

1-1-2008

## Accent on Learning, 2008-2009

University of South Florida

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# ACCENT ON LEARNING

## UNDERGRADUATE CATALOG

### OF THE

## UNIVERSITY OF SOUTH FLORIDA

### 2008-2009



Tampa Campus  
4202 Fowler Avenue  
Tampa, Florida 33620  
Telephone: (813) 974-2011  
<http://www.usf.edu/>

Lakeland Campus  
3433 Winter Lake Road  
Lakeland, Florida 33803  
Telephone: (863) 667-7000  
<http://www.lkln.d.usf.edu/>

USF St. Petersburg  
140 Seventh Avenue South  
St. Petersburg, Florida 33701  
Telephone: (727) 553-4873  
<http://www.stpt.usf.edu/>

Sarasota Campus  
5700 N. Tamiami Trail  
Sarasota, Florida 34243-2197  
Telephone: (941) 359-4200  
<http://www.sarasota.usf.edu/>

*The announcements, information, policies, rules, regulations, and procedures set forth in this Catalog are for information only and are subject to continual review and change without notice.*

*The University of South Florida is committed to the principles of equal education, equal access, and equal employment opportunities without regard to race, color, marital status, sex, religion, national origin, disability, age, or Vietnam or disabled veteran status as provided by law and in accordance with the University's respect for personal dignity. These principles are applied in the conduct of University programs and activities and the provision of facilities and services.*

Prospective students and other interested persons are invited to visit the University campuses. Most University offices receive visitors from 9:00 a.m.-5:00 p.m., Monday through Friday.

Prospective freshmen are encouraged to attend USF PREVIEW. This program, held on the Tampa Campus, is designed to acquaint participants with USF admission, financial aid, housing, annual costs, academics and student life. USF PREVIEW information is available from the Office of Admissions in Tampa.

The Tampa Campus of the University is located on Fowler Avenue (State Road 582) approximately two miles east of Interstate 275 and Nebraska Avenue (U.S. Route 41) and seven miles north of Interstate 4 off I-75.

The other campuses of the University are located in the places noted below.

## Communicating With The University

Communications regarding the services and programs listed below should be directed by letter or by phone to the appropriate office on the Tampa, St. Petersburg, Lakeland, or Sarasota campuses. Mailing addresses and general telephone numbers for the campuses are given on the previous page. The offices listed below (on the Tampa Campus unless otherwise indicated) may be dialed direct at the telephone numbers shown.

### Academic Advising (for Undeclared and Undecided Students)

Transitional Advising Center (TRAC), SVC 2011 974-2645  
<http://www.ugs.usf.edu/trac/trac.htm>

### Academic Advising (for upperclassmen)

Arts & Sciences, BEH 201 974-6957  
<http://www.cas.usf.edu/>  
 Business Admin., BSN 2102 974-4290  
<http://www.coba.usf.edu/services/ugrad/index.html>  
 Education, EDU 106 974-1804  
<http://www.coedu.usf.edu/main/sas/sas.html>  
 Engineering, ENC 1302 974-2684  
<http://www2.eng.usf.edu/ugadvising/>  
 Nursing, MDC 22 974-2191  
[http://health.usf.edu/nocms/nursing/Admissions\\_&FinancialAid.html](http://health.usf.edu/nocms/nursing/Admissions_&FinancialAid.html)  
 Visual and Performing Arts, FAH 120 974-3660  
<http://advising.arts.usf.edu/>

### Academic Support and Accommodations for Students with Disabilities

Coordinator, SVC 1133 (voice) 974-4309  
 (TDD) 974-5651

<http://www.asasd.usf.edu/>

### Applications and Admissions

Office of Admissions, SVC 1036 974-3350  
<http://usfweb2.usf.edu/admissions/>

### Athletics (Intercollegiate)

Director of Athletics, ATH 100 974-2125  
<http://www.gousfbulls.com/>

### Career Development

Counseling Center for Human Development, SVC 2124 974-2831  
<http://usfweb2.usf.edu/counsel/>

### Career Center

Cooperative Education Program, SVC 2088 974-2171  
 Career/Job Search Assistance, SVC 2088 974-2171  
<http://www.career.usf.edu/>

### College Level Examination Program (CLEP tests)

USF Testing Services, SVC 2060 974-2741  
<http://www.outreach.usf.edu/conted/testing/Details.asp?rcode=CLEP>

### Continuing Education Courses and Conferences

Continuing Education, NEC 116 974-2403  
<http://www.outreach.usf.edu/conted/>

### Counseling

Counseling Center for Human Development, SVC 2124 974-2831  
<http://usfweb2.usf.edu/counsel/>

### Educational Outreach

Administration, SVC 1072 974-7984  
<http://www.outreach.usf.edu/>

### English Language Institute

CPR 107 974-3433  
<http://www.eli.usf.edu/>

### Financial Assistance (scholarships, loans, employment)

Office of Financial Aid, SVC 1102 974-4700  
<http://usfweb2.usf.edu/finaid/>

### Graduate School

Office of the Dean, BEH 304 974-2846  
<http://www.grad.usf.edu/newsite/main.asp>

### Health Services (Student)

Health Center, SHS 100 974-2331  
<http://www.shs.usf.edu/>

### Honors College

Office of the Dean, SVC 1088 974-3087

<http://honors.usf.edu/index.asp>

### Housing: Campus Residence Halls

Office of Residence Life, RAR 229 974-0001  
 Office of Housing, RAR 229 974-0001  
<http://www.housing.usf.edu/>

### Housing: Off-Campus

Student Resource Agency Student Government, MC 240 974-7613

### International Student and Scholar Services

Office of the Advisor, CPR 469 974-5102  
<http://cyber.acomp.usf.edu/iac/iss/>

### Library Resources

Tampa Campus:  
 Circulation (813) 974-1611  
 Reference (813) 974-2729  
<http://www.lib.usf.edu/>

St. Petersburg Campus:

Circulation (727) 873-4405  
 Reference (727) 873-4124  
<http://www.nelson.usf.edu/mainpage/index.html>

Sarasota Campus:

Circulation (941) 487-4300  
 Reference (941) 487-4301  
<http://lib.sar.usf.edu>

Lakeland Campus: PCC/USF Library

<http://www.lakeland.usf.edu/library> (863) 667-7817

### Orientation

Office of the Director, SVC 2049 974-3060  
<http://usfweb2.usf.edu/orientation/>

### Parking and Transportation Services

Parking Services, PSB 101 974-3990  
[http://usfweb2.usf.edu/parking\\_services/default.asp](http://usfweb2.usf.edu/parking_services/default.asp)

### Pre-Admission Advising for Prospective Freshman, International, Mature, Minority, and Transfer Students

Office of Admissions, SVC 1036 974-3350  
<http://usfweb2.usf.edu/admissions/counselors.htm>

### Reading Study Skills

Student Learning Commons, LIB 206 974-9281  
<http://www.ugs.usf.edu/SLC/>

### Records, Registration

Office of the Registrar, SVC 1034 974-2000  
<http://www.registrar.usf.edu/>

### Student Affairs

Office of the Vice President, ADM 151 974-5533  
<http://www.sa.usf.edu/>

### Student Learning Commons (Tutoring and Learning Services)

Office of the Director, LIB 206 974-9281  
<http://www.ugs.usf.edu/SLC/>

### Transcripts USF

Office of the Registrar, SVC 1034 974-2000

### Tuition Waiver For Senior Citizens

Osher Lifelong Learning Institute, NEC 116 974-2403  
<http://www.outreach.usf.edu/conted/seniors/>

### Undergraduate Studies

Office of the Dean, SVC 2002 974-4051  
<http://www.ugs.usf.edu/>

WebCat@ugs.usf.edu

### University Experience Program

Office of the Coordinator, SVC 2011 974-2645  
<http://www.ugs.usf.edu/ue/ue.htm>

### University Police

Emergencies 911  
 UPB 002 974-2628  
<http://www.usfpd.usf.edu/>

### Veterans Services

Office of Veterans Services, SVC 2127 974-2291  
[http://usfweb2.usf.edu/counsel/b\\_vet/v\\_home.html](http://usfweb2.usf.edu/counsel/b_vet/v_home.html)

# CONTENTS

<b>Academic Calendar</b>	<b>4</b>
<b>Accreditation and Degrees Offered</b>	<b>6</b>
<b>General Information</b>	<b>7</b>
<b>Admissions and Related Matters</b>	<b>11</b>
<b>Student Affairs and Student Services</b>	<b>20</b>
<b>International Affairs Center</b>	<b>28</b>
<b>Financial Information</b>	<b>29</b>
<b>Registration</b>	<b>33</b>
<b>Academic Policies and Procedures</b>	<b>38</b>
<b>Academic Programs and Services</b>	<b>61</b>
<b>Honors College</b>	<b>66</b>
<b>Architecture and Community Design</b>	<b>68</b>
<b>Arts and Sciences</b>	<b>70</b>
<b>Business</b>	<b>126</b>
<b>Education</b>	<b>134</b>
<b>Engineering</b>	<b>148</b>
<b>Louis de la Parte Florida Mental Health Institute</b>	<b>170</b>
<b>Marine Science</b>	<b>171</b>
<b>Medicine</b>	<b>172</b>
<b>Nursing</b>	<b>174</b>
<b>Public Health</b>	<b>178</b>
<b>Undergraduate Studies</b>	<b>180</b>
<b>Visual and Performing Arts</b>	<b>193</b>
<b>USF Lakeland</b>	<b>211</b>
<b>USF Sarasota</b>	<b>224</b>
<b>USF St. Petersburg</b>	<b>249</b>
<b>General Course Information</b>	<b>250</b>
<b>Undergraduate Course Descriptions</b>	<b>256</b>
<b>University Organization</b>	<b>347</b>
<b>Index</b>	<b>354</b>

2008

# ACADEMIC CALENDAR FOR UNDERGRADUATE STUDENTS

## FALL SEMESTER, 2008

MAY						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

JUNE						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

JULY						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

AUGUST						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

SEPTEMBER						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

OCTOBER						
S	M	T	W	T	F	S
		1	2	3	4	
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

NOVEMBER						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

DECEMBER						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

January 2	Wednesday
March 1	Saturday
March 1	Saturday
July 1	Tuesday
August 25	Monday
August 29	Friday
August 29	Friday
August 29	Friday
September 1	Monday
September 5	Friday
September 19	Friday
September 30	Tuesday
October 4	Saturday
October 9	Thursday
November 1	Saturday
November 11	Tuesday
November 27-28	Thursday-Friday
December 5	Friday
December 6-12	Saturday-Friday
December 13	Saturday
December 14	Sunday
December 15	Monday
December 16	Tuesday
July 1	Tuesday
October 1	Wednesday
October 1	Wednesday
November 15	Saturday
January 5	Monday
January 9	Friday
January 9	Friday
January 9	Friday
January 23	Friday
January 19	Monday
January 30	Friday
February 21	Saturday
March 16-21	Monday-Saturday
March 28	Saturday
March 1	Sunday
April 24	Friday
April 25-May 1	Saturday - Friday
May 1 & 2	Friday & Saturday
May 3	Sunday
May 4	Monday
May 5	Tuesday

Application Deadline Date for international applicants outside of the United States to apply for admission and submit all required credentials and supporting documents

Application Deadline Date for international applicants currently in the United States to apply for admission and submit all required credentials and supporting documents

Application Deadline for First Time In College Students for Fall Semester (New Freshmen)

Application Deadline Date for undergraduate transfers and former students returning to apply for admission (except international applicants)

Classes begin

Last day to withdraw/drop and receive full refund of registration fees

- Deadline: 5:00 p.m.

Last day to add courses - Deadline: 5:00 p.m.

Last day for late registration - Deadline: 5:00 p.m.

Last day to pay fees

Labor Day Holiday

CLAST Registration Deadline

Graduation Application Deadline

Rosh Hashanah Begins

CLAST Administration Day

Yom Kippur

Last day to drop or withdraw from courses without academic penalty

- Deadline: 5:00 p.m.

Veteran's Day Holiday celebrated

Thanksgiving Holidays

Classes End

Final Examinations

Commencement (Tampa)

Commencement (Sarasota)

Commencement (Lakeland)

Commencement (St. Petersburg)

## SPRING SEMESTER, 2009

Application Deadline Date for international applicants outside of the United States to apply for admission and submit all required credentials and supporting documents

Application Deadline Date for international applicants currently in the United States to apply for admission and submit all required credentials and supporting documents

Application Deadline for First Time In College Students for Spring Semester (New Freshmen)

Application Deadline Date for undergraduate transfers and former students returning to apply for admission (except international applicants)

Classes begin

Last day to withdraw/drop and receive full refund of registration fees

- Deadline: 5:00 p.m.

Last day to add courses - Deadline: 5:00 p.m.

Last day for late registration - Deadline: 5:00 p.m.

Last day to pay fees

CLAST Registration Deadline

Martin Luther King Holiday

Graduation Application Deadline

CLAST Administration Day

Spring Semester Break

Last day to drop or withdraw from courses without academic penalty

- Deadline: 5:00 p.m.

Application deadline for First Time in College Students for Fall Semester 2009 (New Freshmen)

Classes End

Final Examinations

Commencement (Tampa)

Commencement (Sarasota)

Commencement (Lakeland)

Commencement (St. Petersburg)

# SUMMER TERM, 2009

2009

SESSION A (First Six-week Session)		
January 2	Friday	Application Deadline Date for international applicants outside of the United States to apply for admission and submit all required credentials and supporting documents
March 1	Sunday	Application Deadline Date for international applicants currently in the United States to apply for admission and submit all required credentials and supporting documents
March 1	Sunday	Application Deadline for First Time In College Students for Summer Semester (New Freshmen)
March 1	Sunday	Application Deadline Date for undergraduate transfers and former students returning to apply for admission (except for international applicants)
May 8	Friday	CLAST Registration Deadline
May 11	Monday	Classes begin
May 15	Friday	Last day to withdraw/drop and receive full refund of registration fees - Deadline: 5:00 p.m.
May 15	Friday	Last day to add courses
May 15	Friday	Last day for late registration
May 15	Friday	Last day to pay fees
May 25	Monday	Memorial Day Holiday
June 5	Friday	Last day to drop or withdraw from courses without academic penalty - Deadline: 5:00 p.m.
June 5	Friday	Graduation Application Deadline
June 6	Saturday	CLAST Administration Day
June 19	Friday	Last day of classes
June 22-26	Monday-Friday	Summer Break between Session A and Session B
August 8	Saturday	Summer Commencement (Tampa) - Tentative Date

SESSION B (Second Six-week Session)		
January 2	Friday	Application Deadline Date for international applicants outside of the United States to apply for admission and submit all required credentials and supporting documents
March 1	Sunday	Application Deadline Date for international applicants currently in the United States to apply for admission and submit all required credentials and supporting documents
March 1	Sunday	Application Deadline for First Time In College Students for Summer Semester (New Freshmen)
March 1	Sunday	Application Deadline Date for undergraduate transfers and former students returning to apply for admission (except for international applicants)
June 5	Friday	Graduation Application Deadline
June 30	Monday	Classes begin
July 3	Friday	Independence Day Holiday
July 6	Monday	Last day to withdraw/drop and receive full refund of registration fees - Deadline: 5:00 p.m.
July 6	Monday	Last day to add courses
July 6	Monday	Last day for late registration
July 6	Monday	Last day to pay fees
July 25	Saturday	Last day to drop or withdraw from courses without academic penalty - Deadline: 5:00 p.m.
August 7	Friday	Last day of classes
August 8	Saturday	Summer Commencement (Tampa) - Tentative Date

SESSION C (Ten-week Session)		
January 2	Friday	Application Deadline Date for international applicants outside of the United States to apply for admission and submit all required credentials and supporting documents
March 1	Sunday	Application Deadline Date for international applicants currently in the United States to apply for admission and submit all required credentials and supporting documents
March 1	Sunday	Application Deadline for First Time In College Students for Summer Semester (New Freshmen)
March 1	Sunday	Application Deadline Date for undergraduate transfers and former students returning to apply for admission (except for international applicants)
May 8	Friday	CLAST Registration Deadline
May 11	Monday	Classes begin
May 15	Friday	Last day to withdraw/drop and receive full refund of registration fees - Deadline: 5:00 p.m.
May 15	Friday	Last day to add courses
May 15	Friday	Last day for late registration
May 15	Friday	Last day to pay fees
May 25	Monday	Memorial Day Holiday
June 5	Friday	Graduation Application Deadline
June 6	Saturday	CLAST Administration Day
June 20	Saturday	Last day to drop or withdraw from courses without academic penalty - Deadline: 5:00 p.m.
July 3	Friday	Independence Day Holiday
July 17	Friday	Last day of classes
August 8	Saturday	Summer Commencement (Tampa) - Tentative Date

JANUARY						
S	M	T	W	T	F	S
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4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

FEBRUARY						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

MARCH						
S	M	T	W	T	F	S
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8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

APRIL						
S	M	T	W	T	F	S
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5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

MAY						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

JUNE						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

JULY						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

AUGUST						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

## ACCREDITATION

The University of South Florida is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award degrees at the baccalaureate, master's, specialist, and doctoral levels, including the Doctor of Medicine and the Doctor of Physical Therapy.

## DEGREES\* OFFERED AT THE UNIVERSITY

### Undergraduate Degrees

Bachelor of Arts  
Bachelor of Fine Arts  
Bachelor of Music  
Bachelor of Science  
Bachelor of Science in Applied Science  
Bachelor of Science in Chemical Engineering  
Bachelor of Science in Civil Engineering  
Bachelor of Science in Computer Engineering  
Bachelor of Science in Computer Science  
Bachelor of Science in Electrical Engineering  
Bachelor of Science in Engineering  
Bachelor of Science in Industrial Engineering  
Bachelor of Science in Information Systems  
Bachelor of Science in Information Technology  
Bachelor of Science in Mechanical Engineering  
Bachelor of Social Work

### Graduate Degrees

Master of Accountancy  
Master of Architecture  
Master of Arts  
Master of Arts in Bioethics and Medical Humanities  
Master of Arts in Teaching  
Master of Business Administration  
Master of Chemical Engineering  
Master of Civil Engineering  
Master of Education  
Master of Engineering  
Master of Environmental Engineering  
Master of Fine Arts  
Master of Health Administration  
Master of Industrial Engineering  
Master of Liberal Arts  
Master of Mechanical Engineering

	Master of Music	M.M.
B.A.	Master of Public Administration	M.P.A.
B.F.A.	Master of Public Health	M.P.H.
B.M.	Master of Science	M.S.
B.S.	Master of Science in Bioinformatics and Computational Biology	M.S.B.C.B.
B.S.A.S.	Master of Science in Biomedical Engineering	M.S.B.E.
B.S.C.H.	Master of Science in Biotechnology	M.S.B.
B.S.C.E.	Master of Science in Chemical Engineering	M.S.C.H.
B.S.C.P.	Master of Science in Civil Engineering	M.S.C.E.
B.S.C.S.	Master of Science in Computer Engineering	M.S.C.P.
B.S.E.E.	Master of Science in Computer Science	M.S.C.S.
B.S.E.	Master of Science in Electrical Engineering	M.S.E.E.
B.S.I.E.	Master of Science in Engineering	M.S.E.
B.S.I.S.	Master of Science in Engineering Management	M.S.E.M.
B.S.I.T.	Master of Science in Engineering Science	M.S.E.S.
B.S.M.E.	Master of Science in Environmental Engineering	M.S.E.V.
B.S.W.	Master of Science in Industrial Engineering	M.S.I.E.
	Master of Science in Marketing	M.S.M.
M.Acc.	Master of Science in Mechanical Engineering	M.S.M.E.
M.Arch.	Master of Science in Medical Sciences	M.S.M.S.
M.A.	Master of Science in Public Health	M.S.P.H.
	Master of Social Work	M.S.W.
M.A.B.M.H.		
M.A.T.	<b>Advanced Graduate Degrees</b>	
M.B.A.	Education Specialist	Ed.S.
M.C.H.E.	Doctor of Audiology	Au.D.
M.C.E.	Doctor of Education	Ed.D.
M.Ed.	Doctor of Philosophy	Ph.D.
M.E.	Doctor of Nursing Practice	D.N.P.
M.E.V.E.		
M.F.A.	<b>Professional Degree</b>	
M.H.A.	Doctor of Medicine	M.D.
M.I.E.	Doctor of Physical Therapy	D.P.T.
M.L.A.	*See index for individual degree programs	
M.M.E.		

*The University of South Florida and all colleges, departments and programs therein establish certain academic requirements that must be met before a degree is granted. These requirements concern such things as curricula and courses, majors and minors, and academic residence. Advisors, directors, department chairs, and deans are available to help the student understand and arrange to meet these requirements, but the student is responsible for fulfilling them. At the end of a student's course of study, if requirements for graduation have not been satisfied, the degree will not be granted. For this reason, it is important for all students to acquaint themselves with all regulations and to remain currently informed throughout their college careers and to be responsible for completing requirements. Courses, programs, and requirements described in the catalog may be suspended, deleted, restricted, supplemented, or changed in any other manner at any time at the sole discretion of the University and the USF Board of Trustees.*

# USF - A COMPREHENSIVE RESEARCH UNIVERSITY

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

## USF Mission, Goals, Values and Vision

### Vision -

The University of South Florida envisions itself as a pre-eminent research university with state, national and global impact, and positioned for membership in the Association of American Universities (AAU).

### Mission -

As Florida's leading metropolitan research university, USF is dedicated to excellence in:

- Student access and success in an engaged, and interdisciplinary, learner-centered environment,
- Research and scientific discovery, including the generation, dissemination, and translation of new knowledge across disciplines; to strengthen the economy; to promote civic culture and the arts; and to design and build sustainable, healthy communities, and
- Embracing innovation, and supporting scholarly and artistic engagement to build a community of learners together with significant and sustainable university-community partnerships and collaborations.

### Goals -

The University of South Florida will pursue its rising stature as a pre-eminent research university with a state, national and global impact, and position itself for membership in the Association of American Universities (AAU) through:

- Expanding world-class interdisciplinary research, creative, and scholarly endeavors.
- Promoting globally competitive undergraduate, graduate and professional programs that support interdisciplinary inquiry, intellectual development, knowledge and skill acquisition, and student success through a diverse, fully-engaged, learner-centered campus environment.
- Expanding local and global engagement initiatives to strengthen and sustain healthy communities and to improve the quality of life.
- Enhancing all sources of revenue, and maximizing effectiveness in business practices and financial management to establish a strong and sustainable economic base in support of USF's growth.

### Values -

The University of South Florida values:

- Excellence in teaching and learning; scholarship and research (both basic and applied/translational); together with community engagement and public service based on the highest standards of discovery, creativity and intellectual attainment,

- Outstanding research and scientific discovery, including the application of new knowledge to solve state, national and global problems,

- Recruitment and retention of world-class faculty and high potential undergraduate and graduate students,
- Access to a world-class, globally relevant and affordable education, including utilization of alternative modes of delivery,

- Student competitiveness, success and academic achievement through knowledge, communication and critical thinking skill acquisition,

- Cultural and ethnic diversity and inclusion along with an enhanced global experience, understanding, and appreciation,

- Integrated, interdisciplinary inquiry and collaboration across departmental, college and campus boundaries,

- Facilitating the optimal development of personal and professional potential of students, faculty, and staff, and enriching the quality of an engaged campus community,

- Shared governance structures that empower all USF stakeholders, campuses and entities to reach their full potential,

- The creation and support of a premier university system that adds value to the region, state and nation while ensuring necessary levels of autonomy and preserving the distinctive regional and strategic identities of all member campuses and entities,

- An environment of collegiality based on the principles of academic freedom, respect, integrity, civility, the freedom to engage in debate, the exchange of ideas and intellectual discovery, and professional responsibility,

- Mutually beneficial partnerships and community engagement that increase the understanding of, and present solutions to, local and global challenges, with a mind to strengthening the economy and building sustainable healthy communities,

- An entrepreneurial spirit and innovation with a focus on defining, informing and generating "next best practices",
- The utility of proven and emerging technologies to enhance instruction, learning, research and engagement, and to improve service quality and efficiencies in institutional business practices,

- Focus and discipline in aligning the budget and fiscal resources with institutional priorities and action, and

- Transparent accountability along with timely and effective communication.

## ABOUT USF

Founded in 1956, the University of South Florida opened its doors in 1960 to 2,000 students. Today, the university is the ninth largest in the nation and a member of the Big East Athletic Conference. More than 45,000 students are enrolled at campuses in Tampa, St. Petersburg, Sarasota and Lakeland. USF is a research (very high activity) university with a strong focus

## 8 GENERAL INFORMATION

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

in medical treatment and research, bioengineering, life sciences and the arts.

USF has achieved distinction in all areas of academics, sports, research and funding. The impact of the university on the Tampa Bay region is intellectual, cultural and economic. The university has a yearly budget of \$1.6 billion and its annual impact on the regional economy reached \$3.2 billion in 2005.

The University of South Florida is among the nation's top 63 public research universities and one of only three Florida public universities classified in the top tier of research universities by the Carnegie Foundation for the Advancement of Teaching. USF is the second highest ranking research university in Florida. USF was awarded more than \$300 million in research contracts and grants in 2006.

USF is one of 39 U.S. public colleges and universities designated by the Carnegie Foundation for the Advancement of Teaching as being most engaged with their communities, and one of only ten public research universities across the country designated as both "very high research" and "community engaged." USF is the only university in Florida - public or private - to receive both classifications.

Students come to USF from every state, every U.S. territory, and 127 countries around the world. The University of South Florida ranks number 17 among the Best 366 Colleges in the nation for diversity according to The Princeton Review's 2008 Guide. More than 30% of the student body is African American, Hispanic, Asian, Asian/Pacific Islander, Native American or other ethnicity.

The university has 11 colleges and offers more than 219 degree programs at the bachelor, master, specialist, and doctoral levels, including the doctor of medicine. With more than 1,900 faculty members from some of the world's most prestigious universities and research institutions, USF is the university chosen by many of the nation's brightest students. Last year, USF awarded 6,743 bachelor's degrees, 2,095 master's degrees, 230 doctorates in 36 fields, and 116 MD degrees.

The College of Arts and Sciences is the largest college at USF and houses several nationally ranked programs. The Industrial/Organizational Psychology program is one of the top 10 in the country. The School of Mass Communications, one of the largest programs of its kind in the United States, is ranked in the top 20 percent of nearly 500 American journalism and mass communications programs. The School of Aging Studies is one of only two gerontology education programs in the country to have awarded over 1,000 gerontology degrees.

Established in 2003, the Humanities Institute provides a wide range of scholarly exchanges, research opportunities, lectures and seminars with world-renowned thinkers and scholars in such classic disciplines as literature, classics, philosophy, the arts, history, languages, political thought and religion. The Institute has been instrumental in bringing many notable lecturers to the Tampa Bay community, including Pulitzer Prize-winning playwright Nilo Cruz and Mexican novelist and diplomat Carlos Fuentes.

The College of Business Administration is one of just 20 schools earning membership in the prestigious Kauffman Mentor program. USF accounting majors have been listed number one in the nation, with the highest percentage of candidates with advanced degrees passing all parts of the CPA exam - placing USF among the top 10 universities more times than any other school in the country. In 2005, Hispanic Trends Magazine ranked the Executive MBA program number 10 in the nation for Hispanics.

USF's graduate entrepreneurship program was ranked ninth in the nation for 2007 by the Princeton Review and Entrepreneur Magazine. USF's program is ranked fourth among public universities in the U.S., and USF is the only Florida university to be included in the ranking of the top 50 programs.

The College of Education is the fifth largest college of education in the nation and graduates more educators than any other university in Florida. The college is ranked in the top 25%

of all graduate schools of education by U.S. News & World Report and is known for its innovative approaches to today's education challenges. Over half of the college's students are enrolled in graduate programs. The college sponsors the "USF on iTunesU" website. With the click of a button, students and teachers can access a wide array of educational digital content.

The College of Engineering is home to several research centers, including the Nanomaterials and Nanomanufacturing Research Center, where engineers fabricate nano-sized devices that are changing the world. The college is also home to the Center for Robot-Assisted Search and Rescue, which is developing the next generation of rescue robots and surveillance helicopters.

The university offers an Honors College for high-ability students, an extensive study abroad and internship program, interdisciplinary research opportunities, and a new Center for Global Solutions that offers students the opportunity to address real-world challenges affecting communities around the world.

USF ranks as one of the nation's top centers for researching new treatments for Alzheimer's, Parkinson's and Huntington's diseases. The university has pioneered the concept of brain repair - replacing cells in the brain to help fix damage from illness or injury. USF Health, which includes the colleges of medicine, nursing, and public health, leads the nation in developing an integrated model for education and care where students from different health disciplines learn in teams.

Research that drives and supports technological and economic development has earned USF a leadership role in microelectronics, information technology, applied physics, biophysics and urban transportation. The university is a leader in the Florida High Tech Corridor, an unprecedented partnership that includes more than 5,200 technology companies from the Space Coast to Tampa Bay.

In its 50-year history, USF has graduated more than 200,000 students. Approximately 90,000 alumni live in the university's six-county service area.

### DIVERSITY AND EQUAL OPPORTUNITY POLICY

It is the goal of the University to create and maintain a work and study environment free of discrimination and harassment. Discrimination on the basis of race, color, sex, marital status, religion, national origin, disability or age is prohibited by University policies, federal and state laws. The USF system protects its faculty, staff, and students from discrimination and harassment based on sexual orientation. Any person who believes that he or she has been subjected to discrimination may file a complaint with the Office of Diversity and Equal Opportunity, ADM 172. The telephone number is 974-4373. It shall be prohibited for any employee of USF to discriminate or take retaliatory action against any individual who, in good faith, has opposed an alleged unlawful practice or has made a charge, testified, assisted, or participated in any manner in an investigation, proceeding, or hearing under the provisions of applicable law or the university equal opportunity policies.

### Guide to Resources for Students with Disabilities

All University programs, events, and services are open and available to persons with disabilities. The University of South Florida is committed to the principles of Equal Educational and Employment Opportunities without regard to disability.

**Academic Assistance for Students with Disabilities:** Students with Disabilities Services (SDS) exists to ensure that students with disabilities have the academic support necessary to achieve success at the University of South Florida. Course related assistance and academic accommodations

are provided to eligible students with documented disabilities. Services may include advocacy, alternative text formats, interpreters, alternate exam administration, note takers, and assistive technology such as FM systems and large print computer access. Students are encouraged to contact our office as early as possible prior to enrollment to make arrangements for appropriate services. Documentation of a disability and significant current functional impairment resulting from that disability is necessary in order for accommodations to be provided.

**Admissions:** Students with disabilities apply under the same guidelines as other students through the Offices of Undergraduate or Graduate Admissions.

**Course Substitution:** Students with disabilities requesting substitution of course work for General Education, foreign language requirements, or CLAST should contact Students with Disabilities Services. Students with declared majors requesting substitution of departmental graduation requirements will need to contact the chair of their department. In either case, students will be requested to submit documentation to SDS to support their request for an exception.

**Parking:** Students with state parking privileges need only supply their state card as documentation for eligibility to Parking and Transportation Services. Students without state privileges need medical documentation to be considered for on-campus parking. Contact: [http://www.usf.edu/parking\\_services](http://www.usf.edu/parking_services)

**Housing:** Accessible on-campus residence hall housing is available for students with special needs. Specific information is available through Housing and Residential Education. Contact: <http://www.housing.usf.edu>

**Diversity and Equal Opportunity:** Students with disabilities are encouraged to participate fully in all University events, programs, and other campus activities. Information on whom to contact to request accommodation or assistance should be listed on program information and advertisements. If unable to secure the requested assistance or additional help with accessibility is needed, contact the ADA Coordinator in Diversity and Equal Opportunity (DEO) at [www.usf.edu/eoa](http://www.usf.edu/eoa).

The following are USF resources for students with disabilities:

## USF CONTACTS FOR STUDENTS WITH DISABILITIES SERVICES

### Tampa Campus

#### Students with Disabilities Services

SVC 1133 (voice) 813-974-4309  
(TTY) 813-974-5651  
(VP) 813-974-1585

Web: <http://www.sds.usf.edu>

### Sarasota Manatee Campus

#### Coordinator for Students with Disabilities Services

SMC C107 (voice) 941-359-4714  
(TTY) 941-359-4666

Web: <http://sarasota.usf.edu/disability/>

### Lakeland Campus

#### Students with Disabilities Services

LTB 1155, USF Offices (voice) 863-667-7063

Web: [http://www.lakeland.usf.edu/Departments/Student\\_Services/disability\\_services.html](http://www.lakeland.usf.edu/Departments/Student_Services/disability_services.html)

### St. Petersburg Campus

#### Students with Disabilities Services

DAV 118 (voice) 727-873-4990 or  
(voice) 727-873-4837

Web: <http://www.stpt.usf.edu/saffairs/studenterv/>

## FACILITIES AND ATMOSPHERE

Since its inception, USF has endeavored to provide facilities that assist students and scholars in achieving their educational and professional goals.

The USF Tampa campus features more than 200 buildings valued at over \$800 million, including modern science and

engineering labs; a communications building with a full range of broadcast facilities; foreign language listening labs; fine art studios and display spaces; education teaching labs; a public television station; a listener-supported radio station; a dozen computer labs with free internet access; and even an on-campus elementary school and daycare facilities. The campus also offers a wide variety of recreational facilities, including a multi-million dollar recreation center featuring a 6,500-square-foot weight room, an indoor pool, racquetball courts and various fitness studios; three outdoor swimming pools; 22 lighted tennis courts; an 18-hole golf course; a running trail; three softball fields; four outdoor basketball and volleyball courts; and 10 lighted multi-purpose fields. In addition, USF offers a wide range of living options for students who wish to live on campus, including traditional-style, suite-style and apartment-style resident halls. Greek housing is also available for members of USF's sororities and fraternities.

The USF St. Petersburg campus, located on Tampa Bay, opened its first residence hall in 2006. The seven-story building, which features 79 four-bedroom single occupancy and seven two-bedroom double occupancy apartments, as well as a lobby, catering kitchen, lounge, and laundry facilities, offers students apartment-style living right on campus. In addition, the campus recently added a new campus parking structure featuring more than 1,500 spaces. The first floor of the garage houses the USF St. Petersburg Police Department and the Parking Services department, as well as a new 15,000-square-foot, two-story Barnes & Noble bookstore offering university students great coffee, literature, textbooks, lab materials and campus merchandise.

The USF Sarasota campus recently opened its beautiful new Crosley Campus Center, a three-story, 108,000-square-foot Italian Mediterranean-style structure inspired by some of the beautiful historic mansions located on nearby Sarasota Bay. Behind the architectural beauty is plenty of academic muscle - including 24 new classrooms, several additional computer labs, more seminar rooms and video-conferencing areas, and a 190-seat lecture/exhibition hall. There is also a technology and learning center, a new dining area, training facilities for the School of Hotel and Restaurant Management, and a daycare center.

USF Lakeland began serving central Florida students in 1988, operating on a campus shared with Polk Community College at the intersection of US 98 and the Polk Parkway. The campus is known for its abundant shade trees, outdoor study areas, and plentiful free parking. In 2006, the university opened the new Lakeland Technology Building, a high tech teaching and student services facility on the west side of campus. This new facility doubles available classroom space and makes student services such as registration, advising, financial aid, and counseling even more convenient.

## UNIVERSITY POLICE

The University of South Florida Police Department provides a full range of public safety services to the community 24 hours a day, 7 days a week on the Tampa Campus. All University Police officers are certified by the State of Florida after completing minimum standards training at the local Regional Police Training Academy. The University of South Florida Police Department is accredited through the Commission for Florida Law Enforcement Accreditation, Inc. Accreditation is the certification by an independent reviewing authority that an entity has met specific requirements and prescribed standards, and has long been recognized as a means of maintaining the highest standards of professionalism.

General services provided by the University Police include car patrol, foot patrol, bicycle patrol, criminal investigation of all misdemeanors and felonies, traffic law enforcement, traffic crash investigation, special events management, and crime prevention programs.

The University Police Department has an excellent working relationship with all local law enforcement agencies. The

## 10 GENERAL INFORMATION

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

University Police maintain 24-hour contact with local, national, and international law enforcement agencies via computer networks such as the Florida Crime Information Center and the National Crime Information Center. The Florida Department of Law Enforcement and other local, state, and federal agencies are available to assist the University Police upon request.

### UNIVERSITY POLICE DEPARTMENT CAMPUS LOCATIONS:

- On the *Tampa Campus* the University Police Department is located at the corner of Fletcher Avenue and Maple Drive. The emergency number is "9-1-1" and the non-emergency number is (813) 974-2628.
- The *Lakeland Campus* of the University of South Florida is located at Polk Community College. Basic public safety services are provided by the security department of the community college. Law enforcement services, including the investigation of criminal acts, are provided on a routine basis by the Polk County Sheriff's Office in Lakeland. The University Police Department provides law enforcement or crime prevention services at this location on an as needed basis.

### ADVOCACY PROGRAM

The Advocacy Program provides free and private services to USF students, faculty and staff, both men and women, who have experienced crime, violence or abuse, for incidents occurring on or off campus, recently or in the past. Services may include: crisis intervention, emotional support, personal and systems advocacy, court accompaniment, victim helpline, safety planning and information, options, and referrals. We also provide prevention and education presentation.

Appointments are available in our office or other safe locations on campus. Walk-ins are welcomed, Monday - Friday, 8:00 a.m. to 5:00 p.m. Please visit our web site at <http://www.usf.edu/advocacy>.

### IMPORTANT NUMBERS

The USF Advocacy Program	SVC 1138
Victim HelpLine	974-5757
Office Number	974-5756
CRISIS CENTER OF TAMPABAY	
24-Hr. Crisis Line	234-1234 OR 211

# ADMISSIONS AND RELATED MATTERS

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

## Locations/Phones:

*Tampa Campus:* SVC 1036, (813) 974-3350  
*St. Petersburg Campus:* BAY 102, (727) 553-1142  
*Sarasota Campus:* PMC 101, (941) 359-4330  
*Lakeland Campus:* LLC 2100, (863) 667-7026

The Office of Admissions assists prospective students with learning about the opportunities available to them at the University. The office is responsible for processing applications for admission for undergraduate and former students returning. Admissions also reviews transfer credit completed at other regionally accredited institutions for determination of transferability. Admission services are also available at all regional campuses.

Admission to the University of South Florida requires evidence of ability to handle academic work, capacity to think creatively, and strong motivation. The minimum admission requirements are designed to help identify applicants whose academic background indicates potential for success at USF; however, satisfaction of minimum admission requirements does not guarantee acceptance. The admission of new students at all levels is on a selective basis within curricular, space, and fiscal limitations. The selection process may include such factors as grades, test scores, pattern of courses completed, class rank, educational objectives, past conduct, school recommendations, personal recommendations, and portfolios. Preference for admission in any term will be given to those applicants whose credentials indicate the greatest promise of academic success.

The University encourages applications from qualified applicants of both sexes and from all cultural, racial, religious, ethnic, and age groups. In the admission process there is no discrimination on the basis of these factors or on the basis of disability. Applicants who do not meet minimum admission requirements will be considered for admission when there is sufficient evidence to suggest ability to do satisfactory work at USF. These policies are further described under "Applying for Admission" and "Requirements for Admission."

The University supports equal educational opportunity for disadvantaged students. Requests for waiver of the \$30.00 application fee are considered by the Director of Admissions if payment of this fee creates severe financial hardship and serves as a deterrent to application.

Students are admitted to USF in accordance with the mission and goals of the University and within enrollment limitations established by the Department of Education and the Florida Legislature.

## Applying for Admission

### Obtaining an Application

The University of South Florida prefers all applicants to apply online. The online undergraduate admissions application may be found on the Office of Undergraduate Admissions web page at <http://usfweb2.usf.edu/admissions/application.html>.

### When to Apply

Applications for admission are accepted as early as 12 months before the requested entry term. Applications for admission and the non-refundable application fee should be submitted by the deadline date (see *academic calendar*) for the requested entry term or by the application deadline for the requested degree program (see specific programs in this catalog), whichever is earlier.

### Who Should Apply

An application for admission must be submitted by all students who have not been admitted to and enrolled in a USF degree program within the last three terms. Former or continuing USF degree-seeking students must file another application for admission when applying for a second degree program, another level of study or readmission (see Readmission).

Anyone who has previously been admitted and enrolled as a degree-seeking student and has paid an application fee is required to pay the \$30 application fee.

The Director of Undergraduate Admissions may waive payment of the application fee for disadvantaged applicants if the fee serves as a deterrent to application.

### Changing Requested Term of Entry

Applicants may update their application for admission for up to one year from the originally requested term of admission. All requests for changes of entry term must specify any academic work attempted that was not reflected on the original application and must be received by the appropriate published application deadline for the new term of entry or degree program specified, whichever is earlier. Additionally, any issues related to criminal or academic misconduct that were not reflected on the initial application must be reported in writing to the Office of Undergraduate Admissions. A new application and fee must be submitted when applicants wish to be considered for admission for a term that begins more than 12 months after the originally requested entry term.

An applicant who requests a new entry term must meet the admissions requirements in effect for the new term requested. Entry for some programs is limited to specified terms.

## General Admission Policies

### Transcripts and other admission documents

All official transcripts, test scores, and any other required credentials must be received directly from the issuing agencies. It is the applicant's responsibility to initiate the request for credentials to the issuing agencies and to assure their receipt by the USF Office of Undergraduate Admissions in Tampa, or St. Petersburg for students enrolled on that regional campus. (See "Minimum Requirements for Admission" below for information concerning required documentation.)

All credentials and documents submitted become the property of USF. The originals or copies of the originals will not be returned to the applicant or forwarded to another institution, agency, or person.

### Provisional Admission

An applicant admitted on a provisional basis must submit the requested missing credentials, such as official final transcripts or test scores, which substantiate eligibility for admission before a second registration will be permitted.

Applicants who do not meet standard Department of Education minimum admission requirements may be admitted to the University on academic probation. Students admitted on probationary status must accumulate 30 semester credits and maintain a minimum cumulative 2.0 grade point average (GPA) each term enrolled with no single term GPA below a 1.0 before the probationary status is removed. (A term GPA below 2.0 in the first term of enrollment results in permanent academic dismissal.) Advising is mandatory prior to registration. Failure to meet these conditions results in permanent academic dismissal from the University.

### Non-degree Seeking Status

Performance in courses taken as a non-degree-seeking student will not qualify an applicant for admission as a degree-seeking student. Similarly, courses taken as a non-degree-seeking student will not be utilized in determining an applicant's grade point average for purposes of admission.

A non-degree-seeking student who has been dismissed from USF is not eligible for admission to USF as a degree-seeking student at the undergraduate level. If extenuating circumstances contributed to the academic dismissal and the student meets other admissions requirements, a request for waiver of this rule may be submitted to the Faculty Committee

## 12 ADMISSIONS AND RELATED MATTERS

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

on Student Admissions. This rule does not apply to a student who has earned a degree from a regionally accredited institution subsequent to academic dismissal.

Freshman and undergraduate transfer applicants denied admission to USF as degree-seeking students will not be permitted to enroll as non-degree-seeking students.

### Admission Denials

Receipt of final official credentials that fail to substantiate eligibility will result in rescission of admission, reclassification to non-degree status, and denial of continued enrollment in subsequent terms.

An undergraduate applicant who is denied admission may be eligible to appeal and will be advised of applicable appeal procedures by the Office of Undergraduate Admissions.

An application for admission or a residency affidavit submitted by or on behalf of a student that contains false, fraudulent, or incomplete statements may result in denial of admission, further registration and/or degrees awarded.

The University may refuse admission to a student whose record shows previous misconduct not in the best interest of citizens of the University community.

### Required Summer Term Attendance

Effective September 1, 1976, all students entering USF with fewer than 60 semester hours of credit are required to earn at least 9 semester hours of credit prior to graduation by attendance during one or more summer semesters. The University may waive the application of this rule in cases of unusual hardship. A student who wishes to have the rule waived must complete a "Request for Waiver of Mandatory Summer Enrollment Form" available in the Office of the Registrar. After submission of the form to the Office of the Registrar, the student will be notified by mail of the action taken.

Students are exempt from the summer requirement provided they have earned 9 or more credits from one of the acceleration mechanisms listed below prior to matriculation at an SUS institution. There is no provision for partial credit that would allow students to complete in summer enrollment only the difference in credits between the required 9 semester hours and the number of credits less than 9 that they completed prior to matriculation. (Approved acceleration mechanisms include: Advanced Placement, International Baccalaureate, Dual Credit, Early Admission, Advanced International Certificate of Education, and credit from the Florida Virtual School.

The requirement may be fulfilled only by attending one of the universities in the State University System: University of South Florida, Florida Agricultural and Mechanical University, Florida Atlantic University, Florida Gulf Coast University, Florida International University, Florida State University, New College of Florida, University of Central Florida, University of Florida, University of North Florida and University of West Florida.

### CLAST Test Requirement

All undergraduate students admitted to USF must earn passing scores, meet exemption criteria or qualify for a waiver on all four sections of the College Level Academic Skills Test (CLAST) prior to receiving an A.A. certificate or baccalaureate degree from the University. Transfer students entering USF with fewer than 45 transferable semester hours must take CLAST during the term in which 45 semester hours will be completed. Transfer students entering USF with 45 or more transferable semester hours must take CLAST the first term it is offered after initial enrollment.

### Required Orientation

Prior to beginning classes, all new undergraduate students (FY (First Year)/Transfer) are *required* to participate in Orientation on the USF campus in which they are admitted. Orientation

sessions are designed to assist new students with their transition into the University. During the University Orientation students are made aware of the following: college overviews and requirements for their degree program; general University policies and services; and student activities and campus life. In addition, academic advising and registration for classes are all part of the orientation process.

All new students will receive Orientation information after admission.

### Required Proof of Immunity

Prior to registering for classes, *all* students born after 1956 are required to present documentation of proof of immunity to **MEASLES** (Rubeola) and **RUBELLA** (German Measles). It is further required that all students must present proof of immunity to Hepatitis B and Meningitis or decline immunization by signature. Students living in USF Housing must be vaccinated against meningitis (no declination is permitted). (See Immunization Policy.)

### Limited Access Programs

Undergraduates seeking entrance to limited access degree programs must meet special program requirements in addition to requirements for admission to the University. While many limited access programs admit students only at the junior level, some programs admit students for the freshman or sophomore years. The admission criteria and procedures for limited access programs at USF furnish equal access to A.A. degree holders from Florida public community/junior colleges, transfers from other SUS institutions, and USF students of equivalent status. Transfer applicants with 60 or more transferable semester hours who are seeking admission to limited access programs must meet the grade point average requirement specified by the program to be eligible for admission to USF. Beginning in Summer 2008, transfer applicants with 36 to 59 transferable semester hours who are seeking admission to certain limited access programs such as business, mass communications or nursing may be required to meet a higher transfer grade point average requirement that would allow eventual admission to those particular degree programs.

USF, with approval of the Board of Governors and the Articulation Coordinating Committee, has established the following undergraduate programs as limited access: *Liberal Studies, Mass Communications, Social Work, and the B.A./M.A. Program in Mathematics* in the College of Arts and Sciences; *all degree programs* in the College of Business Administration; *all degree programs* in the College of Education; *all degree programs* in the College of Engineering; *all degree programs* in the College of Nursing. The admissions requirements for these degree programs may be found with other program information in appropriate sections of this catalog.

## Minimum Requirements for Admission

### Freshman Applicants

To be considered for admission, freshman applicants must submit a USF or FACTS Application for Admission, a non-refundable application fee, an official high school transcript, official GED scores if applicable, SAT or ACT scores, and a TOEFL score if applicable.

Although USF has minimum freshman admission requirements, meeting these minimum standards does not guarantee admission. Applicants selected for admission usually exceed the eligibility requirements; however, USF also considers applicants who do not fully meet minimum requirements but who have important attributes, special talents or unique circumstances that may contribute to a representative and diverse student body. These freshman applicants are considered for admission by a faculty committee on the basis of other appropriate evidence of ability to do successful academic work at USF.

For purposes of admission, USF recalculates a high school grade point average (GPA) based on grades earned in all college preparatory academic courses. In recalculating a GPA, USF assigns additional weights to grades earned in honors, Dual Enrollment, Advanced Placement courses, International Baccalaureate courses, and Advanced International Certificate of Education courses.

The University normally requires a diploma from a Florida public or a regionally accredited high school or the state-approved General Education Development (GED) diploma. Students admitted under the Early Admission Program are exempted from this requirement. Students who are participating in an approved home schooling program are expected to provide acceptable copies of annual evaluations for the equivalent of grades 9 through 12. A portfolio or additional documentation may be requested if deemed necessary to complete an appropriate evaluation for admission. Other minimum requirements are outlined below.

