 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 the requirements of the major in mathematics,
2. completion of MAA 4211, Intermediate Analysis I,
3. completion of MAT 4970, Mathematics Senior Thesis,
4. completion of eight mathematics courses at or above the 4000-level,
5. at least a 3.0 average for all college courses, and
6. at least a 3.5 average for mathematics courses.

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 student to take those graduate level courses required for the MA degree during the last two years in the program. Up to 20 hours of graduate courses may be counted towards the MA degree as well as the BA degree, but not towards the undergraduate major (that is, as free electives).

For admission to the program, a student must

1. have completed at least 30 hours of college credit including 8 hours of 3000-level or above mathematics courses,
2. have at least a 3.0 grade point average for all college courses, and
3. have at least a 3.5 grade point average for all mathematics courses taken at the 3000-level or above.

To apply for admission, send a letter to the Chair of the Department of Mathematics stating your qualifications and desire to enter the program. An important benefit of this program is that a student is eligible to apply for a graduate teaching assistantship once he or she has completed the undergraduate mathematics major courses. To plan your program, see the Undergraduate Advisor in Mathematics.

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 26 cr. hrs.):

1. Required Courses (20 credit hours)

Either

MAC 2311	Calculus I	(4)
MAC 2312	Calculus II	(4)
MAC 2313	Calculus III	(4)

Or

MAC 2281	Engineering Calculus I	(4)
MAC 2282	Engineering Calculus II	(4)
MAC 2283	Engineering Calculus III	(4)

Also, both of the following:

MGF 3301	Bridge to Abstract Mathematics	(4)
MAS 3105	Linear Algebra	(4)

2. Elective Courses (Min. 6 credit hours)

Any 2 mathematics courses 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 College of Education, Department of Secondary Education.

C- GRADES

In general, grades of C- or better are required for courses in the mathematics major and minor and for prerequisite courses. However, C- is not acceptable for prerequisites for the following courses: MAC 1105, MAC 1114, MAC 1140, MAC 1147, MAC 2241, MAC 2343, MAC 2244, MAC 2281, MAC 2282, MAC 2283, MAC 2311, MAC 2312, MAC 2313, MGF 1106, MGF 1107, MGF 1131, STA 1022, STA 2023; C (2.00 grade points) or better is required in the prerequisites for these courses.

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. All university Liberal Arts requirements.
3. Writing and computation requirements for 6A- 10.30.
4. All sciences and mathematics requirements listed below, including Common Prerequisites and those specific to USF, with a "C" or higher in each course.

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Community College: 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 student who transfers with fewer than 60 semester hours of acceptable credit must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

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

- 1) General Biology I with lab (4)
(e.g. BSC1010C, BSC1011C, BSC1010/1010L, BSC 1011/1011L, BSC 2010/2010L, PCB 2011C, PCB 2131/2131L, BSC 2011/2011L)
- 2) Human Anatomy and Physiology I with lab (4)
(e.g. BSC 1085/1085L, BSC 1085C, BSC 1093, BSC 2093C, BSC 2085/2085L, BSC 1011, BSC 2011, PCB 4703, PCB 3703, PCB 3702, PCB 3702,3,4 (student's choice of one of these three labs), PCB 3703C, BSC 2085C, BSC 2023C)
- 3) Human Anatomy and Physiology II with lab (4)
(e.g. BSC 1086/1086L, BSC 1086C, BSC 2094C, ZOO 3733C, ZOO 3731, PCB 3134C, PCB 2131, BSC 1094, BSC 2096, BSC 2011, PCB 2510/2510L, BSC 2086C)
- 4) General Microbiology with lab (4)
(e.g. MCB 3020/3020L, MCB 2013/2013L, MCB 2013C/2013L, MCB 3023/3023L, MCB 3020C, MCB 2010/2010L)
- 5) General Chemistry I with lab (4)
(e.g. CHM 1045/1045L, CHM 1045C, CHM 2045/2045L)
- 6) General Chemistry II with lab (4)
(e.g. CHM 1046/1046L, CHM 1046C, CHM 1040/1040L, CHM 1046E/1046L, CHM 2046/2046L)
- 7) Organic Chemistry I with lab (4-5)
(e.g. CHM 2210/2210L, CHM 2010/2010L, CHM 2210C, CHM 3210)
- 8) Organic Chemistry II with lab (4-5)
(e.g. CHM 2211/2211L, CHM 2011/2011L, CHM 2211C, CHM 3211/3211L, CHM 3120/3120L, CHM 2120/2120L, CHM 21120C)
- 9) Statistics (3-4)
(e.g. STA 2023, STA 2014, STA 2122, STA 2037, STA 2040, STA 2024, STA 2321, STA 3023)

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

- | | |
|--|-------|
| College Algebra (MAC 1105 or MAC 1147) | (3-4) |
| Determinative Bacteriology (MCB 4115) | (5) |
| Immunology (PCB 5235 or equivalent) | (3) |
| Clinical Chemistry (CHS 4300) | (3) |
| Cell Biology (PCB 3023) | (3) |

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

Upon successful completion of this curriculum and acceptance by one of the affiliated hospitals, the student will complete 12 continuous months of training at that hospital. Hospital programs begin in July or early August each year, and some hospitals also have programs beginning in January or February. During this clinical training, the student will continue to be registered as a full-time student of the university and will receive a total of 30 credit hours of work in:

- | | |
|----------|--|
| MLS 4031 | Introduction to Medical Technology |
| MLS 4861 | Clinical Immunology |
| MLS 4863 | Clinical Microbiology |
| MLS 4865 | Clinical Immunohematology |
| MLS 4860 | Clinical Urinalysis and Body Fluid |
| MLS 4862 | Clinical Hematology |
| MLS 4864 | Clinical Chemistry |
| MLS 4866 | Clinical Laboratory Management and Education |

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

• PHILOSOPHY (PHI)

Recommended Prerequisites (State Mandated 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. If students transfer with 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 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.

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

Requirements for the Major in Philosophy

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

- PHH 3062 History of Philosophy: Ancient and Medieval
- PHH 3400 History of Philosophy: Modern
- PHI 2101 Introduction to Formal Logic
- or
 - PHI 5135 Symbolic Logic
 - PHI 4670 Contemporary Ethical Theory
- d. At least one of the following:
 - PHI 4300 Theory of Knowledge
 - PHI 5225 Philosophy of Language
 - 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 3400 History of Philosophy: Modern
 PHH 4600 Contemporary Philosophy

or

PHH 4440 Continental Philosophy
 PHI 2101 Introduction to Formal Logic

No credit taken on an "S/U" basis may be applied toward the minor.