1. Freshman applicants must submit an official test score from the Scholastic Assessment Test (SAT) or the American College Test (ACT). Applicants graduating from high school after January 1, 2006 will be required to submit an SAT score that includes the Writing component or an ACT score that includes the Essay component. Receipt of an SAT without Writing or ACT without Essay will not fulfill the test score requirement.
2. For freshman applicants earning a high school diploma, the following college preparatory academic units (year-long courses or equivalents) normally offered in grades nine through twelve are required: four units of English (three of the four must incorporate substantial writing requirements); three units of mathematics (algebra I and above); three units of natural sciences (two of the three must incorporate substantial laboratory requirements); three units of social sciences (history, civics, political science, economics, sociology, psychology and geography); two units of the same foreign language; and three additional units of academic electives.
3. Freshman applicants who have between a 3.3 (B+) and 4.0 (A) grade point average as recalculated by USF using all attempted academic courses are considered competitive. The University sets admission requirements that may be found on the Undergraduate Admissions web homepage. Please refer to <http://usfweb2.usf.edu/admissions/requirements.htm> for the current admission requirements. Admission to the University is selective; therefore, meeting requirements does not guarantee admission.
4. Applicants submitting a GED diploma must have an overall score of at least 300 for all five tests and at least 50 on each of the five tests. GED holders must also submit an SAT or ACT score that will be considered in assessing the applicant's probability of success (also required of students in an approved home schooling program).
5. In the absence of the above, the University will also consider appropriate alternative evidence of academic achievement, ability, motivation and responsibility that indicates potential for successful academic work at USF.
6. A first-time-in-college applicant whose native language is not English must present a minimum score of 213 (computer-based test), 550 (paper-based test) or 79 (Internet-based test) on the Test of English as a Foreign Language (TOEFL), or a score of 6.5 on the International English Language Testing service exam (I-ELTS). The TOEFL or I-ELTS requirement may be waived on an individual basis when appropriate alternative evidence of English language proficiency is presented in writing.
7. First-time-in-college applicants seeking admission at the freshman level to a limited access degree program in Engineering must meet additional requirements specified by the program.
8. If a student has not earned the following minimum scores on the SAT or the ACT, college preparatory work will be required during the first term of enrollment at USF:

SAT - 440 verbal, 440 mathematics

or

ACT - English 17, Reading 18, Mathematics 19

Students requiring this remedial coursework will be offered admission only for Summer or Spring terms.

## USF Admissions Deposit

Freshmen admitted to the University of South Florida are required to submit a \$200 non-refundable admission deposit according to the schedule below:

Term Admitted	Deposit Due Date
Fall	May 1
Spring	December 1
Summer B	May 1

The admission deposit will be credited to the student's account and applied toward their first semester tuition. The admission deposit will be waived for admitted freshmen who demonstrate significant financial need on a FAFSA (Free Application for Federal Student Aid) submitted by USF's priority deadline of March 1st.

Admitted freshmen are encouraged to pay the deposit online via OASIS (USF's Online Access Student Information System). Online payment is the University's preferred payment method. Checks and money orders submitted to the Cashier's Office (ADM 151) are also acceptable forms of payment.

## Early Admission Applicants (Freshmen)

USF provides an early admission program to meet the needs of highly capable, mature high school students. Under the Early Admission program these students may enter the University as regularly enrolled, degree-seeking students prior to graduation from high school. Participation in the Early Admission program shall be limited to students who have completed a minimum of six semesters of full-time secondary enrollment, including studies undertaken in the ninth grade. In addition, Early Admission applicants should be enrolled in a strong college-preparatory curriculum while in high school. Applications for Early Admission will be reviewed by the Director of Undergraduate Admissions in conjunction with the Dean of the Honors College. Students enrolled in the Early Admission program must take courses that are creditable toward the high school diploma and the associate or baccalaureate degree.

Students wishing to be accepted as Early Admissions students at USF **must**:

1. have completed the equivalent of the junior year of high school, requiring one more year to complete requirements for the high school diploma;
2. have a 1200 on the Mathematics and Critical Reading sections of the SAT, with no less than 440 on either section; or a 27 on the EACT with no less than a score of 17 on English, 18 on the Reading, and 19 on Mathematics; and a 3.5 high school grade point average (computed by USF); and a TOEFL score, if applicable (students who do not meet all the requirements may discuss possible exceptions with the coordinator for Early Admission);
3. meet regular USF admission criteria for degree-seeking undergraduate students;
4. contact coordinator for Early Admission.

## Undergraduate Transfer Applicants

Beginning with Fall 2008, USF will require all transfers with 60+ transferable hours—including A.A. transfers from Florida community colleges—to meet the GPA requirement for their intended major. Applicants for Athletic Training, Business, Communications, Education, and Engineering must have a 2.50 transfer GPA; applicants for Mass Communications must have a 2.75; applicants for Architecture and Liberal Studies

must have a 3.00; and, applicants for Nursing must have a 2.50 with an A.S. in Nursing or a 3.00 with an A.A.

USF no longer will admit transfers with fewer than 36 transferable hours, as national and institutional data suggests that students who transfer this early are less likely to succeed academically. For those with 36 to 59 hours, USF will require a 3.00 transfer GPA, again based on data related to transfer student success in the classroom. For other transfers with 60+ hours (including FLCC transfers without an A.A. or A.S. degree), USF's regional campuses in St. Petersburg, Sarasota-Manatee and Lakeland will continue to consider applicants with a 2.00 transfer GPA, while USF Tampa now will require a 2.50 transfer GPA. We expect this last requirement to increase on the Tampa campus to a 2.75 starting in Summer 2009 and a 3.00 in Summer 2010. As these changes in transfer criteria are implemented, USF will continue to assist transfer students in their efforts to identify the best academic fit within the USF System.

Meeting minimum requirements, however, does not guarantee admission to USF. In addition, limited access programs may require a higher GPA or completion of specific prerequisites. Transfer admission criteria are subject to change without notice based on space availability.

USF accepts transfer credit from institutions that are regionally accredited at the time the credits are earned.

Applicants with fewer than 60 transferable semester credits are considered lower-level transfers; upper-level transfers are those with 60 or more transferable semester credits (see below). Regardless of category, grade point averages (GPA) for purpose of admission will be computed based only on grades earned in courses that are acceptable for transfer credit and as calculated by USF.

USF accepts transfer credits, without a course by course evaluation of the prior coursework, only from institutions that are accredited by one of the regional accrediting agencies/commissions recognized by USF at the time the credits are earned (See Evaluation of Transfer Credit). Courses approved for transfer by the Statewide Course Numbering System (SCNS) from non-regionally accredited institutions will be considered for transfer credit the same as credits from regionally accredited institutions. All credits earned during the period of time a regionally accredited institution was in a "candidacy" status for accreditation are considered for transfer credit. Credits earned at an institution that is currently in "candidacy" status will not be considered for transfer credit until such time as the awarding institution receives full regional accreditation. For an applicant applying from a non-regionally accredited school, the admissions decision will be based on prior work at a regionally accredited institution or on the transferable work completed at a non-regionally accredited institution as approved by SCNS. If all post-secondary work is from a non-regionally accredited school, not including SCNS approved coursework, the evaluation will be based on the high school record and test scores and the applicant will be regarded as a freshman for purposes of admission.

USF reserves the right to evaluate specific courses and deny transfer credit. USF does not award transfer credit that is determined to be occupational or vocational in nature except that work specifically approved as part of the Bachelor of Science in Applied Science program or approved by the academic department of the student's major.

### Lower-Level Transfer Applicants

(with more than 35 and fewer than 60 transferable semester credits)

To be considered for admission, transfer applicants with fewer than 60 transferable semester credits must submit a USF or FACTS Application for Admission, a non-refundable application fee, an official transcript from each previous college attended, an official high school transcript, official GED scores if applicable, official SAT or ACT scores, and a TOEFL or I-ELTS score if applicable.

Lower-level transfer applicants will enter USF with 36-59 transferable semester credits must minimally meet the following requirements to be considered for admission in good standing; however, satisfying these minimum requirements does not guarantee admission.

1. Will require a 3.00 transfer GPA, again based on data related to transfer student success in the classroom;
2. Be in good standing with a minimum of 3.0 GPA and eligible to return to the last regionally accredited institution attended.
3. Satisfy fully all freshman admissions standards as described in the previous section entitled "Freshman Applicants." (Meeting freshman admission standards is a critical requirement for undergraduate applicants with fewer than 60 transferable credits. Department of Education rules and policies do not provide for local exceptions to these requirements.);
4. Complete (with passing grades) two years of the same foreign language in high school or 8 to 10 semester hours of the same foreign language at the post-secondary level.
5. Present a minimum score of 213 (computer-based test) or 550 (paper-based test), 79 (Internet-based test) on the Test of English as a Foreign Language (TOEFL) or 6.5 on the I-ELTS if the applicant's native language is not English. The TOEFL or I-ELTS requirement may be waived on an individual basis when appropriate alternative evidence of English language proficiency is presented in writing.

USF also considers applicants who do not fully meet the minimum requirements as stated in #1. and #2. above but who have important attributes, special talents, or unique circumstances that may contribute to a representative and diverse student body. These undergraduate transfer applicants are considered for admission by a faculty committee on the basis of other appropriate evidence of promise for academic success. These applicants should also submit appropriate alternative evidence of academic achievement, ability, motivation, and responsibility that supports potential for academic success at USF.

### Upper-Level Transfer Applicants

(with 60 or more transferable semester credits)

To be considered for admission, transfer applicants with 60 or more transferable semester credits must submit a USF or FACTS application for admission, a non-refundable application fee, an official transcript from each previous college attended, and a TOEFL score if applicable. Final transcripts with the A.A. degree awarded, or a minimum of 60 semester hours of transferable credit earned prior to initial enrollment at USF, must be submitted to determine final admissions eligibility.

Any transfer student with 60 or more semester hours who designates a desire for admission to a limited access undergraduate program must meet the overall admission GPA criteria of that program in order to be admitted to the University.

Applicants with Associate in Arts (A.A.) degrees from Florida public institutions will be admitted as juniors into the University within curricular, space and fiscal limitations. A.A. degree holders seeking admission to quota/limited access degree programs must also meet all requirements specified by the desired program. The admission of Florida community/junior college A.A. transfer students is governed by the Articulation Agreement between state universities and public community colleges in Florida.

Undergraduate transfer students who have not earned the A.A. degree from a Florida public institution or who have attended another college after receipt of the A.A. must minimally meet the following requirements to be considered for admission; however, satisfying these minimum requirements does not guarantee admission:

1. Be in good standing and eligible to return to the last regionally accredited institution attended as a degree-seeking student or a non-regionally accredited institution participating in the SCNS with SCNS approved transferable credits;

2. Have an overall "C+" average as calculated by USF (transfer GPA of 2.5 on a 4.0 scale) in all college-level courses acceptable for transfer credit to USF. (In calculation of the GPA, incomplete grades are computed as failures and course "repeats" are not forgiven when the courses are repeated at different institutions.);
3. Complete (with passing grades) two years of the same foreign language in high school or 8 to 10 semester hours of the same foreign language at a previous college or university. Students who entered a Florida public community/junior college prior to August 1, 1989 and maintain continuous enrollment until the time of their USF entry as degree-seeking students may be admitted without the required foreign language study;
4. Meet the minimum grade point average required by the program if entering a limited access program and transferring 60 or more semester hours;
5. Present a minimum score of 213 (computer-based test) or 550 (paper-based test), 79 (Internet-based test) on the Test of English as a Foreign Language (TOEFL), or 6.5 on the I-ELTS. The TOEFL requirement may be waived on an individual basis when appropriate alternative evidence of English language proficiency is presented in writing.

Upper-level transfer applicants to a limited access major in Nursing, Business or Mass Communication must meet program requirements prior to admission to the University. Refer to requirements listed in the college of Arts and Sciences (Mass Communication), College of Business or College of Nursing section of the catalog.

USF also considers applicants who do not fully meet the minimum requirements as stated in #1. and #2. above but who have important attributes, special talents or unique circumstances that may contribute to a representative and diverse student body. These undergraduate transfer applicants are considered for admission by a faculty committee on the basis of other appropriate evidence of promise for academic success. These applicants should also submit appropriate alternative evidence of academic achievement, ability, motivation and responsibility that indicates a potential for academic success at USF.

### Students Entering the Florida Community College System and Planning to Finish their Degrees at USF

High school graduates planning to start their college education at a Florida community college should confer with the community college counselor and ask that their academic program be planned with the assistance of the USF Undergraduate Catalog that is available at <http://www.ugs.usf.edu/catalogs.htm>. This catalog, prepared by the USF Office of Undergraduate Studies, explicitly describes the undergraduate program requirements and Florida's common prerequisites that should be followed to ensure maximum ease of transfer into the students' upper-level programs on a par with their native USF counterparts.

### Students Entering the Florida Community College System and Planning to Finish their Degrees in the State University System

An articulation agreement, in effect since April 13, 1971 and later adopted by the Florida Legislature in statute form as Florida law, governs an effective and orderly transfer of Florida community college students into the State University System (SUS).

The agreement defines and establishes the Associate of Arts degree from a Florida public community/junior college as the basis for all articulation rights. Among these guarantees, the following are central to the transfer process:

1. A.A. graduates will be granted admission to a university within the SUS, but not necessarily to the university or program of choice.

2. A.A. graduates will have the same opportunity to enroll in a university limited access program as the native university student.
3. Upon transferring to a state university, A.A. graduates will be awarded at least 60 credit hours towards the baccalaureate degree, exclusive of occupational courses and basic required physical education courses.
4. Credits that are part of the A.A. degree earned through articulated acceleration mechanisms, such as dual enrollment, International Baccalaureate, early admission, advanced placement and credit by exam, will be transferable to the state university.
5. As participants in the Statewide Course Numbering System, receiving institutions must accept all courses taken at the transfer institution if the courses at each institution have the same prefix and the same last three digits of the course number.
6. The university catalog in effect the year the A.A. degree student first enrolled at the community college will remain in effect for the student's entire program, provided the student maintains continuous enrollment as defined in that catalog.
7. Once a student has completed the general education core and this fact is noted on the transcript, regardless of whether or not an A.A. degree is awarded, no other state university or community college to which the student may transfer can require additional courses to the general education core. Included in these transfer guarantees is the right of appeal. Students may appeal to the university and to the Statewide Articulation Coordinating Committee. Students who have questions or want more information about the articulation agreement should contact the Office of Undergraduate Studies.

### Evaluation of Transfer Credit

1. The receipt and evaluation of transfer credit is the responsibility of the Office of Undergraduate Admissions. The Office of Undergraduate Admissions will evaluate the acceptability of total credits transferable to the University. The college of the student's major will assign equivalent courses in determining which courses are applicable toward a specific degree at the University. In some instances, exact course equivalents will also be determined by other colleges that offer the same or similar courses as part of their programs of study. Transfer students should be prepared with personal copies of their transcripts of all past course work to discuss advisement and placement with the appropriate academic advisor and should contact the college of their major soon after registration so that an official evaluation may be completed.
2. USF will readily or automatically accept credits only from those institutions accredited by one of the regional accrediting agencies/commissions\* at the time the credits are earned. (See \* below for agencies recognized by USF.) Credits earned at an institution that is currently in "candidacy" status will not be considered for transfer credit until such time as the awarding institution receives full accreditation. Courses approved for transfer by the Statewide Course Numbering System (SCNS) from non-regionally accredited institutions will be considered for transfer credit the same as credits from regionally accredited institutions.
3. Admitted students who wish to transfer courses from colleges or universities that are accredited by organizations and associations other than regional accrediting associations may request a review of those courses by contacting their academic advisors to initiate the process. Students will be asked to submit detailed information about the content and standards for each course to be reviewed, including, but not limited to a detailed syllabus that contains the course description, prerequisites and co-requisites, major learning outcomes, textbooks, and the academic qualifications of the instructor. These materials will be submitted to the appropriate department for review by the faculty and the process may take some time, during which no credit will be awarded until the department review is completed. Only

those courses that appear to match courses currently offered by the university will be reviewed for transfer.

4. USF reserves the right to deny credit for specific courses. USF does not award transfer credit from institutions that it determines to be occupational or vocational in nature except for work that is specifically approved as part of the Bachelor of Science in Applied Science program or approved by the academic department of the student's major.
  5. Associate of Arts (A.A.) degree holders from Florida public accredited institutions will be considered as having met USF general distribution requirements and are automatically awarded 60 semester hours of credit. A course-by-course transfer credit evaluation will be done for all out-of-state and private in-state A.A. degree holders.
  6. All courses from a Florida Community College/University bearing the same State Common Course prefix and last three numbers as a USF course are automatically transferred and transfer students may not be required to repeat these courses, unless a college age-of-record policy is involved. That same automatic transferability of credits applies to courses completed at non-regionally accredited institutions that have been specifically approved by the SCNS. Excluded are graduate courses, studio courses in art, internships, practicums, and performing arts courses such as dance, theater performance, voice, and instrumental music.
  7. All undergraduate degree programs at USF require a minimum of 48 hours of upper-level work that would have been completed at a four-year college or university. This policy does not affect approved articulated programs based on the A.S. degree. For information regarding specific articulated A.S. degree programs, consult the Office of Undergraduate Studies, B.S.A.S. Program.
  8. Credit will not be awarded for GED tests.
  9. Military service school courses will be evaluated with reference to the recommendation of the American Council of Education when official credentials have been presented. Such recommendation, however, is not binding upon the University.
  10. For ROTC and military science courses taken after Fall Quarter 1975, the maximum credit will vary with each college. A student must confer with his/her college advisor to determine the acceptability for his/her major. ROTC and military science courses taken prior to Fall 1975 are not acceptable for transfer credit.
  11. A maximum of 45 semester hours of College Level Examination Program (subject and general examinations) credits can be accepted for transfer credit.
  12. A maximum of 30 semester hours of extension, correspondence, and military service education credits can be applied toward a degree.
  13. Grades earned in transferred courses are not computed in the student's USF GPA except for the purposes of admission to limited access programs, the awarding of honors at graduation, and class ranking of baccalaureate students.
  14. International credentials must be evaluated by an independent evaluation service, with associated costs to be paid by the student.
  15. A continuously-enrolled USF degree-seeking student must obtain prior written approval from the college of the student's major in order for courses taken at other regionally-accredited institutions to be applied to the USF degree program.
- \* Accrediting Agencies/Commissions: New England Association of Schools and Colleges, Commission on Institutions of Higher Learning; Middle States Association of Colleges and Secondary Schools, Commission on Higher Education; North Central Association of Colleges and Schools; Northwest Association of Schools and Colleges; Southern Association of Colleges and Schools, Commission on Colleges; Western Association of Schools and Colleges, Accrediting Commission for Senior Colleges and Accrediting Commission for Junior Colleges.

### Graduate Applicants

Graduate applicants should refer to the USF Graduate Catalog.

### International Applicants (non-resident aliens)

To be considered for admission, international applicants (non-resident aliens) must submit a USF or FACTS Application for Admission, a non-refundable application fee payable in U.S. dollars, a TOEFL or I-ELTS score if applicable, a Statement of Financial Responsibility, undergraduate admissions test scores as specified for appropriate applicant category, transcripts showing subjects and grades from the first year of secondary work to the time of application. Transcripts in a language other than English must be accompanied by a certified English translation.

Post-secondary international credentials must be evaluated by an independent evaluation service, with associated costs to be paid by the student. Information about recommended and approved independent evaluators is available from the Office of Undergraduate Admissions (<http://web.usf.edu/iac/admissions/eval.html>).

An international applicant (non-resident alien) must meet all admission requirements for the appropriate applicant category (freshman, undergraduate transfer, graduate). Other minimum requirements are as follows:

1. An international applicant whose native language is not English must present a minimum score of 79 (internet-based test), 213 (computer-based test), 550 (paper-based test) on the Test of English as a Foreign Language (TOEFL), or 6.5 on the I-ELTS. The TOEFL requirement may be waived on an individual basis when appropriate alternative evidence of English language proficiency is presented in writing.
2. International applicants must be in good standing at the last institution attended.
3. International applicants must submit the USF Financial Statement substantiating availability of financial resources sufficient to cover all educational, maintenance, and personal expenses while attending USF, without financial assistance from the University.
4. International applicants seeking admission to limited access undergraduate degree programs must also meet all requirements specified by the program.

### Transient Applicants

An undergraduate transient student is one who comes to the University from another regionally accredited institution and wishes to take courses at USF for one term only before returning to the parent institution. Transient students may enroll at USF as non-degree-seeking students. (See Non-Degree-Seeking Students.)

## Financial Aid

### Location/phone:

*Tampa Campus:* SVC 1102, (813) 974-4700  
*St. Petersburg Campus:* BAY 105, (727) 553-4128  
*Sarasota Campus:* USS-C, (941) 359-4459  
*Lakeland Campus:* LLC 2101, (863) 667-7028

### Web Addresses:

*Financial Aid Web:* <http://www.usf.edu/finaid/>  
*OASIS Web:* <http://usfonline.admin.usf.edu>  
*FAFSA Web:* <http://www.fafsa.ed.gov>

### Email:

<http://www.usf.edu/askusf/>  
 USF makes every effort to ensure that all qualified students have access to an education. Many student financial aid programs are administered or coordinated through the USF Office of Financial Aid.

USF's Financial Aid Web site provides step-by-step guidance through the financial aid application process. USF's Online Access Student Information System (OASIS Web) allows students to monitor the status of their financial aid from application to disbursement of funds.

All students wishing to receive financial aid are encouraged to start the financial aid process as early as possible. The first step, each year, is to complete and submit the Free Application for Federal Student Aid (FAFSA) online. For more detailed guidance and information, log onto the Financial Aid Website or stop by the Financial Aid office.

## Orientation

**Location/phone:** SVC 2049, (813) 974-3060

**Website:** [www.usf.edu/orientation](http://www.usf.edu/orientation)

Every new student at the University of South Florida must attend an on-campus, University Orientation on the campus in which they are admitted. Orientation on all campuses provides an introduction to the University of South Florida and facilitates the smooth transition of students into the academic and social environments of the University. During the University Orientation, students are made aware of the following: college overviews and requirements for their degree program; general University policies and services; and student activities and campus life. In addition, academic advising and registration for classes are part of the orientation process. Orientation is required for all new students to the University. Orientation programs are available on all campuses and students should contact their home campus directly to make arrangements for their orientation session.

**First Year (FY) Students Tampa Campus-** Students admitted for the summer or fall terms are required to stay overnight in a campus residence hall. Families of FY students admitted for the summer or fall will experience a separate orientation program, which runs concurrently with the student program. Orientation sessions are conducted by the Offices of Orientation and New Student Connections and are scheduled prior to each term in an academic year.

## Honors College Tampa Campus

Academically talented students in all majors may avail themselves of Honors opportunities at USF's Tampa campus. The College is primarily designed for first-time-in-college students (FTICs); however, Honors also accepts continuing USF and transfer students. Honors College experiences are grounded in the liberal arts tradition and intended for students regardless of major. The primary goals of the Honors College are the development of critical thinking skills, an appreciation of the liberal arts tradition and the development of creative, independent thought. (See complete description under Honors College.) Many scholarships are available for Honors students.

Potential FTIC students are actively recruited, but any interested student who feels that he/she is qualified may request admission. Invited students present at least a 3.8 recalculated weighted academic high school GPA and 1300 SAT (based only on Critical Reading and Mathematics sections) or 29 ACT scores.

Interested continuing USF students and transfer students may request admission by contacting the Honors College. Eligible continuing USF students present a 3.5 USF GPA, based on at least 45 USF credits. Eligible transfer students present a 3.5 transfer GPA, based on at least 45 college credits.

Departmental Honors opportunities are available in select departments that wish to offer Honors-level work for superior students majoring in their disciplines. Requirements vary according to department, but all require the completion of a Thesis. Students may enroll in both the Honors College and Departmental Honors. Students in both programs are required to complete only one Thesis.

Admission to the Honors College is determined by the Dean of the Honors College; admission to Departmental Honors is determined by the individual department. Students who satisfactorily complete Honors and graduate with at least an overall

GPA of 3.3 and a USF GPA of 3.3 (all course attempts are included in the Honors GPA) shall be identified as Honors College graduates on their diplomas and transcripts, and at the Honors College Graduation Ceremony.

USF St. Petersburg has an Honors Program. For additional information, please call (727) 553-3103.

## Other General Information

### Evening Courses

The admission requirements and achievement levels in the day and evening courses are the same. Any student accepted to the University may enroll in any appropriate course offered in the evening.

### Opportunities for Accelerated Progress Toward Undergraduate Degrees

USF provides several options by which students may accelerate their progress toward completing the baccalaureate degree. These options recognize knowledge which has been acquired prior to or during attendance at USF and provide the opportunity to earn University credit. Options which may be used include the following:

1. Recognition of satisfactory performance on tests offered through the College Level Examination Program (see CLEP).
2. Recognition of satisfactory performance on tests offered through Advanced Placement Programs of the College Entrance Examination Board (see Advanced Placement Credit Programs).
3. Recognition of the International Baccalaureate Diploma Program. Students who earn the IB Diploma will be awarded 30 semester hours of college credit and sophomore standing. Credit for standard level exams with a score of 4 or higher may be awarded to those students who do not earn the IB diploma.
4. Dual enrollment as a non-degree-seeking student at USF or a community college prior to graduation from high school (see Dual Enrollment [Public/Private High/Home School]). Community college students should follow eligibility criteria for non-degree seeking students (below).
5. Early admission for high school students (see Early Admission Freshmen).
6. Educational Outreach courses by television.

Credits may be earned through a combination of the above options. Students should contact their college advisors for further information concerning the application of this credit toward their degree requirements.

Internal processes (such as auditions, portfolio reviews, and placement tests) utilized in the various departments for the sole purpose of determining a student's most appropriate area, level, or section placement in a program of study are not to be construed as examining mechanisms for the granting of credit.

### Non-Degree Seeking Student

Non-degree seeking student enrollment is on a space-available basis and has been established for those individuals who, while not desirous of earning a degree, would like to enroll in all levels of university courses. Teachers needing to take courses for certification purposes, high school students (with the permission of their respective guidance counselor), individuals desirous of taking courses for self enrichment, and senior citizens are examples of those eligible to utilize this enrollment method. Senior citizens only are absolved from paying the \$30 application processing fee. Former USF undergraduate degree-seeking students may only enroll as non-degree seeking students if they have completed their previous degree program or earned an equivalent degree at another institution. Should the latter be the case, an official transcript (reflecting the degree) from that institution must be sent to the USF Office of the Registrar (Attention: Registration and Records Area) prior to registration.

Applicants denied admission to USF as degree-seeking undergraduates may not enroll as non-degree seeking students. Performance in courses taken in this category will not qualify an applicant for admission as a degree-seeking student.

A non-degree-seeking student who has been dismissed from USF is not eligible for admission to USF as a degree-seeking student at the undergraduate level. If extenuating circumstances contributed to the academic dismissal and the student meets other admissions requirements, a request for waiver of this rule may be submitted to the Faculty Committee on Student Admissions. This rule does not apply to a student who has earned a degree from a regionally accredited institution subsequent to academic dismissal.

Individuals enrolling as non-degree seeking students who plan to make formal application to the University may not apply more than 14 semester hours toward an undergraduate degree.

Non-degree-seeking students are subject to the same academic policies as undergraduate degree-seeking students and must adhere to deadline dates published in the University **Schedule of Classes**. Non-degree seeking students are not eligible to receive University honors or participate in the USF/Florida Public Community College cross-registration program. Non-degree-seeking students also are not eligible to live in University housing or receive financial aid. Non-degree seeking students are subject to the academic probation and dismissal policy listed in this catalog. Non-degree seeking students who are academically dismissed from the University may appeal to the Academic Regulations Committee (ARC) through the ARC representative for Academic Support and Achievement/Center for Academic Advising to return. Potential non-degree seeking students should also refer to the section of the catalog of the college(s) offering the course(s) of interest to them to determine whether any special college requirements exist which must be met prior to enrolling.

**NOTE:** Prior to registering for classes, *all* students born after 1956 are required to present documentation of proof of immunity to **MEASLES** (Rubeola) and **RUBELLA** (German Measles). It is further required that all students must present proof of immunity to Hepatitis B and Meningitis or decline immunization by signature. Students living in USF Housing must be vaccinated against meningitis (no declination is permitted). (See Immunization Policy.)

### Early Admission (Public/Private High/Home School)

Through **Early Admission**, highly capable, mature high school students enrolled in a strong college-preparatory curriculum may enter the University as regularly enrolled, degree-seeking students prior to graduation from high school.

Students in the Early Admission program must take courses that are creditable toward the high school diploma and the associate or baccalaureate degree. Prospective applicants must:

1. have completed the equivalent of the junior year of high school, requiring one more year to complete requirements for the high school diploma;
2. typically have a 1200 on the Mathematics and Critical Reading sections of the SAT, with no less than 440 on either section; or a 27 on the EACT with no less than a score of 17 on English, 18 on the Reading, and 19 on Mathematics; and a 3.5 high school grade point average (computed by USF); and a TOEFL score, if applicable;
3. meet regular USF admission criteria for degree-seeking undergraduate students;
4. contact coordinator for Early Admission.

### Dual Enrollment (Public/Private High/Home School)

**Dual enrollment** in USF classes is open to academically qualified students currently enrolled in public/private high schools and home schools who are recommended by their guidance

counselor or principal. During dual enrollment students may only take courses which are creditable toward their high school diploma.

Students wishing to be accepted as Dual Enrollment students at the University of South Florida must:

1. Be at least 16 years old at start of term, unless enrolled in a special summer program initiated by USF or a special course section involving only dual enrollment students;
2. Have proof of a minimum of 440 on SAT V (Critical Reading) and 440 on SAT Q (Mathematics); or a score of 17 on EACT English, 18 on EACT Reading and a score of 19 on EACT Mathematics; or appropriate placement test scores; and a TOEFL score, if applicable;
3. Have (a) completed the equivalent of the sophomore year, (b) students typically present a 3.5 grade point average or higher on a 4.0 scale (as calculated by USF), and (c) satisfied any course prerequisites; and
4. Provide a list of courses and the number of credits necessary to complete high school diploma from the school counselor or principal on school stationery.

All students interested in early admission or dual enrollment should contact the Honors College (SVC 1088, 4202 E. Fowler Avenue, Tampa, FL 33620) or visit [http://honors.usf.edu/Adm\\_early.html](http://honors.usf.edu/Adm_early.html) for complete information.

**NOTE:** Prior to registering for classes, *all* students born after 1956 are required to present documentation of proof of immunity to **MEASLES** (Rubeola) and **RUBELLA** (German Measles). It is further required that all students must present proof of immunity to Hepatitis B and Meningitis or decline immunization by signature. Students living in USF Housing must be vaccinated against meningitis (no declination is permitted). (See Immunization Policy.)

### Readmission (Former Students Returning)

A former student returning (FSR) is any degree-seeking undergraduate student who has not earned his/her degree, who has not been enrolled at USF in any of the last three terms, and who wishes to re-enroll in the University. Former students returning must be readmitted to the University. In order to be considered for readmission, a former student should file a new application for admission with the Office of Undergraduate Admissions by the deadline indicated in the Academic Calendar for the term of requested re-entry. A new application fee is required. (Former College of Education majors must contact the College of Education Advising Office for additional readmission requirements.)

The residency affidavit must be completed and residency status will be reassessed.

To be readmitted, a student must meet the following requirements:

1. Be eligible to return to the University of South Florida;
2. Be in good standing and eligible to return to the last institution attended as a degree-seeking student; and
3. Have achieved a GPA of at least 2.0 as calculated by USF on a 4.0 scale on all college-level academic courses attempted at institution(s) attended since last enrolled at USF.

Students who have attended one or more institutions since their last enrollment must request official transcripts of all work attempted at the other institution(s) be sent to the USF Office of Undergraduate Admissions. Acceptability of transfer credits toward completion of USF degree programs will be determined by the college of the student's major.

Former students returning who have been readmitted are not *required* to participate in an orientation program. Students must meet with their academic advisor for course selection.

Transient students and non-degree-seeking students are not considered former students returning. These students who wish to enter as degree-seeking students must file an application with the Office of Undergraduate Admissions prior to the deadline listed in the Academic Calendar for the requested term of entry. Former USF students who have earned the baccalaureate degree at USF or at another institution and who

now wish to return to USF to earn another undergraduate degree must file an undergraduate application for admission with the Office of Undergraduate Admissions. A \$30 application fee is required. A student may not work on a second undergraduate degree if he/she has been accepted into a graduate program.

**NOTE:** Prior to registering for classes, *all* students born after 1956 are required to present documentation of proof of immunity to **MEASLES** (Rubeola) and **RUBELLA** (German Measles). It is further required that all students must present proof of immunity to Hepatitis B and Meningitis or decline immunization by signature. Students living in USF Housing must be vaccinated against meningitis (no declination is permitted). (See Immunization Policy.)

### Senior Citizen Tuition Waiver Program

Florida residents who are 60 years of age or older as of registration day, and have lived in Florida for the last 12 months, may enroll on a space available basis in certain undergraduate and graduate courses without paying fees. The Senior Citizen Tuition Waiver covers a maximum of nine credit hours per term and is applicable only if the student registers for these courses during the designated registration period. Due to the non-degree seeking status, academic credit is not awarded, examinations are not required and grades are not assigned. A parking permit, purchased from Parking Services, is required.

Students need not be present in order to register for courses; the Application and Registration worksheet may be submitted by mail or fax.

Many courses require departmental approval, prerequisites, or have other restrictions which may limit registration. If you are aware of those restrictions, you may acquire the necessary permits in advance of registration. There is a Registration Worksheet form to accomplish this. Additionally, the permits may be submitted electronically in OASIS by the issuing department. Under no circumstances will notes on plain paper without department letterhead be accepted.

Students may not pre-register for courses in which they plan to use the Senior Citizen Tuition waiver. The waiver will not be processed if a Senior citizen pre-registers and then submits a Senior Citizen tuition waiver form for those courses.

It is the student's responsibility to complete and submit the waiver form allowing sufficient time for the form to reach The Office of the Registrar by the registration deadline.

More information about the program can be found at the Office of the Registrar's website, [www.registrar.usf.edu](http://www.registrar.usf.edu). Enter the Word SENIOR in the "search box." The Application and Registration worksheet are on the Registrar's Office Forms page; look under the "Quick Links" section of that page.

### Florida Community College System

High school graduates planning to start their college education at a Florida community college should confer with the community college counselor and ask that their academic program be planned with the assistance of the USF Undergraduate Catalog that is available at <http://www.ugs.usf.edu/catalogs.htm>. This catalog, prepared by the USF Office of Undergraduate Studies, explicitly describes the undergraduate program requirements and Florida's common prerequisites that should be followed to ensure maximum ease of transfer into the students' upper-level programs on a par with their native USF counterparts.

### Articulation Agreement

An articulation agreement, in effect since April 13, 1971 and later adopted by the Florida Legislature in statute form as Florida law, governs an effective and orderly transfer of Florida community college students into the State University System (SUS).

The agreement defines and establishes the Associate of Arts degree from a Florida public community/junior college as

the basis for all articulation rights. Among these guarantees, the following are central to the transfer process:

#### Admission into the State University System

1. A.A. graduates will be granted admission to a university within the SUS, but not necessarily to the university or program of choice.
2. A.A. graduates will have the same opportunity to enroll in a university limited access program as the native university student.
3. Upon transferring to a state university, A.A. graduates will be awarded at least 60 credit hours towards the baccalaureate degree, exclusive of occupational courses and basic required physical education courses.
4. Credits that are part of the A.A. degree earned through articulated acceleration mechanisms, such as dual enrollment, International Baccalaureate, early admission, advanced placement and credit by exam, will be transferable to the state university.
5. As participants in the Statewide Course Numbering System, receiving institutions must accept all courses taken at the transfer institution if the courses at each institution have the same prefix and the same last three digits of the course number.
6. The university catalog in effect the year the A.A. degree student first enrolled at the community college will remain in effect for the student's entire program, provided the student maintains continuous enrollment as defined in that catalog.
7. Once a student has completed the general education core and this fact is noted on the transcript, regardless of whether or not an A.A. degree is awarded, no other state university or community college to which the student may transfer can require additional courses to the general education core.
8. A separate agreement establishes the Associate of Science (A.S.) degree for articulation into specialized programs. Career ladder and capstone degree programs can be found at FACTS.org ([http://www.facts.org/pdf\\_sw/statwidearticulationmanual.pdf](http://www.facts.org/pdf_sw/statwidearticulationmanual.pdf)).

Included in these transfer guarantees is the right of appeal. Students may appeal to the university and to the Statewide Articulation Coordinating Committee. Students who have questions or want more information about the articulation agreement should contact the Office of Undergraduate Studies.

# STUDENT AFFAIRS & STUDENT SERVICES

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

The University of South Florida is committed to a holistic, integrated, multi-faceted approach to students' learning. Learning is a transformative experience that happens inside and outside the classroom, through coursework, laboratories, student employment, residence halls, student organizations, internships, athletics, and volunteerism. The Division of Student Affairs contributes to the development of an educational environment that enhances students' ability to grow and develop into effective and engaged citizens who are prepared and committed to positively impact the world around them. Student Affairs is committed to promoting student development and learning, providing quality services for students, and fostering a sense of community.

## DIVISION OF STUDENT AFFAIRS

The Division of Student Affairs is committed to creating a student-centered learning community distinguished by collaborative relationships with colleagues across the university. The Division provides opportunities to prepare students for lifelong success in a diverse multicultural, and international world. Comprised of twenty-three departments, Student Affairs staff members are dedicated to the values of integrity, collaboration, open communication, and mutual respect.

The role of the Division of Student Affairs is to provide a broad range of educational, social, psychological, physical, and spiritual programs that increase students' capacity to learn; to provide facilities and fundamental services that foster the optimal living and learning environment on campus; to facilitate the overall development of each student; and, to enhance the overall campus community. The Division provides students with opportunities to become involved in the life of the University outside of the classroom, students who are more engaged with and involved in their college experience are more likely to experience success and graduate.

Students who attend the University of South Florida are subject to University policies in addition to guidelines established by the Board of Trustees of the University of South Florida. The Office of the Vice President of Student Affairs, along with other University officials, is charged with interpreting the policies of the Board of Trustees to students, their families, and others in the University community. To prepare students for successful lives after graduation, Student Affairs staff members foster an environment where students are challenged and supported to make good decisions and to learn from the outcomes of those decisions. Students are expected to take primary responsibility for their education: they are accountable to know and fulfill academic requirements, meet financial obligations, and adhere to the University's expectations for appropriate conduct.

### Students with Disabilities Services

**Web address:** <http://www.sds.usf.edu/>

**Location/Phone:**

Tampa Campus: 4202 E. Fowler Ave, SVC 1133, Tampa, FL 33620; Voice: (813) 974-4309; TTY: (813) 974-5651; VP: (813) 974-1585

St Petersburg Campus: Volunteer and Students with Disabilities Services - 140 7th Ave S - St. Petersburg, FL 33701; Voice: (727) 873-4990 or (727) 873-4837

Sarasota-Manatee: 8350 N. Tamiami Trail, SMC, C107 - Sarasota, Florida 34243-2197; Voice: (941) 359-4714; TTY: (941) 359-4666; Web address: <http://www.sarasota.usf.edu/disability/>

Lakeland Campus: Students with Disabilities Services - 3433 Winter Lake Road, LTB 1155 - Lakeland, FL 33803; Voice: (863) 667-7063; Web address: [http://www.lakeland.usf.edu/Departments/Student\\_Services/disability\\_services.html](http://www.lakeland.usf.edu/Departments/Student_Services/disability_services.html)

The University recognizes and values students with disabilities. Students with disabilities participate in all aspects of university life. Academic accommodations are arranged through

the Students with Disabilities Services office. Students with Disabilities Services (SDS) makes the final determination as to the type of academic accommodations that can be rendered for students with disabilities. Each student is responsible for self-identifying and applying for accommodations and services at this office. The process of applying for services is described in detail in the SDS website [www.sds.usf.edu](http://www.sds.usf.edu). Information Sessions are provided for students, parents, and other concerned persons. The dates and times of these Information Sessions are on the SDS website.

The student initiates the process by identifying herself/himself to the SDS office and completing an application. The student identifies herself/himself and applies for accommodations by providing to SDS documentation both of the disability and the significant impact of that disability on academic performance. SDS staff and other experts will review the documentation, a process that typically takes ten working days. To summarize, a student interested in having accommodations for a disability should:

- 1) Visit our website <http://www.sds.usf.edu>
- 2) Present documentation of her/his disability to our office as soon as possible
- 3) Attend an Information Session

If the documentation provides the necessary information and demonstrates the need for reasonable accommodations, the student will be invited to an enrollment meeting with a coordinator. The purpose of the meeting is for the coordinator to fashion reasonable accommodations with the student. At this meeting the student will be given information about the process for having a memorandum of accommodation for each professor for that semester. It is the student's responsibility to present the memorandum of accommodation to each professor.

At the start of each semester, the student is responsible for providing feedback about the effectiveness of the accommodations to date and registering for accommodations for the new semester. Each semester the student is responsible for giving each of her/his professors a memorandum of accommodation for that semester within two weeks of receiving the letter.

Examination accommodations, the most frequently needed accommodations, are the responsibility of the professor. The SDS office will assist the professor in providing accommodated examinations if the professor is unable to do so. The directions for this process are on the SDS website.

A nationally certified American Sign Language interpreter is on the SDS staff. Interpreting services are available for classroom and class-related activities for students with hearing impairments. The process for accessing these services is described on the SDS website.

*Federal laws require that persons with disabilities receive reasonable accommodations in order to fully participate in all aspects of society. Specifically, the Americans with Disabilities Act of 1990 (ADA) addresses this issue and provides relief for persons who do not receive reasonable accommodations.*

### Parents and Family Association

**Location/phone:** ALC 100, (813) 974-4828

**Web address:** [www.usf.edu/ua/parents](http://www.usf.edu/ua/parents)

The Parents Association's mission is to enhance the quality of life for students who attend the University of South Florida as well as provide a focal point for developing and implementing programs that will involve parents and legal guardians in ways that are meaningful to them and beneficial to the University.

The Parents Association provides a forum for parents to obtain information, ask questions and offer suggestions; enhance the student experience; and support the mission and priorities of the University.

Parents may become involved by joining the Association or one of its task forces: Career, Family Weekend, Membership, Student Life, Student Recruitment and the Parents Fund.

The Association works closely with Residence Services, Admissions, Orientation, Career Center, Student Affairs and the University Office of Advancement.

### Student Learning Commons

**Location/phone:** LIB 206, (813) 974-9281

Located on the first and second floors of the Library, the **Learning Commons** offers an assortment of academic support services designed to strengthen students' ability to learn effectively and efficiently. **Tutoring and Learning Services** (LIB 206) include tutoring in math, science, all CLAST subtests, and other subjects. In addition, a number of courses and workshops on learning strategies, test-taking, study and research skills are offered each semester including several credited courses such as Advanced Reading (REA 1206), Critical Reading and Writing (REA 2105), Advanced Learning Systems (REA 1605), Strategic Learning (REA 2604), and Reading Lab (REA 1305). **Writing Support** is available and located on the first floor in LIB 112-120. By integrating learning support and technology assistance into the library, the Learning Commons is poised to meet the diverse learning needs of students.

### Counseling Center

**Location/phone:** SVC 2124, (813) 974-2831

**Web address:** <http://usfweb.usf.edu/counsel>

The Counseling Center is a comprehensive, student-oriented facility providing services in educational skill enhancement, life planning, and mental health to the USF community. The Center offers individual treatment on a time-limited basis and makes referrals to in-house therapy groups or to community settings for appropriate management of problems requiring longer-term care. All services preserve the confidentiality of students. For more information about any of the following services, call 974-2831 or stop by SVC 2124.

**Counseling Services** are designed to enhance the personal, academic, emotional, social, career and life planning effectiveness of students. Fully accredited by the International Association of Counseling Services (IACS), the USF Counseling Center is staffed by professional psychologists and psychiatrists licensed to practice in the state of Florida. These professionals assist students in developing a clearer sense of identity, establishing greater autonomy, discovering strengths and weaknesses, identifying realistic educational and career goals, and becoming more insightful, self-directing individuals. Services aimed at early detection, greater self-understanding, effective problem-solving and informed decision-making include: intake evaluation and disposition, crisis intervention, psychological assessment, time-limited individual psychotherapy, couples therapy, personal growth groups and both time-limited and ongoing psychotherapy groups. Adjunctive services include psychiatric consultation, anxiety management, and skill-enhancement workshops.

**Testing and Assessment Services** enhance the effectiveness of counseling by providing objective information about students. Tests of abilities, aptitudes, career interests, personality, reading comprehension, study skills, and other complex psychological attributes are available as part of the counseling process.

The **Outreach and Workshop Program** offers a Student Success Series of workshops and groups on a variety of topics such as life planning, stress management, test and performance anxiety, relationships, anger management, depression, and self esteem. Workshops are listed in the Oracle and schedules for each semester are posted on the Counseling Center's website. Consultation and liaison relationships are maintained with student groups and staff/faculty.

The **Center for Addiction and Substance Abuse (CASA)** is a source of information, educational programming, consultation, and therapy for addiction and substance abuse concerns for the USF community. CASA consultation and education services include presentations for campus groups or classes, consultation with campus organizations and committees, and

informational materials. CASA clinical services include assessment of addiction or substance abuse problems, consultation, intervention, referrals, and individual and group therapy resources. CASA also provides the Attitudes and Alternatives Program for students in violation of University alcohol and other drug policy.

**Veterans Services** provides specialized services and programs to veterans, eligible dependents, active duty personnel, and members of the Selected Reserve. The staff assists students with their use of Department of Veterans Affairs (VA) Educational Benefits, and serve as information and referral resources. Veterans Services was established to act as a liaison, whenever possible, between the VA students and the VA or various USF offices in order to help resolve problems. Veterans Services is the point where students submit all paperwork concerning VA Educational Benefits. Programs to help students financially include VA Work-Study Program, VA Deferment of Fees, Advance Payment Program and VA Tutorial Assistance. **Office Hours:** 8:00 a.m. to 5:00 p.m., Monday through Friday (except University holidays). For further information, contact the staff in SVC 2127, call 974-2291, or visit our web page (<http://usfweb.usf.edu/vetserve/>).

**Vocational Rehabilitation** services are available for qualifying students and include vocational evaluation, vocational and personal counseling and guidance, coordination of services, training assistance, provision of books and supplies, and treatment. For additional information, please call 974-2002.

### Student Health Services

**Location/phone:** SHS is located east of the USF Bookstore and north of the Student Services Building, (813) 974-2331, FAX (813) 974-8391.

**Address:** 4202 East Fowler Avenue, SHS 100 Tampa FL 33620-6750

**Internet:** [www.shsweb.shs.usf.edu](http://www.shsweb.shs.usf.edu)

**Office Hours:** Monday through Friday 8:30 a.m. to 5:00 p.m. (hours may vary on holidays and semester breaks). SHS is closed on weekends.

**After Hours Consultation:** An SHS physician is available by telephone after hours to provide medical advice and direction for currently enrolled USF students. The on-call physician may be contacted at the SHS telephone number, 974-2331.

**Emergency Services:** SHS does not provide ambulance services. If students require emergency services or immediate medical attention after hours, two nearby facilities are the University Community Hospital (971-6000) on Fletcher Avenue (north of campus) and the Doctor's walk-in Clinic (977-2777) on Bruce B. Downs Boulevard (west of campus).

Student Health Services (SHS) provides primary health care and health education services to all eligible registered students.

The SHS staff is comprised of board certified primary care physicians, advanced registered nurse practitioners, board certified physician assistants, registered nurses, licensed practical nurses and assistants, licensed laboratory technologists, certified health educators, a registered dietitian, and administrative personnel. SHS strives to provide the best possible care for the university student community.

**Eligibility and Fees:** SHS provides services to any registered student with a valid student ID card who has paid the Tampa campus health fee. USF Tampa Campus students are assessed this health fee and it is included in their tuition each semester. Students registered on campuses other than Tampa may volunteer to pay this health fee. Students taking a semester off may also elect to pay this health fee, entitling them to the same benefits as any student who is currently registered. Student Health Services accepts only Visa or MasterCard. Unpaid fees will be transferred to OASIS and payment may be made at the Cashiers Office.

**The Health Fee entitles students to**

- Unlimited visits to the ambulatory clinic
- Access to SHS specialty clinics at a reduced cost (Gynecology)
- Reduced cost for laboratory tests
- Reduced cost for medications dispensed at SHS
- Limited visits to the Counseling Center at no charge
- Unlimited access to all health education programs at no cost
- Antigen injections (If you require allergy shots, SHS can store and administer your injections. Complete written instructions must be submitted by the prescribing physician for antigen therapy to be approved by SHS's medical director.)

**Prescriptions:** SHS does not operate a pharmacy; the physicians dispense frequently-prescribed medications at the time of the visit. If the necessary medication prescribed is not available in the inventory, a prescription will be written which can be filled at any local pharmacy.

**Health Insurance:** For Student Health Services to provide optimal service to students, it is important that they have adequate health insurance. The Student Insurance Office (SIO) with the assistance of the Insurance Committee has contracted a reliable health insurance company to provide USF students with an affordable student health insurance plan for sickness and accidental injury tailored to the particular needs of college students. The SIO is there to assist students in understanding the available health insurance plans and encourages all registered students who do not have health insurance to visit the office located just west of SHS in the lower level of the Bookstore building (next to textbook buyback).

**Health Promotion Programs:**

Health Education functions as a resource for the university community regarding health and wellness issues and encourages responsible decision making and positive lifestyle choices. The department is staffed by health educators, a registered and licensed dietitian, and other support personnel. A variety of information on health topics, as well as free blood pressure, height and weight readings are available. The following services are provided free of charge unless otherwise stated, and offered upon request.

**Individual Educational Sessions:**

- HIV Antibody, Syphilis, Herpes Testing - Confidential testing is available to USF students for a fee. Referrals are made to local community agencies for anonymous HIV testing.
- Nutrition Counseling - One-on-one consultations are available to USF students. Topics include general nutrition, weight management, disordered eating, cardio vascular nutrition, diabetes, vegetarianism, or other nutrition-related issues.
- Other Individual Education Counseling - Consultations and referrals are available on other topics including STIs, birth control options, sexual health, and alcohol and other drugs.

**Outreach:**

- Educational Programs - Staff members are available for educational outreach programs. Programs can be tailored to meet the special needs of a group or organization.
- Health Promotion Activities - Health Promotion staff are frequently found around campus distributing information and materials.
- Awareness Campaigns - Throughout the year, Health Promotion develops and organizes various events, activities and materials in recognition of national awareness campaigns, including National Collegiate Alcohol Awareness Week, National Eating Disorders Awareness Week, and Sexual Responsibility Week.

**REACH Peer Education Program (Responsible Education and Action for Campus Health)**

REACH Peer Educators (PEs) are selected and trained to provide innovative and interactive educational programs and activities regarding sexual responsibility, sexually transmitted infections, contraception, alcohol and other drug awareness, and general college health to fellow students. Programs are presented in residence halls, in academic classes, and to student organizations. PEs are also involved with various health promotion activities and awareness campaigns. Students can get involved with the program as staff members or volunteers.

For more information about Health Promotion, stop by the SHS Annex, located next to the main SHS building in the lower level of the Marshall Center (beside Book Buyback) or call 813-974-4936.

**Immunization Policy****1) Introduction**

The University of South Florida requires the following immunizations for registration and specific immunization in order to be eligible for on-campus housing.

**2) Statement of Policy****A) ALL STUDENTS MUST HAVE:**

- MEASLES - proof of immunity if born after 12/31/1956
- RUBELLA - proof of immunity if born after 12/31/1956
- HEPATITIS B - proof of immunity or signed waiver declining the vaccine
- MENINGITIS - proof of immunity or signed waiver declining the vaccine except as listed below

**B) IN ADDITION, STUDENTS ELECTING TO LIVE IN ON-CAMPUS HOUSING MUST HAVE:**

- MENINGITIS - Medical documentation of immunization with Meningitis vaccine

Declining by waiver of this vaccine is not acceptable for students in on-campus housing. No student will be assigned housing without proof of vaccine.

**C) HEALTH HISTORY FORM**

All students must complete the USF Mandatory Immunization Health History Form (<http://www.shs.usf.edu/>)

**D) PROOF OF IMMUNIZATION**

Proof of immunity that will be accepted for each disease is as follows:

1. MEASLES:
  - a. Medical documentation of immunization with TWO (2) DOSES of live measles virus vaccine on or after the first birthday and administered at least 28 days apart. Persons vaccinated with killed, or an unknown vaccine, prior to 1968 must be revaccinated. Persons born before 1957 may be considered to have had a natural infection, and therefore do not need measles vaccine. The documented date of immunization for measles should indicate the day, month, and year. However, only month and year will suffice if the month and year indicate that the immunization was given at least 13 months after the month of birth. OR,
  - b. Copy of laboratory (serologic) evidence of measles immunity (IgG rubeola titer) OR,
  - c. A written, dated statement signed by a physician on his/her stationery that specifies the date seen and stating that the person has had an illness characterized by a generalized rash lasting three (3) or more days, a fever

of 101° Fahrenheit or greater, a cough, and conjunctivitis, and, in the physician's opinion, is diagnosed to have had the 10 day measles (rubeola).

2. RUBELLA:

- a. Medical documentation of immunization with live rubella virus vaccine on, or after, the first birthday. The documented date of immunization for rubella should indicate the day, month, and year. However, only month and year will suffice if the month and year indicate that the immunization was given at least 13 months after the month of birth. OR,
- b. Copy of laboratory (serologic) evidence of rubella immunity (IgG rubella titer).

3. HEPATITIS B:

- a. Medical documentation of immunization with 3 doses of Hepatitis B vaccine OR
- b. Copy of laboratory (serologic) evidence of Hepatitis B immunity (anti-HBs titer).

4. MENINGITIS:

Medical documentation of immunization with Meningitis vaccine.

**E. EXEMPTIONS:**

1. RELIGIOUS: Religious exemptions - contact USF Student Health Services for an application.

2. MEDICAL: Requests for temporary or permanent medical exemptions must be submitted to USF Student Health Services by the attending physician, must include reason for exemption and duration of exemption.

In the event of a disease outbreak, students exempted from immunization requirements may be requested by the University, at the direction of the public health officials, to show titer proof of immunity, become immunized, or remain off campus for the duration of the outbreak.

All requests for exemptions will be reviewed to ensure consistency in application.

**F. CONSEQUENCES:**

Students who fail to comply with the requirements as stated above will be blocked from registration and/or on-campus housing assignment. In specific circumstances, a temporary override may be granted; however, vaccination requirements must be completed before any further registration in subsequent terms will be permitted and current registration may be suspended if any deficiency in immunization status is identified.

**SUS Health Insurance Requirement for International Students**

The State University System of Florida requires that all international students have medical insurance in order to register for classes at USF.

**Housing and Residential Education**

**Location/phone:** RAR 229, (813) 974-0001.

**Office Hours:** Monday through Friday, 9:00 a.m. - 5:00 p.m.

The Residence Hall program is an integral part of the total educational experience offered to USF students and is staffed by caring, informed professionals, graduate students, and resident assistants. The Department of Housing and Residential Education provides students with intellectual and social experiences in a conveniently-located residence hall community and promotes a safe, secure, and healthy living-learning environment where individual differences are appreciated and respected.

Whether considering the convenient location, the availability of resources and amenities, or the student-oriented personnel

associated with the residence hall program at USF, campus living has a lot to offer. Every enrolled degree-seeking student is eligible to live on-campus. Housing information, including a student housing contract, is sent to all accepted students. Students are encouraged to submit their student housing contract immediately upon receipt to insure housing preferences may be accommodated. Florida Prepaid College Program participants with a Prepaid Dormitory Contract should note the Prepaid Dormitory Contract number in the space allotted on the Student Housing Contract.

**On-Campus Residence Halls**

Residence Halls on the Tampa campus are clustered in six centers of community activity - the Argos, Andros, Cypress, Greek, Holly, and Magnolia Complexes. Each area provides a core of services for its residents including a central service desk, mail delivery, laundry facilities, snack facilities, and swimming pool. Although the complexes provide the same basic services, they represent distinctly different options in campus living.

In the *Argos Complex*, Beta and Castor Halls offer traditional student residential living. Beta is co-ed while Castor is an all-female hall. The traditional living arrangement in these halls provides room accommodations designed for both sleeping and studying. In each of these halls, students share common bath facilities that are cleaned on a regular basis by the hall's housekeeping staff. It also offers laundry facilities, kitchens, community rooms, and snack machines.

The Andros Complex consists of nine smaller halls with suite arrangements. Delta, Eta, Epsilon, Kappa and Zeta Halls are double occupancy while Iota, Lambda, Mu and Theta are single occupancy. Theta hall is designated as the Leadership House, a program for students interested in leadership development. Each suite includes a study area and bathroom shared by 4 (single occupancy) or 8 (double occupancy) residents of the suite.

Cypress and Maple Halls also provide suite style living. These halls offer double bedrooms with a shared bathroom space between two rooms (4 people).

Holly, Magnolia and Cypress Apartments offer opportunities for students to live in apartment style housing including 4 single bedroom apartments with living room, kitchen, and two bathrooms. A limited number of 2 and 3 bedroom apartments are also available in Holly and Magnolia respectively. A small number of 2 bedroom unfurnished family units are available in Magnolia for students who are married or have children.

Kosove Apartments offers apartment accommodations housing 2-5 people in both double and single bedrooms. Students share a living room, kitchenette, and one bathroom.

Greek housing is available for fourteen nationally recognized fraternities and sororities on campus. Each Greek housing unit houses 20-28 students and consists of double room accommodations with community bathrooms and a large living room/kitchen space.

All student housing is air-conditioned and carpeted. All rooms are furnished with a bed, desk, chair, dresser and closet for each resident. Apartment style halls include a couch and chair in the living area. All rooms provide cable TV, and Ethernet access. Food service facilities are conveniently located in the Argos and Andros Complexes. Nearby swimming pools as well as basketball, tennis, and racquetball courts await students seeking leisure time recreation. In addition, students have the opportunity to become involved in planning activities for their hall by joining the Residence Hall Association.

**Off-Campus Housing**

**Location/phone:** Marshall Center 240, (813) 974-7613

**Email:** offcampushousing@sg.usf.edu

**Office Hours:** Monday - Friday 9 a.m. - 5 p.m.

The Off Campus Housing Office maintains lists of university-area apartments, condos, and other rental properties available to the public. In addition, the agency accepts roommate and rental property listings from private individuals who

do not discriminate because of race, color, or national origin. The office is open throughout the year. You may also search the on-line apartment listings on our website at [www.sg.usf.edu/offcampus](http://www.sg.usf.edu/offcampus)

### Marshall Student Center

**Location:** In the center of campus, adjacent to the Bookstore

**Web address:** [www.ctr.usf.edu](http://www.ctr.usf.edu)

The Marshall Student Center is the student union at USF. As the student union, it serves as the focal point for daily activity for students, staff, faculty, alumni and visitors. The Marshall Student Center seeks to add another dimension to campus life by providing programs, events, services and other extra-curricular activities to add to the overall experience at USF. It is the place to meet with friends, relax and unwind between classes and study sessions. It's where one can go grab a bite to eat, get involved in student organizations, play a game of pool and much more.

The offices and activities housed in the Marshall Student Center provide many of the social activities on campus. From Patio Tuesdays to concerts and shows to community service projects, the Center for Student Involvement and the Office of Student Programming have plenty of activities for the campus to enjoy. Whether it's the Campus Activities Board, the Office of Greek Life, the Center for Leadership Studies, the Center for Civic Engagement and Volunteerism, Homecoming, Student Government or the Office of Multicultural Affairs, there are many social and educational activities to enjoy on campus. Many events take place throughout the Marshall Student Center and MLK Plaza.

On the first floor is the Tampa Room Food Court. With a variety of offerings including pasta, pizza, Chick-Fil-A, sandwiches, salads and sushi, the Tampa Room is a great stop on campus. Other dining venues in the Marshall Student Center include Einstein Bros. Bagels, Freshens Smoothie Company and the fourth floor, all-you-can-eat buffet, "On Top of the Palms" restaurant.

For other diversions, visitors can stop by Centre Gallery, a student run art space with various exhibits throughout each semester. There is also the Games Room with billiards, a TV corner, and video games. The lounge on the first floor features computers for checking e-mail and plenty of space for meeting friends and relaxing.

Also in the lounge is the USF ID Card Center, where students, staff and faculty acquire their university ID cards. A satellite branch of the USF Federal Credit Union is also located on the first floor with teller windows and two ATM's. The first floor also includes STA Travel Agency, a cellular phone kiosk and a box office for ticket sales.

USF Dining Services office is located on the lower level of the Marshall Student Center where students go to sign up for meal plans and declining balance accounts for use at USF Dining Services locations throughout campus.

Through the main doors of the Marshall Student Center is the Information Desk. The Information Desk provides phone numbers, directions, bus route information and more. It is also where the Bull Market desk can be found. The Bull Market is held every Wednesday on Sessum's Mall near Cooper Hall.

The Marshall Student Center offers a wide variety of events, programs and services for the entire USF community. A new 235,000 square foot student center is under construction and will open in summer 2008.

### Student Government

**Location/phone:** CTR 203, (813) 974-2401

**Web address:** [www.sg.usf.edu](http://www.sg.usf.edu)

Any registered student may apply for membership in Student Government (SG) which consists of over 150 elected, appointed, and hired student leaders. SG is made up of three branches: the Executive (President, Vice President, and Cabinet Officers), Legislative (Student Senate), and Judicial (Supreme Court). SG also employs several Agencies to serve

student needs including SAFE Team, Student Resource Agency, WBUL Radio, and SG Computer Services. Student Government represents all student interests in programs, plans, policies, and procedures of the University and secures student representation to University governance. SG allocates and oversees the Activity & Service Fee Fund (over \$10 million) which supports many student-centered services, programs and activities, such as Marshall Center, Campus Recreation, Campus Activities Board, University Lecture Series, SG Branches and Agencies, College Councils, and over 150 student organizations. Student Government strives to assist students with all student issues, so please take the time to get to know your Student Government and find out how they can serve you.

### Office of Greek Life

**Location/phone:** CTR 006, (813) 97G-REEK (4-7335)

**Office Hours:** Monday & Thursday, 9 a.m. – 7 p.m., Tuesday & Wednesday, 9 a.m. - 9 p.m. and Fridays 9 a.m. – 5 p.m.

The Office of Greek Life advises and works with the almost 40 social/service based fraternities and sororities and their respective governing councils in areas of programming, leadership development, recruitment/intake, new member education and self-governance.

### Office of Multicultural Activities (OMA)

**Location/phone:** CTR 254, (813) 974-5111

**Office Hours:** Monday through Thursday, 8 a.m. – 11 p.m. and Fridays 8 a.m. – 5 p.m.

OMA helps to advance the cultural competence of students through the art of cultivating interpersonal and cross-cultural relationships. By way of community building, diversity awareness programming, advising, advocacy and global leadership, OMA provides inclusive and holistic development for ALL USF students.

### Office of Student Programs

**Location/phone:** CTR 259, (813) 974-1001

**Office Hours:** Monday through Friday, 9 a.m. – 5 p.m.

The Office of Student Programs offers students, faculty, staff, alumni, and community members the opportunity to have unique on-campus experiences. The variety of student-run programs offered helps the campus community to see and hear things they would not otherwise encounter. To accomplish this goal, the office is dedicated to programming diverse social, cultural, artistic, recreational, and school-spirited events. The areas that comprise the Office of Student Programs are: Basement Band Series, Campus Activities Board, Centre Gallery, Homecoming Steering Committee, and University Lecture Series. The types of events planned by these areas include concerts, comedy shows, movie screenings, art exhibits and receptions, hypnotist shows, and many more. These events range in size from small, intimate settings to large arena shows.

### Center for Civic Engagement and Volunteerism

**Location/phone:** CTR 014, (813) 974-5053

**Office Hours:** Monday through Friday, 8 a.m. – 5 p.m.

The Center for Civic Engagement and Volunteerism provides opportunities for student to participate in community service, service-learning and civic leadership programs. Through these programs, the Center provides opportunities to connect to the community, gain real-life experience, learn intellectually, socially and emotionally and gain leadership skills.

### Center for Student Involvement

**Location/phone:** CTR 215, (813) 974-7595

**Office Hours:** Monday through Friday, 8 a.m. – 6 p.m.

The Center for Student Involvement is THE place students to learn about opportunities to get involved in campus life. Through activities, programs, events, workshops, and courses,

CSI provides opportunities to learn intellectually, socially, and emotionally as part of the student life experience at USF. Departments comprised mainly of students plan and execute a variety of programs including lectures, concerts, and more. Departments include the Office of Student Programs, Center for Civic Engagement and Volunteerism, and student organizations. With hundreds of ways for students to be involved, visit the CSI website for more information at [www.involvement.usf.edu](http://www.involvement.usf.edu).

### Center for Student Leadership Development

**Location/phone:** CTR 215, (813) 974-0111

**Web Address:** [www.studentleader.usf.edu](http://www.studentleader.usf.edu)

**Office Hours:** Monday through Friday, 8 a.m. – 5 p.m.

This department is dedicated to enhancing each student's capacity and aspiration for leadership. Students who participate will learn valuable life and professional skills that will better prepare them for all their future aspirations. Opportunities include workshops, conferences, peer education, courses for credit, and individual or group trainings. Students can become "Certified Student Leaders" which will signify to future employers or graduate schools that they have been trained and are prepared to be valuable assets to any team or initiative. Visit the Center to find out how to maximize your leadership potential.

### Campus Recreation

**Location/phone:** Northwest of the Sun Dome, (813) 974-3177.

The Campus Recreation Department is designed to provide opportunities for participation in a wide variety of sports and recreational activities for the entire University community.

The Campus Recreation Department offers five distinct divisions: informal recreation, outdoor recreation, intramurals, fitness/noncredit instruction, and sports clubs. The informal recreation division administers all recreational facilities. The division assists groups in reservations and ensures availability of recreational facilities for informal, drop-in use. Facilities include indoor and outdoor pools, gymnasiums, weight room/activity rooms, tennis courts, racquetball courts, intramural fields, and jogging trail.

Through the fitness/noncredit instruction division, students have the opportunity to take a wide variety of noncredit classes ranging from aerobics to scuba. Also, the Campus Recreation Center offers the opportunity to work out in a state-of-the-art weight room as well as participate in racquetball on six 4-wall courts.

The Outdoor Recreation Division offers students the opportunity to become involved in adventure trips (hiking, canoeing, camping, etc.) as participants or as group leaders. The division also administers a fully equipped outdoor rental center and resource center. In addition, the division is responsible for the USF Riverfront Park, a complete riverfront recreational site located on the Hillsborough River, which includes a ropes/challenge course, primitive camping, and a disc golf course.

The Intramural program offers competitive and recreational tournaments in a variety of sports and recreational activities. The activities represent a broad selection of sports and include individual, team, and aquatic sports.

The sports clubs program supports a wide range of student-organized groups. The sports clubs provide for instruction, recreation, and competition in various sports activities.

Injuries occurring in any of the Campus Recreation programs are not covered by the University or the Campus Recreation Office.

Information about any of the above activities can be found at the USF Campus Recreation Center, located directly northwest of the Sun Dome, or by calling 974-3177. The department's website is: [www.usf.edu/campusrec](http://www.usf.edu/campusrec).

### Student Publications

The University encourages a program of campus communication through a publication staffed by students under the general supervision of the Office of Student Publications. The

publication is all-University in approach and coverage. A tabloid campus newspaper, the *Oracle*, is published five times weekly, Monday through Friday during the Fall and Spring, and two times weekly, Monday and Thursday, during the Summer. Containing 12 to 20 pages in each issue, it provides professional experience for those students interested in print and multimedia journalism.

Interested students are invited to apply for staff positions on the publication.

## Standards and Student Judicial Procedures

### Standards of Conduct

Just as the University maintains high standards of academic performance, the members of the University community support high standards of individual conduct and human relations. Responsibility for one's own conduct and respect for the rights of others are essential conditions for the academic and personal freedom within the University community. Self-discipline and sensitivity to the rights and interests of others are the principal elements of the University Student Code of Conduct. The Student Code of Conduct sets forth a foundation of values that represent a standard of expected behavior both inside and outside the classroom. *The University reserves the right to deny admission or refuse enrollment to students whose actions are contrary to the purposes of the University or impair the welfare or freedom of other members of the University community.*

Students have often asked for advice on standards of dress and personal appearance. The University does not have a formal dress code but campus attire is expected to be appropriate for the activity in which the individual is engaged.

### Judicial Procedures

Student judicial procedures are followed when a student fails to exercise his/her responsibility in an acceptable manner or commits an offense as outlined in the student handbook (<http://www.sa.usf.edu/srr>). The University disciplinary procedures afford students the opportunity to participate in discussions of the matter and to present information in one's own behalf, to seek counsel in one's own best interest, and the right of appeal. Students are entitled to participate in the development of standards of conduct supporting their interests in the purpose of the University. The University Judicial procedures are described in the student handbook.

**For Non-Academic Grievances:** In order to assure students the right to redress of grievances, the Office of the Vice President of Student Affairs is responsible for a grievance procedure involving non-academic matters. Any student may file a question, complaint, or statement of grievance in the Office of the Vice President of Student Affairs, in person or in writing. A course of action or other answer will be given by the Office of the Vice President of Student Affairs, as soon as possible.

**For Academic Grievances:** Students should follow the academic grievance procedure.

## OTHER STUDENT SERVICES

### Intercollegiate Athletics

USF fields 18 intercollegiate sports for men and women, all at the NCAA Division I level. In men's competition, USF has baseball, basketball, football, soccer, cross country, outdoor track, golf and tennis. Women's competition includes basketball, softball, tennis, golf, cross country, indoor and outdoor track, sailing, soccer and volleyball.

USF joined the Big East Conference on July 1, 2005 and now competes with prestigious universities including Connecticut, Cincinnati, DePaul, Georgetown, Louisville, Marquette, Notre Dame, Pittsburgh, Providence, Rutgers, St. John's, Seton Hall, Syracuse, Villanova and West Virginia.

We are excited about the addition of our new 104,000 square foot Athletic Training Facility, which opened in the spring of 2004. The Sun Dome, opened for the 1980-81 basketball season, is a unique and dynamic multipurpose facility. Lighted stadiums for the school's softball, baseball, soccer, and track teams provide pleasant conditions for both the athletes and the spectators. The school also has an 18-hole championship golf course, and varsity tennis courts. The Bulls football team competes in Raymond James Stadium, a state of the art facility opened in 1998 and shared with the Tampa Bay Buccaneers. USF students receive free admission to all regular season competitions and are offered free bus transportation from the Marshall Center to the stadium for all home football games. Buses return to USF at the end of the game.

### University Bookstores

The on-campus bookstores are owned by the University of South Florida and operated by Barnes & Noble College Bookstores, Inc. The primary function of the university bookstores is to extend services to the students, faculty, staff, alumni and visitors of the university. The USF Bookstore and the Health Sciences Bookstore are located on the Tampa Campus. The St. Petersburg Campus Bookstore is located on the St. Petersburg Campus. VISA, MasterCard, Discover and American Express are accepted at all stores. The USF Debit Card may also be used for purchases in the Tampa Campus store.

#### The USF Bookstore & Cafe

**Location/phone:** On Martin Luther King Plaza between the Marshall Center and the Student Services Building. Customer Service: (813) 974-2631

**Usual Hours:** Monday through Thursday from 8:00 a.m. - 7:00 p.m., Friday from 8:00 a.m. - 5:00 p.m. and Saturday from 10:00 a.m. - 4:00 p.m. Extended hours and additional registers open at the beginning of each term.

**Web address:** <http://sftampa.bkstore.com>

The bookstore offers a wide variety of books and merchandise including: all course-required supplies and textbooks; a complete selection of writing implements, folders, paper and other class supplies; a wide selection of fiction, nonfiction and magazine titles; college clothing; class rings; imprinted souvenirs and gift items. The Main Bookstore at the Tampa Campus also features a full service café proudly serving Starbucks products. Visit the café for lunch or a coffee break.

Personnel are available to assist customers in finding and/or ordering course texts and general books. A continuous Buyback Program offers a source for cashing in used textbooks. We also provide an on-line store for textbook reservations and/or delivery for every semester.

#### Health Sciences Bookstore & Cafe

**Location/Phone:** Medical Center (MDC 1050), (813) 974-4984

**Usual Store Hours:** Monday through Friday from 7:30 a.m. to 5:00 p.m. Extended hours at the beginning of each term.

**Usual Cafe Hours:** Monday through Friday from 7:30 a.m. to 2:00 p.m.

**Web address:** <http://usfhsc.bkstore.com>

Store features medical textbooks and equipment, professional apparel, USF-imprinted clothing, greeting cards, balloons, gifts, candy, snacks, cold drinks and other items.

#### St. Petersburg Textbook Store

**Location/Phone:** Coquina Hall (COQ 101) on the St. Petersburg USF Campus, (727) 553-1141

**Usual Hours:** Monday through Thursday 9:00 a.m. to 6:00 p.m. and Friday from 9:00 a.m. to 5:00 p.m. Extended hours at beginning of each term.

**Web address:** <http://usfstpete.bkstore.com>

The USF Bookstore at the St. Petersburg campus offers textbooks for St. Petersburg classes, general books, clothing, greeting cards, gifts, school supplies and a variety of general merchandise items.

#### St. Petersburg Bookstore

**Location/Phone:** Campus Parking Garage (FPF), (727) 873-2024

**Usual Hours:** Monday through Saturday 8:00 a.m. to 9:00 p.m. and Sunday from 12:00 p.m. to 7:00 p.m.

This USF Bookstore offers a large selection of general books and a cafe serving a selection of lunch and dessert items, as well as, Starbucks products.

#### Lakeland Bookstore

Lakeland students purchase their books on-line at [www.bookstore.usf.edu](http://www.bookstore.usf.edu) or from the link on OASIS. Buyback dates are scheduled at the end of each semester.

#### Sarasota Bookstore

**Location/Phone:** 6301 Tamiami Trail, (941) 355-5252

**Usual Hours:** Monday through Thursday 9:00 a.m. to 5:00 p.m. and Friday from 9:00 a.m. to 3:00 p.m.

**Web address:** <http://usfsarasota.bkstore.com>

The USF Bookstore at the Sarasota campus offers textbooks for Sarasota classes, general books, clothing, gifts, school supplies and a variety of general merchandise items.

### USF Dining Services

#### Great Food on Campus

No matter what you are looking for, USF Dining Services has all kinds of great places for you to eat on campus! Save time and money by opening a dining plan or Declining Balance account. Visit [www.usfdining.com](http://www.usfdining.com) or come by our Sales Office (lower level of the Marshall Center) for more information.

#### All-You-Care-To-Eat Dining

**Fresh Food Company (Argos Center)** – Offers unlimited servings from stations such as American Diner, Mediterranean Kitchen, Fresh Produce, and Accents. There is no kitchen - all stations feature exhibition-style cooking using only the freshest of ingredients!

**The Bulls Den Cafe (Andros Center)** – Offers unlimited servings of home-style foods, grill items, pizza, salads, and desserts. Try out our late night breakfast buffet!

**On Top of the Palms (Marshall Center 4<sup>th</sup> Floor)** – A sophisticated dining restaurant with a gorgeous view of the campus. Offers buffet selections, carving station, exhibition cooking, plated entrees, and assorted desserts. Students welcome - get a discounted rate with Flex Bucks or Declining Balance.

#### A La Carte Dining

**Tampa Room (Marshall Center 1<sup>st</sup> Floor)** – Choose from selections at Montague's Deli, Chick-fil-A, Bène Pizza and Pasta, SUSHI, and an Asian rice bowl concept.

**Einstein Bros. Bagels (Marshall Center 1<sup>st</sup> Floor)** – A national bagel brand offering bagels, sandwiches, Bagel Dogs, salads, desserts, and more.

**Freshens Smoothie (Marshall Center 1<sup>st</sup> Floor)** – Popular for ice cream and juice smoothies – all made with fresh fruit. Now serving Hebrew National hot dogs with your favorite toppings.

**Burger King (Sessums Mall)** – Get any of your favorite grilled sandwiches without leaving campus!

**Starbucks (Library)** – A popular coffee chain offering coffee, espresso, tea, and pastries.

**COBA Café (College of Business)** – Grab a cup of joe, a smoothie, or pastries at the Java City or a sandwich from our brand new Boar's Head Deli.

**Subway (Cooper Hall)** – Get any of your favorite Subway subs right here on campus!

**C3 Convenience Store / Ben & Jerry's (Andros Center)** – Full convenience store for all of your grocery needs including beverages, snacks, frozen foods, dry goods, bulk candy and more! Or get a scoop of Ben & Jerry's famous ice cream!

**Express Shop (Engineering)** – Offers a variety of grab-n-go items such as sandwiches, salads, sweet and salty snacks, and beverages.

**Health Sciences Café (Health Science Bookstore)** – Starbucks specialty coffee, including espresso, cappuccinos, iced coffees; now serving Boar's Head deli and soups, Fresh Market Smoothies, grab-n-go sandwiches and salads and more.

#### **Sales Office**

Marshall Center Lower Level, Room 40

Start a dining plan, open or add to declining balance, or to ask questions.

(813) 974-4499 phone

(813) 974-3434 fax

NOTE: Information is subject to change. For the latest updates and hours of operation, please visit our website at [www.usfdining.com](http://www.usfdining.com).

#### **USF I.D. Card**

The USFCard is the official I.D. card of the University of South Florida. It provides electronic verification and validation for a variety of University services and functions. University policies require that all student, faculty and staff members carry the USFCard while on campus. Students may be denied services if they do not have one. The USFCard may also be used to make purchases from on-campus copiers, snack and vending machines equipped with card readers. Value can be added to the vend stripe at Cash-to-card machines located around campus. If a student has an account with the USF Federal Credit Union, the USFCard can be used as an ATM card. For additional information: <http://www.auxsvc.usf.edu/usfcard.html>

# INTERNATIONAL AFFAIRS

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

## OFFICE OF THE DEAN

*Location/Phone:* CPR 475, (813) 974-4090

*Email:* [publicaffairs@iac.usf.edu](mailto:publicaffairs@iac.usf.edu)

*Web Site:* <http://global.usf.edu/>

International Affairs provides leadership, advocacy, development, and support for all central and college-based international activities. International Affairs works in collaboration with the colleges and regional campuses to promote international education, research, outreach, and service programs. International Affairs is comprised of International Admissions, International Student and Scholar Services, Study Abroad and the Institute for the Study of Latin America and the Caribbean. International Affairs leads the development of academic program offerings (area studies) and services, international exchanges, partnerships with business, industry, and government both in the U.S. and overseas, the development of the international activities, and the development of enhancement of faculty, student, and staff training and development.

### Institute for the Study of Latin America and the Caribbean (ISLAC)

*Location/Phone:* CPR 474, (813) 974-3547

*Email:* [islac.assistant@iac.usf.edu](mailto:islac.assistant@iac.usf.edu)

*Web Site:* <http://global.usf.edu/islac/>

The mission of ISLAC is to promote the study of Latin America and the Caribbean, to further USF's strategic plan for internationalization. ISLAC is an academic unit devoted to interdisciplinary research and teaching focused on economic, social, political and cultural formations in Latin America and the Caribbean and among the Hispanic/Latino populations in North America, framing these issues in the broader context of human security in the Americas. ISLAC has 72 affiliate faculty members who are drawn from a number of social science, humanities, arts, and human service fields, including, but not limited to, History, Languages and Literature, Humanities, Anthropology, Political Science, Sociology, Economics, Business, Geography, Public Administration, Fine Arts, Public Health, Education and Mental Health.

With the College of Arts and Sciences, ISLAC offers a Certificate in Latin America and Caribbean Studies, open to undergraduate students enrolled in any USF major and a Graduate Certificate in LACS, as well as USF students and non-degree seeking students who have already obtained a BA. ISLAC also offers a Graduate Certificate in Cuban Studies and a Masters of Arts (M.A.) in Latin America and Caribbean Studies. All ISLAC academic programs are interdisciplinary, flexible and applied.

The Institute fosters greater knowledge of Latin America and the Caribbean, and Latino issues, through partnerships with community organizations and USF departments to sponsor lectures and cultural events that are open to the public throughout the year. ISLAC faculty and staff are engaged with USF administration to strengthen community ties and to advance the internationalization of USF programs, research, curricula, faculty and students.

### Office of International Services

*Location/Phone:* CPR 469, (813) 974-5102

*Email:* [collymore@iac.usf.edu](mailto:collymore@iac.usf.edu)

*Web Site:* <http://global.usf.edu/iss/>

The University of South Florida welcomes qualified students from all over the world to our campus community. The resulting international educational exchange leads to the enrichment of our common life, the intellectual development of our students, the research endeavors of the University, and mutual understanding between the peoples of the world represented at USF. The ensuing exchange of life stories exposes all USF students,

faculty, and staff to the likenesses and differences that exist between cultures, worldviews, experiences, and ideas.

International Services is the main administrative and advising office for over 1,400 international students and 150 visiting faculty members and researchers at USF. International Services has many administrative duties, including the issuance and maintenance of all visa documentation for foreign nationals at the University. International Services staff persons are experienced in cross-cultural counseling and crisis management in a cross-cultural setting. Services offered by International Services include advising related to immigration matters, adjustment to life in the United States, culture shock, and other personal and academic issues. International Services also offers programming such as employment workshops, international student orientations, town meetings and culture shock presentations. International Services staff advises a number of international organizations on campus including the InterCultural Organization and the American Mentors Program. These organizations help foster cultural awareness on campus and assist international students in adjusting to a new culture. For more information about International Services, please call (813) 974-5102.

### Education Abroad Office

*Location/Phone:* CPR 468, (813) 974-4314

*Email:* [studyabroad@iac.usf.edu](mailto:studyabroad@iac.usf.edu)

*Web Site:* <http://global.usf.edu/studyabroad/>

USF offers students the world as their classroom through its programs abroad. Whether a student chooses a short-term summer program, a semester or year at a university overseas, an internship or service learning, there is a program for nearly every student need. Studying abroad provides a unique learning environment, which extends and enhances courses taken on the home campus. Students can study abroad at any time in their academic careers, and have a wide range of study options.

USF overseas programs are designed to appeal to a wide audience. Students in most disciplines can find a program of study to complement their undergraduate degrees. Courses provide USF credit and thus students can be assured that if they plan carefully, they will continue to make steady progress towards graduation while they are abroad. Students seeking to round out their resumes with experiences abroad, which include internships and service learning, will find options for them also. Several programs of overseas study lead to dual degrees, certificates, or double majors.

Many programs include organized cultural excursions, visits to important sites, and opportunities to interact with local people. All include unparalleled opportunities for cultural immersion and in-depth insight into the host country.

USF study abroad programs range in length from one week (over spring break) to a year. A large number of faculty-led summer programs of 2-6 weeks provide the opportunity to concentrate study abroad in a summer session and help students fulfill the 9-hour summer graduation requirement. All programs are developed as cost-effectively as possible, recognizing the financial concerns of today's students. Federal and state financial aid can be applied to USF programs abroad, and some additional scholarship assistance is available through the Education Abroad Office.

For additional information or for individual program brochures, please visit the Education Abroad Office, or access the

# FINANCIAL INFORMATION

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

## Florida Residency For Tuition Purposes

This notice summarizes the provisions of Florida School Code (SB20-E) Section 1009.21 and University Policy/Procedure concerning Florida Residency for tuition purposes.

In determining residency classification, students fall into one of two categories. They are either *independent students* (students *not* claimed on parent's or legal guardian's federal income tax statement or whose parents do not provide 50% or more of their support) or *dependent students* (students, regardless of age, who are claimed as dependents by parent or legal guardian on federal income tax statement or whose parents provide 50% or more of their support).

The law basically requires that a U.S. citizen/permanent resident alien/independent student or a dependent student's parent/legal guardian has established and maintained a **LEGAL** Florida residence for at least twelve (12) months before the first day of classes of the term for which Florida residency status is sought.

USF is required to obtain documentation of 12 months' legal residence before a student is classified as a Florida resident for tuition purposes. A student is required to request Florida residency in writing and submit supporting documents no later than the fifth day of classes in the term for which classification is sought.

The following is acceptable, non-conclusive evidence of the establishment of a legal residence in Florida. Two documents must be dated/issued at least 12 months before the first day of classes of the term for which Florida residency is sought.

1. Proof of purchase of permanent home in Florida.
2. Declaration of Domicile.
3. Florida's driver's license.
4. Florida voter's registration.
5. Florida vehicle registration.
6. Florida vehicle title.
7. Professional/occupational license issued in Florida.
8. Florida incorporation or other evidence of legal residence in Florida.
9. Full-time, non-temporary employment in Florida.

For more information regarding residency for tuition purposes please visit: <http://www.registrar.usf.edu/Residency/>

**PLEASE NOTE:** Rent receipts, leases, employment records, tax returns, school/college records are **NOT** evidence of establishing a legal Florida residence. Students who are dependent on out-of-state parents or who come to Florida for educational purposes are generally ineligible for reclassification to Florida status.

In rare cases, the law allows some students (e.g., military, public school teachers, etc.) who do not meet the basic requirements to be classified as Florida residents for tuition purposes. For more information about exceptional categories, contact the Admissions Office, the Office of the Registrar, or the Office of the General Counsel.

## Fees

The levels of the Activity and Service Fee, the Health Fee, and the Athletic fee are determined on each campus by a student fee committee appointed by the President of the University and the Student Government President. The committee includes USF faculty and students with the majority of the committee being students. The fees may be reviewed on a yearly basis.

Registration fees are assessed in accordance with University Board of Trustees rules. **All fees are subject to change without prior notice. The University will make every effort to advertise any such changes if they occur.**

1. **Admissions Application Fee**  
(Each application - not refundable) \$30.00
2. **Non-degree Application**  
(Each application - not refundable) \$30.00
3. **Tuition**

Schedule/Fee Statements are no longer mailed. Tuition is due by the fifth day of each term. Students may view and/or pay their current term fees online by accessing the "Tuition,

Fees & Payments" option in OASIS at <http://usfonline.admin.usf.edu/>.

The student is responsible for paying fees in full by the appropriate due date stated in the particular term's "Schedule of Classes." Failure to do so may result in cancellation of the student's registration. Fees paid by mail must be postmarked by the post office, *not* office meter stamped, on or before the fifth day of the term. Checks are payable to USF. To avoid a \$100.00 late payment fee, all tuition fees must be paid or postmarked by the U.S. Post Office, not office metered, by the fifth day of the term. The University cannot be responsible for lost or misdirected U.S. Postal mail. A student whose registration has been cancelled may request registration reinstatement through the fourth week of class for the academic term. Note: All students who successfully petition for reinstatement from financial cancellation due to non-payment will be assessed a \$100 late registration fee. Upon approval for reinstatement, all fees and other debts owed to the University must be paid in full by cash, money order, check or credit card before reinstatement will be affected.

Current fees are posted in the Schedule of Classes and on the OASIS web site (<http://usfonline.admin.usf.edu/>).

- a. **Students who *only* register for a co-op assignment** must pay a minimum of one (1) hour at the level of the co-op assignment.
  - b. **Cashier's Office Hours** - Regular Registration - See regular registration dates and times in "Schedule of Classes." Regular Cashier's Office hours are Monday, Wednesday, Thursday, Friday from 9:00am - 5:00pm and Tuesday from 9:00am - 6:00pm.
  - c. **Tuition fee payment** : access the "Tuition Fees and Payments" option in OASIS at <http://usfonline.admin.usf.edu/>.
  - d. **Off-Campus College of Education Courses**  
Students enrolling for off-campus (Continuing Education) courses will be assessed fees according to the fee structure "a" above. Continuing Education courses are designated by the "700 series" section number. The "Schedule of Classes," which is printed each semester, should be used as a reference for updated information.
4. **Late Registration Fee**  
All degree seeking students who initiate (i.e., those students who have not enrolled for any courses during early or regular registration) their registration during the late registration period will be automatically assessed a \$100.00 late registration fee.  
All non-degree seeking students who have not registered for any courses by the end of the first week of classes will be automatically assessed a \$100.00 late registration fee.  
All students who successfully petition for late registration into a course or for reinstatement from financial cancellation due to non-payment will be automatically assessed a \$100.00 late registration fee.
  5. **Financial Aid Disbursement**  
Upon satisfaction of eligibility criteria, financial aid will be credited to student accounts after the drop/add period is over. Monies in excess of charges will be electronically deposited to each student's checking account via eDeposit, or checks will be mailed to student's local address.
  6. **Cancellation for Non-Payment of Fees**  
Students not on an authorized deferred payment of fees and who have not paid their tuition fees in full by a specified day (per "Schedule of Classes") will have their registration for that term cancelled. This means, specifically, that a student will receive no credit for any courses taken during that term.
  7. **Intern Certificate of Participation**  
Individuals who have supervised interns may register for courses during a term by presenting their intern Certificate of Participation. The Intern Participation Certificate effective July 1, 1997 states that certificate holders are entitled to a waiver of **only matriculation fees** for a maximum of six (6) credit hours instruction during a single term. Certificates are

valid for three years from the date of issuance. Fees must be paid or postmarked by the U.S. Post Office (not office meter marked) by the fifth day of the term. The University cannot be responsible for lost or misdirected U.S. Postal mail.

#### 8. Employee Tuition Program

The USF Employee Tuition Program authorizes full-time USF employees that are appointed to established positions, to enroll in USF credit courses, up to six credit hours per semester. For summer, terms A, B, and C are all parts of one semester. The employee must be appointed prior to the first day of class and is expected to be employed full-time past the end of the semester for which enrolled. For additional information, please visit the Human Resources website at <http://usfweb2.usf.edu/usfpers/procedures/edasst/overview.htm>.

#### 9. Tuition Deferment for VA Students

Students receiving VA benefits who have applied in writing no later than the date specified in the "Schedule of Classes" for the deferment in Veterans Services have until a specified date (see *Schedule of Classes*) to pay tuition in full.

#### 10. Florida Prepaid College Program

Students who are eligible to receive benefits under this program are responsible for the local portion of fees. This fee must be paid or postmarked by the fifth day of the term to avoid being cancelled or charged the \$100.00 late payment fee.

#### 11. Mailed Payments

To avoid cancellation of registration or a \$100.00 Late Payment Fee, all fee payments must be postmarked, by the **post office not office metered**, by the applicable fee payment deadline listed in the Academic Calendar.

#### 12. Returned Registration Checks

A student's current registration is subject to cancellation if the check presented in payment of those fees is returned to the University unpaid. Dishonored fee payment checks must be redeemed within 10 calendar days to avoid cancellation of a student's current registration. **A \$100.00 Late Payment Fee and a \$25.00 administrative charge will be assessed on any registration check returned unpaid to the University.**

#### 13. Meal Plans 2007-2008

Mandatory resident students: USF requires students to participate in a two-semester meal membership if you have not lived in the residence halls prior to Fall 2007 (summer residence not included). Magnolia Apartment residents are not considered mandatory. Please note: rates and plans are subject to change. Please visit our website at [www.usfdining.com](http://www.usfdining.com) or our Sales Office in the Marshall Center (room 40) for the most up-to-date information.

**All meal plans are a two-semester commitment** - you must sign up for the same amount (dollar value plan) in the Spring semester as you did in the Fall semester.

#### Traditional Meal Plans

All meals are eaten at the Fresh Food Company and The Bulls Den Cafe. Flex Dollars can be used at any USF Dining location on campus. Meals do not roll over from semester to semester (or week to week with the Any 15). Flex Dollars roll over from Fall semester to Spring semester with the renewal of the meal plan for the Spring semester. Unused Flex Dollars are forfeited at the end of the Spring semester. Meal plan portion is already taxed.

#### Available to all students (residents and commuters):

Unlimited Plan + \$175 Flex Dollars	<b>\$1752.59</b>
Any 15 Plan + \$325 Flex Dollars	<b>\$1599.12</b>
BULLBlock 150 + \$175 Flex Dollars	<b>\$1422.65</b>

**All prices are for one semester only.**

**Available to mandatory resident students living in Kosove, Holly, Cypress Apts or Greek Housing, voluntary resident students, and commuter students:**

BULLBlock 90 + \$325 Flex Dollars **\$1014.17**  
**All prices are for one semester only.**

**Available to voluntary resident students and commuter students:**

BULLBlock 50 + \$315 Flex Dollars	<b>\$748.40</b>
FlexiBULL 500 (receive \$550)	<b>\$500</b>
FlexiBULL 300 (receive \$330)	<b>\$300</b>

**All prices are for one semester only.**

#### Declining Balance Account

A Declining Balance (DB) account is available to commuter students, voluntary resident students in place of a traditional meal plan, or to a mandatory resident student as a supplement to the dining plan. DB funds can be used at any dining location on campus, including the Fresh Food Company and The Bulls Den Cafe. There are special discounts associated with using DB money at some of the dining locations. There is no fee, no minimum to maintain and the money rolls over through the semesters and the years.

#### Sales Office

Marshall Center Lower Level, Room 40

Start a dining plan, open or add to declining balance, or to ask questions.

(813) 974-4499 phone

(813) 974-3434 fax

NOTE: Information is subject to change. For the latest updates and hours of operation, please visit our website at [www.usfdining.com](http://www.usfdining.com).

### Refund of Tuition/Fees Payment Release of Tuition/Fees Liability

The following refunds, less deductions for unpaid debts to the University, are authorized. A Refund Request form must be completed and presented to Cash Collections, ADM Room 125, in the Division of Purchasing and Financial Services to initiate the refund process. A two-week waiting period is observed for each refund to be sure checks have cleared.

- 100% of registration fees and tuition will be refunded if notice of withdrawal from the University is approved prior to the end of drop/add period and written documentation is received from the student.
- 25% of registration fees and tuition paid less building and capital improvement fees, will be refunded if notice of withdrawal from all courses from the University is approved prior to the end of the fourth week of classes (summer term is prior to the end of the third week of classes) and written documentation is received from the student.

#### Fee Adjustment Request After Fifth Day of the Term

Effective January, 1989, USF approves a refund of 100% of the tuition and registration fees if a student withdraws or drops a course due to circumstances determined by the university to be exceptional and beyond the control of the student. These situations must be documentable. Requests for fee adjustments must meet one of the conditions below to be considered.

- 100% of registration fees and tuition will be refunded when a student withdraws or drops a course due to circumstances determined by the University to be exceptional and beyond the control of the student, including but not limited to:
  - 1) Illness of a student of such severity or duration, as confirmed in writing by a physician, to preclude completion of the course(s),
  - 2) Death of the student or death in the immediate family (parent, spouse, child or sibling) as confirmed by documentation indicating the student's relationship to the deceased,
  - 3) Involuntary call to active military duty as confirmed by military orders,

- 4) A situation in which the university is in error as confirmed in writing by an appropriate University official,
  - 5) Other documented exceptional circumstances beyond the control of the student that precluded completion of the course(s) accompanied by letter of explanation and appropriate documentation.
- b. Students who receive financial aid and subsequently change their enrollment status that results in a refund in accordance with this subsection, may have all or a portion of their refund returned to the University's financial aid programs in accordance with the Financial Aid Policy on Refunds and Repayments.

### Payment of Accounts Due the University

Charges against students for loss or breakage of University equipment, books, fines and other charges are due immediately. Delinquent accounts may be considered sufficient cause for cancellation of registration. University regulations prohibit registration, or release of transcript, diploma, or grades for any student whose account with the University is delinquent. Delinquent accounts may be turned over to a collection agency and all collection costs including legal fees will be added to the student account balance. Financial aid from a succeeding academic year cannot be used to repay prior academic year debts. Payments can be brought into the Cashier's Office in the Administration Building, mailed to University Controllers Office, USF, 4202 E. Fowler Avenue, Tampa, FL 33620-5800, or can be made online by accessing OASIS at <http://usfonline.admin.usf.edu/> and should be made by the appropriate deadline.

### Financial Aid

In addition to finding a wealth of information on the Web regarding your financial aid, you can apply for aid and monitor your aid application at USF via the Financial Aid Web: <http://www.usf.edu/finaid> and via OASIS: <http://usfonline.admin.usf.edu/>.

Complete and submit the FAFSA online at <http://www.fafsa.ed.gov>. Be sure to list the University of South Florida, school code #001537, as a school to receive your information.

Since many programs are funded on a limited basis, it is to your advantage to apply early. Priority application dates and detailed information regarding financial aid are provided each year on our Web site. Conduct a nationwide scholarship search: <http://www.fastweb.com/> and check out USF's scholarship information: <http://www.usf.edu/finaid/scholarships.html>.

The Office of Financial Aid communicates important information regarding your aid via e-mail throughout the year. Therefore, it is extremely important that you ensure that your current e-mail address for financial aid is in OASIS.

Tuition, housing and meal plan deferments are automatically posted for qualified financial aid applicants. Short-term loans are also available for limited use. The deadline for deferred tuition payment and details about short-term loans can be found at [www.usf.edu/finaid/](http://www.usf.edu/finaid/).

We are required by federal regulations to verify your last date of attendance in classes, at the end of each semester. If you receive all F, I, U or M grades for a term you will be considered an "unofficial" withdrawal. After grades are posted, you will be notified that you are being considered an "unofficial" withdrawal. After 30 days, we are required to begin the return to Title IV Repayment calculation and billing process and assume you unofficially withdrew at the 50% point of the term. To ensure your Last Date of Attendance is documented correctly, you may submit the Verify Last Date of Attendance form to your instructor and return it to the Office of Financial Aid. The calculation will be revised to include the new date and the amount you owe may be revised. You will be notified of the result of our review. It may take 2-4 weeks to restore funds that were billed and returned to the Federal Student Aid programs (including loans). The amount of federal aid that you must repay is determined via the

Federal Formula for Return of Title IV funds (Section 484B of the Higher Education Act). This law also specifies the order in which funds are to be returned to the financial aid programs from which they were awarded, starting with loan program.

Each campus has financial representatives. Tampa (813) 974-4700; Lakeland (863) 667-7028; Sarasota (941) 359-4459; St. Petersburg (727) 553-4128. If you are outside the calling area, call us at 1-877-USF-BULLS.