HONORS PROGRAM

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

Admission Criteria:

- Students must complete
 - PHI 2101 Introduction to Formal Logic
 - PHH 3062 History of Philosophy: Ancient and Medieval
 - PHH 3400 History of Philosophy: Modern with a grade point average of 3.6.
- Students must have an overall grade point average of 3.0, and their grade point average in Philosophy must be at least 3.5.
- Students must be nominated for admission into the Philosophy program by a faculty member in Philosophy, and a majority of the faculty who have taught the student must approve the student's admission into the program.

Program Requirements:

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

- Students must take either PHH 4440, 19th Century Continental Philosophy or PHH 4600, Contemporary Philosophy
- Students must take one course from each of the following groups:
 - Group 1**
 - PHI 3404 Scientific Method
 - PHI 4320 Philosophy of Mind
 - PHI 4300 Theory of Knowledge
 - PHI 5225 Philosophy of Language
 - PHP 4784 Analytical Philosophy
 - Group 2**
 - PHI 4600 Contemporary Ethical Theory
 - PHI 3601 Contemporary Moral Issues
 - PHI 3700 Philosophy of Religion
 - PHI 4800 Aesthetics
 - PHM 3021 Philosophies of Love and Sex
 - PHM 3400 Introduction to Philosophy of Law
 - Group 3**
 - PHM 3100 Social Philosophy
 - PHM 4322 Ancient and Medieval Political Philosophy
 - PHM 4331 Modern Political Philosophy
 - PHM 4340 Contemporary Political Philosophy
 - PHP 4788 Philosophy of Marxism
 - Group 4**
 - PHH 4700 American Philosophy
 - PHP 3786 Existentialism
 - PHP 4000 Plato
 - PHP 4010 Aristotle
 - PHP 4410 Kant
 - PHP 4740 The Rationalists
 - PHP 4745 Empiricists
- Students must take an Honors Seminar in their senior year.
- Students must write a senior thesis and undergo an oral examination on the thesis before a committee of two faculty members, with the Chair as an *ex officio* member of every such committee.

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

• PHYSICS (PHY/PHS)

The Department of Physics offers undergraduate programs leading to a Bachelor of Arts (B.A.) or a Bachelor of Science (B.S.) 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 degree programs (Master of Science in Physics, Master of Science in Applied Physics and Dual-Master Degrees in Physics and Engineering Science) and a Ph.D. degree program in Applied Physics.

Requirements for the Majors in Physics

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. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

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

CHM 1045/1045L General Chemistry I (with lab) or CHM 1040 & CHM 1041 or CHM 1045C or CHM 1045E
 CHM 1046/1046L General Chemistry II (with lab) or CHM 1046C or CHM 1046E

Students must complete the **prerequisite courses** listed below prior to enrolling in upper-division courses as a major. Unless stated otherwise, a grade of "C-" is the minimum acceptable grade.

MAC 2311 Calculus I or MAC X281
 MAC 2312 Calculus II or MAC X282
 MAC 2313 Calculus III or MAC X283
 PHY 2048/2048L General Physics I or PHY 2048C
 PHY 2049/2049L General Physics II or PHY 2049C

Coursework for Majors in Physics

- Physics Courses
 - B.A. PHYSICS (PHY) (34 credit hours)**
 - PHY 2048 General Physics I (3)
 - PHY 2048L General Physics I Lab (1)
 - PHY 2049 General Physics II (3)
 - PHY 2049L General Physics II Lab (1)
 - PHY 3101 Modern Physics (3)
 - PHY 3221 Mechanics I (3)
 - PHY 3822L Intermediate Lab (2)
 - PHY 3323C Electricity and Magnetism I (4)

PHY 4222	Mechanics II	(3)
PHY 4930	Undergraduate Seminar	(1)
PHY 4324C	Electricity and Magnetism II	(4)
PHY 4910	Undergraduate Research	(1-4)
PHY 4823L	Advanced Laboratory	(2)
PHY 4604	Intro. to Quantum Mechanics	(3)

B.S. PHYSICS (44 credit hours)

PHY 2048	General Physics I	(3)
PHY 2048L	General Physics I Lab	(1)
PHY 2049	General Physics II	(3)
PHY 2049L	General Physics II Lab	(1)
PHY 3101	Modern Physics	(3)
PHY 3221	Mechanics I	(3)
PHY 3822L	Intermediate Lab	(2)
PHY 3323C	Electricity and Magnetism I	(4)
PHY 4222	Mechanics II	(3)
PHY 4930	Undergraduate Seminar	(1)
PHY 4324C	Electricity and Magnetism II	(4)
PHY 4604	Intro. Quantum Mechanics	(3)
PHY 4910	Undergraduate Research	(1-4)
PHY 4823L	Advanced Laboratory	(2)
PHY 4523	Statistical Physics*	(3)
PHZ 5405	Solid State Physics I*	(3)

Plus 9 credit hours of Physics electives subject to approval of undergraduate advisor.

2. Required Supporting Courses in Natural Sciences

CHM 2045	General Chemistry I	(3)
CHM 2045L	General Chemistry I Lab	(1)
CHM 2046	General Chemistry II	(3)
CHM 2046L	General Chemistry II Lab	(1)
MAC 2311 or 2281	Calculus I	(4)
MAC 2312 or 2282	Calculus II	(4)
MAC 2313 or 2283	Calculus III	(4)
MAP 2302	Differential Equations	(3)

3. Liberal Arts Requirements

[General Education Requirements (36 credit hours); Exit Requirements (9 credit hours)]

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

4. Free Electives

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

5. Residency Requirement

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

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

A minor in Physics consists of 19 credit hours which includes:

Required Courses

PHY 2048 or 2053	General Physics I	(3)
PHY 2048L or 2053L	General Physics I Lab	(1)
PHY 2049 or 2054	General Physics II	(3)
PHY 2049L or 2054L	General Physics II Lab	(1)
PHY 3101	Modern Physics	(3)
PHY 3822L	Intermediate Lab	(2)

Elective Courses (Pick two from list below)(6 credit hours)

PHY 3221	Mechanics I	(3)
PHY 3323C	Electricity and Magnetism I	(4)
PHY 3424	Optics	(4)
PHY 4604	Intro. Quantum Mechanics	(3)
PHZ 5115	Methods of Theoretical Physics I	(3)
PHZ 5405	Solid States Physics I	(3)

Required Supporting Courses

MAC 2311 or 2281 or 2233	Calculus I	(4)
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Teacher Education Programs

For information concerning the degree programs for secondary school teachers, see College of Education, Department of Secondary Education; for junior college teachers, see USF Graduate Catalog.