### Academic Scholarships

1. The Scholarship Resource Office, which is part of the Financial Aid Office, provides prospective and currently enrolled students with a central location to access scholarship information. The office administers The First Generation Matching Grant, The Florida Bright Futures Scholarships for USF students, a variety of privately-funded scholarships made possible through the generosity of friends and alumni of the University. The Scholarship Office also manages the scholarship renewal process for students who have been awarded scholarships through the Undergraduate Admissions Office.
2. The Office of Undergraduate Admissions at the University of South Florida offers a number of scholarships based on academic merit to students planning to enter USF for the first time as a freshman or upper-level transfer student. These scholarships are highly competitive. The criteria noted for the various scholarships are used as minimum starting points for consideration; meeting or exceeding the minimum requirements will not guarantee selection. For non-Florida residents, a limited number of out-of-state tuition waivers are available based on academic performance.
3. The individual colleges of the University (the College of business, the College of Education, etc.) administer some scholarships directly through the Dean's Office in each college. New students and transfer students are advised to contact the USF Office of Undergraduate Admissions first, and then the individual colleges regarding scholarship opportunities.

### Parking and Transportation Services

#### Do I have to have a parking permit?

Parking permits are required to park at the University of South Florida 24 hours a day, 7 days a week, including holidays. Permit types are used to designate parking locations on campus, such as resident, non-resident, Park-n-Ride, visitor, staff, etc. Each person may purchase only one vehicle permit (an additional permit for motorcycle, and/or a bicycle is allowed). Permits shall be purchased for the campus of primary assignment. If you don't have a permit, you must park at a metered parking space or a timed space. For additional permit information visit our website at [www.usf.edu/parking\\_services](http://www.usf.edu/parking_services) or call 974-3990, Option #1.

#### How do I obtain a permit?

Visit the Parking & Transportation Services website [www.usf.edu/parking\\_services](http://www.usf.edu/parking_services). Establish a parking services account and purchase your permit online. Parking permits may also be purchased at the following locations:

#### Tampa Campus Parking and Transportation Services

(Located off of USF-West Holly between USF-North Palm and USF-Magnolia)

Parking Service Lobby hours: Mon – Thurs 7:30 am to 5:30 pm, Fri 7:30 am to 5:00 pm

#### St. Petersburg Campus Bay 132 Business Office

Mon – Thurs 8:00 am to 6:00 pm, Fri 8:00 am to 5:00 pm

## 32 FINANCIAL INFORMATION

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

**Sarasota Campus** 830 N. Tamiami Trail USF-SMC B116  
Mon – Fri 8:30 am to 5:00 pm

All office hours are subject to modification and are extended at the beginning of the term. Visit our website [www.usf.edu/parking\\_services](http://www.usf.edu/parking_services) for office location and hours of operation.

Daily visitor permits can be purchased from the Campus Information Center (USF-Leroy Collins Blvd. & Fowler Ave.) Monday – Thursday 7:00 am – 6:00 pm and on Friday 7:00 am – 5:00 pm, also from parking permit machines located within designated visitor lots. Parking maps and brochures are available with details and lot designations.

### Do Visitors need a parking permit?

Yes. The daily parking fee is currently \$4.00. The fee is applicable to visitors and event attendees who park in visitor lots as defined in the parking brochure. Faculty, staff, students and vendors are not eligible for these permits. Visitors may take advantage of the Fare Free Campus Shuttle to travel to their destinations on campus with a Bull Runner pass or USF ID.

### Bull Runner

Bull Runner bus service is provided to USF faculty, staff, students and visitors from 7 a.m. until midnight, Monday through Thursday, and 7 a.m. to 5:30 p.m. on Friday. The C & D routes run Saturday and Sunday from 2:30 p.m. to 9:30 p.m. Bull Runner routes cover the entire USF Tampa Campus, and the following off campus locations: 42nd St., Skipper Rd., and 46th St.; and the University Mall with a stop at UATC. Visitors must be accompanied by a USF ID Card holder to board the bus or have a Bull Runner pass. The weekend routes (C & D) offer extended service to the USF Library, University Mall and various shopping locations. Check out our Web site at [www.usf.edu/bullrunner](http://www.usf.edu/bullrunner) for the most up to date information. Routes and schedules are subject to modification. Ride the Bull Runner and save time and money.

In addition to the Bull Runner, USF students may ride Hartline routes fare free with their USF (ID) card. For more information call Hartline at 254-4278 or visit their web site at [www.hartline.org](http://www.hartline.org).

### Motorist Assistance Program (M.A.P.)

#### How can I get help when I have a problem with a vehicle?

Keys locked in your car? Need to jump start your car? Low tires? Call Parking and Transportation Services Motorist Assistance Program (MAP) at (813) 974-3990, Option #5. This FREE service is provided Monday – Thursday from 8:00 am until 8:30 pm, and Friday 8:00 am until 4:30 pm (except holidays) by Parking and Transportation Services.

### Bicycle Permits

Permits for bicycles are FREE! A bicycle permit registers the bicycle and can provide information to the police in the event of loss.

### What happens if I get a parking ticket?

Parking regulations are designed to provide safe and orderly parking. Violation of these regulations can result in parking citations, immobilization of your vehicle, towing, or loss of parking privileges. Creating, modifying, altering a parking permit or being in possession of a lost or stolen permit is a serious violation and will result in immediate immobilization or towing of the vehicle and possible revocation of campus parking privileges. If you receive a parking citation and believe that extraordinary or mitigating circumstances warrant a waiver then you may petition Parking and Transportation Services within 14 days for reconsideration. Respond to parking citations within 14 days of issuance to avoid late fees. Most common citations are for no permit, expired parking meter, and parking out of assigned area. To appeal a parking citation visit our website [www.usf.edu/parking\\_services](http://www.usf.edu/parking_services), and file your ap-

peal electronically. Failure to respond to parking citations could result in collection agency efforts and additional cost.

### Additional Questions?

Visit the Parking and Transportation Services website at [www.usf.edu/parking\\_services](http://www.usf.edu/parking_services). You can check your account status, update vehicle information, and submit questions and suggestions. Check for all late breaking news and updates concerning parking and shuttle service. Or you may contact the Tampa Campus Parking & Transportation Services at (813) 974-3990.

## Special Services

### Department of Veterans Affairs (VA) Benefits

USF is approved for the education of veterans, eligible dependents, members of the selected reserve, and active-duty personnel who are eligible for benefits under public laws now in effect. All degree programs currently offered at USF are approved by the State Approving Agency.

Students who may be eligible for benefits are urged to contact Veterans Services for information, procedures, and forms as early as possible. To initiate, change, or renew benefits at USF, a request must be submitted through that office.

To be eligible for full-time VA benefits at USF, undergraduate students must enroll for 12 or more semester hours, and graduate students must enroll for 9 or more semester hours each normal academic term.

VA regulations require that students take only courses that are applicable to their degree program or other approved programs and make satisfactory progress toward their degree. Students should consult the "Handbook for VA Students" (available at their local USF Veterans Services office) or log on to USF Veterans Services web site: <http://usfweb.usf.edu/vetserve> for information on various programs/services, and VA rules and regulations. Under no circumstances will the VA pay benefits to a student taking a course by audit. *It is the student's responsibility to inquire concerning all VA rules and regulations and to report any change in number of registered hours, change of majors, or adding a double major or dual degree which affects his/her benefits.* Additionally, VA benefits will be terminated for students who are dismissed for academic or disciplinary reasons and can only be reinstated after academic counseling.

Veterans with a service-connected disability approved for benefits under Chapter 31 may contact the Office of Student Financial Services no earlier than two weeks prior to the start of classes for a book and supplies voucher. The VA toll-free number is 1-888-442-4551.

# REGISTRATION

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

## Office of the Registrar

### Locations/phones:

Tampa Campus: SVC 1034, (813) 974-2000

St. Petersburg Campus: (727) 553-4142

Sarasota Campus: (941) 359-4641

Lakeland Campus: (863) 667-7026

**Web address:** <http://www.registrar.usf.edu>

The Registrar's Office provides a wealth of student, academic, and administrative services. The Registrar's Office is responsible for maintaining each student's academic record from the time of admission to degree. Therefore, virtually every USF student is a consumer of services provided by the Registrar's Office.

Registrar's staff publish the University *Schedule of Classes* (online only), coordinate registration and drop/add activities, process grade information each semester, prepare transcripts and diplomas, as well as certify student enrollment status. Registrar's staff also review and act upon student requests for reclassification of residency and process changes of name and student I.D. number.

Students interested in petitioning the Academic Regulations Committee (ARC), requesting fee adjustments, late registration fee waivers, or posting of grade forgiveness will find information and forms on the web and in the Registrar's Office.

The Registrar's Office provides information and services to students via OASIS, the University's Online Access Student Information System. Using their self-declared personal identification number (PIN), students can register and drop/add, process address changes, access registration appointment and hold information, request privacy, view their grades and order transcripts. Students can also browse the University *Schedule of Classes*. Information and services are continually being added for students.

Although technology is being used as an enabler to provide better service, Registrar's staff provide in-person information and services in its lobby area as well as over the telephone. Records and Registration offices are also located on every regional campus.

The Office of the Registrar maintains the official academic records for all students and course registrations for currently enrolled students. Students are encouraged to contact the Office of the Registrar about general questions concerning academic policies and procedures of their current registration or academic record.

**Note:** Each student must be aware of the University's academic policies and procedures insofar as they affect him/her.

## Immunization Policy

### 1) Introduction

The University of South Florida requires the following immunizations for registration and specific immunization in order to be eligible for on-campus housing.

### 2) Statement of Policy

#### A) ALL STUDENTS MUST HAVE:

- MEASLES - proof of immunity if born after 12/31/1956
- RUBELLA - proof of immunity if born after 12/31/1956
- HEPATITIS B - proof of immunity or signed waiver declining the vaccine
- MENINGITIS - proof of immunity or signed waiver declining the vaccine except as listed below

#### B) IN ADDITION, STUDENTS ELECTING TO LIVE IN ON-CAMPUS HOUSING MUST HAVE:

- MENINGITIS - Medical documentation of immunization with Meningitis vaccine

Declining by waiver of this vaccine is not acceptable for students in on-campus housing. No student will be assigned housing without proof of vaccine.

### C) HEALTH HISTORY FORM

All students must complete the USF Mandatory Immunization Health History Form (<http://www.shs.usf.edu/>)

New admits will be provided a Medical History/Immunization Form with their admissions letter. In order to register, this form must be completed, signed, and returned to:

Student Health Services  
University of South Florida  
4202 East Fowler Avenue, SHS 100  
Tampa, FL 33620-6750  
Immunization Fax: (813) 974-5888  
Telephone: (813) 974-4056

### D) PROOF OF IMMUNIZATION

Proof of immunity that will be accepted for each disease is as follows:

#### 1. MEASLES:

- a. Medical documentation of immunization with TWO (2) DOSES of live measles virus vaccine on or after the first birthday and administered at least 28 days apart. Persons vaccinated with killed, or an unknown vaccine, prior to 1968 must be revaccinated. Persons born before 1957 may be considered to have had a natural infection, and therefore do not need measles vaccine. The documented date of immunization for measles should indicate the day, month, and year. However, only month and year will suffice if the month and year indicate that the immunization was given at least 13 months after the month of birth. OR,
- b. Copy of laboratory (serologic) evidence of measles immunity (IgG rubeola titer) OR,
- c. A written, dated statement signed by a physician on his/her stationery that specifies the date seen and stating that the person has had an illness characterized by a generalized rash lasting three (3) or more days, a fever of 101° Fahrenheit or greater, a cough, and conjunctivitis, and, in the physician's opinion, is diagnosed to have had the 10 day measles (rubeola).

#### 2. RUBELLA:

- a. Medical documentation of immunization with live rubella virus vaccine on, or after, the first birthday. The documented date of immunization for rubella should indicate the day, month, and year. However, only month and year will suffice if the month and year indicate that the immunization was given at least 13 months after the month of birth. OR,
- b. Copy of laboratory (serologic) evidence of rubella immunity (IgG rubella titer).

#### 3. HEPATITIS B:

- a. Medical documentation of immunization with 3 doses of Hepatitis B vaccine OR
- b. Copy of laboratory (serologic) evidence of Hepatitis B immunity (anti-HBs titer).

#### 4. MENINGITIS:

Medical documentation of immunization with Meningitis vaccine.

### E. EXEMPTIONS:

1. RELIGIOUS: Religious exemptions - contact USF Student Health Services for an application.

## 34 REGISTRATION

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

2. **MEDICAL:** Requests for temporary or permanent medical exemptions must be submitted to USF Student Health Services by the attending physician, must include reason for exemption and duration of exemption.

In the event of a disease outbreak, students exempted from immunization requirements may be requested by the University, at the direction of the public health officials, to show titer proof of immunity, become immunized, or remain off campus for the duration of the outbreak.

All requests for exemptions will be reviewed to ensure consistency in application.

### F. CONSEQUENCES:

Students who fail to comply with the requirements as stated above will be blocked from registration and/or on-campus housing assignment. In specific circumstances, a temporary override may be granted; however, vaccination requirements must be completed before any further registration in subsequent terms will be permitted and current registration may be suspended if any deficiency in immunization status is identified.

### SUS Health Insurance Requirement for International Students

The State University System of Florida requires that all international students have medical insurance in order to register for classes at USF.

### Registration for Admitted Degree-Seeking Students

Continuing degree-seeking students register by appointment for their next semester's courses during the preceding term, either by web or in person (regional campuses only). Appointment times and instructions for all registration periods are online in the **Schedule of Classes** for the appropriate semester at [www.registrar.usf.edu](http://www.registrar.usf.edu).

Prior to initial registration, all newly admitted undergraduate students and readmitted former undergraduate students returning are *required* to participate in an orientation/academic advising program on the USF campus where they will take all or the majority of courses. Newly admitted students and readmitted Former Students Returning receive Orientation/Academic Advising/Registration instructions from the USF Office of Orientation.

Registered students may make schedule adjustments in the regular registration period during the preceding term or in the drop/add period during the first week of classes. (Deadline information is available in the Academic Calendar.)

Degree-seeking students who do not register prior to the first day of classes may late-register the first week of classes. A \$100.00 late registration fee is charged during this week. (See the section on fees for additional information and the appropriate term's **Schedule of Classes** for dates.) To avoid cancellation of registration, fees are due and payable for all registered courses of record on the fifth day of classes (end of drop/add period). (See Academic Calendar for dates.)

**NOTE: A Mandatory Medical History Form is required for all students (regardless of age).** According to Florida Administrative Code Rule 6C-6.001(5), "Each student accepted for admission shall, prior to registration, submit on a form, provided by the institution, a medical history signed by the student."

### Academic Advising for Undergraduate Students

USF seeks to guide all students in selecting programs and courses best suited to their personal abilities, educational interests, and career objectives. Students who have been admitted to the University and their major area of study may visit their designated academic advising office housed in each of the six colleges offering baccalaureate degrees. Others who have not yet declared a major or students taking lower-level

coursework in a limited access program should visit the Transitional Advising Center (TRac). TRac also serves as an initial point of contact for non-admitted, prospective, and/or non-degree seeking students who need information about the University's academic structure.

All students are encouraged to establish an advising relationship with a college or TRac and periodically visit their advisors to keep abreast of any policy, procedural, or curriculum changes that may affect them. In fact, some colleges require advisor approval of student programs each semester. It is important for students to keep in mind that although the University provides advising services to assist students with academic planning, it is each student's responsibility to see that all graduation requirements are met.

### Orientation and Initial Advising

It is necessary that all students attend the University-managed Orientation Program. The purpose of this initial contact is to assign an academic advisor and to provide the advising unit with routine information to assist it in collecting and maintaining the necessary records to assure the student's proper progress toward education goals. Transfer students should bring an unofficial or student copy of their transcript(s) at the time of orientation.

### Advising for Limited Access Programs

Students are cautioned that admission to the University does not imply admission to all the programs and courses offered by the individual colleges; this is especially true with respect to colleges with limited access programs. Colleges such as Business, Education, Engineering, and Nursing have been designated as limited access colleges and require completion of certain prerequisites before a student may declare a major in one of them. It is important that students check the college sections of the catalog for advising and admission requirements. Students planning to enter a limited access program should be aware that their admission by the college may be denied or delayed and should be prepared with alternative plans of action. Students seeking admission to limited access programs must demonstrate successful academic progress toward meeting the limited access requirements in order to remain undeclared beyond 45 semester hours of credit.

Lower-level transfer students (entering the University with fewer than 60 semester hours) and upper-level transfer students (entering with 60 or more semester hours) who do not meet the requirements of a limited access major are assigned initially to the Transitional Advising Center. Upper-level transfer students (entering the University with 60 semester hours or more) who meet the admission requirements of a major are assigned to the college of that major for advising.

### Advising for Non-Limited Access Programs

In the case of non-limited access colleges, students may declare a major by completing a form in the appropriate college advising office, usually during one of the orientations required by the University. Students who do not wish to declare a major or who cannot meet the necessary prerequisites of a limited access major are advised by the Transitional Advising Center. Upper-level transfer students (entering the University with 60 semester hours or more) who meet the admission requirements of a major are assigned to the college of that major for advising.

### Course Attendance at First Class Meeting

This policy has been put into effect so that USF may effectively utilize classroom space and to insure that all students have maximum opportunity to enroll in classes where demand exceeds availability of seats.

Students are required to attend the first class meeting of undergraduate courses for which they registered **prior** to the first day of the term. Names of students who register prior to the

first day of the term are printed on the first class roll for each course section. The first class roll is used by professors to drop students who do not attend the first day of class. Students having extenuating circumstances beyond their control and who are unable to attend the first class meeting must notify the instructor or the department prior to the first class meeting to request waiver of the first class attendance requirement. Students who add courses or late-register during the first week of classes will **not** be on the first class roll and, therefore, will not be dropped for non-attendance by the instructor. Please note that the Registrar's Office does not add students whose names are handwritten on the first day class rolls to courses, and these students are required to add the course by OAS/S. **To avoid fee liability and academic penalty, the student is responsible for insuring that he/she has dropped or been dropped from all undesired courses by the end of the 5<sup>th</sup> day of classes.**

This policy is not applicable to courses in the following categories: Educational Outreach, Open University (TV), FEEDS Program, Community Experiential Learning (CEL), Cooperative Education Training, and courses that do not have regularly scheduled meeting days/times (such as, directed reading, or study, individual research, thesis, dissertation, internship, practicums, etc.). **Students are responsible for dropping undesired courses in these categories by the 5<sup>th</sup> day of classes to avoid fee liability and academic penalty.**

### General Attendance

Only officially registered students or students approved to audit a class are entitled to attend class. Students are responsible for being aware of all instructor-based and University issued attendance policies and the requirements of the registrar for enrollment, drop/add and fee liability. Students are responsible for completing the academic requirements of each class as defined by the instructor and as set forth in any class syllabus. An instructor may make attendance mandatory and may impose penalties, including failing a class, for excessive absences. It is university policy that student absences will be excused for military duty, jury duty, and religious days (as set forth in University policy 10-045). Excused absences for other documented reasons may be allowed at the discretion of the instructor. Though excused, the student is responsible for completing all academic work, examinations, assignments and labs in a timely fashion.

### Jury Duty

The University respects the need for all citizens to serve on a jury when called to duty. If a student serves as a juror, class absences will be considered excused when the student provides advance notice to the instructor, the instructor acknowledges the request, and the student provides written verification of jury selection and proof of service. It is important to note that excused absence only applies to physical presence, and not to the academic work missed. A student, though excused, is responsible for all academic work, examinations, assignments and labs if applicable. These issues are unique to University students and clearly may present undue hardship for a student to serve while enrolled in an active course of study.

Any potential student juror may notify the court of conflicts or undue hardship and request an excuse from service. The individual student must make the decision as to whether jury service will present an undue hardship and then take the affirmative action to request to be excused from service and may need to provide a written explanation to the court. If a student does not request to be excused and is selected to serve, the student may miss a prolonged period of time resulting in the inability to complete the academic requirements of classes.

### Religious Days

The university has an official Attendance Policy for the Observance of Religious Days (University policy 10-045) which provides that all students, faculty, and staff at the University have

a right to expect that the University will reasonably accommodate their religious observances, practices and beliefs.

Students are expected to attend classes and take examinations as determined by the University. The University will, at the beginning of each academic term, provide written notice of the class schedule and formal examination periods. The university, through its faculty, will make every attempt to schedule required classes and examinations in view of customarily observed religious holidays of those religious groups or communities comprising the University's constituency. No student shall be compelled to attend class or sit for an examination at a day or time prohibited by his or her religious belief.

Students are expected to notify their instructors at the beginning of each academic term or as provided in the course syllabus if they intend to be absent for a class or announced examination, in accordance with this policy. Students absent for religious reasons will be given reasonable opportunities to make up any work missed in the event that a student is absent for religious reasons on a day when the instructor collects work for purposes of grading (homework, pop quiz, etc), the student shall be given a reasonable opportunity to make up such work or shall not have that work averaged into the student's grade at the discretion of the instructor. Any student who believes that he or she has been treated unfairly with regard to the above may seek review of a complaint through established University Academic Grievance Procedures (found in the Graduate and Undergraduate Catalogs) and those provided by the University's Office of Diversity and Equal Opportunity.

### Adds

After a student has completed his/her registration on the date assigned, he/she may add courses until the add deadline specified in the Academic Calendar. See the appropriate semester's University **Schedule of Classes** for detailed instructions and dates online at [www.registrar.usf.edu/ssearch/search.php](http://www.registrar.usf.edu/ssearch/search.php).

### Drops

A student may drop a course(s) during the regular registration and drop/add periods (first five days of classes). No entry of the course(s) will appear on any permanent academic records and full refund of fees is due for course(s) dropped within those periods.

A student may also drop a course(s) between the second and tenth week of the semester (except for Summer sessions - see the Summer Schedule of Classes for dates). Registration fees must be paid for the course(s) and the academic record will reflect a "W" grade for the dropped course(s).

### Auditing Privileges and Fees

A student who wishes to sit in on a class to review the course material may do so; however, the student is not allowed to take exams, earn grades, or receive credit.

The student's status for that class is an audit and his/her presence in the classroom is as a listener. Audit status must be obtained only during the first five days of the term by filing an Audit Form and a date-stamped permit from the college/department on the campus where the course is being offered, with the Registrar's Office. IN-STATE fees are assessed for all audit courses.

### Cancellation Before First Class Day

Students may cancel their registration by notifying the Office of the Registrar in writing prior to the first day of classes. If fees have already been paid, the student may request a full refund of fees from the Office of Purchasing and Financial Services.

### Withdrawal

A student may withdraw from the University without academic penalty during the first ten weeks of any term (except for Summer Sessions). He/she must submit a completed Withdrawal Form to the Office of the Registrar. No entry is made on

## 36 REGISTRATION

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

the academic record for withdrawals submitted during the first week of the term. All subsequent withdrawals (through the tenth week of classes in the Fall and Spring Semesters) are posted to the academic record with "W" grades assigned to the courses. Withdrawal deadlines for the Summer sessions are listed in the Academic Calendar and are published in the **Schedule of Classes** for the Summer Term. Students who withdraw may not continue to attend classes.

Students who withdraw during the drop/add period as stated in the Academic Calendar may receive a full refund of fees. All refunds must be requested in writing from the Office of Purchasing and Financial Services. No refund is allowed after this period except for specified reasons. See "Refund of Fees" under Financial Information for complete details.

### Repeat Course Surcharges

Initiated by the Florida Legislature (H.B. 1545 of 1997) to reduce costs, all state universities must monitor undergraduate student progress and charge students the "full cost of instruction" for certain repeats of undergraduate courses. This policy became effective Fall 1997 and requires USF to charge students a substantial per credit hour surcharge when they attempt a course three or more times at USF, unless the course is specifically designed to be repeated or is required to be repeated by their major. Requirements to earn a passing or higher grade than previously earned in a course do not exempt the surcharge. Students will be required to pay the surcharge in addition to the appropriate in-state or out-of-state tuition rates. It is important to note that **all** attempts count, including withdrawals after the first week of classes and courses with incomplete grades.

The University **may** grant exceptions to this rule based on extenuating circumstances and financial hardship. However, the University may only approve one appeal per course. The exceptions included in the Statute are extenuating circumstances and financial hardship and are defined as follows:

Extenuating circumstances are those circumstances determined by the University to be exceptional and beyond the control of the student and may include but not be limited to serious illness, documented medical condition preventing completion; death of an immediate family member, involuntary call to active duty; university error, other emergency circumstances or extraordinary situations. Documentation, regardless of the situation, must be submitted with the request for a waiver of this surcharge.

The criteria used by the universities for determining financial hardship should include, but not be limited to, qualification for federal need-based financial aid. Students with other documented financial hardships may also be considered.

The student must fill out a Fee Adjustment Request Form and indicate the request is for a waiver of the repeat course surcharge. They must also submit a statement that explains their request and provide all documentation relating to it. The completed form with documentation should be submitted to the Office of the Registrar for consideration. If a student's request is denied, they may appeal the decision to the Office of the Dean of Undergraduate Studies.

### Student Academic Support System (SASS)

**Location/phone:** SVC 2014, (813) 974-4505

**Web address:** <http://www.ugs.usf.edu/sass/sass.htm>

The Student Academic Support System (SASS) is the State University System (SUS) computer-assisted advising system, that enhances undergraduate education. The report produced by this system is available to each undergraduate student through the student's advisor, advising office, and FACTS (Florida Academic Counseling & Tracking for Students) Network. FACTS can be accessed by modem, open-use computer labs, the Registrar's office (SVC 1034, Tampa Campus), and the Center for Academic Advising (SVC 2011, Tampa Campus). FACTS is a unique network that provides access to the computing resources of Florida's higher education institu-

tions. You can access FACTS directly at <http://www.facts.org>. The SASS audit matches the student's academic record (both USF and transfer courses) against the requirements of the student's degree program. There is a different SASS audit for each degree program. Students can explore different degree programs thru FACTS by selecting "Degree Program Shopping at your Home Institution" from the FACTS-Academic Advising link. The central SASS office maintains the data and trains appropriate college personnel.

### Transcript Information

Transcripts of a student's USF academic record may be released only by authorization of the student online at <http://usfonline.admin.usf.edu/> or in person or by writing to the Office of the Registrar. By law, requests must include the student's identification number, the date and the student's signature or must be affected online via the student's 6-digit self-assigned personal identification number (PIN), which is essentially the student's electronic signature. In order for transcripts to be issued, the student must have no financial obligations to the University. Transcripts are normally mailed/ready for pick-up within two working days after the request is received.

Letter requests must include: (1) date of request and student's current address; (2) student ID number and full name; (3) name and complete address of recipient; and (4) number of copies and special instructions, such as, "hold for degree statement" or "hold for current term grades," and the student's signature. Degree statements are posted approximately four to six weeks after the graduation ceremony. Current term grades are posted approximately one week after the final exams end. If grades for the current term are needed, clearly indicate that the transcript request is to be held for grades.

To order transcripts by mail, send **payment** (\$8.00 per copy, check or money order only) and letter to:

Transcript Clerk, Registrar's Office  
USF- SVC 1034  
4202 E. Fowler Avenue  
Tampa, FL 33620-6950

To order a transcript in person, hand-carry payment (check, money order or cash) and letter to a USF Cashier's Office at any of the following Campus locations:

Tampa - ADM 131  
St. Petersburg - Davis Hall, Rm. 129  
Sarasota - Lobby, Building D  
Lakeland (Drop Box) - Bldg. E, Rm. 2127

Students may complete the request process in one stop at the cashier's offices.

Note: Transcript fees are subject to change.

### Student Records Policy

Pursuant to the provisions of the Family Educational Rights and Privacy Act ("FERPA"; 20 USC Par. 1232g), 34 CFR Par. 99.1 et seq, Florida Statutes Sub. Par. 1002.22 and 1006.52 and USF Rule 6C4-2.0021, Florida Administrative Code, students have the right to:

1. Inspect and review their education records
2. Privacy in their education records
3. Challenge the accuracy of their education records
4. Report violations of FERPA to the FERPA Office, Department of Education, 400 Madison Avenue, SW, Washington, D.C. 20202 and/or bring actions in Florida Circuit Court for violations of Rule 6C4-2.001, Florida Administrative Code.
5. Copies of the University's student records policy, USF Rule 6C4-2.0021, may be obtained from:  
University Registrar or USF Agency Clerk  
SVC 1034 Office of the General Counsel  
4202 Fowler Avenue 4202 Fowler Avenue -ADM 254  
Tampa, Florida 33620 Tampa, Florida 33620

### Release of Student Information

Pursuant to requirements of the Family Educational Rights and Privacy Act (FERPA), the following types of information,

designated by law as "directory information," may be released via official media of USF (according to USF policy):

Student name, local and permanent addresses, telephone listing, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, full- and part-time status, and the most recent previous educational agency or institution attended, and other similar information.

The *University Directory*, published annually by the University, contains only the following information, however: student name, local and permanent address, telephone listing, classification, and major field of study. The Directory and other listings of "directory information" are circulated in the course of University business and, therefore, are accessible to the public, as well as to students, faculty, and staff.

Students must inform the USF Office of the Registrar in writing (forms available for that purpose), if they wish directory information to be withheld. Such requests must be received within the first two (2) weeks of the semester and will remain in effect until the student has not been enrolled at USF for three (3) consecutive terms.

Notification to the University of refusal to permit release of "directory information" via the *University Directory* must be received no later than the end of the first week of classes in the Fall Semester.

## Confidentiality Policy

In the interest of openness and building trust with our students, USF now affords students the right to limit data usage and sharing of their information, without having to request non-disclosure of directory information under the Family Education Rights and Privacy Act (FERPA). Pursuant to the requirements of FERPA, the following types of information designated by law

as "directory information" can be released, if the student has not requested privacy or non-disclosure: Name, Date of Birth, Address, Telephone, Major, Dates of Attendance, Enrollment Status, Degrees, and Prior Institutions Attended. \*All other student data is considered to be protected.

Under new University policy which is less restrictive than Privacy under FERPA, students may now request confidentiality as a way to "opt out" from having their personal contact information (i.e. name, address, telephone) disclosed to vendors, credit card companies, or outside agencies that are not providing a service that would otherwise be performed by the University. To request confidentiality, go to: <https://www.registrar.usf.edu/privacy/>.

## Academic Record

The student's academic record shall not be changed after the student has graduated.

## Administrative Holds

A student may be placed on administrative hold by failure to meet obligations to the University. When a student is on administrative hold, he/she may not be allowed to register, receive a diploma, or receive a transcript. Settlement of financial accounts must be made at the University Cashier's Office. Each student placed on administrative hold should determine from the Office of the Registrar which office placed him/her in this status and clear the obligation with that respective office.

## Student Information Changes

Notifications regarding changes of address, name, residency, and citizenship should be filed promptly with the Office of the Registrar.

# ACADEMIC POLICIES AND PROCEDURES

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

## Academic Regulations and Information

### Semester System

USF operates on a semester system. Semesters begin in August and January with Summer Sessions beginning in May and July. See Academic Calendar for appropriate dates.

### Academic Load

The maximum load of an undergraduate student is 18 hours (Fall & Spring semesters) and 14 hours (Summer Term) unless approval is received from the dean or an authorized representative of the student's college. Students classified as Undecided must receive approval from the Transitional Advising Center. In the Fall or Spring Semester 12 hours is the minimum load for a student to be considered as full-time.

*Full-time Undergraduate Student Definition - Summer Term Sessions "A" & "B" (6 weeks)*

For Academic purposes 6 hours or more each session  
For Financial aid purposes must enroll for 12 hours

(undergraduate) in any combination of Sessions "A," "B" and "C" Session "C" (10 weeks)

For Academic purposes 9 hours or more  
For Financial aid purposes must enroll for 12 hours (undergraduate) in any combination of Sessions "A," "B" and "C"

Students receiving Veterans' Administration benefits should confirm their Summer Term enrollment with the Office of Veterans' Services or Veterans' Coordinator.

Undergraduates may not enroll in 6000-level courses or higher without approval of the college/department in which the course is offered.

### Availability of Courses

USF does not commit itself to offer all the courses, programs, and majors listed in this catalog unless there is sufficient demand to justify them. Some courses, for example, may be offered only in alternate semesters or years, or even less frequently if there is little demand.

### Transfer of Credit To USF

USF will accept credits only from those institutions accredited by one of the accrediting agencies/commissions recognized by USF. However, USF reserves the right to deny credit for specific courses. The receipt and evaluation of total transfer credit are the responsibility of the Office of Admissions. The college of the student's major will determine which courses are applicable toward a specific degree and will assign equivalent courses (see Evaluation of Transfer of Credit under Admissions and Related Matters).

USF subscribes fully to all of the provisions of the statewide Articulation Agreement (Rule 6A-10.024) and strongly recommends that students complete the associate of arts degree, or in certain prior-approved areas the associate of science degree, before transferring. Special details for students who do not plan to complete the associate degree requirements are available from the Office of Admissions. Also, all transfer students should refer to other entries about undergraduate transfers in the Admissions section of this catalog.

### Former Student Returning

The Office of Admissions will evaluate the acceptability of transfer of credits taken at regionally-accredited institutions

since last enrolled at USF. The college of the student's major will determine which courses are applicable for his/her major. In some instances, exact course equivalents will also be determined by other colleges that offer the same or similar course(s) as a part of their programs of study.

### Continuously Enrolled Degree-Seeking Student

The Office of Admissions will determine the acceptability of transfer credits for continuing, degree-seeking students who take courses at regionally-accredited institutions. However, **PRIOR WRITTEN APPROVAL MUST BE OBTAINED** from the college of the student's major if these credits are to be applicable to the USF degree program. A **properly-executed** Transient Student Form or Cross Enrollment Form should be used for this purpose.

### Declaration of Major

First-year students often enter the university undecided about their career plans and intended majors and that usually creates little difficulty for them. Many of the more than 90 majors at USF allow students considerable options in their early course choices. Conversely, many other majors, and often the most popular majors, require completion of particular courses within the first two years. For instance, students with majors in fine arts and engineering should begin specific coursework in their first year and are best served by declaring their majors upon entering the university. In other fields, such as nursing, natural and physical sciences, education, and business, students must satisfy state mandated course prerequisites and complete specific general education courses during the first two years to be admitted to those major as juniors and to allow graduation on a timely basis.

It clearly is advantageous for students to make early decisions about their majors to be on track and to remain on-track toward their degrees and to graduate in a timely manner. Students are urged to declare a major upon entry to the university. If they are unable to formally choose or declare a major or a pre-major they should follow the multi-semester inquiry-based (for undecided) curriculums that best matches their interests.

All students must be officially declared in a major or a pre-major before they register for more than 36 credits. Beginning Fall Semester 2005, FTIC students who will have completed 36 or more credits at the end of the term in which they are enrolled will not be allowed to register for further credit coursework at the university until they have declared a major or pre-major.

Transfer students, especially those who have completed 60 hours of work prior to transferring to USF, should declare their majors upon entry to the university. Transfer students who have not declared a major (or pre-major) and who have completed 75 or more credits of college coursework will not be allowed to register for further credit coursework at the university until they have declared a major or a pre-major. Students transferring in 75 or more credits will be required to declare a major (or pre-major) at the time of admission.

Many resources are made available by the university to assist students in making career decisions and choosing their majors. Information about these resources is readily available from academic advisors. All entering FTIC students who have not made a career/major decision upon entry to the university will be required to follow one of the multi-semester inquiry-based (for undecided) curriculums offered by the university and enroll in the University Experience or Career Development Process course.

### College Level Academic Skills Test

The College Level Academic Skills Test (CLAST) is a part of Florida's system of educational accountability. CLAST is a state-mandated achievement test that measures attainment of

communication and mathematics skills expected of students completing their sophomore year in college. These skills were identified by the faculties of community colleges and state universities and adopted by the State Board of Education. A student must pass the CLAST or achieve alternate criteria to receive an Associate in Arts or a baccalaureate degree from any Florida public institution.

The CLAST requirement is considered met for any student entering the university with an A.A. from a Florida public college or university or a baccalaureate degree from a regionally accredited or comparable international institution.

Please Note: CLAST exemptions or waivers are not acceptable for admission to or graduation from programs in the College of Education. Refer to USF Testing Services, SVC 2060 for the current policies on CLAST.

The State Board of Education has established minimum CLAST score standards for awarding the Associate in Arts degree and for the baccalaureate degree from October 1, 1992 as follows: Reading, 295; English Language Skills, 295; Mathematics, 295; and Essay, 6.

CLAST may be taken by undergraduate, degree-seeking students who have earned 18 semester hours or the equivalent and who apply to take the test on or before the deadline established for registration. Students at USF are required to take the CLAST by the time they complete 45 semester hours. First-time-in-college and lower-level transfer students are encouraged to take the CLAST as early as possible. Transfer students should take the CLAST the first semester they are enrolled as degree-seeking students if they have already exceeded the 45 hours from previous institutions.

If the CLAST requirement has not been satisfied by the time a student completes 60 semester hours, the student may not register for classes until he/she has visited the following website: <http://www.ugs.usf.edu/student/CLAST/index.htm>. A course or method of preparation to remediate content covered in the failed subtest(s) will be selected and required. Further registration may be restricted for failure to attend the designated preparation.

If the CLAST requirement has not been satisfied after completing 60 hours of coursework, a student may enroll in up to 36 hours of additional 3000-4000 level coursework. At this point, course registration will be restricted to 1000 and 2000 level courses. **Information regarding appropriate CLAST preparatory options is available at <http://www.outreach.usf.edu/conted/testing/>.** Further registration at USF will be denied for failure to complete the required preparation.

Students may receive exemptions for the CLAST examination by achieving specific EACT or SAT-I scores, or by earning a 2.5 GPA in specific courses. Exemptions are awarded for the communication subtests of CLAST if an SAT-I Verbal score of 500 or an EACT English score of 21 and an EACT Reading score of 22 are achieved. Exemptions are awarded for the mathematics CLAST subtest if an SAT-I Mathematics score of 500 or an EACT Mathematics score of 21 is earned. Students receive exemptions from the CLAST communication subtests if a 2.5 GPA is achieved in at least six hours of ENC 1101 and ENC 1102. Exemptions from the CLAST mathematics subtest are issued when students have earned a 2.5 GPA in at least six hours of MAC 1105 or higher, MGF 1106 or higher and STA 1022 or higher. Any combination of these courses is permissible, providing only one statistics course is used to calculate the six-hour mathematics GPA. A maximum of four hours of credit earned through AP, IB, CLEP or other acceptable equivalency programs may be used toward qualification for each CLAST exemption.

Waivers from individual CLAST subtests are granted in two situations: 1) a specific documented learning disability prevents the student from achieving the skills set forth in SBE 6A-10.0316 (consult with Academic Support and Accommodations for Students with Disabilities) and; 2) a student has successfully completed courses related to a specific subtest, but has failed to satisfy the CLAST requirement with a passing score or an exemption. After failing a CLAST subtest four times

and successfully completing a specific three-hour course related to the failed subtest, a student may apply for a waiver by submitting appropriate documentation to the student's college CLAST coordinator.

### Courses to Satisfy Rule 6A-10.030 ("Gordon Rule")

Prior to receipt of an Associate in Arts degree from a public community college or university or prior to entry into the upper division of a public university or college, a student shall complete successfully the following:

- Six (6) semester hours of English coursework and six (6) semester hours of additional coursework in which the student is required to demonstrate college-level writing skills through multiple assignments. Each institution shall designate the courses that fulfill the writing requirements of this section. These course designations shall be submitted to the Statewide Course Numbering System. An institution to which a student transfers shall accept courses so designated by the sending institution as meeting the writing requirements outlined in this section.
- Six (6) semester hours of mathematics coursework at the level of college algebra or higher. For the purposes of this rule, applied logic, statistics and other such computation coursework which may not be placed within a mathematics department may be used to fulfill three (3) hours of the six (6) hours required by this section.
- Students awarded college credit in English based on their demonstration of writing skills through dual enrollment, advanced placement, or international baccalaureate instruction pursuant to Rule 6A-10.024, F.A.C., and students awarded college credit based on their demonstration of mathematics skills at the level of college algebra or higher through one (1) or more of the acceleration mechanisms in Rule 6A-10.024, F.A.C., shall be considered to have satisfied the requirements in subsection 6A-10.030(2), F.A.C., to the extent of the college credit awarded.

Note: The Gordon Rule communication and computation requirements are considered met for any student entering the university with an A.A. from a Florida public community college. Gordon Rule communication requirement is considered met for any student entering the university with 60 or more hours.

### Communication (12 semester hours)

AFA 2000	Introduction to the Black Experience	3
	[In Africa and Its Diaspora]	
AFA 4150	Africa and the United States	3
AFA 4335	Black Women in America	3
AFS 2250	Culture and Society in Africa	3
AFS 3153	African Literature Survey	3
AMH 3510	U.S. Diplomatic History to 1898	4
AML 3604	African American Literature	3
AML 4303	Zora Neale Hurston: Major Works	3
AML 4624	Black Women Writers	3
AMS 3001	American Culture 1880-1915	4
AMS 3260	American Culture, 1830-1860	4
AMS 3370	Southern Women: Myth and Reality	3
ANT 4231	Folklore	3
ANT 4241	Anthropology of Religion	3
ANT 4340	The Caribbean	3
ANT 4432	The Individual and Culture	3
ANT 4620	Language and Culture	3
ANT 4750	Language and Social Interaction	3
ANT 4935	Rethinking Anthropology	3
ARC 4784	The City	3
ARH 4710	History of Photography	4
ARH 4721C	History of Printmaking	3
ARH 4724	History of Graphic Design	4
ARH 4800	Critical Studies In Art History	4
CHM 4070	Historical Perspectives in Chemistry	3
CIS 4250	Ethical Issues And Professional Conduct	3

CIS 4253	IT Ethics	3	NUR 4645	Older Adults	3
CLA 3501	Women in Antiquity	3	PAD 4144	Substance Abuse Across the Lifespan	3
CLT 3103	Greek Literature in Translation	3	PET 4933	Nonprofit Organizations and Public Policy	3
CLT 3123	Roman Literature in Translation	3	PHH 2000	Seminar in Sports Medicine	3
COM 4020	Communicating Illness, Grief, and Loss	3	PHH 4600	Introduction to Philosophy	3
COM 4030	Women and Communication	3	PHH 4700	Contemporary Philosophy	3
COM 4710	Writing Lives	3	PHI 1401	American Philosophy	3
CRW 2100	Narration and Description	3	PHI 3700	Science and Society	3
CRW 3111	Form and Technique of Fiction	3	PHI 4300	Philosophy of Religion	3
CRW 3112	Fiction I	3	PHI 4320	Theory of Knowledge	3
CRW 3121	Fiction II	3	PHI 4800	Philosophy of Mind	3
DAN 2100	Introduction To Dance	3	PHM 3100	Aesthetics	3
DAN 4134	Dance History Through the 19th Century	3	PHM 4331	Social Philosophy	3
EDF 3228	Human Behavior and Environmental Selection	3	PHM 4340	Modern Political Philosophy	3
EEC 4008	Literature in Early Childhood Education	3	PHP 3786	Contemporary Political Philosophy	3
EEX 4742	Narrative Perspectives on Exceptionality: Cultural and Ethical Issues	3	PHP 4000	Existentialism	3
EIN 4243C	Human Factors	3	PHP 4010	Plato	3
ENC 1101	Composition I	3	PHP 4740	Aristotle	3
ENC 1102	Composition II	3	PHP 4745	The Rationalists	3
ENC 1121	Composition I: Honors	3	PHP 4784	The Empiricists	3
ENC 1122	Composition II: Honors	3	PHP 4788	Analytical Philosophy	3
ENC 2210	Technical Writing	3	PHY 4031	Philosophy of Marxism	3
ENC 3246	Communication for Engineers	3	POS 4413	Great Themes in Physics	3
ENC 3250	Professional Writing	3	POS 4694	The American Presidency	3
ENC 3310	Expository Writing	3	POT 4109	Women and Law II	3
EVT 4651	Equity in Schools and the Workplace	3	PUP 4323	Politics and Literature	3
FIL 2000	Film: The Language Of Vision	4	REA 2105	Women and Politics	3
FIL 3845	World Cinema	4	REL 3111	Critical Reading and Writing	3
FIL 4405	Film and Culture	3	REL 3114	The Religious Quest in Contemporary Films	4
FRT 3140	French Literary Masterpieces in English Translation	3	REL 3145	Comedy, Tragedy, and Religion	3
GEA 3405	Geography of Latin America	4	REL 3170	Women and Religion	3
GEA 3500	Geography of Europe	4	REL 3308	Religion, Ethics and Society Through Film	4
GEO 4372	Global Conservation	4	REL 3367	World Religions	3
HIS 4936	Pro-Seminar in History	4	REL 3465	Islam in the Modern World	3
HUM 4931	Seminar in Humanities	4	REL 3500	Religion and the Meaning of Life	3
IDS 3115	Values and Choices	3	REL 3561	History of Christianity	4
IDS 3663	Critical Issues Affecting the Arts	3	REL 3602	Roman Catholicism	3
IDS 3668	Images of Contemporary Urban Culture	3	REL 3607	Classics of Judaism	3
LAE 4414	Teaching Literature in the Elementary School, Grades K-6	3	REL 3613	Introduction to Judaism	3
LAE 4416	Teaching Literature and Writing in the Elementary Grades	3	REL 4113	Modern Judaism	3
LAE 4464	Adolescent Literature for Middle and Secondary Students	3	REL 4117	The Hero and Religion	3
LIN 3801	Language and Meaning	3	REL 4171	Contemporary Christian Ethics	4
LIT 2000	Introduction to Literature	3	REL 4177	Comparative Religious Ethics	4
LIT 2010	Introduction to Fiction	3	REL 4215	Ancient Israel and the Development of the Hebrew Bible	3
LIT 2030	Introduction to Poetry	3	REL 4217	Who Wrote the Bible (Genesis-Kings)	4
LIT 2040	Introduction to Drama	3	REL 4218	Women and the Bible	3
LIT 3101	Literature of the Western World Through the Renaissance	3	REL 4670	Judaism and Christianity After the Holocaust	4
LIT 3102	Literature of the Western World Since the Renaissance	3	RUS 3500	Russian Civilization	3
LIT 3103	Great Literature of the World	3	RUT 3110	Russian Classics in English	3
LIT 3144	Modern European Novel	3	RUT 3111	Twentieth-Century Russian Literature in English	3
LIT 3155	Modern Literature	3	SCE 4863	Science, Technology, Society Interaction	4
LIT 3301	Cultural Studies and the Popular Arts	3	SPC 3425	Group Communication	3
LIT 3383	The Image of Women in Literature	3	SPC 4305	Communicating Emotions	3
LIT 3451	Literature and the Occult	3	SPC 4632	Rhetoric and Social Change	3
LIT 4386	British and American Literature by Women	3	SYA 3310	Qualitative Inquiry	4
LIT 4463	Film and Culture	3	SYG 3235	Latina Lives	3
MUL 2111	Introduction To Music Literature	3	SYP 4420	Consumer Culture	3
NGR 6121	Theoretical Foundations and Professional Role Development	3	THE 4174	New British Theatre and Drama	3
NGR 6135	Ethical, Legal, and Policy Issues in Advanced Nursing Practice	3	THE 4180	Theatre Origins	3
NUR 4194	An Interdisciplinary Perspective in HIV Disease	3	THE 4320	Theatre of Myth and Ritual/Northern European (950-1600) & Oriental (400-1200)	3
NUR 4286	Geriatric Nursing: Population-based Perspectives on Nursing Care of	3	THE 4330	Shakespeare for The Theatre	3
			THE 4360	The 19th Century Theatre Revolution	3
			THE 4401	American Drama	3
			THE 4434	Caribbean Theatre	3
			THE 4435	Theatre of Pluralism	3
			THE 4442	Comedy of The Classic And Neo-Classic Stage	3

THE 4562	Contemporary Performance Theory	3	D+		1.33
WST 3210	European Feminist History: Pre-18th Century	3	D	Poor performance	1.00
WST 4262	Literature by Women of Color in the Diaspora	3	D-		0.67
WST 4310	History of Feminism in the U.S.	3	F	Failure	0.00

All the above courses will require 6,000 written words per course. IDH courses will fulfill the writing requirement for all University Honor students only.

### Computation (6 semester hours)

Any courses offered by the Mathematics Department may be used. Only one course from the following list (some of which are not in the Mathematics Department) may be used.

Course Number and Title	Semester Hours
CGS 2060 SC Introduction to Computers and Programming in Basic	(3)
PHI 2101 Introduction to Formal Logic	(3)
PSY 3204 Psychological Statistics	(3)
QMB 2100 Business And Economic Statistics I	(3)
STA 1022 Basic Statistics	(3)
STA 2122 Social Science Statistics	(3)

Note that CGS 2060 will not satisfy the USF General Education Quantitative Methods requirement.

CLEP general/subject examinations in mathematics, calculus, college algebra, college algebra-trigonometry, and trigonometry may satisfy this requirement.