• **PSYCHOLOGY (PSY)**

Psychology involves the scientific study of behavior and mental processes. Because of this focus, psychology is relevant to many other areas of study both inside and outside of the social and behavioral sciences. The undergraduate program in Psychology offers the student a well-rounded liberal arts education. In addition, the program provides excellent training for qualified students who wish to pursue graduate work in such disciplines as Clinical, Cognitive and Neural Sciences or Industrial Psychology, Education, Gerontology, Counseling, Management, Medicine, Law, and other human service programs. The undergraduate major emphasizes the breadth of psychology while allowing the student some electives to pursue in depth a particular aspect of the field. Interested undergraduate majors may apply for admission to a concentration in Applied Behavioral Analysis, or to the Honors Program. The graduate faculty of the Psychology Department are divided into three broad program areas: Clinical, Cognitive and Neural Sciences, 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**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. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

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

PSY X012 Introduction to Psychology **and** any other lower level Psychology course within the Psychology inventory

STA XXXX Any level Statistics course (X000 - X099)

BSC XXXX Any level General Biology course (**or** BSC X200-X209, **or** ZOO X010)

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, except for PSY 3044 and PSY 3213, where a C or better is required. Although a C- is allowable for individual courses, a major GPA of 2.0 minimum is required for graduation. All majors must complete:

Other Course Requirements for Psychology Majors

- 2000/3000 Level Requirement (6 semester hours)
 - PSY 2012 Psychological Science I (if not already taken at a community college)
 - PSY 3044 Psychological Science II
- Methods Course Requirement (7 semester hours)
 - PSY 3213 Research Methods
 - and one of the following:
 - CLP 4433 Tests and Measures
 - PSY 4205 Experimental Design and Analysis

or another methods course approved by the undergraduate advisor in Psychology.

3. 4000 Level Requirement (21 semester hours)

Courses in categories 1 and 2 must be completed before any 4000 level courses are attempted. Successful completion of 7 additional Psychology courses numbered at the 4000 level selected as follows: At least two courses from each of the two groups below:

Group I

- EXP 4204C Perception
- EXP 4404 Psychology of Learning
- PSB 4013C Physiological Psychology
- EXP 4304 Motivation
- EXP 4523C Cognitive Psychology

Group II

- CLP 4143 Abnormal Psychology
- INP 4004 Industrial Psychology
- SOP 4004 Social Psychology
- DEP 4005 Developmental Psychology
- PPE 4004 Personality

and any 3 additional courses numbered at the 4000 level.

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

- PSY 4913 Directed Study
- PSY 4970 Honors Thesis.

PSY 4932 may not count toward the major. Nor may EAB 4715 (Supervised Practicum) count towards the major for those in the Applied Behavior Analysis program.

Statistics and Biological Science are required. Otherwise, students majoring in psychology are encouraged to complete a varied undergraduate program.

A prerequisite for all 4000-level courses is a grade of "C" or better in both PSY 3044 and PSY 3213, not "C-". For students minoring in Psychology, a grade of "C" or better in any college-level statistics course will substitute for the PSY 3213.

For students majoring in Interdisciplinary Social Sciences, any college-level statistics course with a grade of "C" or better may serve as prerequisite for 4000 level courses in Psychology but does not substitute for the PSY 3213 requirement.

Requirements for the Minor in Psychology

A minor in Psychology consists of a minimum of 15 credit hours, comprising PSY 2012, PSY 3044, and any three 4000-level psychology courses except PSY 4913. Students minoring in Psychology must also obtain a "C" or better in any college level statistics course in lieu of PSY 3213, or must complete PSY 3213 with a "C" or better. A GPA of 2.0 or better in the minor is required for certification. The purpose of the minor is to help students majoring in other disciplines to obtain an appropriate psychology background that will complement their work in their major. See the Psychology Department Undergraduate Advisor for suggested minor programs for students majoring in various fields.

Concentration in Applied Behavior Analysis

Undergraduate majors working toward the B.A. in psychology may complete a structured sequence of coursework and practicum in Applied Behavior Analysis. Students are admitted to the program in the junior or senior year, after completing EXP 4404, Psychology of Learning and CLP 4414, Behavior Modification with a grade of B or better. Admission requirements further include a minimum overall USF GPA of 3.0 or better, GPA of 3.2 for Psychology coursework, completion of at least 75 hours, and three letters of recommendation. Admissions are made in the fall of each academic year. Successful completion of the concentration prepares students for employment opportunities in a variety of settings, for advanced study in Applied Behavior Analysis, and eligibility

for completion of the Florida Certification Examination for Associate Behavior Analysis. Detailed information regarding the program and the admission process may be obtained from the undergraduate advisor or the program secretary.

PSYCHOLOGY HONORS PROGRAM

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

REHABILITATION AND MENTAL HEALTH COUNSELING (REF)

A five-year master's program is available to undergraduates where an M.A. degree in Rehabilitation and Mental Health 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, including required courses in the undergraduate major, and have satisfied General Education, 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. All applicants must take the GRE whether or not they have a 3.0 grade-point average. A detailed description of the M.A. program in Rehabilitation and Mental Health Counseling may be found in the Graduate Catalog and on the internet at http://www.cas.usf.edu/rehab_counseling/index.html.

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

Mission Statement

The mission of the Department of Rehabilitation and Mental Health Counseling is to promote quality services for individuals with differences in abilities and to help the state meet its human service needs in the areas of rehabilitation and mental health through teaching, research and service.

Objectives

1. To provide students with a sound knowledge of the basic philosophical tenets and relevant historical foundations of rehabilitation and mental health counseling, and to prepare master's level rehabilitation and mental health counselors who adhere to ethical principals, including the belief in human dignity and the right of all individuals to fully participate in society.
2. To prepare master's level rehabilitation and mental health counselors to be critical consumers of information and to encourage participation in and contributions to the expansion of knowledge in the fields of rehabilitation and mental health counseling.

3. To encourage the professional growth and development of master's level rehabilitation and mental health counselors through the promotion of on-going involvement in the rehabilitation community at the local, state, and national levels, and to promote advocacy on behalf of people with differences in abilities.

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 and Mental Health Counseling have roots in both the national rehabilitation movement and professional counseling movement. Training, which includes experiential learning, emphasizes psychological, social, medical, and vocational aspects of disability; and also the development and refinement of personal adjustment and mental health counseling skills. Graduates with an M.A. degree from the USF Department of Rehabilitation and Mental Health 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 and Mental Health 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. The Department offers two, 15-semester hour, graduate certificate programs: (1) Addictions and Substance Abuse Counseling; and (2) Marriage and Family Therapy.

• RELIGIOUS STUDIES (REL)

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

Requirements for the Major in Religious Studies

Recommended 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. If students transfer with 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.

Upper-level Requirements and Coursework for the Religious Studies Major

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

All majors must take

- a. REL 3003 Introduction to Religion (3)
- b. REL 4939 Development of Religious Studies (3)
- c. REL 4931 Seminar in Religion (3)
- d. An additional 27 credit hours chosen from Religious Studies courses. Students are expected to study at least two different religious traditions.

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

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

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

Requirements for the Minor in Religious Studies

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

All minors must take

- a. REL 3003 Introduction to Religion (3)
- b. REL 4939 Development of Religious Studies (3)
- c. An additional 12 credit hours chosen from Religious Studies courses. Students are expected to study at least two different religious traditions.

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

• SOCIAL WORK (SOK)

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

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

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

In preparing the B.S.W. graduate for beginning professional practice, the curriculum provides the student with an opportunity to develop a knowledge base and skill base as a "generalist" practitioner. The student will develop an understanding of various methods of intervention 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 reflection of ethical and effective professional practice. The B.S.W. program, as any professional program, places great emphasis on the development of a professionally responsible graduate in terms of one's obligations to the client system served, the profession itself, the organization in which one works, and to the general public which ultimately provides any profession with legitimacy.

Enrollment in the B.S.W. program is limited. 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 full admission to the B.S.W. program solely on the basis of no available space. Any student applying for full admission to the program should be aware of this possibility.

Additionally, any student who does not maintain a GPA of at least 2.75 in social work courses while enrolled in the B.S.W. program or who clearly does not exhibit responsible professional behavior, may be subject to dismissal from the program. A social work major receiving a grade of less than "C" in a core course will be required to repeat the course. A grade of "C-" is not considered acceptable and a student receiving a "C-" in a core course must repeat the course. Furthermore, no student will be allowed to enter field placement with a "D" grade in any SOW core courses, even if the student's GPA is 2.75 or above with the inclusion of the "D" grade.

Admission to the B.S.W. program is a three-stage process, i.e., common prerequisites, provisional courses, and core curriculum. Any student who holds a minimum of Sophomore standing and is completing common prerequisite work in political science, biology, economics, psychology and sociology (see specific requirements below) may declare a social work major. At this stage, students may file a declaration of major form with the College of Arts and Sciences, Office of Graduate and Undergraduate Studies. All 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 education at USF or in their course of study at a community college. After completion, a student will be ready for courses in the provisional social work major, a final step in applying for full admission to the B.S.W. program as a full major. It is necessary to be admitted as a full major before taking core social work courses.

Admission requirements for the social work full major are as follows:

1. A student must have completed a minimum of one semester as a provisional social work major.
2. A student must have completed required common prerequisites and provisional courses (see listing).
3. A student must complete an application for full admission and file it with the School of Social Work before the beginning of the semester in which admission is sought; dates will be announced in provisional courses.
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 full admission. A grade of "B-" is not acceptable in either "Introduction to Social Work" or "American Social Welfare."
6. A student must have successfully completed CLAST.

A student must achieve a GPA of 2.75 in all Social Work courses to enroll in field placement and subsequently graduate with the B.S.W. degree.

Requirements for the Major in Social Work

Prerequisites (State Mandated Common Prerequisites)

Social Work 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. If students transfer with 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.

If possible, students enrolled in community colleges should take their college equivalents of common prerequisite courses (P) and cross-cultural provisional course (P*) before entering USF. All courses must be passed with a "C" or better. A grade of "C-" is not acceptable as a passing grade in any of the common prerequisite courses or the cross-cultural course.

SOW 3302 Introduction to Social Work and SOW 3203 American Social Welfare must be taken at USF or another accredited institution and must be completed, earning a grade of "B" or better. A grade of "B-" is not acceptable as a passing grade for either course.

State Mandated Common Prerequisite Courses (P)

A student must successfully complete the following courses, by earning a "C" or better. A grade of "C-" is not acceptable as a passing grade.

One course in each of the following cognate areas	
XXX XXXX American Government (American National Government or American Government)	(3)
XXX XXXX Biology (Human Biology or Anatomy & Physiology)	(3)
ECO XXXX Economics (Microeconomics or Macroeconomics)	(3)
XXX XXXX Introductory Psychology	(3)
XXX XXXX Introductory Sociology/Social Problems	(3)

At USF, the following courses are recommended to meet this requirement (one course in each area):

American Government

POS 2041 American National Government	(3)
POS 2112 State and Local Government and Politics	(3)
POS 3182 Florida Politics and Government	(3)

Biology

BSC 2022 Biology of Aging	(3)
BSC 2025 Food: Personal & Global Perspectives	(3)
BSC 2035 Sex and Today's World	(3)
BSC 1005 Principles of Biology for Non-majors	(3)
WST 2600 Human Sexual Behavior	(3)

Economics:

ECO 1000 Basic Economics	(3)
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Psychology:

PSY 2012 Psychological Science I	(3)
PSY 3044 Experimental Psychology	(3)
CLP 3003 Psychology of Adjustment	(3)

Sociology:

SYG 2000 Introduction to Sociology	(3)
SYG 2010 Contemporary Social Problems	(3)
SYG 4800 Gender and Society	(3)
SYP 3000 Social Psychology	(3)
SYO 3530 Poverty, Inequality, and Stratification	(3)
SYP 4510 Sociological Aspects of Deviance	(3)

Foundation Courses (P*) for Provisional Social Work Majors (May be completed after transferring to USF).

1. A student must successfully complete by earning a "C" or better one of the following cross cultural courses or equivalency. A grade of "C-" is not acceptable as a passing grade for any of the following courses.

African American Studies:

AFA 2000 Introduction to the Black Experience	(3)
AFA 4331 Social Institutions and the African-American Community	(3)
AFA 4335 Black Women in America	(3)
AFS 2250 Culture and Society in Africa	(3)
AMS 3700 Racism in American Society	(3)
PUP 3313 Blacks in the American Political Process	(3)

Anthropology:

ANT 2000 Introduction to Anthropology	(3)
ANT 3005 The Anthropological Perspective	(3)
ANT 2410 Cultural Anthropology	(3)
ANT 4316 Ethnic Diversity in the USA	(3)
ANT 4432 The Individual and Culture	(3)

Sociology:

SYD 3700 Racial and Ethnic Relations	(3)
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Women's Studies:

WST 3015 Introduction to Women's Studies	(3)
SOP 3742 Psychology of Women	(3)
PUP 4323 Women and Politics	(3)
WST 3011 Issues in Feminism	(3)
AMH 3561 American Women I	(4)
AMH 3562 American Women II	(4)
WST 4262 Literature by American Women of Color	(3)
LIT 3383 The Image of Women in Literature	(3)
WST 4263 Third World Women Writers	(3)

2. Both of the following Social Work courses, earning a "B" or better:

SOW 3203 American Social Welfare System	(3)
SOW 3302 Introduction to Social Work	(3)

Social Work Core Courses

- Human Behavior and Social Environment Courses
SOW 3101 (4) SOW 3102 (4)
- Social Welfare: Policy & Program Course
SOW 4233 (4)
- Social Research Course
SOW 3401 (4)
- Social Work Practice Courses
SOW 4341 (5) SOW 4343 (5)

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

• SOCIOLOGY (SOC)

Sociology is the study of social life and the social causes and consequences of human behavior. Sociologists investigate the structure of groups, organizations, and societies. Because all human behavior is social, the subject matter of sociology ranges from intimate families to hostile mobs; from crime to religion; from the divisions of race, gender, and social class to the shared beliefs of a common culture; from the sociology of work to the sociology of emotions.