### Grades, Scholarship Requirements, and Review Procedures

The University is interested in each student making reasonable progress towards his/her educational goals and will aid each student through guidance and faculty advising. To make students aware of their academic progress, the University has enacted a system of grading and policies of Academic Probation and Academic Dismissal that indicates whether or not a student is showing sufficient progress toward meeting degree requirements. Notations of Grades, Academic Probation and Academic Dismissal are posted to the student's academic record.

When a student is academically dismissed from the University and is ineligible to re-enroll, it may be in his/her best interest to re-evaluate his/her educational goals with an academic advisor in his/her college. If the student's poor academic performance has resulted from extenuating circumstances or if after a period of time the student feels he/she has gained adequate maturity and motivation, he/she may petition the Academic Regulations Committee for permission to re-enroll. See "Academic Regulations Committee," for information on petitioning.

#### Grading System

Effective Fall Semester, 2000, USF faculty may use a plus/minus grading system to assign student grades. The use of the plus/minus grading system is at the discretion of the individual faculty member.

A student's measure of academic achievement is recorded on the academic record based on the following grading system:

#### Plus/minus Grades

A+		4.00
A	Excellent performance	4.00
A-		3.67
B+		3.33
B	Good performance	3.00
B-		2.67
C+		2.33
C	Average performance	2.00
C-		1.67

#### Other Grades

E	Course repeated, not included in GPA
FF	Failure/academic dishonesty
I	Incomplete
IF	Incomplete grade changed to Failure
IU	Incomplete grade changed to Unsatisfactory
M	No grade submitted by instructor
MF	Missing grade changed to Failure
MU	Missing grade changed to Unsatisfactory
N	Audit
S	Satisfactory
U	Unsatisfactory
W	Withdrawal from course without penalty
WC	Withdrawal for extenuating circumstances
Z	Indicates continuing registration.

Please note that the grade of C- will satisfy specified minimum requirements of the Gordon Rule courses and the common prerequisites unless otherwise specified in the Catalog.

### Grade Point Average

The University uses the quality points listed above. The grade-point average (GPA) is computed by dividing the total number of quality points by the total hours attempted at USF. The total quality points are figured by multiplying the number of credits assigned to each course by the quality point value of the grade given. Credit hours for courses with grades of I, IU, M, MU, N, S, U, W, Z, and grades that are preceded by an "E" are subtracted from the total hours attempted before the GPA is calculated.

Credit hours for repeated USF coursework will be awarded only once per course unless the course is a university-approved repeatable course. "D" and "F" grades, however, for repeated USF coursework will be counted in the computation of the student's GPA as many times as those grades for that course are recorded. If a student originally earns a "C" or higher in a course that may not be repeated for additional credit and earns a "C" or higher on a subsequent enrollment the new grade is not computed in the USF GPA unless the forgiveness policy is being applied.

### "I" Grade Policy

An "I" grade indicates incomplete coursework and may be awarded to graduate and undergraduate students. (Undergraduate rules apply to non-degree-seeking students.) It may be awarded to an undergraduate student only when a small portion of the student's work is incomplete and only when the student is otherwise earning a passing grade. Until removed, the "I" is not computed in the GPA for either undergraduate or graduate students. The time limit for removing the "I" is to be set by the instructor of the course. For undergraduate students, this time limit may not exceed two academic semesters, whether or not the student is in residence, and/or graduation, whichever comes first. "I" grades not removed by the end of the time limit will be changed to "IF" or "IU," whichever is appropriate. If an instructor is willing, he or she may accept work from a student after an I grade has changed to an IF or IU grade, and assign the student a final grade in the course, unless the student has graduated. Whether or not the student is in residence, any change to "IF" grades will be calculated in the cumulative GPA and, if applicable, the student will be placed on appropriate probation or academically dismissed. **Students are not required to re-register for courses in which they are only completing previous course requirements to change an "I" grade.** However, if a student wants to audit a course for review in order to complete course requirements, full fees must be paid.

**"M" Grade Policy**

An "M" is automatically assigned as a default grade when the instructor does not submit any grade for an undergraduate student. (Undergraduate rules also apply to non-degree-seeking students.) Until removed, the "M" is not computed in the GPA. The time limit for removing the "M" may not exceed one academic semester (whether or not the student is enrolled) and/or graduation, whichever comes first. "M" grades that are not removed by the end of the next semester/term will be changed to "MF" or "MU," whichever is appropriate. Whether or not the student is enrolled, any change to "MF" grades will be computed in the cumulative GPA, and, if applicable, the student will be placed on appropriate probation or academically dismissed.

**S/U Grade System**

**No-option Courses.** Certain courses have been designated as S/U courses. The "S" and "U" grades are used to indicate the student's final grade. These S/U only courses are identified with (S/U only) after the course definition in this catalog. No grading system option is available to students or faculty in these courses.

**Option Courses.** Any undergraduate course may be taken on an S/U basis by a student under the following conditions and restrictions:

1. Required courses in the major may not be taken on an S/U basis.
2. Specifically designated required courses in the distribution requirements of the student's college may not be taken on an S/U basis.
3. Courses to satisfy 6A-10.30 (Gordon Rule) may not be taken on an S/U basis.
4. Courses to satisfy USF's B.A. foreign language requirement may not be taken on an S/U basis.
5. All elective courses for the major and all elective courses in the distribution requirements, and all other free elective courses may be taken on an S/U basis except where:
  - a. The certifying college restricts the number of courses that may be taken on an S/U basis in any one or all of the above areas or restricts the total number of S/U courses that can be accepted for all of the above areas.
  - b. The certifying college specifies that certain courses may not be taken on an S/U basis.
  - c. The instructor of a course refuses to allow the course to be taken on an S/U basis.

**Mechanism for Assigning S/U Grades.** The method by which a student receives an "S" or "U" grade in an option course will consist of the following:

1. A written agreement signed by both instructor and student shall be filed with such offices as may be designated by the college. The college shall set the deadline (no later than the last day of classes for the term) for the student to decide if he/she wishes to take the course on an S/U basis.
2. The instructor shall assign final letter grades A, B, C, D, F, or I, but will transmit to the Registrar "S" or "U" consistent with the following:
  - a. Letter grade, A, B, C, or C- shall be equivalent to a letter grade of "S."
  - b. Letter grades D or F shall be equivalent to a letter grade of "U." "S" and "U" grades are not computed in the student's GPA.

**Grade Forgiveness Policy**

USF's forgiveness policy permits an undergraduate to repeat a course and have the repeated grade computed in his/her GPA in place of the original grade, providing the repeat grade is posted as "D-" or higher (exception - see Honors at Graduation) and is higher than the first grade. Normally, grade forgiveness may only be applied to a specific course that a student chooses to repeat. No course taken on the S/U grade basis may have the grade forgiveness applied. Under unusual circumstances, a different but similar course may be used if the

substitute course has been previously approved by the college dean and is on file in the Office of the Registrar.

The grade forgiveness policy cannot apply to any course in which the grade of "FF" has been recorded.

Any undergraduate or non-degree seeking student who wishes to implement grade forgiveness must:

1. Complete a "Grade Forgiveness Request Form" (available on the Office of the Registrar's website) for each course to be repeated.
2. Adhere to the following conditions:
  - a. A limitation of applying grade forgiveness to three USF courses with no more than one repeat per course.
  - b. With prior approval of the college dean, a course different from a course on the approved list may be substituted in the following cases:
    - (1) The substitute course is a change in prefix, number, hours, or title, but not a substantive change in content from the original course.
    - (2) The substitute course replaces a course no longer offered by the institution.
  - c. The repeated course must be taken under the standard grading system (A-F) and the latest grade must be posted as "D-" or higher (grades of S/U are not permitted) and be higher than the first grade.
  - d. All grades remain on the transcript. The original course grade will be annotated with "E" to indicate that the course has subsequently been repeated and the original grade is not computed in the GPA.
  - e. Individual colleges may have further restrictions; therefore, the student should consult with his/her college.

This policy is applicable to undergraduate and non-degree-seeking students only, and applies to 1000-to-5000-level courses. Once students have been awarded a bachelor's degree from USF, they may not repeat a course and be forgiven the original grade, taken prior to graduation.

The policy applies only to courses taken originally at USF and repeated at USF.

**Good Standing**

USF students will be considered in Good Standing if they are currently enrolled or eligible to return to USF.

**Academic Record**

The student's academic record shall not be changed after the student has graduated.

**Academic Probation and Academic Dismissal for Undergraduate Students**

The first time the academic record of an undergraduate or non-degree seeking student falls below a cumulative 2.00 grade point average (GPA), counting only USF grades, he/she will be placed on Academic Probation (AP). If the cumulative GPA is not raised to 2.00 or higher at the end of the next term of enrollment, the student will be placed on Final Academic Probation (FP). A student on Final Academic Probation who fails to raise his/her cumulative USF GPA to 2.00 or higher at the end of the next term of enrollment will be Academically Dismissed (AD) from the university.

A student admitted to the university on probationary status will be placed on Academic Probation (AP) his/her first term with the above rules related to Final Academic Probation and Academic Dismissal applying. Academic advising prior to registration is mandatory until the student is removed from probationary status.

Any student who withdraws from all classes after the fifth day of classes while on Academic Probation will be placed on Final Academic Probation unless the student withdrawal is based on extenuating circumstances and the withdrawal is approved. Any student who withdraws from all classes after the fifth day of classes while on Final Academic Probation or who has been placed on Conditional Readmission by the Academic Regulations Committee will be Academically Dismissed.

unless the student withdrawal is based on extenuating circumstances and the withdrawal is approved.

The determination and notification of probationary status or academic dismissal will be made by the Registrar's Office on the student's semester grade report and academic record.

A student who attends another college or university during academic dismissal will be classified as a transfer student and readmission will be based on the total record accumulated from all colleges and universities attended.

If a student who has accumulated fewer than 60 semester hours is academically dismissed from USF or falls below a 2.0 GPA and subsequently achieves an A.A. degree or an articulated A.S. degree from a Florida public community/junior college (or other SUS institution), that student, when returning to the University, will return with the USF GPA earned prior to dismissal unless he/she exercises the option of Academic Renewal I as provided in this catalog.

If a student who has accumulated 60 or more semester hours is academically dismissed from USF or falls below a 2.0 GPA and subsequently receives an A.A. or an articulated A.S. from a Florida public community/junior college (or other SUS institution), that student, when returning to the University, will begin with the USF GPA earned prior to dismissal unless he/she exercises the option of Academic Renewal II as provided in this catalog.

If a student is academically dismissed or falls below a 2.0 GPA from USF and subsequently receives a BA/BS from another four-year institution, that student, when accepted to the University with the post-baccalaureate status, will have his/her academic record cleared.

The posting of the AA shall not remove the previous GPA generated at USF for a student who has earned credit at USF and is academically eligible to return to the university and who subsequently receives an A.A. from a community college.

### Academic Renewal

USF recognizes that not every student's academic record is flawless and that many times students get off to such a poor start that their future academic opportunities are limited. USF can offer many of those students a second chance. The University's Academic Renewal policy allows students, who provide evidence that they might now achieve academic success, to renew their pursuit of baccalaureate degrees without the responsibility of having to overcome the entire burden of low grades and low grade-point-averages that reflect academic work attempted in the past. To facilitate this opportunity, students who qualify for Academic Renewal may, with the approval of the Academic Regulations Committee, have portions of their academic record not counted in the determination of their grade point averages (GPAs) for graduation purposes. Their entire academic record, however, will continue to be reflected on their transcripts even though a selected portion will not be counted in their GPAs. Academic Renewal students are admitted with the same terms of academic probation and dismissal as other undergraduate students. Academic Renewal will only be applied to a student's academic record one time at USF.

**Academic Renewal I** applies to students who were academically dismissed or on formal academic probationary status (institutional cumulative GPA of less than 2.00) with fewer than 60 credits from USF or other institutions of higher education but who otherwise were eligible to return to USF or other institutions of higher education prior to their successful completion of 60 transferable credits. They may be admitted to the University with Academic Renewal I after completing all requirements for the Associate in Arts degree or equivalent (including general education, Gordon Rule and CLAST requirements) at a two- or four-year college. Academic Renewal I students will enter USF as juniors and their USF grade point average will be calculated from that point forward. Such students will be required to earn 60 unduplicated degree credits from USF, with a grade point average of at least 2.00 subsequent to the AA degree, in order to graduate from USF. They also may be excluded from admission to limited access programs.

Further, students who exercise the Academic Renewal policy will not be considered for University Honors at graduation unless they meet the criteria using all grades earned.

**Academic Renewal II** applies to students who were academically dismissed or on formal academic probationary status (institutional cumulative GPA of less than 2.00) with 60 or more earned credits from USF or other institutions of higher education but who otherwise were eligible to return to USF or other institutions of higher education after the successful completion of 60 transferable credits. These students may be admitted to the University with Academic Renewal II if they are able to provide convincing evidence of changes that indicate they might be successful given a new opportunity. Normally, such students will have been engaged in successful non-academic activities such as work or the military for approximately five years or will have demonstrated more recent academic success through completion of an associates' degree or certificate at another institution. Academic Renewal II students will be offered an opportunity to enter USF with all coursework and grades from up to three academic semesters (or equivalent) prior to their academic dismissal or probation from USF or other institutions of higher education to be dropped from consideration in grade-point-average calculations at the University. Determination of which semester(s) may be dropped (up to three) is determined by the student through consultation with the college Academic Regulations Committee representative. Students utilizing the Academic Renewal II policy must earn a cumulative GPA of 2.00 in USF coursework attempted subsequent to Academic Renewal II, in order to graduate. Students who elect to exercise the Academic Renewal policy will not be allowed to use any credit earned during the academic terms from which courses are dropped from grade-point-average consideration toward meeting degree requirements at the University\* and they may be excluded from admission to limited access programs. Further, students who exercise the Academic Renewal policy will not be considered for University Honors at graduation unless they meet the criteria using all grades earned.

\*Students who engage the Academic Renewal II policy will lose the credit they earned during the terms (up to three) they choose to exclude from GPA calculations. They will not necessarily have to repeat a course completed with a grade of "C" or higher to meet specific course requirements.

### College Policies For Academic Progress

Colleges may determine and implement standards of academic progress for undergraduate students (majors in the college) in addition to those established by USF. Students who do not meet the academic standards of progress set by their colleges will be placed on probation and may be disenrolled. The college dean is responsible for implementing standards of academic progress and for notifying students of their probationary or disenrollment status.

Colleges may restrict the course selections and the number of hours a student may take that do not apply toward completion of degree requirements. Students who exceed this limit may have part or all of their registration canceled.

*Colleges are responsible for publicizing and students are responsible for knowing their college's policies for academic progress.*

### Class Standing

A student's class is determined by the number of credits he/she has earned without relation to his/her GPA.

0C	Unclassified	Non-degree-seeking students
1F	Freshman	0 through 29 semester hours passed
2S	Sophomore	30 through 59 semester hours passed
3J	Junior	60 through 89 semester hours passed
4R	Senior	90 or more semester hours passed; however, no baccalaureate degree earned here or elsewhere
5B		Baccalaureate degree-holder working on a second undergraduate program or degree
6M		Graduate student admitted to Master's

## 44 ACADEMIC POLICIES AND PROCEDURES

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

6A	Degree Program Graduate student admitted to Specialist Degree Program
6C	Admitted to Candidacy
6D	Graduate student admitted to a Doctoral Degree Program
7A-7D	1st-4th year professional program (M.D.) or post-doctoral status

### Admission to a College

All newly-admitted students must be advised initially by an academic advisor. All undeclared students are assigned to the Transitional Advising Center for the purpose of advising until a choice of major is made. At that time, he/she may be coded into the college containing the major department. Undeclared FTIC and lower-level transfer students must choose a major or college-based pre-major before registering for more than 36 semester hours. New upper-level transfer students who are undeclared must choose a major before registering for more than 75 semester hours.

### Change of Major

All undergraduate students desiring to change their major should consult the Advising Office in the old and new college(s) of their interest.

### Final Examinations

Examinations in academic subjects are, for most courses, an integral part of the learning process and one part of a procedure for evaluating student performance and determining grades. USF requires certain standards for the examination process in order to protect the academic integrity of courses and the best interests of both the student and the instructor.

**Testing in General:** In each academic course, the student is expected to undergo a meaningful testing and evaluation that will reveal the student's intellectual growth in the subject matter covered or otherwise reflect the achievement of the course objectives.

The instructor has the responsibility of maintaining a fair and impartial testing and examination procedure, has the right to define and structure the testing process, and shall not be restricted as to form, style or content of the examination. It is the policy of USF that all students facing an examination (of any type) shall have equal advance notice of the form and content of that examination. The University regards the routine use of all or part of the same formal examination for successive academic terms as unsound policy except when used with adequate safeguards such as a random selection of questions from a large pool. Use of an electronic device not specifically authorized by the instructor is not permitted during any examination. Such use may result in academic dishonesty or disruption of the academic process and will be handled as student violations.

**Comprehensive Final Examinations:** The last 6 days of the Fall and Spring semesters shall be set aside for final examinations, and any comprehensive final examination **must** be given during this designated period. If a segment examination is given in lieu of a comprehensive examination, the segment examination must be given in the period designated during final examination week. The period of two hours shall be allotted for each final examination. If a student has a direct conflict of scheduled examinations or has three or more examinations scheduled on the same day, the student may petition the appropriate instructor to reschedule one of the student's examinations. The final examination schedule shall be published in the same manner and place as the **Schedule of Classes**.

### Dean's List

Full-time undergraduate students who demonstrate superior academic achievement during one semester will be honored on a "Dean's List." To be eligible for the Dean's List, a

student must be in a "pool" (defined hereafter) and must complete 12 hours of graded (A-F) USF courses with no incomplete grades during the semester. The "pool" consists of all students who have registered for at least 12 hours of USF courses in a given semester. The Dean's List shall consist of the fewer of: 1) the upper 10% of the enrollment of the college or 2) students in the college with a USF 3.5 GPA or above (ties at the 90th percentile will be included in the honors group).

The dean of the college in which the student is majoring or the Dean of Undergraduate Studies for undeclared students will recognize this academic honor. Students who are eligible should contact their College Advising Office for information.

### Academic Regulations Committee

The Academic Regulations Committee (ARC) meets regularly to review petitions submitted by undergraduate students to waive University academic regulations. Students must petition and secure approval of the committee to return to the University after having been academically dismissed or to waive academic deadlines.

Effective Fall, 1998, the University has implemented a statute of limitations on student petitions for retroactive adds, drops, withdrawals, and registration. A student will be limited to two calendar years (six academic semesters/terms) for such appeals whether the student is in attendance or not.

To petition the committee, completed forms should be submitted to the respective College Advising Office for ARC committee review. In some cases, a consultation with an ARC representative is required. Students may contact their ARC representative for details regarding their submission. The appropriate forms may be obtained from the following Office of the Registrar at [http://www.registrar.usf.edu/data\\_display.php?link\\_type=Forms](http://www.registrar.usf.edu/data_display.php?link_type=Forms) or from their academic advising office. Students will receive notification of the committee's decision by mail.

### Student Academic Grievance Procedures

I. **Purpose** - The purpose of these procedures is to provide all undergraduate and graduate students taking courses within the University of South Florida an opportunity for objective review of facts and events pertinent to the cause of the academic grievance. Such review will be accomplished in a collegial, non-judicial atmosphere rather than an adversarial one, and shall allow the parties involved to participate. All parties will be expected to act in a professional and civil manner.

The procedures that follow are designed to ensure objective and fair treatment of both students and instructors. These guidelines are meant to govern all colleges (exclusive of the College of Medicine which maintains its own procedures); however, as individual colleges or campuses may have different levels of authority or titles, each student must obtain the specific designations used by each college or campus for levels of authority and titles in the process.

In the case of grade appeals, the University reserves the right to change a student's grade if it is determined at the conclusion of the grievance process that the grade given was incorrect. In such circumstances the Dean or Provost/Vice President for Academic Affairs or the Vice President for Health Sciences Center may file an administrative grade change. The term "incorrect" means the assigned grade was based on something other than performance in the course, or that the assignment of the grade was not consistent with the criteria for awarding of grades as described in the course syllabus or other materials distributed to the student. In the case of all other academic grievances the University reserves the right to determine the final outcome based on the procedures detailed herein.

II. **Terms and Guidelines** - An "**academic grievance**" is a claim that a specific academic decision or action that affects that student's academic record or status has violated published policies and procedures, or has been applied to the grievant in

a manner different from that used for other students. Grievances may relate to such decisions as the assignment of a grade seen by the student as incorrect or the dismissal or failure of a student for his or her action(s). Academic grievances will not deal with general student complaints.

**"Instructor"** shall mean any classroom instructor, thesis/dissertation/directed study supervisor, committee member or chair, or counselor/advisor who interacts with the student in an academic environment.

**"Department Chair/Director"** shall mean the academic head of a college department or the director of a program—or in all cases a "Department's designee" appointed to handle academic grievances.

**"Dean"** shall mean a College Dean, the Dean of Undergraduate Studies, or the Dean of the Graduate School, as indicated—or in all cases a "Dean's designee" appointed to handle academic grievances for the unit.

**"Time"** shall mean **"academic time,"** that is, periods when university classes are in session. **The person vested with authority at the appropriate level may extend any of the time periods contained herein for good cause.** Any extensions must be communicated in writing to all parties. For the purposes of this policy, each step shall be afforded three (3) weeks as a standard time limit. When a department considers a grievance according to published departmental procedures approved by the College Dean and Provost, the time line specified in this academic unit's procedures will govern the process and no additional notice of time extension is needed.

**"Written communication"** shall mean communication by hard copy to the recipient's address of record.

The **"burden of proof"** shall be upon the student such that the student challenging the decision, action or grade assigned has the burden of supplying evidence that proves that the instructor's decision was incorrect. In considering grievances, decisions will be based on the preponderance of the evidence.

Neither party shall be entitled to bring **"legal representation"** to any actual grievance proceeding as this is an internal review of an academic decision.

As some Colleges may not have departments or some campuses may use different titles, the next level that applies to that College shall be substituted. If the incident giving rise to a grievance occurs on the St. Petersburg campus, the approved policy on that campus shall govern.

### III. Resolution at the Department Level

- A. The student shall first make a reasonable effort to resolve his or her grievance with the instructor concerned, with the date of the incident triggering the start of the process (i.e., the issuance of a grade; the receipt of an assignment), and the instructor shall accommodate a reasonable request to discuss and attempt to resolve this issue.
- B. If the situation cannot be resolved or the instructor is not available, the student shall file a notification letter within three weeks of the triggering incident to the department Chairperson/Director. This shall be a concise written statement of particulars and must include information pertaining to how, in the student's opinion, University policies or procedures were violated. The department Chairperson/Director shall provide a copy of this statement to the instructor.
- C. The department Chairperson/Director shall discuss the statement jointly or individually with the student and the instructor to see if the grievance can be resolved. If the department maintains its own grievance procedure, it should be applied at this point. If the grievance can be resolved, the Chairperson/Director shall provide a statement to that effect to the student and the instructor with a copy to the College Dean.
- D. If the grievance cannot be resolved, the department Chair/Director shall notify both the student and the instructor, informing the student of his/her right to file a written request

within three weeks to advance the grievance to the College Level. The instructor may file a written response to the grievance petition. Upon receipt of the student's request to move the process to the College Level and the instructor's response to the grievance (if provided), the Chairperson/Director shall immediately notify the College Dean of the grievance, providing copies of the student's initiating grievance statement, any instructor's written response to the grievance, and the written request from the student to have the process advanced to the College Level (which may include additional responsive or final statements by the student). Should the student not file a written request to move the grievance to the College Level within the prescribed time, the grievance will end.

If the grievance concerns the Chairperson/Director or other officials of the department, the student has a right to bypass the departmental process and proceed directly to the College Level.

\* Departments may develop their own formal procedures for considering grievances. Such procedures must be considered and approved by the College Dean and the Provost, and published on the Department's web site. When such procedures exist, the Department's examination of the grievance will unfold as specified in the procedures. If the Departmental process upholds the student's grievance, the Department Chair will work with the College, the student and the instructor to remedy the situation. If the Department does not uphold the grievance, the Chair will report the fact to the Dean. The student may, in such cases, request the College Level review as outlined in these university procedures.

### IV. Resolution at the College Level

- A. Upon receipt of the grievance, the College Dean shall either determine that the matter is not an academic grievance and dismiss it or within three weeks shall establish an Academic Grievance Committee. The membership of the Committee shall be constituted as follows:
  1. Three (3) faculty members and two (2) students (undergraduate or graduate as appropriate to the case) shall be selected from the college by the Dean.
  2. Wherever practical, the Committee shall include neither members of the faculty nor students of the department directly involved with the grievance, nor faculty nor students of the student's major department. However, if requested by the committee, faculty or students from the department involved with the grievance or from the student's major department may provide expert or other relevant testimony in the proceedings.
- B. The Committee will operate in the following manner:
  1. The Committee Chairperson will be appointed by the College Dean from among the three faculty members appointed to the Committee.
  2. The Committee Chairperson shall be responsible for scheduling meetings, overseeing the deliberations of the committee and ensuring that full and fair consideration is provided to all parties. The Committee Chairperson shall vote on committee decisions only when required to break a tie.
  3. All deliberations shall be in private and held confidential by all members of the Committee and those involved in the proceedings. The recommendation of the Committee shall be based on the factual evidence presented to it.
  4. Within three weeks of the Committee appointment, the Committee Chairperson shall deliver in writing to the student, instructor, department Chairperson/Director or Program Director, and College Dean a report of the findings and a recommended resolution.

5. Within three weeks of receipt of the Committee recommendation, the College Dean shall provide a decision in writing to all parties.
6. The student or the instructor may appeal the decision of the College Dean to the University Level only if the decision of the College Dean is contrary to the recommendation of the Committee or if there is a procedural violation of these Student Academic Grievance Procedures. Such an appeal must be made in writing to the Dean of Undergraduate Studies or Graduate Studies (as appropriate) within three weeks of receipt of the decision from the College Dean. Otherwise, the College Dean's decision is final and not subject to further appeal within the University.

#### **V. Resolution at the University Level:**

The Provost/Vice President for Academic Affairs or the Vice President for the Health Sciences Center has delegated authority to the Dean of Undergraduate Studies to act in place of the Provost/Vice President in all academic grievance appeals involving undergraduate students unless the grievance occurred in a program within Undergraduate Studies, wherein it will go back to the Provost to redelegate. The Dean of Graduate Studies will act in place of the Provost/Vice President in all academic grievance appeals involving graduate students.

- A. The student or the instructor may appeal at the University Level within three weeks of the receipt of a decision made at the College Level, when (1) the decision by a College Dean is contrary to the recommendation of a college Grievance Committee, or (2) there is cause to think a procedural violation of these University Academic Grievance Procedures has been made. Within three weeks of receipt of the appeal to the decision, the Undergraduate/Graduate Dean in consultation with the Faculty Senate and the Student Senate, shall appoint an Appeals Committee consisting of three faculty members drawn from the university Undergraduate Council or Graduate Council (as appropriate), and two students, undergraduate or graduate (as appropriate).
- B. The structure, functions and operating procedures of the Appeals Committee will be the same as those of the College Committee (i.e., chaired by one of the appointed faculty members appointed by the Undergraduate/Graduate Dean who will not vote except in the case of a tie, having no representation from either party's respective departments, developing a recommendation to the Undergraduate/Graduate Dean, etc.).
- C. Within three weeks of the appointment, the Committee Chairperson shall deliver in writing to the Undergraduate/Graduate Dean a report of the findings of the Committee and a recommended resolution.
- D. Within three weeks of receipt of the Committee recommendation, the Undergraduate/Graduate Dean shall provide a decision in writing to all parties.
- E. If the Undergraduate/Graduate Dean's decision is that a grade change is merited, the Undergraduate/Graduate Dean shall initiate the grade change on the authority of the Provost and so inform all parties. In all academic grievance appeals, the Undergraduate/Graduate Dean's decision is final and not subject to further appeal within the University.

These procedures shall take effect commencing Fall Semester, 2005, and shall supersede all other academic grievance procedures currently in effect, with the exception of the procedures of the College of Medicine.

#### **Procedures for Alleged Academic Dishonesty or Disruption of Academic Process**

Alleged violations of academic dishonesty or alleged disruptions of academic process will be handled initially by the instructor, who will discuss the incident with the student. It must be noted that the Faculty Senate considers the traditional relationship between student and faculty member as the primary means of settling disputes that may arise. If the instructor observes the alleged dishonesty occurring during an

examination, he/she should, with discretion, notify the student of the fact before the student leaves the examination. In all cases, the instructor must attempt to schedule a meeting with the student to discuss the alleged dishonesty or disruptions.

After the discussion, if the student and instructor have reached a mutual agreement as to the solution, the instructor shall file a statement with the chairperson of the department or equivalent, e.g. campus dean, responsible for the course outlining the facts of the incident and the agreed-upon solution signed by both the instructor and student. A copy of this statement shall be given to the student. If no solution is reached, the matter should be referred to the chairperson of the department or the equivalent, e.g. campus dean, for attempt at resolution.

#### **Academic Dishonesty**

Students attending USF are awarded degrees in recognition of successful completion of coursework in their chosen fields of study. Each individual is expected to earn his/her degree on the basis of personal effort. Consequently, any form of cheating on examinations or plagiarism on assigned papers constitutes unacceptable deceit and dishonesty. Disruption of the classroom or teaching environment is also unacceptable. This cannot be tolerated in the University community and will be punishable, according to the seriousness of the offense, in conformity with this rule.

#### **Plagiarism**

Plagiarism is defined as "literary theft" and consists of the unattributed quotation of the exact words of a published text, or the unattributed borrowing of original ideas by paraphrase from a published text. On written papers for which the student employs information gathered from books, articles, web sites, or oral sources, each direct quotation, as well as ideas and facts that are not generally known to the public at large, or the form, structure, or style of a secondary source must be attributed to its author by means of the appropriate citation procedure. Only widely known facts and first-hand thoughts and observations original to the student do not require citations. Citations may be made in footnotes or within the body of the text. Plagiarism also consists of passing off as one's own segments or the total of another person's work.

1. Examples of proper citation (footnote format) are as follows [Footnoting/citation styles will depend upon those used by different academic disciplines. Many disciplines in the Natural Science areas, for example, will cite the sources within the body of the text.]
  - a. "Plagiarism, from a Latin word meaning 'kidnapping,' ranges from inept paraphrasing to outright theft." 1[Direct quotation] 1Harry Shaw, *Concise Dictionary of Literary Terms* (McGraw-Hill, 1972), pp. 209-210.
  - b. As Harry Shaw states in his *Concise Dictionary of Literary Terms*, "Plagiarism, from a Latin word meaning 'kidnapping,' ranges from inept paraphrasing to outright theft." 1[Direct quotation with an introductory statement citing the source.] 1(McGraw-Hill, 1972), pp. 209-210.
  - c. Plagiarism is literary theft. To emphasize that point, Harry Shaw states that the root of the word comes from the Latin word meaning "kidnapping." 1[Paraphrasing] 1*Concise Dictionary of Literary Terms* (McGraw-Hill, 1972), pp. 209-210.
  - d. In defining plagiarism, "Strategies for Teaching with Online Tools" suggests that visibility makes intellectual theft less probable. 1[Paraphrasing a Web site] 1http://bedfordstmartins.com/technotes/hccworkshop/plagiarism.htm
2. Examples of proper citation (in body of text):
  - a. Shaw (1972) states that the root of the word comes from the Latin word meaning "kidnapping." [Paraphrasing; complete information about source will be cited in a section at the close of the text.]
  - b. Shaw (1972) was correct when he stated that "plagiarism, from a Latin word meaning 'kidnapping,' ranges

from inept paraphrasing to outright theft.” [Quotation; complete information about source will be cited in a section at the close of the text.]

- c. Plagiarism.org suggests that a searchable database of papers might assuage what Shaw called a “kidnapping” of intellectual content. [Paraphrasing of a Web site; the complete information on the Web site will appear in the works cited section.]
3. The following are examples of plagiarism because sources are not cited and appropriate quotation marks are not used:
  - a. Plagiarism, from a Latin word meaning “kidnapping,” ranges from inept paraphrasing to outright theft.
  - b. Plagiarism comes from a Latin word meaning “kidnapping” and ranges from paraphrasing to theft.
  - c. Plagiarism ranges from inept paraphrasing to outright theft.
  - d. Visibility online makes plagiarism much more difficult for the would-be thief.

### Punishment Guidelines for Plagiarism:

The student who submitted the subject paper, lab report, etc., shall receive an “F” with a numerical value of zero on the item submitted, and the “F” shall be used to determine the final course grade. It is the option of the instructor to assign the student a grade of F or FF (the latter indicating dishonesty) in the course.

### Cheating

Cheating is defined as follows: (a) the unauthorized granting or receiving of aid during the prescribed period of a course-graded exercise: students may not consult written materials such as notes or books, may not look at the paper of another student, nor consult orally with any other student taking the same test; (b) asking another person to take an examination in his/her place; (c) taking an examination for or in place of another student; (d) stealing visual concepts, such as drawings, sketches, diagrams, musical programs and scores, graphs, maps, etc., and presenting them as one’s own; (e) stealing, borrowing, buying, or disseminating tests, answer keys or other examination material except as officially authorized, research papers, creative papers, speeches, other graded assignments, etc. (f) Stealing or copying of computer programs and presenting them as one’s own. Such stealing includes the use of another student’s program, as obtained from the magnetic media or interactive terminals or from cards, print-out paper, etc.

### Penalties for Academic Dishonesty:

Penalties for academic dishonesty will depend on the seriousness of the offense and may include assignment of an “F” or a numerical value of zero on the subject paper, lab report, etc., an “F” or an “FF” grade (the latter indicating academic dishonesty) in the course, suspension or expulsion from the University. A student who receives an “FF” grade may not use the university’s Grade Forgiveness Policy if the course is subsequently repeated. An “FF” grade assigned to indicate academic dishonesty is reflected only on internal records and prevents the student from repeating the course using the Grade Forgiveness Policy. If a student who has been accused of academic dishonesty drops the course, the student’s registration in the course may be reinstated until the issue is resolved. (NOTE: A student who is suspected of cheating may not drop a course to avoid a penalty. If the student drops a course after having cheated the university may reinstate him or her until the case is adjudicated and, if appropriate, the penalty determined. However, even if the student is not reinstated in the course, disciplinary action may be pursued if cheating is suspected and the “W” grade may be changed to an FF, F, or other grade depending on the ultimate resolution of the disciplinary process. This includes any instance of cheating that is not detected by the instructor until after the student has dropped the course. The ultimate penalty may be an FF or an F in the course, or other

action.) Procedures for student notification and the option of appeal concerning the academic dishonesty remain with the instructor and/or department chair. (See Procedures for Alleged Academic Dishonesty or Disruption of Academic Process.) Notice that a student has been dismissed for reasons of academic dishonesty will be reflected on the student’s transcript with the formal notation: Dismissed for Academic Dishonesty.

For the first “FF” recorded in a student’s USF academic record, the student will receive a letter from the Dean of Undergraduate Studies informing him or her of being placed on “Academic Dishonesty Warning” for the remainder of enrollment at USF and of appeal rights for the “FF” grade. Students with any “FF” grade on record will not be eligible for honors at graduation.

For the second “FF” recorded, the student will be suspended for one full semester and readmitted only after writing a clear statement indicating remorse, understanding of the seriousness of the offense, and understanding of the importance of integrity in all areas, including academic work. A letter informing him or her of this action and appeal rights will be sent from the Dean of Undergraduate Studies.

For the third “FF” recorded, the student will be permanently dismissed from the university for violations of academic integrity and with notice of that dismissal as a part of the formal record and transcript.

Note that the maximum penalty for receipt of any “FF” grade may be permanent dismissal from the university for violations of academic integrity and with a notice of that dismissal as a part of the student’s formal record and transcript.

The following penalties are generally assigned in cases when the maximum penalty is not appropriate.

- a. For observation of or exchanging test information with other students during the course of a classroom test, the students who receive or give such information may receive an “F” with a numerical value of zero on the test, and the “F” shall be used to determine the final course grade. It is the option of the instructor to fail the student in the course and assign an “F” or “FF” grade for the course.
- b. For the use of any prohibited device, such as a cheat sheet, recording, calculator if forbidden on exam, etc., during the course of a classroom test to assist the student or other students, the student using such prohibited device may receive an “F” or “FF” in the course.
- c. For the use of another student, a stand-in, to take an examination for the enrolled student, it is suggested that the enrolled student receive an “F” or “FF” in the course and be suspended from school for one year and that the stand-in, if a University student, be suspended from school for one year.
- d. For stealing, borrowing, or buying of research papers, creative works, speeches or tests and other exam materials, or other graded assignments, or the dissemination of such materials, or the manipulation of recorded grades in a grade book or other class records, the student, if enrolled in the course, may receive an “F” or “FF” in the course and may be expelled from the University.
- e. It is suggested that students who plagiarize or receive or give stolen computer programs receive an “F” with a numerical value of zero on the assignment, program or programs, and the “F” be used to determine the final course grade. It is the option of the instructor to fail the student in the course and assign an “F” or “FF” grade for the course.

### Disruption of Academic Process

Disruption of academic process is defined as the act or words of a student in a classroom or teaching environment which in the reasonable estimation of a faculty member: (a) directs attention from the academic matters at hand, such as noisy distractions; persistent, disrespectful or abusive interruptions of lecture, exam or academic discussions, or (b) presents a danger to the health, safety or well being of the faculty member or students.

## 48 ACADEMIC POLICIES AND PROCEDURES

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

### Punishment Guidelines for Disruption of Academic Process:

Punishments for disruption of academic process will depend on the seriousness of the disruption and will range from a private verbal reprimand to dismissal from class with a final grade of "W," if the student is passing the course, shown on the student record. If the student is not passing, a grade of "F" will be shown on the student record. Particularly serious instances of disruption or the academic process may result in suspension or permanent expulsion from the University.

### Hearings

**Emergency Hearings.** An expedited emergency hearing may be held before an academic administrator appointed by the dean or by the appointed academic committee in cases that involve the safety, health or welfare of any student or staff member.

### Liberal Arts Requirements

All new USF students and Former Students Returning are required to take 45 semester hours to satisfy the complete liberal arts requirements. Thirty-six (36) semester hours will satisfy the general education course requirements and 9 semester hours will satisfy the exit requirements. Students seeking second baccalaureate degrees (those coded as 5B) are exempt from these requirements.

The requirements are distributed as follows:

General Education Requirements*	Sem. Hours
English Composition	6
Quantitative Methods	6
Natural Sciences	6
Social Sciences	6
Historical Perspectives	6
Fine Arts	3
African, Latin American, Middle Eastern or Asian Perspectives	3
	<u>36</u>
<b>Exit Requirements*</b>	
Major Works and Major Issues	6
Literature and Writing	3
	<u>9</u>

\*Courses may be certified in more than one area, but students may use each course in **only** one (1) area.

All students must achieve an overall average of "C" (2.0GPA) in the lower level requirements and a grade of "C-" or better in each of the exit requirement courses.

### LIBERAL ARTS GENERAL EDUCATION COURSE REQUIREMENTS (36 Semester Hours)

**English Composition:** This requirement consists of a minimum of six (6) semester hours of approved course work in English Composition. Students may satisfy this requirement during the second semester freshman level of composition in the following ways: by earning a letter grade of "C-" or better at USF or another institution or by receiving AP or IB English credit. Students with satisfactory CLEP performance will satisfy part of the English Composition requirement, but they will still need to complete ENC 1102 or its equivalent. To satisfy the Gordon Rule, students must earn a letter grade of "C-" or better in each of these courses.

**Quantitative Methods:** Competence in a minimum of six (6) semester hours of approved mathematics coursework (see the list below). These courses should include both a practical component-providing students with an appreciation of how course content relates to their everyday experiences, and an historical component-providing students with an understanding of the application of the material to other disciplines. To

satisfy the Gordon Rule, students must earn a letter grade of "C-" or better in each of these courses.

Only the courses in the list below may be used to satisfy the General Education Quantitative Methods requirement. At least one course must have either an MAC or an MGF prefix. The other course may be any course in the list. To satisfy the Gordon Rule, students must earn a letter grade of "C-" or better in these courses.

While CGS 2060 is applicable to the Gordon Rule Computation requirement, it cannot be used to satisfy USF's General Education Quantitative Methods requirement.

**Natural Sciences:** Students should successfully complete a minimum of six (6) semester hours of approved coursework in the natural sciences. Students are encouraged to enroll in courses with a laboratory component. It is a goal that all students have at least one science course with a laboratory; however, facilities and personnel resources prohibit that requirement at this time. Courses may be interdisciplinary. The courses may deal with the content, theories, history, presuppositions, and methods of the discipline. They will include demonstrations and address problems, ambiguities, and different perspectives in the discipline. They will also provide students with an appreciation of how the discipline fits within the natural sciences and relates to their own lives and the broader human experience.

**Social Sciences:** Students must successfully complete a minimum of six (6) semester hours of approved coursework in the social sciences; the courses may be interdisciplinary and need not be sequential. Courses in the social sciences shall involve those disciplines considered to be social sciences in that they deal theoretically and empirically with individuals and their relationships to each other and to society. Courses must deal with the content, theories, history, presuppositions, and methods of the discipline. They should also address problems, ambiguities, and different perspectives in the discipline. These courses will provide students with an appreciation of how the discipline fits within the social sciences and relates to their own lives and the broader human experience.

**Historical Perspectives:** A minimum of six (6) semester hours of approved coursework in artistic, cultural, economic, intellectual, religious, social, and/or political history is required. At least three (3) semester hours will be in the history of Western Civilization. Courses are not limited to those in the discipline of history; however, the courses will have a historical perspective in that they provide students with a sense of the evolution of societies and peoples, including analysis of their history. A sense of chronology is necessary in these courses, but not sufficient. A historical perspective also entails analyses of various elements, such as the intellectual, cultural, artistic, economic, social, political, and religious characteristics of societies and peoples.

**Fine Arts:** Students are required to successfully complete a minimum of three (3) semester hours of approved coursework in the fine arts. Courses in the fine arts shall involve those disciplines considered to be fine arts in that they deal theoretically and experientially with the aesthetic dimensions of individuals and groups. Courses will concern the creative experience that takes into account the perspectives of both the artist and the public. They may be interdisciplinary and must involve the content, theories, history, presuppositions, and methods of the fine arts. They will address problems, ambiguities, and different perspectives in the disciplines of fine arts. These courses will also provide students with an appreciation of how the disciplines fit within fine arts and relate to their everyday experiences.

**African, Latin American, Middle Eastern, or Asian Perspectives (ALAMEA):** Students will take a minimum of three (3) semester hours of approved coursework in one of the above listed geographical areas. Course content may include social, political, and economic as well as artistic, cultural, and intellectual subject matter. The material will be presented within a geographical, chronological, and/or humanities background and will necessarily be selective.

All courses listed are certified as meeting the General Education requirement as of November, 2005. Additional courses may have been certified since that date. Please consult with an academic advisor for current and additional information.

### LIBERAL ARTS GENERAL EDUCATION REQUIREMENT

#### ENGLISH COMPOSITION

ENC 1101	Composition I -6A	3
ENC 1102	Composition II -6A	3
ENC 1121	Composition I: Honors -6A	3
ENC 1122	Composition II: Honors -6A	3

#### QUANTITATIVE METHODS

MAC 1105	College Algebra -6A	3
MAC 1140	Precalculus Algebra -6A	3
MAC 1147	Precalculus Algebra and Trigonometry -6A	4
MAC 2233	Business Calculus -6A	4
MAC 2241	Life Sciences Calculus I -6A	4
MAC 2242	Life Sciences Calculus II -6A	4
MAC 2281	Engineering Calculus I -6A	4
MAC 2282	Engineering Calculus II -6A	4
MAC 2311	Calculus I -6A	4
MAC 2312	Calculus II -6A	4
MGF 1106	Finite Mathematics -6A	3
MGF 1107	Mathematics for Liberal Arts -6A	3
MGF 2131	Chaos and Fractals -6A	3
MGF 3301	Bridge to Abstract Mathematics -6A	4
PHI 2101	Introduction to Formal Logic -6A	3
PSY 3204	Psychological Statistics -6A	3
QMB 2100	Business And Economic Statistics I -6A	3
STA 1022	Basic Statistics -6A	3
STA 2023	Introductory Statistics I -6A	4
STA 2122	Social Science Statistics -6A	3

#### NATURAL SCIENCES

ANT 2511	Biological Anthropology	3
ANT 2511L	Biological Anthropology Laboratory	1
ANT 4586	Prehistoric Human Evolution	3
AST 2003	Astronomy of the Solar System	4
AST 2004	Stellar Astronomy and Cosmology	4
AST 3033	Contemporary Thinking in Astronomy	3
BMS 4402	Principles of Human Pharmacology	3
BSC 1005	Principles of Biology For Non-Majors	3
BSC 1020	The Biology of Humans	3
BSC 2010	Biology I - Cellular Processes	3
BSC 2011	Biology II - Diversity	3
BSC 2022	Biology of Aging	3
BSC 2025	Food: Personal and Global Perspectives	3
BSC 2030	Save The Planet: Environmental Sciences	3
BSC 2035	Sex and Today's World	3
BSC 2050	Environment	3
BSC 2085	Anatomy and Physiology I for Nursing and other Healthcare Professionals	3
BSC 2086	Anatomy and Physiology II for Nursing and other Healthcare Professionals	3
CHM 2023	Chemistry for Today	4
CHM 2045	General Chemistry I	3
CHM 2046	General Chemistry II	3
EVR 2001	Introduction to Environmental Science	3
EVR 2002	Environmental Science: Regional and Global Issues	3
EVR 2217	Energy, Environment and Sustainability	3
EVR 4104	Karst Environments	3
EVR 4114	Climate Change	3
GEO 2200	Introduction to Physical Geography	3
GEO 2371	Introduction to Earth Systems Science	3
GEO 4244	Tropical Meteorology	4
GEO 4284	Water Resources Management	4
GLY 2000	Earth and Environmental Systems	3

GLY 2010	Dynamic Earth: Introduction to Physical Geology	3
GLY 2030	Hazards of the Earth's Surface: Environmental Geology	3
GLY 2050	Science, Earth and Life	3
GLY 2051	Origins: From the Big Bang to the Ice Age	3
GLY 2100	History of the Earth and Life	3
GLY 2160	Geology of the National Parks	3
HSC 3541	Human Structure and Function	3
HSC 4531	Medical Terminology	3
ISC 1004	Integrated Natural Sciences I: Science that Matters	3
ISC 1005	Integrated Natural Sciences II: Science that Matters	3
OCE 2001	Introduction to Oceanography	3
PHI 1401	Science and Society -6A	3
PHY 2020	Conceptual Physics	3
PHY 2048	General Physics I	3
PHY 2049	General Physics II	3
PHY 2053	General Physics I	3
PHY 2054	General Physics II	3
PHZ 4434	Materials Physics	3
PSC 2515	Energy and Humanity	3

#### SOCIAL SCIENCES

AFA 4150	Africa and the United States -6A	3
AFA 4150	Africa and the United States -6A	3
AFS 3251	Environmental - Cultural Study in Africa	3
AMS 2030	Introduction to American Studies	3
AMS 3601	Material Culture and American Society	3
AMS 3700	Racism in American Society	3
ANT 2000	Introduction to Anthropology	4
ANT 2410	Cultural Anthropology	3
ANT 3101	Archaeology	3
ANT 3610	Anthropological Linguistics	3
ASH 3404	Modern China	4
ASN 3012	Japan Today	3
CCJ 3003	Crime and Justice in America	4
CCJ 3024	Survey of the Criminal Justice System	3
CGS 2034	Computers and Impact on Society	3
CGS 2094	CyberEthics	3
CLP 2001	Psychology of Adjustment	3
COM 2000	Introduction to Communication	3
CPO 2002	Introduction to Comparative Politics	3
CPO 4034	Politics of the Developing Areas	3
CPO 4204	Government and Politics of Africa	3
DEP 3103	Child Psychology	3
ECH 2020	Energy, Environment and Sustainability	3
ECO 1000	Basic Economics	3
ECO 2013	Economic Principles (Macroeconomics)	3
ECO 2023	Economic Principles (Microeconomics)	3
EGR 3615	Engineering Economics with Social and Global Implications	3
EUS 3000	Europe	3
EUS 3022	Russia	3
FRE 4392	African Images in Francophone Film	3
GEA 2000	World Regional Geography	4
GEB 2350	Doing Business Around the World	3
GEO 1930	Geography of Current Events	4
GEO 2400	Introduction to Human Geography	4
GEY 2000	Introduction to Gerontology	3
GEY 3625	Sociocultural Aspects of Aging	3
GEY 4327	Understanding Policies and Practices of Long Term Care	3
GEY 4328	Health Care Operations	3
GEY 4612	Psychology of Aging	3
GEY 4628	Race, Ethnicity and Aging	3
GEY 4641	Death and Dying	3
GEY 4647	Ethical and Legal Issues of Aging	3
HSC 2100	Contemporary Health Science	3
HSC 2133	Sex, Health, and Decision-Making	3
IDS 2664	Social Science Perspectives I	3
IDS 2665	Social Science Perspectives II	3

IDS 2933	Selected Topics III	3	AMS 3700	Racism in American Society -6A	3
IDS 2934	Selected Topics IV	3	ARC 2211	Introduction to Architecture -6A	3
INP 2101	Applied Psychology	3	ARC 2701	Architectural History I -6A	3
INR 1015	World Perspective	3	ARC 2702	Architectural History II -6A	3
INR 3038	International Wealth and Power	3	ARH 2050	History of Visual Arts I -6A	3
INR 3084	International Terrorism	3	ARH 2051	History of Visual Arts II -6A	3
INR 4403	International Law	3	ARH 3001	Introduction To Art -6A	4
INR 4502	International Organizations	3	ARH 3475C	Contemporary Issues in Art -6A	4
ISS 1101	Knowledge and Society	3	ASH 2270	Southeast Asian History -6A	3
ISS 1102	Self and Society	3	ASH 3404	Modern China -6A	4
ISS 1103	Nature and Culture	3	CLA 3103	Greek Civilization -6A	3
MMC 3602	Mass Communications and Society	3	CLA 3124	Roman Civilization -6A	3
PAD 3003	Introduction to Public Administration	3	CLT 3370	Classical Mythology -6A	3
PHI 1103	Critical Thinking	3	EDF 3514	History of Education in the United States -6A	3
PHI 1401	Science and Society -6A	3	EGN 2031	History of Technology -6A	3
PHI 1600	Introduction to Ethics	3	EGN 2082	History of Electrotechnology -6A	3
PHI 2630	Contemporary Moral Issues	3	ENL 3334	Shakespeare from an Historical Perspective -6A	3
PHI 2631	Ethics and Business	3	EUH 2011	Ancient History I -6A	3
PHI 3640	Environmental Ethics	3	EUH 2012	Ancient History II -6A	3
PHI 3700	Philosophy of Religion -6A	3	EUH 2021	Byzantium History -6A	3
PHM 3100	Social Philosophy -6A	3	EUH 2022	The Medieval West -6A	3
POS 2080	The American Political Tradition	3	EUH 2030	Modern European History I -6A	3
PSY 2012	Introduction to Psychological Science	3	EUH 2031	Modern European History II -6A	3
PSY 3017	Psychological Science II	3	EUS 3022	Russia -6A	3
REL 2300	Introduction to World Religions	4	FRE 4392	African Images in Francophone Film -6A	3
REL 3101	Religion and Popular Culture	3	GEA 2000	World Regional Geography -6A	4
REL 3111	The Religious Quest in Contemporary Films -6A	4	GET 3522	Fantastic Films of Early German Cinema -6A	4
REL 3116	Religion and Contemporary American Holidays	3	GET 3524	German Popular Film -6A	4
REL 3117	Religion and Contemporary American Sports	3	GET 4523	New German Cinema to Present -6A	4
REL 3170	Religion, Ethics and Society Through Film -6A	4	GEW 4750	Women in Contemporary German Literature and Film -6A	3
REL 3308	World Religions -6A	3	GEY 4327	Understanding Policies and Practices of Long Term Care -6A	3
REL 3318	Introduction to Chinese Religion	3	GEY 4328	Health Care Operations -6A	3
REL 3391	In Search of the Goddess	3	HUM 2210	Studies in Culture: The Classical Through Medieval Periods -6A	3
REL 3607	Introduction to Judaism -6A	3	HUM 2230	Studies in Culture: The Renaissance Through the Twentieth Century -6A	3
SOP 3742	Psychology of Women	3	HUM 3252	Studies in Culture: The Twentieth Century -6A	3
SOW 3210	The American Social Welfare System	3	IDS 2666	Historical Perspectives I -6A	3
SPA 3002	Introduction to Disorders of Speech and Language	3	IDS 2667	Historical Perspectives II -6A	3
SPC 2541	Persuasion	3	IDS 2932	Selected Topics -6A	3
SPC 2600	Public Speaking	3	ITT 3504	Italian Cultural Studies -6A	3
SPC 3301	Interpersonal Communication	3	LAH 2020	Latin American Civilization -6A	3
SPC 3710	Communication and Cultural Diversity	3	LAH 2733	Latin American History in Film -6A	3
SYD 3700	Racial and Ethnic Relations	3	LIT 2000	Introduction to Literature -6A	3
SYG 2000	Introduction to Sociology	3	LIT 2010	Introduction to Fiction -6A	3
SYG 2010	Contemporary Social Problems	3	LIT 2030	Introduction to Poetry -6A	3
SYP 3000	Social Psychology	3	LIT 2040	Introduction to Drama -6A	3
WST 2600	Human Sexual Behavior	3	LIT 3022	Modern Short Prose -6A	3
WST 3015	Introduction to Women's Studies	3	LIT 3144	Modern European Novel -6A	3
WST 3311	Issues in Feminism	3	LIT 3155	Modern Literature -6A	3
WST 3370	Women and Social Action	3	MMC 3602	Mass Communications and Society -6A	3
<b>HISTORICAL PERSPECTIVE</b>			MUL 2111	Introduction To Music Literature -6A	3
AFA 4150	Africa and the United States -6A	3	PHH 2000	Introduction to Philosophy -6A	3
AFA 4502	Middle Passage -6A	3	PHI 1600	Introduction to Ethics -6A	3
AFH 3100	African History to 1850 -6A	3	PHM 3100	Social Philosophy -6A	3
AFH 3200	African History since 1850 -6A	3	PHP 3786	Existentialism -6A	3
AMH 2010	American History I -6A	3	POS 2080	The American Political Tradition -6A	3
AMH 2020	American History II -6A	3	REL 2300	Introduction to World Religions -6A	4
AMH 3571	African American History to 1865 -6A	3	REL 2306	Contemporary World Religions -6A	4
AMH 3572	African American History since 1865 -6A	3	REL 3101	Religion and Popular Culture -6A	3
AML 3413	Historical Perspectives in Early American Literature -6A	3	REL 3111	The Religious Quest in Contemporary Films -6A	4
AMS 2030	Introduction to American Studies -6A	3	REL 3116	Religion and Contemporary American Holidays -6A	3
AMS 2201	Colonial American Culture -6A	3	REL 3117	Religion and Contemporary American Sports -6A	3
AMS 2212	Nineteenth-century American Culture -6A	3	REL 3170	Religion, Ethics and Society Through Film -6A	4
AMS 2270	Twentieth-century American Culture -6A	3	REL 3308	World Religions -6A	3
AMS 3001	American Culture 1880-1915 -6A	4	REL 3318	Introduction to Chinese Religion -6A	3
AMS 3210	Regions of America -6A	4			
AMS 3260	American Culture, 1830-1860 -6A	4			
AMS 3370	Southern Women: Myth and Reality -6A	3			
AMS 3601	Material Culture and American Society -6A	3			

REL 3363	Introduction to Islam -6A	3	GEY 3625	Sociocultural Aspects of Aging	3
REL 3367	Islam in the Modern World -6A	3	GEY 4328	Health Care Operations	3
REL 3391	In Search of the Goddess -6A	3	HUM 2271	Eastern and Western Culture from Antiquity to 1400	3
REL 3500	History of Christianity -6A	4	HUM 2273	Eastern and Western Culture Since 1400	3
REL 3607	Introduction to Judaism -6A	3	INR 1015	World Perspective	3
REL 4215	Ancient Israel and the Development of the Hebrew Bible -6A	3	INR 3084	International Terrorism	3
REL 4218	Women and the Bible -6A	3	INR 4502	International Organizations	3
SLS 4273	Theories of Leadership -6A	3	LAH 2020	Latin American Civilization	3
SPC 3230	Rhetorical Theory -6A	3	LAH 2733	Latin American History in Film	3
SPC 3631	Rhetoric of the Sixties -6A	3	LAS 3116	Latin America Through Film	3
SYD 3700	Racial and Ethnic Relations -6A	3	LIN 2002	Language, Culture and Film	3
WOH 3293	Islam in World History -6A	4	MUH 2051	Folk And Traditional Music Of World Cultures	3
WST 2250	Female Experience in America -6A	3	MUL 3001	Issues In Music	2-3
WST 3210	European Feminist History: Pre-18th Century -6A	3	REL 3318	Introduction to Chinese Religion	3
WST 3220	European Feminist History: Enlightenment to the Present -6A	3	REL 3330	Religions of South Asia	3
			REL 3363	Introduction to Islam	3
			REL 3367	Islam in the Modern World -6A	3
			REL 3391	In Search of the Goddess	3
			REL 3607	Introduction to Judaism -6A	3
			REL 4215	Ancient Israel and the Development of the Hebrew Bible -6A	3
			REL 4218	Women and the Bible -6A	3
			SYD 3441	Peasant Perspectives	3
			SYG 3235	Latina Lives -6A	3
			WOH 3293	Islam in World History	4
			WST 3015	Introduction to Women's Studies	3
<b>FINEARTS</b>					
AFS 3251	Environmental - Cultural Study in Africa	3	<b>LIBERAL ARTS EXIT REQUIREMENTS FOR UNDERGRADUATES IN ALL DISCIPLINES (9 Semester Hours)</b>		
ARC 2131	Introduction to Architectural Design and Graphics	4			
ARC 2211	Introduction to Architecture	3	A student's liberal arts education will continue throughout the college years and not be limited to a relatively small number of required courses in the first two years of college. Exit requirements will provide students with an opportunity during their junior and senior years at USF to integrate their knowledge within the context of liberal arts. Courses that satisfy the exit requirements will, where appropriate, incorporate considerations of values and ethics; international and environmental perspectives; race and ethnicity; and gender. By their junior and senior years, students will have a foundation in liberal arts and be better able to reflect upon ethical issues in a constructive way. Students graduating from the College of Education or the College of Engineering may be required to complete only six hours (two exit courses) and should consult with their advisors regarding exceptions to this requirement. Students seeking second baccalaureate degrees (those coded as 5B) are exempt from the liberal arts exit requirements.		
ARC 2701	Architectural History I	3			
ARC 2702	Architectural History II	3	Students will take at least <u>one</u> of the Liberal Arts Exit courses outside their disciplinary cluster(s). For purposes of this policy, the term "discipline" refers to the following fields: business, education, engineering, fine arts, health sciences, letters, natural sciences, and social sciences (See list below of "Outside the Disciplinary Cluster" Liberal Arts Exit Courses). One of the Major Works and Major Issues courses, if taken outside the student's major disciplinary cluster(s), may be taken for S/U credit with the consent of the instructor. Only courses numbered 3000 or above may be used to satisfy the exit requirements. <b>Exit requirements must be completed with USF courses.</b>		
ARH 2050	History of Visual Arts I	3			
ARH 2051	History of Visual Arts II	3	All exit requirement courses will be seminar-size courses in which enrollment will be targeted at approximately 20 to 25 students. These courses will be taught by regular faculty.		
ARH 3001	Introduction To Art	4			
ARH 3475C	Contemporary Issues in Art	4	All students must achieve an overall average of "C" (2.0GPA) in the lower level requirements and a grade of "C-" or better in each of the exit requirement courses.		
ART 2201C	Concepts and Practices I	3-4			
ART 2203C	Concepts and Practices II	3-4	Students majoring in the College of Education are permitted to graduate with only six credits of Liberal Arts Exit courses, all of which may be taken in the College. The distribution of those six credits varies by major. Students majoring in the College of Engineering are permitted to graduate with only six credits of Liberal Arts Exit courses, and may meet the Literature/Writing requirement by completing ENC 3246. Students graduating		
DAN 2100	Introduction To Dance -6A	3			
EGN 2080	Light and the Arts: A Quantitative Approach	3	Students majoring in the College of Education are permitted to graduate with only six credits of Liberal Arts Exit courses, all of which may be taken in the College. The distribution of those six credits varies by major. Students majoring in the College of Engineering are permitted to graduate with only six credits of Liberal Arts Exit courses, and may meet the Literature/Writing requirement by completing ENC 3246. Students graduating		
FIL 2000	Film: The Language Of Vision -6A	4			
FIL 3845	World Cinema -6A	4	Students majoring in the College of Education are permitted to graduate with only six credits of Liberal Arts Exit courses, all of which may be taken in the College. The distribution of those six credits varies by major. Students majoring in the College of Engineering are permitted to graduate with only six credits of Liberal Arts Exit courses, and may meet the Literature/Writing requirement by completing ENC 3246. Students graduating		
HUM 1020	The Arts	3			
HUM 1580	Introduction to Film Studies	3	Students majoring in the College of Education are permitted to graduate with only six credits of Liberal Arts Exit courses, all of which may be taken in the College. The distribution of those six credits varies by major. Students majoring in the College of Engineering are permitted to graduate with only six credits of Liberal Arts Exit courses, and may meet the Literature/Writing requirement by completing ENC 3246. Students graduating		
IDS 3662	Arts Connections	3			
MUC 2301	Introduction To Electronic Music	3	Students majoring in the College of Education are permitted to graduate with only six credits of Liberal Arts Exit courses, all of which may be taken in the College. The distribution of those six credits varies by major. Students majoring in the College of Engineering are permitted to graduate with only six credits of Liberal Arts Exit courses, and may meet the Literature/Writing requirement by completing ENC 3246. Students graduating		
MUH 2020	The History of Blues and Rock	3			
MUH 2051	Folk And Traditional Music Of World Cultures	3	Students majoring in the College of Education are permitted to graduate with only six credits of Liberal Arts Exit courses, all of which may be taken in the College. The distribution of those six credits varies by major. Students majoring in the College of Engineering are permitted to graduate with only six credits of Liberal Arts Exit courses, and may meet the Literature/Writing requirement by completing ENC 3246. Students graduating		
MUH 2632	Music In The United States	3			
MUH 3016	Survey Of Jazz	3	Students majoring in the College of Education are permitted to graduate with only six credits of Liberal Arts Exit courses, all of which may be taken in the College. The distribution of those six credits varies by major. Students majoring in the College of Engineering are permitted to graduate with only six credits of Liberal Arts Exit courses, and may meet the Literature/Writing requirement by completing ENC 3246. Students graduating		
MUL 2111	Introduction To Music Literature -6A	3			
MUL 3001	Issues In Music	2-3	Students majoring in the College of Education are permitted to graduate with only six credits of Liberal Arts Exit courses, all of which may be taken in the College. The distribution of those six credits varies by major. Students majoring in the College of Engineering are permitted to graduate with only six credits of Liberal Arts Exit courses, and may meet the Literature/Writing requirement by completing ENC 3246. Students graduating		
MUL 3012	Music in Your Life	3			
THE 2005	Issues in Theatre	3	Students majoring in the College of Education are permitted to graduate with only six credits of Liberal Arts Exit courses, all of which may be taken in the College. The distribution of those six credits varies by major. Students majoring in the College of Engineering are permitted to graduate with only six credits of Liberal Arts Exit courses, and may meet the Literature/Writing requirement by completing ENC 3246. Students graduating		
THE 2252	Great Performances on Film	3			
<b>ALAMEA</b>					
AFA 2000	Introduction to the Black Experience [In Africa and Its Diaspora] -6A	3	Students majoring in the College of Education are permitted to graduate with only six credits of Liberal Arts Exit courses, all of which may be taken in the College. The distribution of those six credits varies by major. Students majoring in the College of Engineering are permitted to graduate with only six credits of Liberal Arts Exit courses, and may meet the Literature/Writing requirement by completing ENC 3246. Students graduating		
AFA 4150	Africa and the United States -6A	3			
AFA 4502	Middle Passage	3	Students majoring in the College of Education are permitted to graduate with only six credits of Liberal Arts Exit courses, all of which may be taken in the College. The distribution of those six credits varies by major. Students majoring in the College of Engineering are permitted to graduate with only six credits of Liberal Arts Exit courses, and may meet the Literature/Writing requirement by completing ENC 3246. Students graduating		
AFH 3100	African History to 1850	3			
AFH 3200	African History since 1850	3	Students majoring in the College of Education are permitted to graduate with only six credits of Liberal Arts Exit courses, all of which may be taken in the College. The distribution of those six credits varies by major. Students majoring in the College of Engineering are permitted to graduate with only six credits of Liberal Arts Exit courses, and may meet the Literature/Writing requirement by completing ENC 3246. Students graduating		
AFS 2250	Culture and Society in Africa -6A	3			
AFS 3251	Environmental - Cultural Study in Africa	3	Students majoring in the College of Education are permitted to graduate with only six credits of Liberal Arts Exit courses, all of which may be taken in the College. The distribution of those six credits varies by major. Students majoring in the College of Engineering are permitted to graduate with only six credits of Liberal Arts Exit courses, and may meet the Literature/Writing requirement by completing ENC 3246. Students graduating		
ANT 2000	Introduction to Anthropology	4			
ANT 2410	Cultural Anthropology	3	Students majoring in the College of Education are permitted to graduate with only six credits of Liberal Arts Exit courses, all of which may be taken in the College. The distribution of those six credits varies by major. Students majoring in the College of Engineering are permitted to graduate with only six credits of Liberal Arts Exit courses, and may meet the Literature/Writing requirement by completing ENC 3246. Students graduating		
ANT 3005	The Anthropological Perspective	3			
ASH 2270	Southeast Asian History	3	Students majoring in the College of Education are permitted to graduate with only six credits of Liberal Arts Exit courses, all of which may be taken in the College. The distribution of those six credits varies by major. Students majoring in the College of Engineering are permitted to graduate with only six credits of Liberal Arts Exit courses, and may meet the Literature/Writing requirement by completing ENC 3246. Students graduating		
ASH 3404	Modern China	4			
ASN 3014	China Today	3	Students majoring in the College of Education are permitted to graduate with only six credits of Liberal Arts Exit courses, all of which may be taken in the College. The distribution of those six credits varies by major. Students majoring in the College of Engineering are permitted to graduate with only six credits of Liberal Arts Exit courses, and may meet the Literature/Writing requirement by completing ENC 3246. Students graduating		
ASN 3030	The Middle East	3			
CGS 2094	CyberEthics	3	Students majoring in the College of Education are permitted to graduate with only six credits of Liberal Arts Exit courses, all of which may be taken in the College. The distribution of those six credits varies by major. Students majoring in the College of Engineering are permitted to graduate with only six credits of Liberal Arts Exit courses, and may meet the Literature/Writing requirement by completing ENC 3246. Students graduating		
CPO 4034	Politics of the Developing Areas	3			
CPO 4204	Government and Politics of Africa	3	Students majoring in the College of Education are permitted to graduate with only six credits of Liberal Arts Exit courses, all of which may be taken in the College. The distribution of those six credits varies by major. Students majoring in the College of Engineering are permitted to graduate with only six credits of Liberal Arts Exit courses, and may meet the Literature/Writing requirement by completing ENC 3246. Students graduating		
ECS 4430	Economics of Latin America	3			
EUS 3022	Russia	3	Students majoring in the College of Education are permitted to graduate with only six credits of Liberal Arts Exit courses, all of which may be taken in the College. The distribution of those six credits varies by major. Students majoring in the College of Engineering are permitted to graduate with only six credits of Liberal Arts Exit courses, and may meet the Literature/Writing requirement by completing ENC 3246. Students graduating		
FRE 4392	African Images in Francophone Film	3			
GEA 2000	World Regional Geography	4			

from the College of Nursing are permitted to graduate with six credits of Liberal Arts Exit courses, both of which may be Major Works/Issues courses within the College.

**Major Works and Major Issues (6 credit hours required):**

A portion of the exit requirements consists of a minimum of six (6) semester hours of approved coursework concerning major works and major issues. Courses will focus on major issues, documents, or works, and will allow students to read primary texts. These courses may allow students to delve into topics on an interdisciplinary basis. Students will be encouraged to write enough to fulfill Gordon Rule requirements. One of the Major Works and Major Issues courses, if taken outside the student's major discipline(s), may be taken for S/U credit with the consent of the instructor.

Major Works and Major Issues courses must offer the opportunity for integration of content. These courses will have a liberal arts content and, when appropriate, will contain in-depth discussions of values and ethics, international and environmental perspectives, race and ethnicity, and gender. Courses may be interdisciplinary and may be team taught. This will provide students with an opportunity to explore, in-depth and on an interdisciplinary basis, major topics that are important but outside of the major field of study.

All students must achieve an overall average of "C" (2.0GPA) in the lower level requirements and a grade of "C-" or better in each of the exit requirement courses.

**Literature and Writing (3 credit hours required):** In addition, students will take three (3) semester hours of approved exit requirement coursework in literature and writing. These courses will allow students to read significant literature of the world and write at least 6,000 words. These courses also meet the Gordon Rule Communications requirement. The writing requirement may be satisfied with assignments that include, for instance, revision and process writing. The course may be taken within the major if appropriate. The courses will focus on the dimensions of values and ethics, international and environmental perspectives, race and ethnicity, and gender.

All students must achieve an overall average of "C" (2.0GPA) in the lower level requirements and a grade of "C-" or better in each of the exit requirement courses.

Although post-secondary foreign language courses may not be required for all graduates, students are encouraged to become competent in at least one foreign language. Foreign language study enriches the command of English, enlarges cultural perspective, and enhances learning skills.

All courses listed are certified as meeting the Exit requirement as of November, 2007. Additional courses may have been certified since that date. Please consult with an academic advisor for current and additional information.

**LIBERAL ARTS EXIT REQUIREMENT COURSES**

**MAJOR WORKS AND MAJOR ISSUES**

AFA 4313	Black English	3
AFA 4333	The African Diaspora: Blacks in the Construction of the Americas	3
AFA 4335	Black Women in America -6A	3
AFA 4350	African American Community Research	3
AFA 4500	Slavery in the Americas and the Caribbean	3
AFA 4502	Middle Passage	3
AML 4303	Zora Neale Hurston: Major Works -6A	3
AMS 4804	Major Ideas in America	3
ANT 4149	Fantastic Archaeology	3
ANT 4172	Historical Archaeology -6A	3
ANT 4241	Anthropology of Religion -6A	3
ANT 4302	Gender in Cross-Cultural Perspective	3
ANT 4316	Ethnic Diversity in the United States	3
ANT 4340	The Caribbean -6A	3
ANT 4401	Exploring Cross-Cultural Diversity	3
ANT 4432	The Individual and Culture -6A	3
ARC 4784	The City -6A	3
ARH 3475C	Contemporary Issues in Art	4
ARH 4455	Modern Political Iconography	4

ARH 4710	History of Photography -6A	4
BSC 4057	Environmental Issues	3
CCJ 4934	Seminar in Criminology	3
CEG 4850	Capstone Geotechnical/Transportation Design	4
CES 4750	Capstone Structural/Geotechnical/Material Design	4
CGN 4122	Professional and Ethical Issues in Engineering	3
CHM 4070	Historical Perspectives in Chemistry -6A	3
CIS 4250	Ethical Issues And Professional Conduct -6A	3
CIS 4253	IT Ethics -6A	3
CLT 3103	Greek Literature in Translation -6A	3
CLT 3123	Roman Literature in Translation -6A	3
COM 4030	Women and Communication -6A	3
CWR 4812	Capstone Water Resources/Environmental Design	4
DAN 4135	20th Century Dance	3
ECH 4615	Product and Process Design	3
ECO 3703	International Economics	3
ECO 4323	Radical Political Economy	3
ECP 3201	Economics of Women and Work	3
ECP 3302	Environmental Economics	3
ECP 3613	Economics of the Urban Environment	3
ECS 4003	Comparative Economic Systems	3
ECS 4430	Economics of Latin America	3
EDF 3228	Human Behavior and Environmental Selection -6A	3
EDF 3514	History of Education in the United States	3
EDF 3604	Social Foundations of Education	3
EEL 4471	Electromagnetics	3
EEL 4906	Professional Issues and Engineering Design	3
EGN 4831	Technology and Society	3
EIN 4891	Capstone Design	3
EML 4551	Capstone Design	3
ENV 4891	Capstone Environmental Engineering Design	3
ESC 4705	Geology and Development of Modern Africa	3
EVR 4027	Wetland Environments	3
EVL 4651	Equity in Schools and the Workplace -6A	3
FRE 3502	The Francophone World	3
FRE 4392	African Images in Francophone Film	3
FRT 3001	Great French Love Stories in Translation	3
FRW 4100	The French Novel	3
FRW 4101	Introduction to French Drama and Poetry	3
GEB 4890	Strategic Management and Decision Making	3
GEO 4372	Global Conservation -6A	4
GEO 4471	Political Geography	4
GEO 4604	Topics in Urban Geography	4
GET 3103	German Literature in English Translation	3
GET 3522	Fantastic Films of Early German Cinema	4
GET 3524	German Popular Film	4
GET 4523	New German Cinema to Present	4
GEY 4327	Understanding Policies and Practices of Long Term Care	3
GEY 4328	Health Care Operations	3
GEY 4635	Business Management in an Aging Society	3
GEY 4647	Ethical and Legal Issues of Aging	3
GLY 4045	Moons, Planets, and Meteors: An Introduction to Planetary Science	3
GLY 4053	Theories and Arguments about the Earth	3
GLY 4734	Beaches and Coastal Environments	3
HIS 3308	War and Society	3
HIS 3938	Major Issues in History	3
HIS 4936	Pro-Seminar in History -6A	4
HUM 4938	Major Issues in the Humanities	3
IDS 3115	Values and Choices -6A	3
IDS 3186	Scientific and Ethical Dimensions of Human Disease	3
IDS 3663	Critical Issues Affecting the Arts -6A	3
INR 3018	World Ideologies	3
INR 3033	International Political Cultures	3
INR 3202	International Human Rights	3
INR 4083	Conflict In The World	3

INR 4254	Africa in World Affairs	3	REL 4215	Ancient Israel and the Development of the Hebrew Bible -6A	3
INR 4936	Senior Seminar	3	REL 4217	Who Wrote the Bible (Genesis-Kings) -6A	4
ISS 4935	Seminar in the Social Sciences	3	REL 4218	Women and the Bible -6A	3
ITT 3504	Italian Cultural Studies	3	REL 4626	Reason in Religion: Talmudic Logic	3
LAE 4469	Teaching World Literature to Middle and Secondary Students	3	REL 4670	Judaism and Christianity After the Holocaust -6A	4
LIT 3103	Great Literature of the World -6A	3	RUS 3500	Russian Civilization -6A	3
LIT 3155	Modern Literature -6A	3	RUT 3110	Russian Classics in English -6A	3
LIT 3301	Cultural Studies and the Popular Arts -6A	3	RUT 3111	Twentieth-Century Russian Literature in English -6A	3
LIT 3374	The Bible As Literature	3	SCE 4863	Science, Technology, Society Interaction -6A	4
LIT 3383	The Image of Women in Literature -6A	3	SPA 4050	Introduction to the Clinical Process	3
LIT 3451	Literature and the Occult -6A	3	SPC 4201	Oral Tradition	3
LIT 4386	British and American Literature by Women -6A	3	SPC 4632	Rhetoric and Social Change -6A	3
LIT 4463	Film and Culture -6A	3	SPC 4714	Communication, Culture and Community	3
LIT 4804	Literature as Cultural Study	3	SSE 4380	Global And Multicultural Perspectives in Education	3
MHF 4403	The Early History of Mathematics	3	SYA 4935	Senior Seminar	3
MHF 4406	The History of Modern Mathematics	3	SYO 4430	Disability and Society	3
MHS 4052	Human Relations Skills in Counseling	4	SYP 4420	Consumer Culture -6A	3
MUH 3301	Music History/Baroque And Classic	3	THE 3110	Theatre History I	3
MUH 3302	Music History/Romantic And 20th Century	3	THE 3111	Theatre History II	3
MUH 4058	Intercultural Music In The Twentieth Century	3	THE 4174	New British Theatre and Drama -6A	3
NGR 6080	Family and Population-Based Health Promotion	3	THE 4180	Theatre Origins -6A	3
NGR 6121	Theoretical Foundations and Professional Role Development -6A	3	THE 4320	Theatre of Myth and Ritual/Northern European (950-1600) & Oriental (400-1200) -6A	3
NGR 6135	Ethical, Legal, and Policy Issues in Advanced Nursing Practice -6A	3	THE 4330	Shakespeare for The Theatre -6A	3
NUR 3826	Ethical Legal Aspects in Nursing and Health Care	3	THE 4401	American Drama -6A	3
NUR 4097	Introduction to Nursing Humanities	3	THE 4434	Caribbean Theatre -6A	3
NUR 4178	Complimentary and Alternative Therapies	3	THE 4435	Theatre of Pluralism -6A	3
NUR 4194	An Interdisciplinary Perspective in HIV Disease -6A	3	THE 4562	Contemporary Performance Theory -6A	3
NUR 4636	Community/Public Health: Population-Focused Nursing	3	WST 3225	Women, Environment and Gender	3
NUR 4655	Cultural Diversity in Health and Issues	3	WST 4310	History of Feminism in the U.S. -6A	3
PAD 4144	Nonprofit Organizations and Public Policy -6A	3	WST 4350	Women and Science	3
PET 3252	Issues in Sport	3	WST 4522	Classics in Feminist Theory	3
PHH 4600	Contemporary Philosophy -6A	3	ZOO 4512	Sociobiology	3
PHH 4700	American Philosophy -6A	3	<b>LITERATURE AND WRITING</b>		
PHI 4073	African Philosophy	3	AFS 3153	African Literature Survey -6A	3
PHI 4300	Theory of Knowledge -6A	3	AML 3604	African American Literature -6A	3
PHI 4320	Philosophy of Mind -6A	3	AML 4303	Zora Neale Hurston: Major Works -6A	3
PHI 4632	Feminist Ethics	3	AML 4624	Black Women Writers -6A	3
PHI 4800	Aesthetics -6A	3	CLA 3501	Women in Antiquity -6A	3
PHM 4120	Major Black Thinkers	3	DAN 4134	Dance History Though the 19th Century -6A	3
PHM 4331	Modern Political Philosophy -6A	3	EEC 4008	Literature in Early Childhood Education -6A	3
PHM 4340	Contemporary Political Philosophy -6A	3	EEX 4742	Narrative Perspectives on Exceptionality: Cultural and Ethical Issues -6A	3
PHP 4000	Plato -6A	3	FRT 3140	French Literary Masterpieces in English Translation -6A	3
PHP 4010	Aristotle -6A	3	IDS 3668	Images of Contemporary Urban Culture -6A	3
PHP 4740	The Rationalists -6A	3	LAE 4414	Teaching Literature in the Elementary School, Grades K-6 -6A	3
PHP 4745	The Empiricists -6A	3	LAE 4416	Teaching Literature and Writing in the Elementary Grades -6A	3
PHP 4788	Philosophy of Marxism -6A	3	LAE 4464	Adolescent Literature for Middle and Secondary Students -6A	3
PHY 4031	Great Themes in Physics -6A	3	LIT 3103	Great Literature of the World -6A	3
POS 4694	Women and Law II -6A	3	LIT 3155	Modern Literature -6A	3
POT 4661	The Politics of Identity, Difference and Inequality	3	LIT 3301	Cultural Studies and the Popular Arts -6A	3
PUP 4323	Women and Politics -6A	3	LIT 3383	The Image of Women in Literature -6A	3
REL 3114	Comedy, Tragedy, and Religion -6A	3	LIT 3451	Literature and the Occult -6A	3
REL 3146	Womanist Vision in Religion	3	LIT 4386	British and American Literature by Women -6A	3
REL 3191	Life After Death	4	LIT 4463	Film and Culture -6A	3
REL 3280	Biblical Archaeology	3	NGR 6121	Theoretical Foundations and Professional Role Development -6A	3
REL 3303	Comparative Religion: Judaism and Islam	4	NUR 4194	An Interdisciplinary Perspective in HIV Disease -6A	3
REL 3375	Issues in Caribbean Religions	3	NUR 4286	Geriatric Nursing: Population-based Perspectives on Nursing Care of Older Adults -6A	3
REL 3465	Religion and the Meaning of Life -6A	3			
REL 3561	Roman Catholicism -6A	3			
REL 3602	Classics of Judaism -6A	3			
REL 3613	Modern Judaism -6A	3			
REL 4113	The Hero and Religion -6A	3			
REL 4133	Mormonism in America	3			
REL 4171	Contemporary Christian Ethics -6A	4			
REL 4177	Comparative Religious Ethics -6A	4			

# 54 ACADEMIC POLICIES AND PROCEDURES

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

PET 4933	Seminar in Sports Medicine -6A	3
POT 4109	Politics and Literature -6A	3
REL 3613	Modern Judaism -6A	3
REL 4177	Comparative Religious Ethics -6A	4
REL 4215	Ancient Israel and the Development of the Hebrew Bible -6A	3
REL 4217	Who Wrote the Bible (Genesis-Kings) -6A	4
REL 4218	Women and the Bible -6A	3
REL 4670	Judaism and Christianity After the Holocaust -6A	4
RUT 3110	Russian Classics in English -6A	3
RUT 3111	Twentieth-Century Russian Literature in English -6A	3
SYA 3310	Qualitative Inquiry -6A	4
SYG 3235	Latina Lives -6A	3
SYP 4420	Consumer Culture -6A	3
THE 4174	New British Theatre and Drama -6A	3
THE 4180	Theatre Origins -6A	3
THE 4320	Theatre of Myth and Ritual/Northern European (950-1600) & Oriental (400-1200) -6A	3
THE 4330	Shakespeare for The Theatre -6A	3
THE 4360	The 19th Century Theatre Revolution -6A	3
THE 4401	American Drama -6A	3
THE 4434	Caribbean Theatre -6A	3
THE 4435	Theatre of Pluralism -6A	3
THE 4442	Comedy of The Classic And Neo-Classic Stage -6A	3
THE 4562	Contemporary Performance Theory -6A	3
WST 4262	Literature by Women of Color in the Diaspora -6A	3

## “Outside the Disciplinary Cluster” Liberal Arts Exit Courses

“Outside the disciplinary cluster” in Liberal Arts Exit courses is defined as outside a cluster of departments or programs. Students with majors from one cluster, must take at least one certified Liberal Arts Exit course from any of the other clusters identified below.

**Disciplinary Cluster 1: Arts & Letters** - Students with majors in these programs must take at least one certified Liberal Arts Exit course in Clusters 2-8.

American Studies	Humanities
Classics & Classical Languages	Italian
Communication	Liberal Studies
English	Mass Communications
French	Philosophy
German	Religious Studies
	Russian
	Spanish

**Disciplinary Cluster 2: Natural Sciences** - Students with majors in these programs must take at least one certified Liberal Arts Exit courses in Clusters 1 or 3-8.

Biology	Interdisciplinary Natural Sciences
Chemistry	Mathematics
Environmental Science and Policy	Medical Technology
Geology	Microbiology
	Physics

**Disciplinary Cluster 3: Social Sciences** - Students with majors in these programs must take at least one certified Liberal Arts Exit course in Clusters 1 or 2 or 4-8.

Africana Studies	History
Anthropology	Interdisciplinary Social Sciences
Communication Sciences and Disorders	International Studies
Criminology	Political Science
Economics (Social Sciences)	Psychology
Geography	Social Work
Gerontology	Sociology
	Women's Studies

**Disciplinary Cluster 4: Business** - Students with majors in these programs must take at least one certified Liberal Arts Exit course in Clusters 1-3 or 5-8.

Accounting	Management Information Systems
Economics (Business)	Management
Finance	Marketing
General Business Administration	

**Disciplinary Cluster 5: Engineering**

Chemical & Biomedical Engineering	Industrial & Management Engineering
Civil Engineering	Engineering
Computer Engineering	Information Systems (Engineering)
Computer Science	Mechanical Engineering
Electrical Engineering	
Engineering Science	

**Disciplinary Cluster 6: Fine Arts** - Students with majors in these programs must take at least one certified Liberal Arts Exit course in Clusters 1-5 or 7-8.

Art	Music
Art History	Theatre
Dance	

**Disciplinary Cluster 7: Education**

Early Childhood Education	Physical Education
Elementary Education	Science Education
English Education	Social Studies Education
Foreign Languages Education	Varying Exceptionalities Education
Mathematics Education	

**Disciplinary Cluster 8: Nursing**

## Freshman English Requirement

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

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

These policies do not apply to first-time-enrolled students who can meet the Freshman English requirement with credit transferred from another institution or those with appropriate AP or IB English credit.

## Credit by Examination

A student who feels he/she has already acquired the basic content of a course on his/her approved schedule should inquire about credit-by-examination. Some exams are offered through the College Level Examination Program (CLEP) and others may be offered within departments. Interested students should obtain additional information from their advisors or Testing Services.

## Graduation Requirements

### Baccalaureate Degree University Requirements

University minimum requirements for graduation consist of the following: earn a minimum of 120 semester hours with an overall 2.00 GPA, including a 2.00 GPA in all courses attempted at USF; a transfer student must have a GPA of 2.0 or higher when combined with all work attempted at other institutions; satisfactorily complete CLAST and the writing and computation course requirements of 6A-10.030; earn a minimum of 48 semester hours of upper-level work (courses numbered 3000 and above); complete Liberal Arts requirements; complete residency requirement; complete program requirements as determined by the college; and be recommended for graduation by the dean of the appropriate college. The requirements must be met by every student upon whom a degree is conferred. The total number of semester hours needed to complete the baccalaureate degree depends upon the academic major field of study. No grades may be changed following graduation.

In recognition that students seeking a second Bachelor's degree have completed a rigorous program of study at a regionally accredited or comparable international institution, some graduation requirements are considered met by virtue of their previous degree. These include: CLAST, Gordon Rule, Summer Enrollment, the Foreign Language Entrance Requirement, General Education and the Exit Requirements. Each degree program will determine degree applicability of transfer courses for the major.

All students entering USF with fewer than 60 semester hours of credit are required to earn at least 9 semester hours of credit prior to graduation by attendance during one or more summer semesters. The University may waive the application of this rule in cases of unusual hardship to the individual. (See Summer Enrollment Requirement below.)

### Summer Enrollment Requirement

Effective September 1, 1976, all students entering USF with fewer than 60 semester hours of credit are required to earn at least 9 semester hours of credit prior to graduation by attendance during one or more summer semesters. The University may waive the application of this rule in cases of unusual hardship. A student who wishes to have the rule waived must complete a "Request for Waiver of Mandatory Summer Enrollment Form" available in the Office of the Registrar. After submission of the form to the Office of the Registrar, the student will be notified by mail of the action taken.

Students are exempt from the summer requirement provided they have earned 9 or more credits from one of the acceleration mechanisms listed below prior to matriculation at an SUS institution. There is no provision for partial credit that would allow students to complete in summer enrollment only the difference in credits between the required 9 semester hours and the number of credits less than 9 that they completed prior to matriculation. (Approved acceleration mechanisms include: Advanced Placement, International Baccalaureate, Dual Credit, Early Admission, Advanced International Certificate of Education, and credit from the Florida Virtual School.

The requirement may be fulfilled only by attending one of the universities in the State University System: University of South Florida, Florida Agricultural and Mechanical University, Florida Atlantic University, Florida Gulf Coast University, Florida International University, Florida State University, New College of Florida, University of Central Florida, University of Florida, University of North Florida and University of West Florida.

### Foreign Language Graduation Requirement for B.A. Students

In addition to the foreign language entrance requirement all students applying for a Bachelor of Arts degree from USF must

demonstrate competency in a foreign language. To demonstrate this competency, students may take either two semesters of a beginning college-level foreign language or one semester of a higher-level course and earn a letter grade of "C" (no "S" grades) or above in the appropriate level course or demonstrate equivalent competency by passing an examination. Languages should be selected from among the ones listed below:

#### Classical Languages

Greek (Ancient)	Hebrew (Classical)
Greek (New Testament)	Latin

#### Modern Languages

Arabic	Hebrew (Modern)	Portuguese
Chinese	Italian	Russian
French	Japanese	Spanish
German	Polish	Yoruba
Greek (Modern)		

#### American Sign Language

Approval needed by the student's program/department major. The following programs accept Sign Language Competency for the exit requirement: Africana Studies, American Studies, Anthropology, Chemistry, Communication, Communication Sciences and Disorders, Criminology, Economics, Gerontology, History, Interdisciplinary Social Sciences, Mass Communications, Political Science, Psychology, Religious Studies, Sociology, Theatre, Women's Studies, and all programs in the College of Education.

Students electing to take the examination in French, German, Italian, Portuguese, Russian, or Spanish should apply to the Director of the Department of World Languages. Students taking the examination in Ancient or Modern Greek or in Latin should also apply to the Director of the Department of World Languages. Students taking the examination in New Testament Greek or in Hebrew should apply to the Chairperson of Religious Studies. Students utilizing American Sign Language should apply to the Chairperson of Communication Sciences and Disorders.

### Foreign Language Placement

Students with two or more years of study in a foreign language in high school, or with postsecondary course(s) in foreign language, or with experiential learning of a foreign language may not enroll for credit in courses in that language without first taking a placement examination administered by the Department of World Languages. Should the placement examination indicate that remedial work is required (1120-1121), the student will be allowed to enroll with the understanding that the grade eventually earned will be either an "S" or "U."

Under no circumstances will a student who places above the first year level or who passes a higher-level course be allowed to register for or receive credit for a lower-level course in that specific language. Students to whom this regulation applies should inquire of the Department of World Languages for the placement examination.

### Academic Residence

Any credits transferred from a University of South Florida accredited institution must be processed as transfer credits from any regionally accredited institution.

Candidates for graduation must have completed at least 30 hours of the last 60 hours of their undergraduate credits in courses offered by the institution from which they receive a degree. Individual colleges and programs may have more stringent requirements, approved by the university, such as the number of specific courses in the major that must be completed at the institution from which a student may receive a degree.

Exceptions to the above rules may be made for students who are enrolled at other universities in USF approved exchanges, study abroad programs, co-op training programs or correspondence courses from the University of Florida. CLEP credit does not count toward academic residence.

### Academic Major

USF offers curricula leading to the baccalaureate degree in the following fields. The degree is indicated in parentheses after each major code. For clarification, the following terms are defined:

**Specialization:** Those courses required to give the student academic concentration and baccalaureate identification such as Mathematics, Accounting, Psychology, etc.

**Supporting or Related:** These courses may be prerequisites to the specialization courses, or they may support specialized courses by giving preparation or breadth to the area of specialization. These courses are often referred to as college or program core courses.

**Program Electives:** These are usually a broad band of courses offered by the college offering the major to further enrich the student in the general academic field of the major.

### College of Arts and Sciences:

Africana Studies (AFA) (B.A.)  
 American Studies (AMS) (B.A.)  
 Anthropology (ANT) (B.A.)  
 Biology (BIO) (B.S.)  
     Cell & Molecular (CAM) (B.S.)  
     Ecology (ECL) (B.S.)  
     Marine Biology (MRN) (B.S.)  
     Physiology (PGY) (B.S.)  
 Biomedical Sciences (BMS) (B.S.)  
 Chemistry (CHM) (B.A.)  
     Biochemistry/Biotechnology (CBY) (B.A.)  
     Environmental Chemistry (CHV) (B.A.)  
     Health Professions (CHH) (B.A.)  
 Chemistry (CHS) (B.S.)  
     Environmental Chemistry (CHV) (B.S.)  
 Classics - Latin/Greek (CLS) (B.A.)  
 Communication (SPE) (B.A.)  
     Interpersonal & Organizational (SIO) (B.A.)  
     Performance (SPM) (B.A.)  
     Public & Cultural (SPL) (B.A.)  
 Communication Sciences and Disorders (CSD) (B.A.)  
 Deaf Studies (DST) (B.A.)  
 Interpreter Training (ITT) (B.A.)  
 Speech/Language/Hearing (LSH) (B.A.)  
 Criminology (CCJ) (B.A.)  
 Economics (ECO) (B.A.)  
 English (ENG) (B.A.)  
     Literature (LIT) (B.A.)  
     Creative Writing (CRW) (B.A.)  
     Professional-Technical Writing (CWT) (B.A.)  
 Environmental Science and Policy (ESP) (B.S.)  
 French (FRE) (B.A.)  
     International Studies and Business (ISB) (B.A.)  
 Geography (GPY) (B.A.)  
 Geology (GLY) (B.A.)  
 Geology (GLS) (B.S.)  
     Environmental Geology (GLE) (B.S.)  
 German (GER) (B.A.)  
 Gerontology (GEY) (B.A.)  
 Gerontology (GES) (B.S.)  
 History (HTY) (B.A.)  
 Humanities (HUM) (B.A.)  
 Interdisciplinary Classical Civilizations (ICC) (B.A.)  
 Interdisciplinary Natural Sciences (INS) (B.A.)(B.S.)  
     Health Professions (INH)(B.A.)(B.S.)  
 Interdisciplinary Social Sciences (ISS) (B.A.)  
     Urban Studies (ISU) (B.A.)  
 International Studies (INT) (B.A.)  
 Italian (ITA) (B.A.)  
 Liberal Studies (ALA) (B.A.)  
 Mass Communications (COM) (B.A.)  
     Advertising (ADV) (B.A.)  
     Broadcast News (NWS) (B.A.)  
     Broadcast - Program & Production (PGM) (B.A.)

Journalism - Magazine (MAG) (B.A.)  
 Journalism - News Editorial (JOU) (B.A.)  
 Public Relations (PUR) (B.A.)  
 Visual Communications (VIC) (B.A.)  
 Mathematics (MTH) (B.A.)  
 Medical Technology (MET) (B.S.)  
 Microbiology (MIC) (B.S.)  
 Philosophy (PHI) (B.A.)  
 Physics (PHY) (B.A.)  
 Physics (PHS) (B.S.)  
 Political Science (POL) (B.A.)  
 Psychology (PSY) (B.A.)  
     Applied Behavior Analysis (ABA)(B.A.)  
 Religious Studies (REL) (B.A.)  
 Russian (RUS) (B.A.)  
 Social Work (SOK) (B.S.W.)  
 Sociology (SOC) (B.A.)  
 Spanish (SPA) (B.A.)  
     International Studies and Business (ISB) (B.A.)  
 Statistics (STC) (B.A.)  
 Women's Studies (WST) (B.A.)

### College of Business (B.A./B.S. option):

Accounting (ACC)  
 Business Economics (ECN)  
 Finance (FIN)  
 General Business Administration (GBA)  
     Accounting (GAA)  
     Economics (GEC)  
     Finance (GFI)  
     International Business (GIN)  
     Marketing (GMK)  
     Management (GMN)  
     Management Information Systems (GIS)  
 International Business (ITB) (B.A.)  
 Management Information Systems (ISM)  
 Management (MAN)  
 Marketing (MKT)

### College of Education (B.A./B.S. option):

Early Childhood Education (BEC)  
 Elementary Education (BEE)  
 English Education (BEN)  
 Foreign Language Education (FLE)  
     French (BFF) (B.A.)  
     German (BFG) (B.A.)  
     Italian (BFI) (B.A.)  
     Russian (BFR) (B.A.)  
     Spanish (BFS) (B.A.)  
 Mathematics Education (BMA)  
 Physical Education (PET)  
     Exercise Science (BPW)  
 Science Education (SCE)  
     Biology (BSB)  
     Chemistry (BSC)  
     Physics (BSY)  
 Social Science Education (BSS)  
 Exceptional Student Education (BEX) (B.S.)

### College of Engineering:

Chemical & Biomedical Engineering (ECH) (B.S.C.H.)  
 Civil Engineering (ECE) (B.S.C.E.)  
     Environmental (ENV) (B.S.C.E.)  
 Computer Engineering (ECP) (B.S.C.P.)  
 Computer Information Systems (EIF) (B.S.I.S.)  
 Computer Science (BCS) (B.S.C.S.)  
 Electrical Engineering (EEL) (B.S.E.E.)  
 Engineering, General (EGU) (B.S.E.)  
 Industrial Engineering (EIE) (B.S.I.E.)  
 Mechanical Engineering (EME) (B.S.M.E.)

**College of Medicine:**

Athletic Training (BAT)(B.S.)

**College of Nursing (B.S.):**

Nursing (NUR)

Nursing (Registered Nurse) (NRN)

Nursing (Accelerated from bachelor degrees in other fields) (SBN)

**Undergraduate Studies**

Applied Science (APS) (B.S.A.S.)

American Sign Language (ASG) (B.S.A.S.)

Behavioral Healthcare (ABH) (B.S.A.S.)

Business Administration (ABU) (B.S.A.S.)

Criminal Justice (ACJ) (B.S.A.S.)

Early Childhood Development (AEC) (B.S.A.S.)

Environmental Policy (AEP) (B.S.A.S.)

Gerontology (AGR) (B.S.A.S.)

Hospitality Management (AHG) (B.S.A.S.)

Industrial Operations (AIO) (B.S.A.S.)

Information Technology (ATC) (B.S.A.S.)

Public Administration (APU) (B.S.A.S.)

Public Health (APL) (B.S.A.S.)

Urban Studies (AUR) (B.S.A.S.)

Hospitality Management (HMA) (B.S.)

Information Technology (ITC) (B.S.I.T.)

**College of Visual and Performing Arts:**

Art (ART) (B.A.)