The Sociology major is designed to provide students with a broad liberal arts education and a greater understanding and insight into the social systems and processes that bear upon everyday lives. Opportunities for students with Bachelor's degrees in Sociology are quite varied. Some go on to work for human service agencies; others work in personnel, criminal justice, and urban planning; others enter graduate programs in sociology, education, law, medicine, or social work. Toward these ends, all students are encouraged to become skilled in the use of computers and libraries.

Requirements for the Major in Sociology**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. If students transfer with 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 3015 Introduction to Women's Studies	(3)

Specific Coursework in the Sociology Major

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 Social Science Statistics or its equivalent)
 SYA 4935 Senior Seminar (Students earning a grade less than "C" in this course must take an additional course in Sociology. In that event, the minimum number of Sociology credits is 39)

The remaining 24 hours of sociology coursework may be comprised of any of the courses offered by the Sociology department **with the exception of SYG 2412, "Marriage."** This course counts toward the total number of hours needed to graduate but it does not count toward the minimum number of sociology hours needed for the major. No more than three hours of SYA4910, Individual Research may count toward the 36 hour minimum

Students are encouraged to make an appointment to talk with the Sociology Department Undergraduate Advisor when they have questions about major requirements or about which electives offered each semester would best meet their educational and career goals.

Requirements for the Minor in Sociology

A minor in Sociology consists of a minimum of 18 credit hours in Sociology, at least 12 of which must be USF credits. Minors must take SYG 2000 Introduction to Sociology and SYA 3010 Classical Theory. No more than three hours of SYA 4910 "Individual Research" may count toward the 18 hour minimum; SYG 2412 "Marriage" does not count toward the total number of minimum hours for the minor. Only courses in which a grade of "C" or better is attained will count toward the minimum hours.

While students do not declare a Sociology minor until application for graduation, they are encouraged to make an appointment with the Sociology Department Undergraduate Advisor if they wish to discuss which Sociology electives offered each semester would best meet their educational and career goals.

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, a student is not admitted to the program without the confidence of faculty in his or her ability to complete the program. The rewards upon successful completion of the program include advanced training in research design, data collection, analysis, and scholarly writing—all experiences beyond those normally given to sociology majors. 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. Upon successful completion of the Honors Program requirements, the student's transcript will state that the student graduated with Honors in Sociology.

Requirements for Admission to the Honors Program

- 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
- An overall Grade Point Average of 3.2 or higher.
- Completion of at least 72 semester hours by the start of the program in Semester I.
- 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 s/he will be able to enroll in the class. If at all possible, this course should be in Sociology, although, in some instances, the director may approve a course outside the department.

- 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.

• WOMEN'S STUDIES (WST)

Women's Studies at the University of South Florida offers an interdisciplinary field of study that features and critically examines women's experiences, taking into consideration historical, cultural, racial, class, and other differences. The department offers a B.A., a minor in Women's Studies, and a concentration in Women of Color Studies, as well as enhancing knowledge about feminisms and gender studies through teaching, emphasis on multiculturalism and diversity, the department focuses on critical thinking, collaborative learning, and personal empowerment.

Women's Studies offers excellent undergraduate preparation as well for

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

Those who want to focus on women in specific disciplines or professions; and

Those whose training would benefit from a close scrutiny of the major issues facing women today.

Requirements for the Major in Women's Studies

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. If students transfer with 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.

No State Mandated Common Prerequisites are required for this degree program. However, during the program of study at the community college students should begin to satisfy General Education/Gordon Rule requirements, take WST 3015, "Introduction to Women's Studies," or other introductory courses in the Social Sciences and Liberal Arts. Courses to help students with reading and writing skills are helpful as well. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

Upper-level Coursework for Women's Studies Majors

Each major must complete 36 hours distributed as follows:

- Required Core Courses (15 hours)
 - WST 3311 Issues in Feminism (3)
 - WST 4310 History of Feminism in the U.S. (3)
 - WST 4522 Classics in Feminist Theory (3)
 - WST 4935 Capstone/Senior Project (3)

AFA 4335 Black Women in America OR
 WST 4262 Literature by Women of Color in
 the Diaspora (3)

II. Select 21 credit hours from the following list, noting prerequisites where applicable :

WST 2250 The Female Experience in America (3)
 WST 3210 European Feminist History:
 Pre-18th Century (3)
 WST 3220 European Feminist History:
 18th Century to Present (3)
 WST 3225 Women, Environment and Gender (3)
 WST 3440 Women and Social Action (3)
 WST 4260 Research Issues on Women of Color (3)
 WST 4410 Third World Women Writers (3)
 WST 4335 Women and Film (3)
 WST 4320 Politics and Issues in Women's Health (3)
 WST 4350 Women and Science (3)
 WST 4560 Contemporary Feminist Theory (3)
 PHI 4632 Feminist Ethics (3)
 POS 4693 Women and Law I (3)
 POS 4694 Women and Law II (3)
 WST 4900 Directed Readings
 WST 4910 Directed Research
 WST 4930 Selected Topics
(Limit to 6 credits from the following courses)
 AMH 3561 American Women I (4)
 AMH 3562 American Women II (4)
 AMS 3370 Southern Women: Myth and Reality (3)
 COM 4030 Women and Communication (3)
 POS 4323 Women and Politics (3)
 REL 3145 Women and Religion (3)
 SOP 3742 Psychology of Women (3)
 SPT 2524 Women Writers of Latin America
 WST 2600 Human Sexual Behavior (3)
 WST 3015 Introduction to Women's Studies (3)

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

Minor in Women's Studies

A student wishing to minor in Women's Studies will be required to take six courses:

Required:

WST 3015

or

WST 3311

Electives:

Plus 15 credit hours 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.

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 Black Women in America (3)
 WST 4260 Research Issues on Women of Color (3)
 WST 4930 Selected Topics (1-4)
 ANT 4302 Gender in Cross-Cultural Perspective (3)

WST 4262 Literature by American Women of Color (3)
 WST 3412 Women in the Developing World (3)
 WST 4410 Third World Women Writers (3)

• WORLD LANGUAGE EDUCATION

The Department of World Language Education 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 (CLS)

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

Requirements for the Major in Classics

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. 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.

To complete a major in Classics, 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.

Upper-Level Coursework for the Classics Major

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 Latin (LAT or LNW) or in Greek (GRE and GRW), which must include or presuppose LAT 2200 or GRE 2200. 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 Greek or Latin 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 3.3.
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 3.3 or above.
2. Acceptance of a Senior Thesis by a committee of faculty members in the Department.
3. A grade of "A" on a sight translation from a Latin or Greek author.
4. Successful completion of an upper-level Greek or Latin course designated as an Honors Seminar.

**Requirements for the Major in
Interdisciplinary Classical Civilizations
(ICC)**

Interdisciplinary Classical Civilizations is a broad-based area study encompassing the literature, history, linguistics, art and archaeology, philosophy, and religion of Greece, Rome and the Near East from pre-history to late antiquity. For centuries, the study of these vibrant societies has been recognized as essential to a proper understanding of our own culture and, recently, there has been a renewed recognition of the skills such study develops.

All students wishing to enroll in the ICC major must schedule an appointment with the Coordinator of Interdisciplinary Classical Civilizations in order to develop a program of study. Students will be urged to fulfill their General Education and University Exit Requirements, whenever possible, from courses taught within the Classical Civilizations Program. Courses that are applied toward the Gen. Ed. or "Core" Requirements cannot be utilized more than once. The BA language requirement should be fulfilled by the two-semester sequence in either Greek or Latin (GRE 1120 & 1121 or LAT 1120 & 1121).

The ICC Major can be fulfilled one of two ways:

- A. The ICC Major (33 hours minimum) is intended for students who wish to become familiar with aspects of the Classical heritage of Western Civilization.
- B. The ICC Major with Honors (39 hours minimum) is intended for students who wish to continue their studies beyond the undergraduate level and includes a thesis (3 hrs.). The student must also maintain a 3.5 GPA within the major and a 3.3 overall GPA.

A. Requirements of the ICC Major (33 hours minimum)

1. 12 hours from the ICC "Core"

CLA 3103	Greek Civilization	(3)
or		
CLT 3101	Greek Literature in Translation	(3)
or		
CLA 3123	Roman Civilization	(3)
or		
CLT 3102	Roman Literature in Translation	(3)
HIS 3930	Classical Archaeology	(3)
or		
ANT 3101	Archaeology	(3)
or		
REL 3280	Biblical Archaeology	(3)
and		
CLT 3330	Classical Mythology	(3)

2. 18 hours (minimum) from the ICC "Fields."
Two (2) courses from an approved list of 2000 to 3000 level courses in Anthropology, Classics, History, Philosophy, or Religious Studies

Four (4) courses from an approved list of 3000 to 4000 level courses in Anthropology, Classics, History, Philosophy, or Religious Studies

3. 3-4 hours from an approved list of 4000 level Exit Requirement courses in Anthropology, Classics, History, Philosophy, or Religious Studies

B. Requirements of the ICC Major with Honors (39 hours minimum):

1. 12 hours from the ICC "Core"

CLA 31043	Greek Civilization	(3)
or		
CLT 3101	Greek Literature in Translation	(3)
CLA 3123	Roman Civilization	(3)
or		
CLT 3102	Roman Literature in Translation	(3)
HIS 3930	Classical Archaeology	(3)
or		
ANT 3101	Archaeology	(3)
or		
REL 3280	Biblical Archaeology	(3)
and		
CLT 3330	Classical Mythology	(3)
2. 12 hours beyond the BA Language Requirement in either Greek or Latin.
Competence in one or two ancient languages for 5 semesters of coursework is required. Courses must be taken with the approval of the Coordinator.
3. 12-16 hours from the Major Field Requirements.
Major Fields are currently defined in Ancient History, Philosophy and Religious Studies. The student will select four courses in the Major Field area with the approval of the Coordinator. The student must take at least one exit level course in the Major Field he/she chooses.
4. 3 hours of Faculty Mentored Research.
The student will complete a research project under the direction of a faculty committee composed of a faculty mentor and at least two additional faculty members. The project is intended to produce a substantial research paper that can serve as a writing sample when the student applies for advanced graduate study.
5. Maintenance of a 3.5 GPA within the major and a 3.3 overall GPA.

**Requirements for the Minor in
Interdisciplinary Classical Civilizations
(ICC)**

The ICC Minor (15 hours minimum) can be fulfilled in one of two ways:

A. Courses are divided by level, with the "field" of study unrestricted.

1. Two courses (6 hrs.) from the ICC Minor "Core"

· Either	CLA 3103	Greek Civilization	(3)
	or		
	CLT 3101	Greek Literature in Translation	(3)
· Either	CLA 3123	Roman Civilization	(3)
	or		
	CLT 3102	Roman Literature in Translation	(3)
·	CLT 3330	Classical Mythology	(3)
2. 3-4 hrs. from 2000-3000 level courses in Anthropology, History, Philosophy and Religious Studies selected with the guidance and approval of the Coordinator.

3. 6-8 hrs. from 3000-4000 level courses in Anthropology, History, Philosophy and Religious Studies selected with the guidance and approval of the Coordinator.

B. Courses are organized along an interdisciplinary principle.

1. Two courses (6 hrs.) from the ICC Minor "Core"
- Either
 - CLA 3103 Greek Civilization (3)
 - or
 - CLT 3101 Greek Literature in Translation (3)
 - Either
 - CLA 3123 Roman Civilization (3)
 - or
 - CLT 3102 Roman Literature in Translation (3)
 - CLT 3330 Classical Mythology (3)
2. 9-12 hrs. from the Interdisciplinary Requirements. The student will complete three 3-4 credit courses, one each from three of the following four fields: (1) Anthropology, (2) History, (3) Philosophy, (4) Religious Studies. Courses are chosen with the guidance and approval of the Coordinator from the list certified for the major.

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 in Linguistics

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 4671 (3)	LIN 4710 (3)
SPA 3004 (3)	SPA 3112 (3)	SPC 3210 (3)
SPC 3212 (3)	SPC 3712 (3)	

MODERN LANGUAGES (FRE/GER/GRK/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, Russian, and Spanish. All major programs in foreign language require a total of 32 hours of coursework above the intermediate level. French and Spanish majors with an International Studies and Business Concentration require a total of 63 hours of coursework distributed in the three areas.