Art History (AHI) (B.A.)

Art Studio (ARS) (B.A.)

Art (ARB) (B.F.A.)

Art Studio (ARS) (B.F.A.)

Graphic Design (AGD) (B.F.A.)

Art History (AHM) (B.A.)

Dance (DAN) (B.A./B.F.A.)

Ballet (DAB) (B.F.A.)

Modern (DAM) (B.F.A.)

Dance Studies (DAS) (B.A.)

Music (MUS) (B.M.)

Composition (MUC) (B.M.)

Electronic Music (EMU) (B.M.)

Jazz Composition (MJC) (B.M.)

Jazz Performance (MJP) (B.M.)

Performance (MPF) (B.M.)

Piano Pedagogy (MPP) (B.M.)

Music Education (MUE) (B.S.)

Music Studies (MSU) (B.A.)

Studio Art (SBF) (B.F.A.)

Studio Art (SBA) (B.A.)

Theatre (TAR/TFA) (B.A./B.F.A.)

Arts (TAA) (B.A.)

Design (TAD) (B.A.)

Design (TFD) (B.F.A.)

Performance (TAP) (B.A.)

**The Honors College:**

Individualized Interdisciplinary Honors Research/Comparative Studies (Limited Access Second Major) (HON) (B.A.)

**Academic Minor**

In addition to major programs, many departments offer an academic minor that requires approximately one-half the upper-level credits required for a major. Students interested in a particular minor should obtain the specific requirements from the appropriate department. The department may require the same admission or retention standards as required for the major.

Each academic minor conforms to the University requirements:

1. A minimum of 8 semester hours of credit used to satisfy the requirements of a minor must be from USF courses.
2. A student may not have a major and a minor in the same program. Department courses used in the major may not apply to the minor.
3. USF coursework for a minor must have a GPA of at least 2.0.
4. Only an undergraduate degree-seeking student at USF is eligible for a minor.
5. A minor can be applied for and received only in conjunction with applying for and receiving a baccalaureate degree except for students who have already received a baccalaureate degree from USF who may earn certification of a minor by taking additional undergraduate coursework at the University and applying for the certification.

USF offers curricula leading to an academic minor in the following fields:

**Arts and Sciences:**

African Studies

Africana Studies

African-American Studies

American Sign Language

American Studies

Anthropology

Biomedical Physics

Chemistry

Classics

Communication

Criminology

Economics

English: Creative Writing

English: English and American Literature

English: Professional-Technical Writing

Environmental Policy

French

Geography

Geology

German

Gerontology

Greek

History

Humanities

Interdisciplinary Classical Civilizations

International Studies

Italian

Latin

Linguistics

Mass Communications

Mathematics

Modern Greek

Philosophy

Physics

Political Science

Psychology

Public Administration

Religious Studies

Russian

Sociology

Spanish

Women's Studies

Women's Studies: Women of Color

**Business:**

Accounting

Business Economics

Finance

General Business Administration

International Business

Management

Management Information Systems

Marketing

## 58 ACADEMIC POLICIES AND PROCEDURES

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

### Education:

Educational Foundations & Research

### Engineering:

Biomedical Engineering

### Louis de la Parte Florida Mental Health Institute

Behavioral Healthcare

### College of Public Health

General Public Health

### Undergraduate Studies:

Aerospace Studies  
Hotel Management  
Information Technology - General  
Information Technology - Technical  
Leadership Studies  
Military Leadership  
Naval Science and Leadership  
Restaurant Management

### Visual and Performing Arts:

Art  
Art History  
Dance  
Electronic Music  
Music  
Theatre

### Student's Choice of Catalog

In order to graduate from USF, each degree-seeking student must meet all of the graduation requirements specified in the USF catalog of his/her choice. A degree-seeking student may choose any USF catalog published during his/her continuous enrollment. Students who have transferred from one Florida public institution to another are affected by the following Department of Education policy:

Graduation requirements in effect at the receiving SUS institution at the time a student enrolls at a Florida public institution of higher learning shall apply to that student in the same manner that graduation requirements apply to its native students provided the student has had continuous enrollment as defined in the SUS institution's catalog.

At USF, "continuous enrollment" is defined as enrolling as a degree seeking student at least one term each twelve month period. Therefore, students cannot choose a USF catalog published prior to or during an academic year in which they did not maintain continuous enrollment. (Each catalog is considered to be published during the academic year printed on the title page.)

If the student cannot meet all of the graduation requirements specified in the catalog of his/her choice due to decisions and changes by the University in policy matter, course offering, etc., appropriate substitutions will be determined by the chairperson of the department or program of the student's major.

USF's policies are subject to change and apply to all students regardless of their choice of catalog. If the student's graduation requirements are affected by changes in University policies, appropriate arrangements will be made to preclude penalization of the student.

### Repeat Course Work

The hours for a course that has been repeated may be counted only once toward the minimum 120 semester hours of credit (earned hours) required for graduation. All credit hours (except when grade forgiveness is applied) are calculated in the GPA. (See Repeat Course Surcharges.)

### Double Undergraduate Major

Students may elect to graduate with two majors. In that event, they must apply independently to each college and be assigned an advisor in each discipline. The student must meet all requirements of each major separately and must be certified for graduation by the appropriate dean(s).

### Second Undergraduate Major

A student who wishes to work for a second major, after receipt of a baccalaureate degree, must apply through the Office of Admissions and meet the major requirements as determined by the college. (Exceptions to this rule are students who had been previously accepted for a "Double Undergraduate Major" but graduated with only one major.) After acceptance by the appropriate college and proof of completion, the student's "permanent academic record" will be posted accordingly.\*

\*Note that those students who complete the requirements for a second major must be aware that they will not receive a second degree.

### Two Degrees (USF Students)

A student at USF may receive two baccalaureate degrees provided he/she meets University graduation requirements for both degrees. In addition to the minimum 120 semester hours that apply toward the first degree and include at least 60 semester hours from a baccalaureate institution, the student must also earn at least a minimum of 30 semester hours in on-campus USF undergraduate courses that will apply toward the second degree. The student must also meet the requirements of the college awarding the degree and the residency requirement.

### Second Baccalaureate Degree (Transfer Students)

A student already graduated from an accredited four-year institution must earn a minimum of an additional 30 semester hours of USF undergraduate courses to apply toward his/her second baccalaureate degree. Students must also meet the University's regular graduation requirements, as well as the requirements of the college awarding the degree and the residency requirements.

### Availability of a Baccalaureate Degree for Students Enrolled in or Graduated from a Five-year Master's Program

A student may enroll in a baccalaureate degree program while enrolled in or after graduation from a five-year master's degree program. In consultation with an advisor in the five-year program and an advisor in the baccalaureate-level program and with the approval of the college dean(s) offering the program(s), the student is required to complete the following:

- Satisfy degree requirements for the five-year master's program.
- Satisfy requirements for the baccalaureate-level program.

### Application for Graduation

In order to graduate, a student must submit an application for the bachelor's degree or Associate in Arts certificate to the Office of the Registrar. *This application must be submitted in the term of expected graduation by the deadline noted in the academic calendar* for the student to be assured of availability of academic regalia for participation in the graduation ceremony, certification of graduation by the end of the term, inclusion of name in the graduation Bulletin, and timely ordering of the diploma. Students who submit the application for graduation after the posted deadline but prior to the last day of classes for the academic term and who are determined to have met all graduation requirements in that semester may have their graduation posted that term. Students who submit an application after the graduation application deadline, and wish to graduate in that term, will be assessed a \$50.00 late fee.

Students must note that when applying late, their application may not be processed before the next term's registration period if they have not met all degree requirements. Applications received after the last day of classes will result in the graduation being posted at the end of the following academic term. If a student applies for graduation and is not approved, a new application for degree must be submitted by the deadline in a new term. In order for the degree statement to appear on a student's academic record, the student must file the aforementioned application whether or not participation in the commencement ceremony is desired.

The application for the bachelor's degree is available from the student's college advising office. The application for an Associate in Arts degree is available from the Transitional Advising Center in Academic Support and Achievement.

The application must first be certified (signed or stamped in the section, "Office Use Only") by the student's college (Transitional Advising Center for the A.A. certificate). The college retains one copy, and the student must submit the remaining copies to the Office of the Registrar prior to the graduation application deadline. Inquiries concerning approval or denial of graduation should be made to the appropriate college or to the Transitional Advising Center in Academic Support and Achievement.

It is the student's responsibility to clear all "I" grades (incompletes) in courses required for graduation and to provide official transcripts of all transferred course work needed for graduation at least 3 weeks prior to the end of the term in which he/she expects to graduate.

A student applying for a second undergraduate major must do so within the same deadline set for applying for a degree.

A student applying for a minor must:

1. File a separate request for certification for the minor in the department of the minor during the semester of graduation;
2. Apply for the minor on the "Application for Degree," listing both the minor and college responsible for the minor on the application; and
3. Have no "I" grade in required courses.

For purposes of honors recognition at the ceremony, students must have a 3.50 GPA before the term in which they plan to graduate to have honors recognized publicly at the commencement ceremony.

**Note:** Some colleges ask students to file applications as early as the semester before anticipated graduation to help ensure that they will meet all graduation requirements in the semester in which they intend to graduate. Although applications will be accepted until the last day of classes for the semester of graduation, students applying late will jeopardize their chances of having met all requirements and may delay their graduation as a result.

### Posthumous Degrees or Degrees in Memoriam

The University may award a posthumous baccalaureate, master's or doctoral (and medical) degree to a student who was in good standing at the University at the time of his or her death and who had completed all substantive requirements for the degree. The University may also award baccalaureate, master's, doctoral and medical degrees in memoriam to a student who was in good standing at the University at the time of his or her death.

To award a non-thesis degree, the student would need to have completed all courses required for the degree. Courses required for the degree, in which the student is enrolled at the time of his or her death, must have been completed to the satisfaction of the faculty so that passing grades might be posted. All other requirements (e.g., grade point average, CLAST and other tests) must have been satisfied as well.

To award a thesis degree, all courses must be completed as described above and the thesis must be sufficiently complete to the satisfaction of the faculty so that certification of completion may be posted to the student's record.

### Procedures for Award of Posthumous Degrees or Degrees in Memoriam

The chairperson of a department, on his or her own initiative or upon the request of the family of the student, may recommend a posthumous degree, or a degree in memoriam, by forwarding the recommendation to the respective dean of the college. If approved by the Dean, the recommendation with supporting documentation will be forwarded to the Provost for approval. If the Provost approves the recommendation, the Office of the Registrar will be notified and the degree will be awarded at the next commencement ceremony or will be presented to the student's family in an appropriate setting.

Diplomas for posthumous degrees will be identical to other degrees awarded in the same colleges and majors. Diplomas for Degrees in Memoriam will be prepared to read "Bachelor of Arts in Memoriam, Bachelor of Science in Memoriam," Master of Arts in Memoriam," etc., depending upon the degree the student was pursuing at the time of his or her death. Undergraduate students who have not chosen a major at the time of death will be awarded the "Bachelor of Arts in Memoriam."

### Honors at Graduation

To be considered for honors at graduation, a baccalaureate candidate must have completed at least 40 credits of graded upper level work at USF and have earned a grade point average of 3.50 or higher for all graded coursework attempted at USF. For those students in programs requiring multiple clinical experiences (such as Nursing and Education), a baccalaureate candidate must have completed at least 30 hours of graded upper level coursework and have earned a grade point average of 3.5 or higher for all graded coursework attempted at USF. In addition, to be eligible for honors, transfer students and USF students who have postsecondary work elsewhere must have an overall GPA of 3.50 or higher counting all USF courses as well as all transferable work attempted at other institutions. The forgiveness policy at USF or other institutions and plus/minus grades awarded at other institutions will not be applicable in computing the GPA for honors. In addition, students with a record of academic dishonesty appearing on any transcripts will not be eligible for honors at graduation.

Candidates with a USF GPA of 3.50 or higher and an overall GPA of 3.50 but below 3.70 shall receive a diploma designation of *cum laude* (with honor).

Candidates with a USF GPA of 3.50 or higher and an overall GPA of 3.70 but below 3.90 shall receive a diploma designation of *magna cum laude* (with high honor).

Candidates with a USF GPA of 3.50 or higher and an overall GPA of 3.90 or above shall receive a diploma designation of *summa cum laude* (with highest honor).

In addition, each dean has the option to select on the basis of exceptional achievement 1% of the college's graduates or 1 student per semester for graduating *with distinction*.

For purposes of honors recognition at the commencement ceremony, students must have a 3.50 GPA before the term in which they plan to graduate to have honors recognized publicly at the commencement ceremony.

**NOTE:** The GPA is not rounded up when determining honors at graduation (e.g., 3.69 is not the same as 3.70).

### Commencement

Commencement ceremonies are held at the end of each academic semester. Ceremonies are held three times a year in Tampa (Spring, Summer and Fall) with multiple ceremonies hosted in a day. Ceremonies are held twice a year at the regional campuses (Spring and Fall).

Students register to participate in a Commencement ceremony through the Commencement website, [www.usf.edu/commencement](http://www.usf.edu/commencement). Registration for that term's ceremony is open on the first day of classes for that term. Deadline for ceremony registration varies by campus. Registration is open to all students, however, doctoral candidates cannot participate in

Commencement exercises until all requirements for such degrees have been fulfilled.

To apply to graduate (submit your application to graduate to receive your diploma), contact the Office of the Registrar. Students do not receive their diploma at the ceremony. Information regarding the ceremony will be mailed to students who apply to graduate by the end of the fourth week of the term. The list of student names published in the Commencement program is also taken from the list of students who applied to graduate by the end of the fourth week of the term. Students who have elected total privacy on their records will not have their names published in the Commencement program.

Commencement is a most dignified ceremony fitting for the accomplishment you have achieved. Academic regalia is required. Other than the cost of regalia, there is no fee to participate in a Commencement ceremony for graduates and their families and guests.

Additional information about Commencement can be found at [www.usf.edu/commencement](http://www.usf.edu/commencement) or by calling (813) 974-1816.

### **Certification Requirements Associate in Arts**

Upon the student's successful completion of the minimum requirements for the Associate in Arts Certificate, the University will present the student who has properly made application with an appropriate certificate.

1. To receive the Associate in Arts, the student must complete 60 semester hours of university credit; at least 20 of the last 30 semester hours counted toward the Certificate must be completed in residence at USF; the minimum grade point average must be 2.00 based on work attempted at the USF; in addition, a transfer student must have a GPA of 2.00 or higher when combined with transfer work accepted and evaluated by the USF Office of Admissions; and the General Education Requirements of USF must be satisfied. Physical Education and military science credits do not count within the 60 semester hours toward the Associate in Arts. In addition the student must present a score (passing score after August, 1994) on the College-Level Academic Skills Test and fulfill the writing and computation course requirements of 6A-10.030 prior to receiving the Associate in Arts Certificate.
2. Application Procedure for the Associate in Arts Certificate. The Application for an Associate in Arts Certificate can be obtained from the Transitional Advising Center prior to the application deadline. The deadline to apply for a degree/certificate in each semester is stated in the Academic Calendar in the catalog.
3. The Associate in Arts certificate must be awarded prior to the term that the student becomes eligible for the baccalaureate degree.
4. Final processing for the Associate in Arts will be done after grades are processed at the end of the semester for which the student applied. All work, including transfer work, taken in that semester will be evaluated with respect to the requirements for the Associate in Arts Certificate.
5. Any incomplete grades shown on the permanent record of an Associate in Arts applicant at the time grades are processed will be treated as an F in the calculation of grade point average.
6. The General Education Requirements will be based on the approved University policy in effect in the catalog year the student chooses according to the University policy regarding the choice of catalog. The consideration of whether or not General Education Requirements are met will be made without consideration of the student's choice of major at the time he/she applies.
7. Residence credit will be broadly defined to include USF sponsored student exchange programs and the University of Florida Correspondence Division. Where the grades from these institutions, except those earned through the University of Florida Correspondence Division, are recorded on the permanent record at USF, and included in the grade point average calculation, they will also be counted in the student's grade point average as work attempted at USF for the Associate in Arts Certificate.
8. An applicant who has not been enrolled at USF for three semesters may be contacted to ascertain whether or not that applicant meets the residency requirements.
9. In approving any application for the Associate in Arts Certificate, satisfactory/unsatisfactory grades will be accepted according to the approved University policy in effect during the terms of the student's enrollment without regard for the student's declared major. Students must be aware that if they have taken any courses on a satisfactory/unsatisfactory basis where such grades are not acceptable by the college of the major, the students may be required to repeat particular courses for a traditional letter grade or take additional courses for a traditional letter grade to meet the college requirements.
10. All USF colleges with undergraduate programs will accept the Associate in Arts from USF. That is, the student will be placed at least, at the junior level and will be considered to have met the University's General Education Requirements. The applicability of the courses taken by the student toward his/her major program will be determined by the college of the student's major. Similarly, any special requirements for a student's professional certification (e.g., Education and Engineering) are not necessarily met by the Associate in Arts certificate, but could be included as part of the General Education Requirements. Thus, students should check with their colleges concerning meeting any special requirements in an efficient manner.
11. The awarding of the Associate in Arts is posted on the permanent record but does not alter the calculation of the grade point average nor does it interrupt the accumulation of the student's record.
12. Students who follow a baccalaureate degree program as recommended by a college will not necessarily be eligible for the Associate in Arts certificate prior to the completion of 90 semester hours.

# ACADEMIC PROGRAMS AND SERVICES

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

## USF/FLORIDA PUBLIC COMMUNITY COLLEGE CROSSENROLLMENT

Some undergraduate students may find it advantageous to cross enroll at a Florida public community college while attending USF. *To prevent problems with financial aid and other registration issues, see a USF college advisor for detailed instructions and course approval.* Procedures to permit this type of registration are available during specified times printed in the University **Schedule of Classes**. Credit hours for the course(s) taken at the host institution will apply toward graduation only if prior approval was received from the student's USF advisor. The grade point average will not transfer to USF.

## TRANSIENT STUDENTS

USF degree-seeking students who wish to enroll at another regionally accredited institution **MUST HAVE PRIOR WRITTEN APPROVAL** from their college academic advisor to receive credit for courses taken. The transient student/cross enrollment form should be used for this purpose. *First term, first time in college freshmen are not eligible for USF awarded financial aid if granted transient student status.*

## USF Testing Services

**Location/Phone:** SVC 2060; (813) 974-2742

**Office Hours:** 8 a.m. – 5 p.m., Monday through Friday

**Web Address:** <http://www.outreach.usf.edu/conted/testing/>

The Office of Testing Services serves three principal functions:

1. Admissions, Academic and Placement Testing: Tests required for admission to colleges, graduate and professional schools as well as many other special tests are administered by this office. Examples are the ACT, SAT, CPT, GRE, LSAT, FTCE, FELE, PRAXIS and TOEFL.
2. Credit-By-Examination: The College-Level Examination Program (CLEP) is administered through this office.
3. College Level Academic Skills Test (CLAST): This office administers the Florida Department of Education CLAST. Students should review their coursework plans with an academic advisor to evaluate options for exempting parts of the CLAST Exam. Also see CLAST detail information on page .

## COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

USF allows students to receive up to 45 semester hours of credit towards the baccalaureate degree upon successful completion of General and Subject College Level Examination Program (CLEP), IB, and DANTES examinations. Performance levels necessary to achieve credit have been established at a common level for all universities and community colleges in the State system. Credit earned through one examination program may not be duplicated by another examination or course. The following limitations should be recognized:

1. CLEP credit will not satisfy USF's residency requirement;
2. Credit for the General Natural Science examination will be granted for non-majors only.

Certain General and Subject CLEP Examinations noted in the table found at <http://www.outreach.usf.edu/conted/testing/> may apply to the General Education Liberal Arts Requirements. Some programs do not award credit toward the degree for certain CLEP examinations, and certain graduate or professional schools such as law, medicine and engineering may not grant equal recognition to students with extensive examination credits. An academic advisor should be consulted to ascertain the applicability of a specific CLEP examination toward a student's degree requirements and the advisability of taking the examinations in a student's specific situation.

Descriptions of the examination content and other information are available from Educational Testing Service in Princeton, New Jersey or in USF Testing Services (SVC 2060).

The CLEP General and Subject Examinations are administered on the Tampa Campus. Testing schedules are available in USF Testing Services (SVC 2060). Prior registration is required.

For information regarding CLEP examinations, please go to the USF Testing Services web site <http://www.outreach.usf.edu/conted/testing/>.

## ADVANCED PLACEMENT CREDIT PROGRAM

The University participates in the Advanced Placement Program conducted by the College Entrance Examination Board. The Advanced Placement Test is based on specific college level courses that are offered in a number of high schools. Interested students should contact their high school counselors or principals for additional information. Please note: not all colleges will interpret AP test results in the same manner.

## COLLEGE REACH-OUT PROGRAM

**Location/Phone:** HMS 218, (813) 974-3713

College Reach-Out is an academic program designed for low-income and educationally disadvantaged middle and high school students who have the academic potential for success in a postsecondary institution and plan to pursue a postsecondary education. The focus of the program is to prepare students to meet higher education requirements established for admission to colleges and universities by providing tutoring and counseling services. Students will be exposed to a variety of personal, social, academic, educational, and career opportunities through participation in year round and summer academic enrichment programs. Admission requirements are listed below:

1. Family income must meet state guidelines.
2. Students must have completed the 5th grade.
3. Students must have a 2.0 grade average in English, mathematics, history, and science.
4. Students must attend schools in Hillsborough County. Applications should be sent to the College Reach-Out Program, HMS 218, USF.

## UPWARD BOUND

**Location/Phone:** SVC 5010, (813) 974-9138

Upward Bound is a pre-college program for students from low-income families who have academic potential but who have inadequate secondary school preparation or have not achieved success in school.

Its purposes are to assist these students in developing goals, improving academic skills, and providing the motivation necessary to achieve success in a college or post-secondary program. To qualify, the applicant must meet the following criteria:

1. Family income must meet federal guidelines.
2. Applicant should be a potential first-generation college student.
3. Student must have completed the 9th grade and be enrolled in the 10th or 11th grade in an accredited high school.
4. GPA must be 2.3 ("C") or above in basic pre-college courses.
5. Attend weekly scheduled tutorial sessions.
6. Attend the six-week summer residential component on the USF Tampa Campus.

Applications should be forwarded to Director, Project Upward Bound, USF, SVC 5010.

## Center for Africa and the Diaspora

**Location/Phone:** FAO 274, (813) 974-4727

**Email:** [vduke@ibl.usf.edu](mailto:vduke@ibl.usf.edu)

**Web Site:** <http://www.usf.edu/ibl>

The Center for Africa and the Diaspora is a joint venture between the Institute on Black Life and International Affairs. The Center works with IBL and International Affairs to provide leadership and advocacy for research, program development and community service initiatives that examine and illuminate the contributions of Africans and other peoples of African

## 62 ACADEMIC PROGRAMS AND SERVICES

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

descent, as well as problems and issues that affect their lives. Through educational and cultural exchanges, symposia, and other programs, USF students, faculty, and scholars and the local community are linked in tangible and productive ways to the world African community on issues of global relevance. The Center fosters interdisciplinary partnerships and collaborative arrangements with a wide range of institutions and organizations in Africa and the African Diaspora in Tampa Bay and around the world.

### The English Language Institute

*Location/Phone:* CPR 443, (813) 974-3433

*E-mail:* [elimain@cas.usf.edu](mailto:elimain@cas.usf.edu)

*Website:* <http://www.eli.usf.edu/>

The English Language Institute (ELI) is the research and teaching laboratory of the Department of World Languages. The ELI offers an intensive academic English as a Second Language (ESL) program to prepare students to study at a US university. In addition, the ELI conducts a variety of special language programs and pursues an active research and teacher development agenda led by faculty and students associated with the Master's Program in Applied Linguistics and the Ph.D. Program in Second Language Acquisition/Instruction Technology, a joint program of the College of Arts and Sciences and the College of Education.

Students are tested and placed in one of five levels, ranging from beginning to advanced. Students attend non-credit classes 21 hours per week. International students on a USF I-20, F-2 and J-2 visa holders, as well as permanent residents and citizens may enroll part-time in the ELI. The integrated-skills, content-based curriculum includes instruction in listening and speaking, reading and writing, grammar, academic strategies, and test preparation electives (TOEFL, GRE, GMAT, SAT, ACT, SPEAK) for upper-level students.

The English Language Institute is authorized to issue a Certificate of Eligibility (I-20) to students who require a Student Visa (F-1) and who meet criteria set forth by the U.S. Bureau of Citizens and Immigration Services.

### INDEPENDENT STUDY

Undergraduate students wishing to take a course by independent study must contact the instructor of the course for permission. The instructor specifies the requirements to be completed by the student including tests, periodic class attendance, term papers, etc.

Not all courses in the University may be taken by independent study. The respective colleges have jurisdiction in the determination of which courses may be taken in this manner.

The regular grading system applies to all independent study students: Grades earned by independent study have the same status as those acquired through regular class attendance. Students taking a course by independent study must register for the specific course section in the regular manner.

### ENROLLMENT IN EVENING COURSES

Evening courses at USF are part of the regular academic program; they are offered at times convenient to people within commuting distance who wish to continue their education at night while occupied during the day with other responsibilities. Requirements for day and evening courses are the same.

### COMMUNITY EXPERIENTIAL LEARNING PROGRAM

*Location/Phone/Email:* NES 305, (813) 974-8452, [jones@cas.usf.edu](mailto:jones@cas.usf.edu)

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 the CEL Program 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 in NES 305, (813) 974-8452.

### STATE UNIVERSITY SYSTEM CORRESPONDENCE COURSES

The University of Florida's Division of Continuing Education's (DOCE) Department of Correspondence Study administers all correspondence instruction for Florida's State University System (SUS).

Correspondence study at the University of Florida is a consortium of universities within the State University System of Florida that offers high school, undergraduate and graduate courses for credit through interactive, self-directed study.

DOCE provides courses for students who wish to begin college programs early, take courses with conflicting times or closed sections, meet prerequisites, pursue professional development, or personal enrichment. DOCE courses' content and requirements parallel their on-campus counterparts.

Enrollment in all courses is possible at any time of the year; however, prior approval of an advisor is needed if a course is to be used toward a diploma or a degree.

For more information, please contact: Department of Correspondence Study, 2209 NW 13th Street, Suite D, Gainesville, FL 32609; (352) 392-1711, or toll free at (800) 327-4218; or e-mail: [learn@doce.ufl.edu](mailto:learn@doce.ufl.edu). Be sure to check out the home page: <http://www.correspondencestudy.ufl.edu/>.

USF considers independent study by correspondence as resident credit. Grades are not transferable. Exception: grades for courses taken by Cooperative Education students while on a training period are transferred and will be used in computing the USF GPA.

### FLORIDA COLLEGE EXCHANGE PROGRAM

Through an exchange agreement, students of USF, with the approval of their advisors, may elect courses at nearby Florida College. Credit for acceptable work may be transferred to USF and counted as elective credit toward graduation. Students from Florida College have a similar transfer arrangement.

Costs for students under these cross enrollment plans are based on credit hours of work taken, and payment is made to the appropriate institution in accordance with its per-hour fee rate.

Florida College students enjoy full privileges of the statewide articulation agreement and of USF transfer student policies, such as academic renewal and full acceptance of the Associate of Arts degree.

### THE WASHINGTON CENTER INTERNSHIP PROGRAM

*Location/Phone/Email:* NES 305, (813) 974-8452, [jones@cas.usf.edu](mailto:jones@cas.usf.edu)

All USF undergraduates seeking to live and learn in the nation's capital are eligible to apply for the Washington Center Internship Program. Students participate in either the fall, spring or summer semesters and can earn course credit. Study at TWC consists of two major components: (1) working 35 hours per week at your selected internship and, (2) taking one seminar that meets once per week. Opportunities for internships are not limited to government positions, but include a vast array of non-profit and for-profit options.

In conjunction with The Washington Center located in Washington, D.C., students are housed in a conveniently located apartment complex within walking distance to public transportation (the Metro). The Washington Center also provides a student lecture series and a number of special events (e.g., breakfast with members of Congress, cultural events at the Kennedy Center). The costs of the program vary depending

upon date of attendance. Generous scholarships are available.

Information and applications can be obtained at the website: [www.twc.edu](http://www.twc.edu). For details on The Washington Center Internship Program, please contact Robin Jones, Faculty Liaison for TWC Internship Program, 4202 East Fowler Avenue, NES 305, Tampa, FL 33620-8100.

## Academic Services and Support

### EDUCATIONAL OUTREACH

Web site: <http://www.outreach.usf.edu>

**Educational Outreach** extends the University's academic resources to help learners meet their educational and professional goals by developing and supporting credit and non-credit programs.

#### Distance Learning

Educational Outreach assists USF colleges and departments offering courses, certificates, and degree programs in distance learning formats. Distance learning provides access to the university learning experience by removing barriers of time and place. Courses are available in a variety of disciplines and offer alternatives in time, place, format, or delivery systems to extend educational opportunities throughout the region and beyond. A variety of technology options such as the World Wide Web, television, videoconferencing, and other technologies, allow faculty and students to communicate at the same time or on a time-delayed basis at times that fit the student's personal schedule. Distance learning courses are included with regular departmental offerings in OASIS and identified by distance learning icons; contact the department offering the course for more information.

#### Continuing Education

USF Educational Outreach's Continuing Education provides the following noncredit programs and services:

- Professional and Workforce Development (PWD) offers short courses for professional and personal development and computer applications training.
- Cultural, computer and personal enrichment courses for senior adults at the Osher Lifelong Learning Institute at USF (OLLI).
- Meeting, training and computer lab room rentals at the USF Downtown Center.
- Testing Services administers paper and pencil, and computer based tests for Educational Testing Services (GRE, GMAT, TOEFL, etc.), College Level Examination Program (CLEP), Florida Teachers Certification examinations (FTCE and FELE) as well as other professional certification programs.

For more information, please visit the website at <http://www.outreach.usf.edu/conted> or call (813) 974-5201.

#### Metro Initiatives (USF4YOU)

USF4YOU is a new initiative of the University of South Florida that offers a variety of services and seeks to increase access to educational programs for working adults. Through USF4YOU, the public can learn about USF's graduate certificates, professional master's degrees, online/distance education, alternative calendar programs, bachelor's degree completion options and non-credit education opportunities. USF4YOU also provides prospective students referrals to traditional undergraduate and graduate advisors.

Phone Toll Free: 1-888-873-4968  
Phone Local: (813) 974-2827

Fax: (813) 974-7061  
Location: SVC 1072  
E-mail: [USF4YOU@admin.usf.edu](mailto:USF4YOU@admin.usf.edu)  
Web: <http://www.usf4you.org/>

### The USF Library System

Web address: <http://www.lib.usf.edu>

*Tampa Library:* (813) 974-2729 (for hours, call 974-2727)

*Shimberg Health Sciences Library (Tampa Campus):* MDC 1200, (813) 974-2243

*Louis de la Parte Florida Mental Health Institute Library (Tampa Campus):* MHC 1744, (813) 974-4471

*Nelson Poynter Library (St. Petersburg Campus):* (727) 553-4305

*Jane Bancroft Cook Library (New College/Sarasota Campus):* (941) 359-4300

*Polk Community College & USF Lakeland Campus Library:* (863) 297-1042

All six libraries within the USF Library System contain over 2.2 million volumes, 30,000 serial titles, most in electronic format, and 75,000 media materials. The state university libraries together contain over 12,000,000 volumes of information resources. Books and periodicals are cataloged and arranged on open shelves using the Library of Congress Classification System. Books may be checked out with renewal privileges; periodicals may not be checked out.

The USF Library System enhances teaching and learning through the delivery of online library resources and services to the dorm, office, or home as well as on-site at any of the USF Libraries. Special features include the online catalog, an electronic course reserve system, electronic journals, books and databases. Many electronic resources are full-text, and digitized historical materials such as photographs, documents, and oral histories. Beyond content, there is online access to numerous library services such as interlibrary loan, the ability to renew materials, and reference assistance requests via the library website.

The Library catalog, also available online, may be searched by author, title, subject, and keyword to identify the libraries' holdings. The Library website also has links to other catalogs of libraries within the state and worldwide. Workstations located in various USF libraries provide access to the online catalog as well as a vast array of electronic resources.

The USF libraries can obtain materials from each campus, SUS and other libraries upon request. Students, staff and faculty can have access to resources by requesting material using online forms found at the USF Library System homepage at <http://www.lib.usf.edu>.

More information about the USF Library System, including the electronic resources and library services to distance learners, is available at <http://www.lib.usf.edu>.

#### TAMPA LIBRARY

Central to the philosophy of the Tampa Library is the view that the people it serves are equally as important as the books on its shelves. Students are encouraged to become familiar with the collections, to master the techniques of using them, regardless of format, and to achieve a familiarity with information resources that will become lifelong learning skills.

The Tampa Library is a collection of approximately 1.8 million volumes, 10,900 periodicals and 2,797,000 microforms to support a broad range and depth of faculty and student research as well as personal knowledge and cultural advancement.

**Reference Collection:** The Reference Collection is located on the first floor of the Tampa Library in the Information Commons. Reference librarians assist students and faculty with both electronic and print resources, including government documents. Reference assistance is also available online by selecting the Ask-A-Librarian link on the Library website. Reference librarians teach information literacy classes to students and faculty in support of teaching and research using

state-of-the-art electronic classrooms. The Library's instruction program focuses on the search, evaluation and application of information via the use of print collections, 600+ databases, and World Wide Web. One-on-one consultation appointments with librarians are available to any researcher in need of customized assistance.

**Periodicals Collection:** The Periodicals Collection is located on the second floor with service provided at the Periodical Information Desk. The collection contains more than 2,500 current print periodicals and selected newspapers from Florida and major cities in the U.S. and foreign countries. A large collection of periodicals and newspapers in microfiche and microfilm is also located in the Periodicals Microform Room. The Library catalog and Internet workstations provide access to full-text databases and electronic journals. Also located here is self-service photocopying equipment.

**Government Documents Collection:** The Library is a selective depository for United States government publications and a full depository for the public documents of Florida. Federal and State print documents are housed in the basement of the Library. Over a million documents are also available in microform and electronic format. The Collection is augmented by the acquisition of United Nations committee reports on microfiche, selected publications of other public agencies, selected reference tools, and other specialized indexes and finding aids. Assistance with the location and use of publications in the Government Documents Collection is provided at the Service Desk located in the Information Commons on the first floor of the Library. For access to a wide range of online government publications, please visit the Government Documents website at <http://www.lib.usf.edu/public/index.cfm?pg=GovernmentDocuments>.

**Special Collections and Florida Studies Center:** Located on the fourth floor, this department houses the Library's rare books, Florida history and other special collections, as well as the University's archives. Its holdings total over one million items, with rare and unusual materials ranging from 4,000 year-old Sumerian tablets to modern fine printing. In addition to books, Special Collections houses thousands of historical photographs, early maps, sheet music, printed ephemera and oral histories. The department holds a number of major archival collections, including the papers of Florida governors, congressmen and other political leaders, the Research Collection on the Nixon Presidency, and the records of Tampa's Spanish, Cuban and Italian immigrant mutual aid societies. Holdings also include the papers and manuscripts of literary figures like Piers Anthony and Dion Bouciault. The department's strongest area of emphasis is Florida history, but it also houses notable collections of historical children's literature, dime novels, early American schoolbooks, and cigar label art. An increasing number of the department's photographs and other resources have been digitized and are accessible on-line. Further information is available through the department's website at <http://www.lib.usf.edu/public/index.cfm?pg=SpecialCollections>.

**Access and Media Services (circulation, interlibrary services, media, reserve):** Access and Media Services are located on the first floor. The reserve collection contains books and media, while all articles are on electronic reserve within Blackboard. The Electronic Reserves can be accessed via Blackboard, the university's content management system by valid, affiliated users. Circulating books that are shelved on the third through fifth floors can be checked out at the circulation service desk on the first floor. The Library uses an automated circulation system that facilitates easy and quick check out of books. Renewals can be done in person or via the Library's website. A statement of the library's circulation policy is available at the Service desk and on the USF Library's home page. Interlibrary Loan services can obtain materials from other libraries upon request, providing university-affiliated patrons access to resources beyond the onsite collections at each campus. Faculty wishing to place materials on reserve or those wishing to obtain Interlibrary Loan or reserve materials can find

the appropriate forms at <http://www.lib.usf.edu/public/index.cfm?pg=OnlineForms>.

The Library Media Collections provides media materials for instruction, research, and curriculum support. Videocassettes, sound recordings, DVDs, CDs, and other audio-visual formats as well as music scores are available for loan. The Media Resources area, also on the 1st floor, provides equipment for individual use of all media in the collection and on reserve. Multi-media rooms are available for group use of the collection. All foreign language audiotapes have been digitized and made available online.

**Instructional and Open-Use Labs:** The Library's Information Commons, which is located on the 1st floor, allows for full access to the Library's Electronic resources as well as all information management software supported by Academic Computing at 140+ workstations. Trained assistance with the technologies and intellectual content of resources is available at a Common's service desk. Two teaching labs, located on the second floor, are reserved for library instruction.

More information about the collections and services of the Tampa Library is available on the web at <http://www.lib.usf.edu>. For the most up-to-date recording of Library hours of operation, call (813) 974-2727.

## ACADEMIC COMPUTING

**Web Site:** <http://www.acomp.usf.edu>

**Helpdesk:** LIB 117, phone: (813) 974-1222, Florida toll-free: 1-866-974-1222, email: [help-ac@usf.edu](mailto:help-ac@usf.edu), web: <http://help.acomp.usf.edu>

**AC Open-Use Lab:** LIB 113, (Information Commons)

**AC Trainers:** LIB 618A, phone: 974-3286, email:

[actrainers@acomp.usf.edu](mailto:actrainers@acomp.usf.edu),

Web: <http://www.acomp.usf.edu/group/training/>

**Campus Network Information Site:** <http://www.acomp.usf.edu/network>

**Netcast Broadcasting Site:** <http://www.netcast.usf.edu>

**Web Email Access:** <https://mailbox.acomp.usf.edu>

Academic Computing provides services in direct support of instruction and research for students and faculty. Faculty at USF can find the resources and support necessary to bring technology into the classroom. Academic Computing administers the servers that are home to the on-line course system that provides a full suite of electronic tools for all classes. For more information see <http://www.acomp.usf.edu/group/myusf/>. Additional services include broadcasting of public and academic lectures and forums over USF's intranet at <http://www.netcast.usf.edu>.

Student support services are provided through the Academic Computing Help Desk, the Academic Computing Open Use Computer Lab, and the Academic Computing Training Center. Walk in assistance for computer questions is provided. All USF students are provided with computing accounts, official USF email and Internet access. Registered students must activate their automatically generated USF NetID, computing account, and password at <https://una.acomp.usf.edu>. The NetID provides access to USF's Webportal (myUSF), web email, Webspace and access to all Open Use Labs at USF. Other services include phone support, on-line help and tutorials, one-on-one chat with Help Desk technicians and training workshops. Employment opportunities for students are available. Check our web site at <http://jobs.acomp.usf.edu> for information.

Academic Computing provides the University with High Performance Computing resources through its Research Computing division. Research Computing maintains several Beowulf style cluster computer, large memory SMP platforms, a Condor based grid computing system, and licenses for software used in research and instruction. Research Computing also offers training in High Performance Computing topics in various formats. For more details please see the Research Computing web site at <http://rc.usf.edu>.

Academic Computing supports the myUSF Portal. This Web Portal gives instructors the ability to put class materials, assessments, and discussion boards online easily. The Portal also makes available space for organizations, groups and clubs, and is customizable to make it more useful to every individual, <https://my.usf.edu>.

Academic Computing provides students and staff who are concerned with the security of their personal computer a variety of information guides as well as free download of McAfee VirusScan on the USF Data Security Web Site, <http://security.usf.edu>. Academic Computing provides all students free email storage space, complete with virus scanner detection software, and web space for personal web pages. We are also one of the few Universities in the country to offer all students their own, easy to use blog pages. Details on these are available at <http://blog.usf.edu>.

### INFORMATION TECHNOLOGIES/CFRDC

Phone: (813) 974-2930

Web Address: <http://usfweb.usf.edu/usfit/>

The Division of Information Technologies (IT) supports USF's administrative computing needs. IT operates a large-scale computing facility designated as the Central Florida Regional Data Center (CFRDC), which provides the primary administrative computing support to the University of South Florida and several other agencies. CFRDC's Tech Support staff provides Windows/Unix administration, Database Administration and Security Management.

CFRDC utilizes a number of SUN/Solaris servers running Oracle based applications in support of USF, FGCU, NCF, and UNF's Student, Financial, HR, Payroll and Data Warehouse applications. Numerous Windows servers support e-mail, web services, file and print and a variety of other applications. CFRDC administers and houses servers and/or provides tape back-up services for various USF departments.

IT is heavily involved in the management and operation of the campus-wide backbone network and the Internet2 initiative providing high-speed, quality of service access to research facilities on campus and around the world. IT also provides and supports the telephone and voice mail systems at USF campuses, as well as other entities.

### PUBLIC BROADCASTING

WUSF Public Broadcasting is a membership supported, non-commercial public service media organization that celebrates educational, cultural and artistic excellence and is an authentic source of information for the people of the greater Tampa Bay and Sarasota region. WUSF 89.7 and TV 16 and [wusf.org](http://wusf.org) focus programming on issues of concern to citizens such as information on Education, Transportation, the Environment, the Economy and Growth Management.

**WUSF 89.7**, as an NPR member station, provides non-commercial, objective, in-depth journalism from more than 700 correspondents reporting from 17 domestic and 14 foreign news bureaus. WUSF 89.7 also provides classical music, jazz and entertainment programs. WUSF 89.7 now offers a second audio channel of programming via HD Radio technology. The new stream called 89.72 broadcasts all news and public affairs 24 hours a day, seven days a week. Visit our website, [www.wusf.org](http://www.wusf.org), for instructions on how to access the second audio stream. WUSF 89.7 has reached the highest audience in the station's history with 278,800 listeners per week.

As the public television service of USF, **WUSF-TV** brings a broader perspective to world events through BBC World News and Deutsche Welle World News. In March, 2001, WUSF-TV moved into a new, state-of-the-art telecommunications facility housed next to WUSF 89.7 located in the center of the USF campus. It employs digital technology, allowing WUSF-TV to broadcast four channels of educational programming at one time. These channels are available over the air, via direct broadcast satellites or from cable operators. Labeled "multicasting" this capacity enables WUSF and the University to

share more of its wealth of educational and cultural resources. WUSF-TV reaches more than 850,000 viewers per week.

**Intellis Media** is a creative division of WUSF comprised of media, communications, engineering and production professionals. This resource of talent allows WUSF to provide customized communications, production and technology solutions to USF academic and support services units as well as clients in the corporate, government, education and non-profit sectors.

The WUSF website, [www.wusf.org](http://www.wusf.org), provides a separate archive related to state news, focusing on the pending issues before legislators and the actions taken by our elected representatives and the Governor and his cabinet. Pod casts of locally produced news stories are available along with links to other NPR programs.

**WUSF Radio Reading Service** is a public service of the University of South Florida and WUSF Public Broadcasting. The Radio Reading Service serves the blind, physically disabled, visually impaired and those with reading disabilities by providing vital information to encourage independent living. It is a lifeline to those who rely on the 24-hour-a-day reading of newspapers, current magazines and health information programs. The WUSF Radio Reading Service has 150 dedicated volunteers who generously donate their time reading for the visually impaired.

WUSF works closely with the School of Mass Communications to provide students with practicum experience and internships. USF's Mass Communications students have an enlarged working studio environment where they may learn important on-the-job skills.

### OFFICE OF RESEARCH

Location/Phone: ADM 200, (813) 974-5570

Web Address: <http://www.research.usf.edu/>

Creative research and scholarly activities are essential aspects of the undergraduate educational experience at USF. The promotion and administration of research are the responsibilities of the Office of Research and its divisions, which provide services that enable USF faculty, staff, and students at all academic levels to be competitive in a dynamic research environment. The Office of Research oversees the administration of research contracts and grants, patents and copyrights, federal and state research compliance regulations, USF's own internal award programs, economic development initiatives, public-private partnerships, research park development, technology transfer, and research activities at affiliated hospitals and institutes.

The Office of Research supports undergraduate research through the Honors College (contact Dr. Stuart Silverman, email: [silverman@honors.usf.edu](mailto:silverman@honors.usf.edu)) and the Undergraduate Research Program (contact Dr. Naomi Yavneh, [yavneh@honors.usf.edu](mailto:yavneh@honors.usf.edu)). In addition, specialized research projects are supported by grants that offer financial support for students. An excellent undergraduate research experience is available through the College of Engineering's Research Experience for Undergraduates (contact Dr. Rudy Schlaf, email: [schlaf@eng.usf.edu](mailto:schlaf@eng.usf.edu)). This program offers research assistantships supported jointly by the Office of Research and the College of Engineering, as well as select fellowships funded by the National Science Foundation.

From developing a grant proposal or filing a patent, the Office of Research staff are trained professionals committed to meeting the needs of USF researchers. In turn, the dedication of USF students and faculty has contributed to the phenomenal growth in research that USF has experienced.

In addition to the programs noted above, students can become involved in research by contacting faculty, who, with the support of private and public agencies, contribute to our knowledge about the world in which we live and apply their findings and skills to solving many of the problems facing contemporary society. Many contributions evolve from basic research—others, from practical applications of new knowledge. USF encourages research as a vital part of the University's instructional programs.

# HONORS COLLEGE

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

## Tampa Campus

**Tampa Campus Location/Phone:** SVC 1088; (813) 974-3087

**Office Hours:** 8 a.m. – 5 p.m., Monday through Friday

**Web Address:** <http://honors.usf.edu>

First-time-in-college (FTIC) students take nine Honors courses that examine the nature of human knowledge, ethics, interdisciplinary approaches to the natural and social sciences, arts and humanities, multiculturalism, and major works and issues. A Senior Thesis is the culmination of the Honors experience. (Course descriptions (IDH prefix) appear later in the catalog.) Students also complete six semester hours of English, six semester hours of Mathematics, and the foreign language exit requirement (please refer to the foreign language requirement for students pursuing the Bachelor of Arts degree for further information). Honors students may satisfy the English, Math, and Foreign Language requirements through Advanced Placement, IB, dual enrollment, and CLEP (See "Academic Programs and Services" section). First-time-in-college Honors students satisfy USF General Education and Liberal Arts requirements by completing the core Honors courses and the English, Math, and Foreign Language requirements. Enrolling in the Honors College does not generally increase the number of credits needed to graduate.

The Honors College offers a variety of accelerated programs in Medicine (7-year B.S./M.D.), Physical Therapy (B.S./D.P.T.), Public Health, and the Medical Sciences (B.A./Ph.D.). Other programs may be developed and may be found on the Honors College website. Details may be found on the Honors College website or by calling the Honors College.

Potential FTIC students are actively recruited, but any interested student who feels that he/she is qualified may request admission. Invited students present at least a 3.8 recalculated weighted academic high school GPA and a 1300 SAT (based only on Critical Reading and Mathematics sections) or a 29 composite ACT score.

Interested continuing USF students and transfer students may request admission by contacting the Honors College. Eligible continuing USF students present a 3.5 USF GPA, based on at least 45 USF credits. Eligible transfer students present a 3.5 transfer GPA, based on at least 45 college credits.

Continuing USF students and transfer students accepted into the Honors College take four Honors courses that include: inquiry into major works and major issues, a two-semester Senior Thesis, and an elective chosen from the core Honors offerings. Students also complete the foreign language exit requirement. Completion of the Honors Major Works/Major Issues and Senior Thesis satisfies the USF Exit Requirements. Enrolling in the Honors College does not generally increase the number of credits needed to graduate.

Departmental Honors opportunities are available in select departments that wish to offer Honors-level work for superior students majoring in their disciplines. Requirements vary according to department, but all require the completion of a Thesis. Students may enroll in both the Honors College and Departmental Honors.

Admission to the Honors College is determined by the Dean of Honors; admission to Departmental Honors is determined by the individual department. Students who satisfactorily complete Honors and graduate with at least an overall GPA of 3.3 and a USF GPA of 3.3 (all course attempts are included in the Honors GPA) shall be identified as Honors College graduates on their diplomas and transcripts, and at the Honors College Graduation Ceremony.

USF St. Petersburg has an Honors Program. For additional information, please call (727) 553-3103.

## Honors Research Major

The Honors College Research Major (HCRM) is designed primarily for Honors College (HC) students preparing for

graduate or professional school, although it would be available to other HC students as well.

The HCRM is designed to be a second major. That is, in order to have an HCRM, a student would need to complete all requirements of a regularly offered USF major. (Credits = 30-36)

HCRM students would complete IDH 2010, 3100, 3350, 3600, 3400 and 4200, freshman English I and II, 2 semesters of mathematics and two semesters of a foreign language in order to meet USF General Education requirements. AP, IB, CLEP, dual enrollment and other acceptable forms of credit could be used to satisfy the English, math and foreign language requirements. (Credits = 18-42)

The HCRM would consist of 30 credit hours and would include courses to satisfy the USF Exit Requirements (IDH 4000 and six credits of IDH 4970).