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

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Community College:

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

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

Upper-level Coursework Required for Each of the Following Modern Language Majors

• **FRENCH (FRE)**

Required courses for the major (15 credit hours)

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 credit hours)

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

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

• **FRENCH (FRE) WITH AN INTERNATIONAL STUDIES AND BUSINESS CONCENTRATION**

Required courses in French for the major (15 credit hours)

FRE 2240 (3)	FRE 3230 (3)
FRE 3420 (3)	FRE 3440 (3)
FRE 3500 (3)	

Supporting courses in French required for the major (9 credit hours)

Choose from the list below:

FRE 4421 (3)	FRE 4700 (3)
FRE 4930 French for Business II (3)	
FRE 4930 French Phonetics (3)	
FRE 5425 (3)	FRE 5566 (3)
FRW 4100 (3)	FRW 4101 (3)

Required courses in International Studies (9 credit hours)

CPO 2002 (3)	EUS 3000 (3)
CPO 4930 Comparative Government & Politics (3)	

Required courses in Business (18 credit hours)

ACG 3074 (3)	ECO 1000 (3)
MAN 3025 (3)	MAR 3023 (3)
FIN 3403 (3)	Capstone Course (3)

Supporting courses in Business for the major (6 credit hours)

Choose any 2 upper-level international business courses.

Required overseas study courses &/or area studies courses (6 credit hours)

Select 6 overseas study credit hours or 3 credit hours overseas study plus 3 credit hours area studies courses planned with the advisor.

- **GERMAN (GER)**

Requirements for the major (14 credit hours)

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 credit hours)

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 credit hours)

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

- **ITALIAN (ITA)**

Required courses for the major (15 credit hours)

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

Supporting courses required for the major

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

Required courses for the minor (7 credit hours)

ITA 2240 (4) ITA 3420 (3)

Supporting courses required for the minor

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

- **RUSSIAN (RUS)**

Required courses for the major (14 credit hours)

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 credit hours)

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 credit hours)

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

SPN 3300 (3)

Supporting courses required for the minor

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

- **SPANISH (SPA) WITH AN INTERNATIONAL STUDIES AND BUSINESS CONCENTRATION**

Required courses in Spanish for the major (15 credit hours)

SPN 3300 (3) SPN 3440 (3)
SPN 3500 (3) SPN 3520 (3)
SPN 4410 (3)

Supporting courses in Spanish required for the major (9 credit hours)

Choose from the list below:

SPN 3441 (3) SPN 4301 (3)
SPN 4700 (3) SPW 3030 (3)
SPW 4100 (3) SPW 4101(3)
SPW 4131 (3)

Required courses in International Studies (9 credit hours)

CPO 2002 (3) INR 1015 (3)
CPO 4930 Comparative Government & Politics (3)

Required courses in Business (18 credit hours)

ACG 3074 (3) ECO 1000 (3)
MAN 3025 (3) MAR 3023 (3)
FIN 3403 (3) Capstone Course (3)

Supporting courses in Business for the major (6 credit hours)

Choose any 2 upper-level international business courses.

Required overseas study courses and/or area studies courses (6 credit hours)

Select 6 overseas study credit hours or 3 credit hours overseas study plus 3 credit hours area studies courses planned with the advisor.

- **TRACK IN INTERNATIONAL STUDIES (LATIN AMERICA) WITH A LANGUAGE (SPANISH) AND BUSINESS CONCENTRATION**

Required International Studies courses (15 credit hours)

CPO 2002 (3) INR 1015 (3)
CPO 4930 (3) INR 3038 (3)
INR 2002 (3)

International Studies electives (3 credit hours)

Choose from the list below:

INR 3018 (3) POT 4109 (3)
INR 3202 (3)

Required courses in Spanish (12 credit hours)

SPN 2241 (3) SPN 3500 (3)
SPN 3300 (3) SPN 3520 (3)
SPN 3340 (3)

Required courses in Business for the major (18 credit hours)

ACG 3074 (3) FIN 3403 (3)
ECO 1000 (3) MAR 3023 (3)
MAN 3025 (3) Capstone Course (3)

Supporting courses in Business for the major (6 credit hours)

Choose any two upper-level international business courses

Required overseas study courses & area studies courses (9 credit hours)

Select 3 overseas study credit hours or 3 credit hours overseas plus 6 credits area studies planned with an advisor (2 courses from International Studies or other departments).

STUDENT ORGANIZATIONS IN THE COLLEGE OF ARTS AND SCIENCES

Alpha Epsilon Delta (AED) - National Premedical Honor Society - Open to all USF students with an interest in health professions. To be inducted into the national honorary, students must have 3.0 overall GPA and science GPA with a minimum of 3 semesters of college work completed, including one semester at USF. Students do not need to be in the national honorary in order to participate in the chapter at USF. For further information please go to www.ctr.usf.edu/aed.

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. For further information please call (813) 974-6217.

American Chemical Society Student Affiliate - To enhance the students' knowledge of chemistry and chemistry related fields. For further information please contact Dr. Stanko, (813) 974-2144, SCA 411.

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. For further information please call (813) 974-6217.

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. For further information please go to welcome.to/premedAMSA.

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. For further information please call the Department Office at 813-974-0783.

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. For further information please go to BEH 201 or call 813-974-6957.

Arts and Sciences Honor Society - To recognize high academic achievement by students in the College of Arts and Sciences. Membership is by invitation. One induction is held each year during the fall semester. For further information, check the ASHS web site at <http://nosferatu.cas.usf.edu/~poonkase> or call 874-6957.

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. For further information please contact Project Thrust advisor in BEH 201.

Colloquia in Literature and Linguistics - Provides a stimulating environment in which graduate students in French, Spanish, and Linguistics can share and expand their scholarly endeavors. Sponsors guest lectures. For further information please go to CPR 419.

Communication Council - To encourage and promote extra-curricular learning as well as social interaction among communication majors and minors. For further information please go to CIS 3058.

Economics Club - To promote and develop the application of economic concepts within the student body and provide a social basis for interaction. For further information go to the club website at www.coba.usf.edu/departments/economics.

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. For further information please go to CPR 419.

Gamma Theta Upsilon (GTU) - An international honor society in geography. The purposes of GTU are: to further professional interest in geography by affording a common organization for those interested in the field; to strengthen student and professional training through academic experiences in addition to those of the classroom and laboratory; to encourage student research of high quality.

Geography Club - To foster understanding of and stimulate interest in the discipline of Geography and its subfields. For further information please go to SOC 305.

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. For further information please contact Dr. Jeff Ryan, SCA 507; Undergraduate Advising Office, CHE 306; or Geology Web Page @ www.cas.usf.edu/geology/

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. For further information please go to CPR 419.

HOSA - Health Occupations Students of America (HOSA) is a national organization which supplements 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. For further information please go to ctr.usf.edu/hosa.

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. For further information please go to SOC 373.

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. For further information please go to CPR 419.

Legal Brief - To publish an annual law journal devoted to the exploration of legal issues through articles, interviews and practice experiences. For further information please go to SOC 352.

Marine and Life Sciences Club - To foster student interests in the environment and ecological systems. Field trips and volunteer activities.

Microbiology Club - To enhance students' interests in microbiology and to provide opportunities to learn more about the certification processes necessary for professional careers in the field. Contact Dr. Valerie Harwood for more information.

Minority Preprofessional and Science Society - The objectives of the Society are to promote minority student interest in careers in the natural sciences and the health professions and to 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 go to ctr.usf.edu/mpss or contact Project Thrust Advisor, Science Advising Center, BEH 339.

NASW Sub Unit (National Assoc. of Social Workers) - To be a subunit of the National Association of Social Workers, and to provide a social/educational/philanthropic organization for the School of Social Work students. For further information please go to MGY 132.

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.

Pi 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. For further information please go to PHY 342.

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. For further information please go to SOC 352.

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. For further information please go to www.cas.usf.edu/sac/studsoc.html.

Pre-Optometry Society - This new society will provide students an opportunity to learn more about the profession of optometry and to meet other students interested in the profession. Any interested student is invited to join. For further information please go to www.cas.usf.edu/sac/studsoc.html.

Pre-Veterinary Society - USF Preveterinary Society provides fellowship and exchange among students interested in veterinary medicine, animal science and/or research. Membership is open to students from USF and other local colleges who wish to participate in a variety of activities which will enhance their knowledge in animal science. Activities have included tours at EPCOT - the Land of the Seas, Sea World, Lowry Park Zoo, an ostrich farm, and University of Florida College of Veterinary Medicine. Students meet a variety of specialists in the area. For further information please go to www.cas.usf.edu/sac/studsoc.html.

Psi Chi - Psi Chi is the National Honor Society in Psychology, founded in 1929 for the purposes of encouraging, stimulating, and maintaining excellence in scholarship, and advancing the science of psychology. Membership is open to graduate and undergraduate men and women who meet the minimum qualifications. Psi Chi is a member of the Association of College Honor Societies and is an affiliate of the American Psychological Association and the American Psychological Society.

Sigma Gamma Epsilon - To recognize and promote academic and professional excellence in the Earth Sciences.

Student Broadcasting Association - To give students with an interest in television/radio journalism hands-on experience and the opportunity to produce a news program for public access television. For further information please go to CIS 3005.

Student Chapter of the Mathematical Association of America - A club for students who enjoy doing, discussing and learning mathematics. For further information please go to PHY 342.

Student Society for Technical Communication-SSTC - offers students scholarships, publication competitions, internship opportunities, resume and computer workshops and networking socials with local professionals who are established in the field. For further information please go to CTR 2419.

University Psychology Association - The purpose of this organization shall be to foster understanding and stimulate interest in the discipline of Psychology and its sub fields. University Psychology Association is open to all USF students interested in the field of Psychology.

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

Chairperson: Trevor W. Purcell; *Associate Professors:* K. R. Glover, D. G. Plant, T. W. Purcell, Cheryl R. Rodriguez; *Assistant Professor:* D. Turner; *Other Faculty:* D. Blell, C. Heglar, N. James, R. Kaplan, F. U. Ohaegbulam, L. W. Morehouse, P. J. Collins, K. Davis, S. Garcia, M. Mitchell, H. Regis, G. Rodman, A. A. Smith, E. Snow, S. M. D. Stamps, D. Thomas, B. Townsend, K. Vaz, K. Wiredu.

Anthropology

Chairperson: L. Whiteford; *Distinguished Service Professor:* A. Wolfe; *Professors:* M. Angrosino, R. Baer, E. Bird, K. Borman, S. Greenbaum, J. Sokolovsky, N. White, L. Whiteford, C. Wienker; *Associate Professors:* L. Madrigal, T. Purcell, R. Tykot, J. Smith, B. Weisman, K. Yelvington; *Assistant Professors:* D. Himmelgreen, N. Romero-Daza; *Courtesy Faculty:* C. Bryant, J. Coreil, M. Hernandez, S. Hodges, E. Onjoro, D. Rosenberg, M. Vesperi, B. Ward.

Bachelor of Independent Studies

Director: B. Cochrane; *Associate Director:* K. Archer; *Area Coordinators:* W. Heim (BIS Humanities), R. Wheeler (BIS Social & Behavioral Sciences), TBA (BIS Natural Sciences).

Biology

Chairperson: S. K. Pierce; *Distinguished Research Professor:* C. J. Dawes; *Professors:* M. R. Alvarez, G. W. Arendash, S. S. Bell, B. J. Cochrane, B. C. Cowell, G. W. Hirsch, J. M. Lawrence, D. V. Lim, R. L. Mansell, E. D. McCoy, P. J. Motta, H. R. Mushinsky, J. T. Romeo, J. L. Simon, D. T. TeStrake, R. P. Wunderlin; *Associate Professors:* M. L. Dao, F. I. Eilers, F. B. Essig, J. R. Garey, S. A. Karl, B. Livingston, R. Pollenz, M. J. Saunders, P. D. Stiling; *Assistant Professors:* A. C. Cannons, G. A. Fox, V. Harwood, G. Huxel, M. Kimble, J. M. Lindzey, F. Thomas; *Instructors:* S. J. Connor, P. Goldberg, J. El-Rady.

Chemistry

Chairperson: M. Zaworotko; *Emeritus Professors:* J. C. Davis, Jr., J. E. Fernandez, L. Mandell, T. C. Owen, B. Stevens; *Distinguished Service Professor:* D. F. Martin; *Professors:* J. Binford, R. S. Braman, S. H. Grossman, M. D. Johnston, Jr., G. G. Meisels, R. M. O'Malley, R. Potter, J. Worrell; *Associate Professors:* B. J. Baker, J. P. Harmon, R. W. Larsen, A. Malik, D. J. Merkler, L.-J. Ming, J. Palmer, B. Space, J. A. Stanko, E. Turos, J. E. Weinzierl; *Assistant Professors:* M. Acevedo-Duncan, K. S. Bisht, K. W. Jung, J. Lewis; *Research Assistant Professor:* G. R. Baker; *Academic Administrator:* A. S. Zektzer; *Visiting Faculty:* J. Osegovic, E. Perez, M. Raissian, R. Sarma; *Retired Faculty:* F. Dudley, G. R. Jurch, P. C. Maybury, E. D. Olsen, G. Solomons, G. Wenzinger, R. Whitaker.

Communication

Chairperson: E. Eisenberg; *Professors:* A. P. Bochner, K. N. Cissna, E. M. Eisenberg, C. S. Ellis, L.S. Pettegrew; *Associate Professors:* E. E. Bell, B. F. Downs, C. J. Jablonski, N.C. James, M. Neumann, A. D. Payne, F. Steier; *Assistant Professors:* M. Chvasta, S. Holman-Jones, J. Jorgenson, G. Rodman; *Courtesy Faculty:* M. Myerson.

Communication Sciences and Disorders

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