The 30 hours would consist of 2 cognates, each containing a minimum of 12 credit hours. Each cognate would require a research project of at least 9 credit hours; the remaining hours could be appropriate coursework, independent study or an increased number of research hours.

One cognate would be directly related to the student's primary major; the second cognate must be outside the department of the student's major.

The student shall have a separate research committee for each cognate, consisting of a mentor and two faculty "readers". The HC Dean shall approve the mentor, and the mentor shall approve the "readers". The committee and student shall design the cognate courses of study and submit the written plan for HC approval.

The committee shall ensure that the student has an appropriate background in scientific method/experimental design/research tools. Research project format shall be discipline appropriate and clearly represent the number of credits earned.

Formal prospectus/proposal and final presentations will be required of each student in both cognates.

No grade below "B" will be accepted towards the HCRM.

## Office of Undergraduate Research

The Office of Undergraduate Research (UR USF) is responsible for creating and facilitating research opportunities for all interested undergraduates, in any discipline. In addition to matching students as research apprentices to faculty mentors throughout the university, UR USF offers training in research skills and methods through workshops, coursework and interdisciplinary REU ("Research Experience for Undergraduates") programs. Students engaged in research with a faculty mentor are eligible to apply for UR USF research grants, while travel grants are available to undergraduates whose work is accepted for presentation at a conference. In addition, UR USF's "Mentor-in-Residence" programs bring at least one nationally-recognized researcher each semester for two days of formal and informal meetings with undergrads and faculty mentors. Each year, researchers whose work is accepted travel as a group to present their research at NCUR.

Students engaged in substantive research projects may submit their work for possible inclusion in the university's annual Undergraduate Research Symposium. Posters and oral presentations are judged by faculty researchers who are leaders in their respective fields, and scholarship prizes are awarded.

## Honors Faculty

**Dean:** Stuart Silverman; **Associate Dean:** Georg Kleine (Instructors for the Honors courses are recruited from among the University's outstanding teacher-scholars); **Director of Undergraduate Research:** Georg Kleine, Naomi Yavneh.

**George Jenkins Scholars Program**

**Location/phone:** SVC 1088, (813) 974-3087

The Jenkins Scholars Program is one of the highest funded academic scholarships at USF. The George Jenkins Scholarships are funded through the Publix Super Markets Charities, which was founded by the late George Jenkins, the initial founder and owner of Publix Supermarkets.

A select group of Jenkins Scholars are elected annually from a statewide competition of high school seniors who are admitted to USF as freshmen. The Jenkins recipients are academically talented students with financial need.

The Jenkins Scholars Program is designed to provide academic and personal support services for all scholars, freshman through senior year. The scholars participate in various scholarly and cultural activities, such as academic monitoring, mentoring activities, academic/personal development seminars, career advising and planned cultural activities with the Jenkins family.

**Kosove Scholarship Program**

**Location/phone:** SVC 1088, (813) 974-3087

**Web address:** <http://usfweb2.usf.edu/finaid2/Website/Kosove.htm> or <http://usfweb2.usf.edu/scholarships/Kosove.asp>

**The Kosove Scholarship**

The Kosove Scholarship Program makes annual, renewable scholarship awards to undergraduate and graduate students. These awards pay the full cost of Florida-resident tuition,

books, housing and food service, or the equivalent costs for students living off-campus. Awards are made for four academic years (fall and spring) to undergraduate freshman, for two academic years to currently enrolled students and transfers, and for two academic years to graduate students.

Academic criteria are used as starting points in the selection process. Assuming academic criteria are met, Kosove Scholars are selected through a rigorous examination of leadership abilities, commitment to community service and demonstrated concern for the global society.

**Goals of the Kosove Society**

When A. Harrison and Ruth Kosove founded the Kosove Society in 1983, they envisioned a close network of individuals from all professions and fields of study working together as leaders in building a better community for the Tampa Bay area and beyond. The Kosove Society is comprised of current and past Kosove scholarship recipients. To achieve these ambitious and important goals, members of the Kosove Society must be willing to bear a continuing responsibility to service throughout their lives.

- To assume a role of leadership in the USF community by promoting responsible inquiry and debate over issues of genuine concern to the university population.
- To exemplify responsibility as educated citizens through active community service.
- To strengthen and sustain the friendship network which exists between all members of the Kosove Society through social activities and the induction of motivated members.

# SCHOOL OF ARCHITECTURE AND COMMUNITY DESIGN

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

Location/ Phone: 3702 Spectrum Blvd. #180, Tampa, FL 33612; (813) 974-4031

Web Address: [www.arch.usf.edu](http://www.arch.usf.edu)

E-mail: [information@arch.usf.edu](mailto:information@arch.usf.edu)

## MISSION

The School of Architecture and Community Design, founded in 1986, emphasizes architecture and community design proficiency, technical competency, and applied research that constitute thorough preparation for practice, now and into the 21<sup>st</sup> century. The School seeks to create environments in which students and faculty can:

- Experience and appreciate the poetry of architecture;
- Study the myriad forms of community and human habitat;
- Understand how past designs can inform future possibilities;
- Master the technologies necessary to create a sound, ecological world;
- Develop a vision of what such a world might be;
- And, then assume leadership roles in helping achieve this vision.

Students enrolled in the degree programs, or involved in the School's research center—Florida Center for Community Design and Research—bring with them diverse educational and professional experiences in a variety of disciplines. Together, they create an ambience in which varied aspects of design, planning, development, history, culture, economy and the environment are explored as one comprehensive entity within a framework provided by one of the world's most comprehensive professions: architecture.

The School nurtures students' creative efforts, intellectual development, and judgment in individual and collective efforts to create the built environment. Students build professional skills and learn to function within a set of ethics consistent with community-based values. In recognition of the university's unique location in one of the Southeast's largest and fastest growing metropolitan areas, the School emphasizes urban architecture and related topics in the professional curriculum, as well as elective opportunities that focus on urban issues.

The School is also dedicated to making the public more aware of the importance of the natural, social, and built environment through active public service grounded in excellent education opportunities.

## ARCHITECTURE STUDIES FOR UNDERGRADUATES

The School of Architecture and Community Design (SACD) offers graduate degrees and certificates. In some circumstances, undergraduates can enroll in the Master of Architecture Program before completing a baccalaureate degree (see below):

### M. Arch. Program for non-degree holding students

For non-degree holding students, the School's professional program involves a minimum of 165 credit hours of undergraduate and graduate work, leading to the M. Arch. degree. No bachelor's degree is awarded.

Before entering the program, students are to complete a minimum of 60 credit hours of general education and prerequisite courses at a community college (in an associate of architecture transfer program), the University of South Florida, or other college or university. Having completed these requirements, students will complete the School's 105 credit hour, M. Arch. program.

Students electing course of study will hold "undergraduate" status for the first 120 credit hours and "graduate" status for the remaining credit hour requirement.

In addition to, or part of, the undergraduate course requirements of 60 credit hours, all undergraduate students must have successfully completed the following prerequisites for admission into the program:

- a. ARC 2001 – Introduction to Architecture – 3 cr. hrs.
- b. ARC 2131 – Introduction to Architectural Design/Graphics – 4 cr. hrs.
- c. creative art or design courses – 8 cr. hrs. (minimum)
- d. an undergraduate course in Calculus;
- e. an undergraduate course in Physics; and
- f. an undergraduate course in Computer-Aided Drafting (CAD)
- g. a GRE Test Score.

### M. Arch. Program for students with a 2-year Associate's Degree in Architecture

Students having a two-year, associates degree in architecture must complete a minimum of 93 credit hours in the School's Master of Architecture program. Holders of an Associate's degree in Architecture will normally receive a waiver of 12 credit hours for their previous design studio experience, reducing the normal 105 credit hour M. Arch. degree requirement to 93 credit hours. Further, these students may receive waivers for the following architectural courses in which a grade of B or better was earned: Design Theory, History I, History II, and Structures I. However, pending the review of each applicant's transcript and portfolio, these credit hour and course waivers may not be granted.

In addition to, or part of, these curricula requirements, all undergraduate students must have successfully completed the following prerequisites for admission into the program:

- a. an undergraduate course in Calculus;
- b. an undergraduate course in Physics; and
- c. an undergraduate course in Computer-Aided Drafting (CAD)
- d. a GRE Test Score.

### Architecture Courses for undergraduate not seeking the M. Arch. degree

The School encourages other University students, not pursuing the M. Arch. degree, to enroll in its numerous undergraduate and graduate courses as electives within their individual majors. The School offers ARC 4784 – "The City" as an approved Exit course, as well as ARC 2001 – "Introduction to Architecture," ARC 2131 – "Introduction to Architectural Design/Graphics," ARC 2701 – "Architectural History I," and ARC 2701 – "Architectural History II" as approved General Education courses. Credits earned in the School's graduate level elective courses on a non-degree seeking basis can later be applied toward advanced standing in the M. Arch. curriculum by those students who meet the School's admission requirements.

### Admission into the School of Architecture and Community Design

In order to enroll in the M. Arch. program, interested students must be accepted into the University as well as the School. Undergraduate students must be accepted into the University of South Florida by the Office of Undergraduate Admissions and into the School of Architecture and Community Design. These are separate admissions processes that involve different application forms, supportive materials, and deadlines. For more detailed information, students should see Undergraduate Admissions online and visit the SACD website at <http://www.arch.usf.edu/>.

## RESEARCH AND OTHER ACTIVITIES

### Florida Center for Community Design and Research

The Florida Center is a non-profit public service institute of the School of Architecture and Community Design. It was founded in 1986 to assist the citizens of Florida in the creation of more livable and sustainable communities through applied community design, multi-disciplinary research, and public education. The diverse staff includes architecture faculty and students, research scientists, and programmer analysts. In addition, the Center has affiliated faculty or graduate students

from the Department of Anthropology, Biology, Fine Arts, Geography, and Social Work.

**Lectures/Exhibits:** Throughout the year, nationally and internationally known architects, planner, landscape architects, and others participate in the School's lecture series. The School also exhibits outstanding work of students, alumni/ae, and professionals at galleries at USF and elsewhere in Tampa.

**Student Groups:** Students at USF have access to a wide range of activities within the School of Architecture and Community Design and elsewhere in the university and community. At the school, one may join the American Institute of Architecture Students (AIAS) and the Architecture College Council. Students participate in a wide range of school governance committees and task forces.

**Study Abroad:** The School sponsors summer study abroad programs in London, Spain, Italy, and other locations.

**Accreditation and Licensure:** Applicants for architectural licensure in Florida, and most jurisdictions in the United States, normally must have:

- earned a professional degree from a School accredited by the National Architectural Accrediting Board (NAAB)
- completed the Intern Development Program (IDP)
- passed the Architect Registration Examination (ARE)

According to the 2004 edition of the NAAB Conditions and Procedures:

"In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit US professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a 6-year, 3-year, or 2-year term of accreditation, depending on the extent of its conformance with established educational standards.

Master's degree programs may consist of a preprofessional undergraduate degree and a professional graduate degree which, when earned sequentially, comprise an accredited professional education. However, the preprofessional degree is not, by itself, recognized as an accredited degree."

The Master of Architecture program at USF is fully accredited.

# COLLEGE OF ARTS AND SCIENCES

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 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 that 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 that 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. Additional information may be obtained from Robin R. Jones, Director, by calling (813) 974-8452 or emailing [jones@cas.usf.edu](mailto:jones@cas.usf.edu). The office is located in NES 305.

## Undergraduate Advising Information

Advising in the College of Arts and Sciences is decentralized. Students are advised by academic advisors in the department of the their major. For a list of advisors, consult "Academic/Students" on the College of Arts and Sciences web page <http://www.cas.usf.edu>. The Arts and Sciences Office of Graduate and Undergraduate Studies, located in the Behavioral Science Building (BEH), Room 201, (813) 974-6957, handles all student-related academic matters. Advising for Pre-Health Pro-

fessions is provided through the Office of Graduate and Undergraduate Studies on the Tampa Campus.

### Advising Offices: Regional Campuses

**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.

### 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>.

## 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." Although Communications, Biology and Psychology are not limited access programs, they do have restrictive admission requirements.

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 available online for current students at <http://www.cas.usf.edu/declare/>. Students preparing for a science or mathematics career must plan their courses carefully because of the sequential nature of the curricula. Students seeking entrance into a health 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, advising 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.

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

1. Complete at least 120 accepted semester hours, 124 for Mass Communications, with a minimum USF cumulative gpa and overall gpa of 2.00. (Important! All grades including "D"s and "F"s are used to calculate gpa's for students in the College of Arts and Sciences.)
2. Maintain major gpa of 2.00 in USF coursework. Note: In Anthropology, English and Mass Communications students must have a 2.50 major gpa in USF coursework; Social Work requires a 2.75 major gpa in all coursework (USF and transfer coursework counted toward the major), and the Biology major with a concentration in Marine Biology requires a 3.0 major gpa in USF coursework.
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 communication. 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 communication portion of the Gordon Rule.
5. Complete Liberal Arts Requirements (for more information, see section titled "Liberal Arts Requirements.")  
General Education Requirements of 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 of 9 hours credit  
Six (6) hours credit in Major Works and Major Issues  
Three (3) hours credit in Literature and Writing
6. Physical Education coursework is limited to 2 semester hours.
7. ROTC courses are 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. Students should check with the college and respective departments when pursuing more than one degree.
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. Coursework fulfilling the Gordon Rule requirement may not be taken S/U.
10. The Audit option is available only during the first 5 days of classes.
11. Complete at least 9 semester hours at a Florida public university in the Florida State University System 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 (Biology, Biomedical Sciences, Interdisciplinary Natural Sciences, Medical Technology, Chemistry, Geology, Math, and Physics). "D" grades are not acceptable for the major area in Anthropology, Communication, Communication Sciences and Disorders, English, Geography, Gerontology, History, Humanities, Mass Communications, Psychology, Social Work, and Sociology. Only one "D" is allowed in the major for Criminology.
13. Complete all major course requirements.
14. Complete a minimum of 48 hours of upper-level courses (numbered 3000 or above).
15. Thirty (30) of the last 60 semester hours must be completed at USF to fulfill the residency requirement.
16. Biology, Biomedical Sciences, Chemistry, Criminology, Economics, English, Gerontology, 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 outside the natural sciences must take a minimum of 80 hours outside of the major department.
17. Students must satisfy CLAST (College Level Academic Skills Test).

For late application information, please refer to the Application for Graduation section of the Academic Policy and Procedures division of the catalog.

**Note:** The College of Arts and Sciences will not accept graduation applications from potential baccalaureate students who have previously been denied graduation three times.

Upon the third denial, the students will be informed in writing that they may only reapply with documentation that they have met all outstanding baccalaureate graduation requirements.

#### 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, Biomedical Physics, Chemistry, Classics, Communication, Communication Sciences and Disorders, Criminology, Economics, English, Environmental Policy, French, Geography, Geology, German, Gerontology, History, Humanities, International Studies, Italian, Mass Communications, Mathematics, Philosophy, Physics, Political Science, Psychology, Public Administration, Religious Studies, Russian, Sociology, Spanish, and Women's Studies.

Certain restrictions apply to students earning a minor: (a) students may not use courses in the major for the minor, unless approved by the department offering 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 in the College of Arts and Sciences include Africana Studies, Aging Studies, American Studies, Anthropology, Biology, Chemistry, Communication, Communication Sciences and Disorders, Criminology, Economics, English, Environmental Science and Policy, Geography, Geology, Government and International Affairs, History, Humanities, Interdisciplinary Social Sciences, Liberal Studies, Mass Communications, Mathematics, Philosophy, Physics, Psychology, Religious Studies, Social Work, Sociology, Women's Studies and World Languages. The College of Arts and Sciences offers 62 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 (B.A.)

Africana Studies (AFA)  
Aging Studies  
Gerontology (GEY)  
Anthropology (ANT)  
Chemistry (CHM)  
Biochemistry Concentration (CBY)  
Health Professions Concentration (CHH)  
Communication  
Interpersonal & Organizational Concentration (SIO)  
Performance Concentration (SPM)  
Public & Cultural Concentration (SPL)  
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  
Environmental Concentration (EVG)  
Urban Concentration (USG)  
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)  
 Mathematics (MTH)  
 Philosophy (PHI)  
 Physics (PHY)  
 Psychology (PSY)  
 Religious Studies (REL)  
 Sociology (SOC)  
 Women's Studies (WST)  
 World Languages  
 Classics (CLS)  
 French (FRE)  
 French International Studies & Business  
 Concentration (ISB)  
 German (GER)  
 Interdisciplinary Classical Civilizations (ICC)  
 Italian (ITA)  
 Russian (RUS)  
 Spanish (SPA)  
 Spanish International Studies & Business  
 Concentration (ISB)

**BACHELOR OF SCIENCE (B.S.)**

Aging Studies  
 Gerontology (GES)  
 Biology  
 Biology (BIO)  
 Microbiology (MIC)  
 Marine Biology Concentration (MRN)  
 Chemistry  
 Chemistry (CHS)  
 Biomedical Sciences (BMS)  
 Medical Technology (MET)  
 Interdisciplinary Natural Sciences (INS)  
 Environmental Science and Policy (ESP)  
 Geology (GLS)  
 Physics (PHS)

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

Social Work (SOK)

**Honors Programs**

The College of Arts and Sciences offers undergraduate honors programs in Anthropology, Biology, Classics, Communication, Communication Sciences and Disorders, Criminology, English, Geology, Mathematics, Philosophy, Political Science, Psychology, Religious Studies, 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 is 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:**

- 18 semester hours from the courses listed below.
- 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.)
- Students must declare their intention to be awarded the certificate by notifying the program advisor at least one full semester prior to graduation.
- 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 Eric Wolters. He may be contacted at SOC 368, 813-974-0803.

**CERTIFICATE IN FILM STUDIES**

The Certificate in Film Studies is designed for undergraduate students majoring in another field, who also desire a concentration in film studies. The certificate program is a carefully structured, interdisciplinary sequence of four courses (12-15 credits) that provides students with a broad introduction to the field of film studies. Receipt of a Certificate in Film Studies is recorded on the student's transcript.

Spanning colleges, departments, and academic disciplines, the Film Studies Certificate provides students with a balanced and multi-faceted course of study that will focus on the functions and manifestations of film as a medium in contemporary western society.

The proposed course of study grants the student a multi-disciplinary comprehension of film as an aesthetic medium and an understanding of how it describes and has helped shape the socio-political situation of western civilizations.

The student and the Coordinator will plan the individual course of study, which requires between 12 and 15 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. Courses must be taken on a letter-grade basis.

For more information contact Dr. Margit Grieb, Coordinator of the Certificate in Film Studies at [grieber@cas.usf.edu](mailto:grieber@cas.usf.edu). Applications are available by emailing [grieber@cas.usf.edu](mailto:grieber@cas.usf.edu).

The following courses meet the requirements for the certificate:

Core Course (3 credits, required):

HUM 1580 Introduction to Film

Group I (Area Studies):

Students will take 3-4 credits of elective courses chosen from the following list:

FOL 3100 General Foreign Language I\*  
 FRE 4392 African Images in Francophone Film  
 GET 3522 Fantastic Films of Early German Cinema  
 GET 3524 German Popular Film  
 GET 4523 New German Cinema to Present  
 HUM 4930 Selected Topics in Humanities\*  
 INR 4931 Selected Topics\*  
 LAS 3116 Latin America Through Film

Group II (Film Medium & History):

Students will take 3-4 credits of elective courses chosen from the following list:

FIL 2000 Film: The Language of Vision  
 FIL 3427C Beginning Film  
 FIL 3845 World Cinema  
 THE 2252 Great Performances on Film

Group III (Socio-Political & Historical Perspectives):

Students will take 3-4 credits of elective courses chosen from the following list:

AMS 4152 Film in American Culture  
 ARH 4744 Selected Topics In the History of Film  
 LAH 2733 Latin American History in Film  
 REL 3111 The Religious Quest in Contemporary Films  
 REL 3170 Religion, Ethics and Society Through Film  
 SYG 3011 Social Problems Through Film  
 WST 4335 Women and Film

\*Please see academic advisor for appropriate General Foreign Language and Special/Selected Topics courses.

NOTE: Course of study must be approved by the Coordinator. Ideally, students should take at least one course from each group. Courses not included in the above groups may be included in the program if approved by the Coordinator.

**CERTIFICATE IN ITALIAN STUDIES**

The College of Arts and Sciences and the College of Visual and Performing 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 below 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. Giovanna Benadusi or Dr. Fraser Ottanelli, Coordinators of the Certificate in Italian Studies at [itastudies@cas.usf.edu](mailto:itastudies@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 Special Topics\*  
 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 Archaeology  
 ANT 4930 Special Topics in Anthropology\*

Art History:

ARH 4796 The Renaissance Book [instructor's consent]  
 ARH 4318 Venetian Art [instructor's consent]

English:

LIT 4930 Special Topics in English Studies\*

Government and International Affairs:

POT 4936 Selected Topics in Political Theory\*

History:

EUH 3412 Roman Republic  
 EUH 3413 Roman Empire  
 HIS 3930 Special Topics\*

Humanities:

HUM 4437 Italian Renaissance Culture  
 HUM 4930 Selected Topics in Humanities\*

World Languages:

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

\*Please see academic advisor for appropriate Special/Selected Topics courses.

## 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, and have that knowledge formally recognized in their academic record. This program is open to all USF majors of all colleges.

The certificate requires a minimum of 15 semester hours of courses about Latin America and the Caribbean. One LAS seminar must be taken in addition to courses in: 1) Anthropology, 2) Geography/Government & International Studies, 3) History, and 4) Art/Humanities/Literature.

Students must also demonstrate proficiency in a Latin American or Caribbean language (Spanish, Portuguese, French, or Amerindian language) or have two semesters of course work in any of these languages. Students who already know a Latin American or Caribbean language are strongly encouraged to learn a second language.

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. Students are strongly encouraged to review the *Schedule of Classes* each semester for current course offerings at <http://web.usf.edu/iac/islac/courses.html>.

## 1) Anthropology

ANT 4162 South American Archaeology  
 ANT 4163 Mesoamerican Archaeology

ANT 4340 The Caribbean

ANT 4324 Mexico and Central America

ANT 4930 Selected Topics in Anthropology\*

## 2) Geography/Government &amp; International Affairs

CPO 4930 Comparative Government and Politics of Selected Countries or Areas\*

INR 4931 Selected Topics\*

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

HIS 3930 Special Topics\*

## 4) Art/Humanities/Literature

ARH 4930 Art History: Selected Topics\*

HUM 4464 Latin American Culture Since 1492

SPN 3520 Spanish American Civilization

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

THE 4434 Caribbean Theatre

## 5) Others

ECO 4430 The Economics of Latin America

REL 3375 Issues in Caribbean Religions

See also: Sociology, Economics, Study Abroad.

\*Please see academic advisor for appropriate Selected Topics courses.

For information and advice about the certificate program, contact the Institute for the Study of Latin America and The Caribbean (ISLAC), CPR 474, call 974-3547, or send an email to [thompson@iac.usf.edu](mailto:thompson@iac.usf.edu). The program is open to all majors in all colleges. Applications are available at: [http://web.usf.edu/iac/islac/undergrad\\_cert.html](http://web.usf.edu/iac/islac/undergrad_cert.html). Course offerings can be checked at: <http://web.usf.edu/iac/islac/courses.html>.

## 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, World Languages, 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 the present and the 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 Dr. Christine M. Probes at World Languages, CPR 107, (813) 974-2743, or by e-mail: [probes@cas.usf.edu](mailto:probes@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 3205 History of Nineteenth Century Europe

or

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 4955 or 4956 (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

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 Since the Renaissance

#### C. History

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

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

CPO 4930 Comparative Government and Politics

INR 3955 Overseas Study

INR 4900 Directed Readings

INR 4910 Directed Research

INR 4931 Selected Topics

POS 3931 Selected Topics

POS 4905 Independent Study

POT 4054 Modern Political Theory

#### F. World Languages

(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

GET 3290 Fantastic Films of Early German Cinema

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

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

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.

NOTE: Courses which apply to the certificate may also count toward a student's major.

## CERTIFICATE IN RUSSIAN STUDIES

The College of Arts and Sciences offers this certificate through the collaboration of the Departments of World Languages, Government and International Affairs, and History. Courses from other departments may count if their subject matter has significant Russian or Eurasian content. It is designed for majors in any field who wish to gain a deeper insight into the multi-faceted Russian world in contemporary and historical perspectives.

The student and the coordinator will plan the individual course of study, which requires from 23 to 25 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 3.0 in the certificate course work is required. Please contact Professor Victor Peppard at World Languages, CPR 418, phone (813) 974-2012, e-mail: [peppard@cas.usf.edu](mailto:peppard@cas.usf.edu) or Professor Darrell Slider at SOC 381, phone (813) 974-9378, e-mail: [dslder@cas.usf.edu](mailto:dslder@cas.usf.edu).

#### Requirements

- I. Language: All students are encouraged to develop their language skills to the highest possible level. Non-heritage speakers should complete at least RUS 2200 (Russian III), and heritage speakers should complete one semester of RUS 4900 Analytical Reading.

## II. Required Core Courses

## A. Two of the following courses:

- EUH 3575 Imperial Russia (4)  
 EUH 3576 Soviet Union (4)  
 EUS 3022 Russia (3)

## B. One of the following courses:

- RUS 3500 Russian Civilization (3)  
 RUT 3110 Russian Classics in English (3)  
 RUT 3111 20th Century Russian Literature in English (3)

## III. Elective Courses

- HIS 3930 Selected Topics\* (4)  
 HIS 4900 Directed Reading\* (1-3)  
 INR 3018 World Ideologies (3)  
 INR 4900 Directed Readings\* (1-3)  
 INR 4910 Directed Research\* (1-3)  
 INR 3955 Overseas Study\* (1-6)  
 RUS 2221 Russian IV (4)  
 RUS 3240 Conversation I (4)  
 RUS 4241 Conversation II (4)  
 RUS 2270 Overseas Study (1-6)  
 RUS 3470 Overseas Study (1-6)  
 RUS 4471 Advanced Overseas Study (1-6)

\*When topic is defined as Russian/Eurasian or related area.

Other courses may be substituted for those listed above with approval of a Russian Studies Coordinator.

Students are strongly recommended to take advantage of overseas study opportunities.

## 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)  
 GEO 4604 Topics in Urban Geography (4)  
 POS 3142 Introduction to Urban Politics and Government (3)  
 SYA 4930 Selected Topics\* (1-3)  
 SYD 4410 Urban Sociology (3)  
 SYD 4411 Urban Life (3)

Courses may have prerequisites within the discipline.

\*Please see academic advisor for the appropriate selected topics course.

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

- AFA 4350 African American Community Research (3)  
 ANT 4285 Oral History (3)  
 ANT 4495 Methods in Cultural Research (3)  
 CCJ 3701 Research Methods in Criminal Justice I (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)  
 GIS 3006 Computer Cartography (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)

## Anthropology

- ANT 4316 Ethnic Diversity in the U.S. (3)  
 ANT 4701 Applied Anthropology (3)  
 ANT 4930 Special Topics in Anthropology (when applicable) (3)

## Communication

- SPC 3710 Communication and Cultural Diversity (3)  
 SPC 4714 Communication, Culture and Community (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 4450 Criminal Justice Administration (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)

## Geography

- EVR 2861 Introduction to Environmental Policy (3)  
 GEO 4471 Political Geography (4)  
 GEO 4502 Economic Geography (4)  
 GEO 4700 Transportation Geography (4)  
 URP 4052 Urban and Regional Planning (4)

## 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)

## Political Science

- POS 2112 State & Local Government and Politics (3)  
 POS 3182 Florida Politics and Government (3)  
 POS 5155 Issues of Urban Government and Politics (3)

## Public Administration

- PAD 3003 Introduction to Public Administration (3)  
 PAD 4144 Nonprofit Organizations and Public Policy (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 3210 The American Social Welfare System (3)

## Sociology

- SYO 3120 Sociology of Families (3)  
 SYO 3530 Social Inequalities in a Global Society (3)  
 SYD 3700 Racial and Ethnic Relations (3)  
 SYP 4111 Identity and Community (3)

- SYP 4420 Consumer Culture (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)  
 IDS 4942 Community Internship (3)  
 IDS 4956 International Community Internship (3)  
 POS 4941 Field Work (3)  
 SYA 4949 Sociological Internship (3)

See: Robin R. Jones, NES 305, (813) 974-8452, jones@cas.usf.edu.

## CERTIFICATE IN WOMEN'S SPIRITUALITY

The Undergraduate Certificate in Women's Spirituality is designed through the collaboration of Women's Studies and Religious Studies for majors in any field who wish to understand women's experiences in relation to diverse spiritualities, past and present. This program is intended for all students who have an interest in spirituality and personal growth. The omen's Spirituality Certificate complements a wide range of undergraduate majors and professional careers. The Certificate is also valuable for non-degree seeking students interested in personal development and spiritual inquiry.

Students are required to take 15 credit hours from a list of courses approved for the certificate. Other courses would need the approval of the advisor.

Relevant Study Abroad Programs in India/Asia offered by Dr. Grewal (Associate Professor in Women's Studies) may be credited with at least 3 semester hours toward the certificate.

Please contact Dr. Gurleen Grewal at FAO 167, (813) 974-0984, or by e-mail: ggrewal@cas.usf.edu.

- 1) Courses (15 credits)  
 REL 3132 Witchcraft and Paganism in America (3)  
 REL 3145 Women and Religion (3)  
 REL 3146 Womanist Vision in Religion (3)  
 REL 4218 Women and the Bible (3)  
 REL 4930 Selected Topics\* (3)  
 WST 4930 Selected Topics\* (3)

\*Selected Topics courses approved by the advisor.

Other courses may be substituted for those listed above upon approval of the advisor in either Religious Studies or Women's Studies.

## 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, Shriner's Hospital for 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 biology, biomedical sciences, or chemistry because of their interests in the health

sciences, and the considerable overlap between the preprofessional curriculum and the degree requirements for those majors. 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.

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.

For specific information about the following programs in Florida, please see our health professions website at:

[http://www.cas.usf.edu/health\\_professions](http://www.cas.usf.edu/health_professions).

- Medical  
For information regarding the USF Medical program, please visit <http://hsc.usf.edu/medicine>.
- Dental
- Optometry
- Physical Therapy  
For information regarding the USF Physical Therapy program, please visit <http://dpt.hsc.usf.edu>.
- Veterinary Medicine
- Pharmacy
- Physician Assistant

## 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, physical therapy, 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:

<b>Biology</b>		
BSC 2010, 2010L	Biology I: Cellular Processes	(3,1)
BSC 2011, 2011L	Biology II: Diversity	(3,1)
<b>Chemistry</b>		
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)
<b>Physics</b>		
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 and have specific restrictions for accepting DE credits. Students should check with the school of their choice regarding acceptable acceleration credit.

## 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.

*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 Biomedical 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 3020C 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)	(3,1)
PCB 3063, 3063L General Genetics (lab optional)	(3,1)
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	(4,4,4)
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*Plus either the second semester of a calculus sequence*

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, physical therapy, 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.

## 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 African and African Diaspora Studies. 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. The requirements for the majors are as follows:

Major requirements for the B.A. Degree (36 Credit 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 African and African Diaspora Studies. (21 credit hours)

#### African American Studies (Suggested)

AFA 4313 Black English	(3)
AFA 4331 Social Institutions and the African American Community	(3)
AFA 4333 The African Diaspora: Blacks in the Construction of the Americas	(3)
AFA 4335 Black Women in America	(3)
AFA 4350 African American Community Research	(3)
AFA 4500 Slavery in the Americas and Caribbean	(3)
AFA 4502 Middle Passage	(3)
AFA 4931 Selected Topics in Africana Studies	(1-3)
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)
PHM 4120 Major Black Thinkers	(3)

#### African Studies (Suggested)

AFA 4150 Africa and the United States	(3)
AFA 4313 Black English	(3)
AFA 4350 African American Community Research	(3)
AFA 4500 Slavery in the Americas and Caribbean	(3)
AFA 4402 Middle Passage	(3)
AFA 4931 Selected Topic in Africana Studies	(1-3)
AFS 2250 Culture and Society of Africa	(3)
AFS 3153 African Literature Survey	(3)
CPO 4204 Government and Politics of Africa	(3)
CPO 4244 Government and Politics of East, Central, and Southern Africa	(3)
INR 4254 Africa in World Affairs	(3)
PHI 4073 African Philosophy	(3)

#### Africana Studies (Suggested)

AFA 4313 Black English	(3)
AFA 4331 Social Institutions and the African American Community	(3)
AFA 4333 The African Diaspora: Blacks in the Construction of the Americas	(3)
AFA 4335 Black Women in America	(3)
AFA 4502 Middle Passage	(3)
AFA 4931 Selected Topics in Africana Studies	(1-3)
AFS 2250 Culture and Society in Africa	(3)
AFS 3153 African Literature Survey	(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)
PHI 4073 African Philosophy	(3)
PHM 4120 Major Black Thinkers	(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. The requirements for the minor are as follows:

Minor Requirements (18 Hours): Three Options

#### Africana Studies- Option I

##### Required Core Classes (9 Hours)

AFA 2000 Introduction to the Black Experience [In Africa and Its Diaspora]	(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 African American 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)
ANT 4340 The Caribbean	(3)
CPO 4204 Government And Politics Of Africa	(3)
INR 4254 Africa In World Affairs	(3)
PHM 4120 Major Black Thinkers	(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 4333 The African Diaspora: Blacks in the Construction of the Americas	(3)
AFA 4335 Black Women in America	(3)
PHM 4120 Major Black Thinkers	(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)
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, public policy analysis, and applied linguistics.

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 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.

## Requirements for the Major in Anthropology

Beyond the recommended prerequisites listed above, the major in Anthropology consists of a minimum of 36 credit hours. In order to graduate, students must maintain an average best attempt 2.5 GPA in all courses counted toward the major. In addition, students must have a minimum C (2.0) grade in all classes that count towards the major, including specifically required classes and electives. A C- grade is not acceptable. ANT 2000, although suggested, is not a prerequisite to intermediate level courses. ANT 2000 may, however, be included in the 36 credit hour major requirement. Students who have not taken ANT 2000 must make up the missing hours with elective coursework. 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. A minimum of three (3) of these 15 credits must be selected from a list of designated methods courses. Methods courses may also be counted toward the subdivision requirement.

### Required Core Courses

ANT 2410 Cultural Anthropology	(3)
ANT 2511 Biological Anthropology	(3)
ANT 2511L Biological Anthropology Laboratory	(1)
ANT 3101 Archaeology	(3)
ANT 3610 Anthropological Linguistics	(3)
ANT 4034 Theories of Culture	(3)
ANT 4935 Rethinking Anthropology	(3)

### Area Electives

#### 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 4195 Fantastic Archeology	(3)
ANT 4824 Archaeological Field Methods	(4-12)

#### Biological Anthropology

ANT 4520 Forensic Anthropology	(4)
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)

#### Methods

ANT 4180 Lab Methods in Archaeology	(2-4)
ANT 4181 Museum Methods	(4)
ANT 4183C Archaeological Science	(4)
ANT 4285 Oral History	(3)
ANT 4390 Visual Anthropology	(3)
ANT 4495 Methods in Cultural Research	(3)
ANT 4520C Forensic Anthropology	(4)
ANT 4824 Archaeological Field Methods	(4-12)

#### Special Topics

ANT 4930 Special Topics	(3)
Depending upon the specific topic, this may count toward any of the subdivisions and/or the methods requirement.	

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 advisor to create the most beneficial set of courses. ANT 2000, although suggested, is not a prerequisite to subsequent courses, although it may be included in the 18 credits required for the minor.

1. Intermediate-level core courses (3-6 credit hours)
  - ANT 2410 Cultural Anthropology
  - ANT 2511 Biological Anthropology
  - ANT 3101 Archaeology
  - ANT 3610 Anthropological Linguistics
2. 4000-level elective courses (9-12 credit hours)
 

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 3.25 GPA overall, 3.5 GPA for USF anthropology course work), a 2-page personal statement indicating research interests, and a letter of recommendation from a member of the Department of Anthropology. Successful completion of the program requires maintenance of a 3.25 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.

### • 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.

### Requirements for Entrance into either the Biology or Microbiology Degrees

1. Completion of two semesters of college-level basic biology (BSC 2010 and BSC 2011, or equivalents); two semesters of college-level basic chemistry (CHM 2045 and CHM 2046, or equivalents).

2. A cumulative GPA of at least 2.75 in the four 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 four courses listed above.

### Requirements for Entrance into the Biology Degree with a Concentration in Marine Biology

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 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 3043/3043L, PHY 3048/3048L, PHY 3049/3049L, or equivalent

#### CHM 2211/2211L Organic Chemistry II (with lab)

Acceptable substitutes: PHY 3053/3053L, PHY 3048/3048L, PHY 3049/3049L, 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

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

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)
  - PCB 3712 General Physiology (3)
  - c. **TWO** of the following:
    - PCB 3023L Cell Biology Laboratory (1)
    - PCB 3043L Principles of Ecology Laboratory (1)
    - PCS 3063L General Genetics Laboratory (1)
    - PCB 3713L General Physiology Laboratory (1)
  - d. Advanced Courses
 

Must select from structured departmental courses that are applicable to the major and BCH 3023.

- i. At least eight (8) hours of the advanced course credits must be at the 4000-level or higher.
  - ii. A maximum of four (4) credit hours of undergraduate research (BSC 4910 or MCB 4910) may be applied.
  - iii. BCH 3023 Biochemistry, offered by the Department of Chemistry, is the only course outside of the department that may be used towards the advanced course hours.
  - e. 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)  
STA 2023 Introductory Statistics I (4)  
may be substituted for any Calculus II
    - 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 I (3)  
PHY 2053L General Physics I Laboratory (1)  
PHY 2054 General Physics II (3)  
PHY 2054L General Physics II Laboratory (1)
  3. Meet all College and University requirements.

### 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 3043/3043L, PHY 3048/3048L, PHY 3049/3049L, or equivalent
- CHM 2211/2211L Organic Chemistry II (with lab)  
Acceptable substitutes: PHY 3053/3053L, PHY 3048/3048L, PHY 3049/3049L, 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)  
PCB 3712 General Physiology (3)
    - c. **TWO** of the following:  
PCB 3023L Cell Biology Laboratory (1)  
PCB 3043L Principles of Ecology Laboratory (1)  
PCS 3063L General Genetics Laboratory (1)  
PCB 3713L General Physiology Laboratory (1)
    - d. BSC 3312 Marine Biology (3)
    - e. At least one of the following: Vascular Plants (BOT 3373C), Microbiology (MCB 3020C), Vertebrate Zoology (ZOO 2303C), Comparative Vertebrate Anatomy (ZOO 3713C), Advanced Invertebrate Zoology and Lab. (ZOO 3205C)
    - f. BSC 4937 Seminar in Marine Biology (2)
    - g. The remaining credit hours to meet the minimum requirements must come from courses listed in (e) above and/or from the following list.
      - i. A maximum of six (6) credits may be taken in courses from other departments/colleges.
      - ii. At least eight (8) or these credit hours must be at the 4000 level or higher:  
OCB 6050 Biological Oceanography  
OCC 6050 Chemical Oceanography  
OCE 4930 Selected Topics in Marine Science\*  
OCE 6934 Selected Topics in Oceanography\*  
OCG 6051 Geological Oceanography  
OCP 6050 Physical Oceanography  
GLY 4734 Beaches and Coastal Environments  
GIS 5049 GIS for Non-Majors  
ZOO 5456/5456L Ichthyology  
MCB 5655 Applied and Environmental Biology  
MCB 4404/4404L Microbial Physiology and Genetics (with lab)  
ZOO 5555C Marine Animal Ecology  
ZOO 4513 Animal Behavior  
PCB 4674 Organic Evolution  
PCB 4723/4723L Animal Physiology (with lab)  
BOT 5185C Marine Botany  
BSC 4313C Advanced Marine Biology
  - \*Please see academic advisor for appropriate selected topics courses.
  - iii. A maximum of four (4) credit hours of Undergraduate Research (BSC 4910 or MCB 4910) may be applied.
  - iv. 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)  
 STA 2023 Introductory Statistics I (4)  
 may be substituted for any Calculus II
- 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 I (3)  
 PHY 2053L General Physics I Laboratory (1)  
 PHY 2054 General Physics II (3)  
 PHY 2054L General Physics II Laboratory (1)
3. Meet all College and University requirements.
- c. MCB 3020C General Microbiology (4)  
 MCB 4115C 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:  
 BSC 4933 Selected Topics in Biology\* (1-4)  
 BSC 5931 Selected Topics in Biology\* (1-4)  
 BOT 4434C Mycology (3)  
 MCB 4503 Virology (3)  
 MCB 4910 Microbiology Undergraduate Research (1-4)  
 MCB 4934 Seminar in Microbiology (1)  
 MCB 5206 Public Health and Pathogenic Microbiology (3)  
 MCB 5655 Applied and Environmental Biology (3)  
 MCB 5815 Medical Mycology (3)  
 PCB 4234 Principles of Immunology (3)  
 ZOO 4233 Parasitology (3)  
 BCH 3023L Basic Biochemistry Laboratory (2)
- \*Please see an Academic Advisor for appropriate selected topics courses.
- e. A maximum of four (4) credit hours of Undergraduate Research (MCB 4910) 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

### 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 X010/X010L  
 Introduction to Biology I-Cellular Processes (with lab)  
 Acceptable substitutes: PCB X010, PCB X011, PCB X021, PCB X131, BSC X040, BSC 2012
- BSC X011/X011L  
 Introduction to Biology II-Diversity (with lab)  
 Acceptable substitutes: ZOO X010, BOT X010, BSC X041, BOT X013
- CHM X045/X045L General Chemistry I (with lab)  
 CHM X046/X046L General Chemistry II (with lab)  
 CHM X210/X210L Organic Chemistry I (with lab)  
 Acceptable substitutes: PHY 3043/3043L, PHY 3048/3048L, PHY 3049/3049L, or equivalent
- CHM X211/X211L Organic Chemistry II (with lab)  
 Acceptable substitutes: PHY 3053/3053L, PHY 3048/3048L, PHY 3049/3049L, or equivalent
- MAC X311 Calculus I  
 Acceptable substitutes: MAC 2233, MAC 2253, MAC

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)

#### 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.

3. Meet all College and University requirements.

**• CHEMISTRY (CHS/CHM/BMS/INS/MET)**

The Department of Chemistry awards five degrees at the baccalaureate level: the Bachelor of Arts in Chemistry and, four Bachelor of Science degrees, in Chemistry, Biomedical Sciences, Interdisciplinary Natural Sciences, and Medical Technology. The Bachelor of Arts in Chemistry is also offered with an emphasis in Biochemistry or an emphasis for Health Professions. The Chemistry Department also awards 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. The chemistry faculty is comprised of 28 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 4410 Physical Chemistry I (B.S. degree), courses which is 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.

### 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.

CHM X045/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

### 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 credit hours)
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 3610 Intermediate Inorganic Chemistry I	(3)
CHM 3610L Intermediate Inorganic Chem. I Lab	(1)
CHM 4410 Physical Chemistry I	(4)
CHM 4413 Biophysical Chemistry	(3)

**Required Chemistry Electives** (6 credit hours)  
3000 level or above; may include not more than 1 hour of CHM 4970.

Suggested courses: BCH 3023, BCH 3023L, CHS 4300, CHM 4060, CHM 4070, CHM 4130, CHM 4611, CHM 4970, CHM 4932\*, CHS 4301L.

\*Content varies each semester.

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

**Required natural science or engineering electives** (8 credit hours) Suggested courses: BSC 2010, BSC 2011, GLY 2010, GLY 2100, EVR 2001, CGS 2060, STA 2023.

**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.

<i>Required Chemistry Courses</i> (30 credit hours)	
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)

<i>Required Chemistry Electives</i> (9 credit hours)	
Minimum of 9 hrs. selected from the following:	
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 4410 Physical Chemistry I	(4)
CHM 4413 Biophysical Chemistry	(3)
CHM 4932 Selected Topics in Chemistry**	(3)

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

\*\*Spectroscopy is the only Selected Topics course acceptable for the Biochemistry track of the Chemistry B.A. degree.

<i>Required Supporting Courses</i> (22 - 24 credit hours)	
MAC 2311 (4)	or ( MAC 2281 (4)
MAC 2312 (4)	MAC 2282 (4)
PHY 2053 (3)	PHY 2054 (3)
PHY 2053L (1)	PHY 2054L (1)
BSC 2010 (3)	PCB 3023 (3)*
BSC 2010L (1)	PCB 3023L (1)

\*BSC 2011, 2011L are required as pre-requisites to this course.

Other suggested electives important for advanced studies in biochemistry: CHM 4932\*, CHM 4070, PCB 3063, PCB 5235, PCB 5525, STA 2023, MCB 3020, 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.

<i>Required Chemistry Courses</i> (30 credit hours)	
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 credit hours)

Minimum of 9 hours selected from the following:

BCH 3023L Basic Biochemistry Lab	(2)
BCH 4034 Advanced Biochemistry	(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)
CHM 4410 Physical Chemistry I	(4)
CHM 4413 Biophysical Chemistry	(3)

**Required Supporting Courses** (22-24 credit hours)

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

PCB 4723 (3)	or ( 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 3020, 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 credit hours)

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	(4)
CHM 4410L Physical Chemistry Laboratory	(1)
CHM 4411 Physical Chemistry II	(4)
CHM 4611 Advanced Inorganic Chemistry	(3)

**Required Supporting Courses** (20-23 credit hours)

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

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

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. Eight hours of approved Chemistry coursework must be completed at USF. Students apply for a minor when submitting a graduation application (i.e., there is no need to "declare" a minor).

Biomedical Sciences, Interdisciplinary Natural Sciences, and Medical Technology majors are not eligible for the minor in Chemistry.

**Required Chemistry Courses** (14 credit hours)

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)

**Chemistry Electives** (Minimum 10 hours)

Choose 10 hours of structured classes, applicable to the major. Chemistry courses used to satisfy a major requirement cannot be used toward a minor in Chemistry.

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 4300 Biomolecules	(3)
CHM 4410 Physical Chemistry I	(4)
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.

**• BIOMEDICAL SCIENCES (BMS)**

Biomedical Sciences is designed to fulfill the major requirements for 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. Students must attain a C- or higher in all required courses for the Major.

**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 X010, X010L & BSC X011, X011L Biology I and II with Lab	8
and	
CHM X045 & CHM X045L General Chemistry & Lab	4
CHM X046 & CHM X046L General Chemistry II & Lab	4
CHM X210 & CHM X210L Organic Chemistry & Lab	4
CHM X211 & CHM X211L Organic Chemistry II & Lab	4
and	
PHY X053 & X053L General Physics I & Lab	4
or	
BSC X093 Human Anatomy & Physiology I	4
and	
PHY X054 & X054L General Physics II & Lab	4
or	
BSC X094 Human Anatomy & Physiology II	4
and	
MAC X241 Life Sciences Calculus	4
or	
MAC X311 Calculus I	4
and	
MAC X242 Life Sciences Calculus II	4
or	
MAC X312 Calculus II	4
or	
STA X023 Introductory Statistics I	3
or	
STA X122 Social Science Statistics	3
or	
STA X014	3
or	
STA X024 Introductory Statistics II	3
or	
STA X321 Essentials of Statistics	3
or	
Equivalent	

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.

**Tier 1 - Required Biology and Chemistry 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 3020C General Microbiology	(4)

**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	(2)
CHM 2211 Organic Chemistry II	(3)
CHM 2211L Organic Chemistry II Lab	(2)
BCH 3023 Introductory Biochemistry	(3)

**Required Supporting Courses:**

Mathematics:*	
MAC 2241 Life Sciences Calculus I	(4)
MAC 2242 Life Sciences Calculus II	(4)
or	
STA 2023 Introductory Statistics	(4)

\*MAC 2311 and MAC 2312 are also acceptable for the major.

**Physics:\***

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

PHY 2054L General Physics II Lab (1)

\*Students may substitute Human Anatomy or Physiology I and II (BSC 2093C & 2094C or BSC 2085, 2085L & BSC 2086, 2086L) for Physics I & II

### Tier 2 - Required Biomedical Electives:

Minimum of 14 credits from the following to include:

- 9 credits minimum of Biology and Chemistry Coursework from the lists below, with no fewer than 3 credits in both Biology and Chemistry.
- Lab Requirement: Students must choose at least one upper-division Lab (must take co-requisite lecture) or combined lecture/lab course.
- Chemistry Residency Requirement: 7 credits of Chemistry coursework, upper or lower division, must be completed at USF.

#### Biology:

BOT 3850	Medical Botany	(3)
MCB 4115C	Determinative Bacteriology	(5)
MCB 4404	Microbial Physiology and Genetics	(4)
MCB 4404L	Microbial Physiology and Genetics Lab	(1)
MCB 4503	Virology	(3)
MCB 5206	Public Health & Pathogenic Microbiology	(3)
MCB 5815	Medical Mycology	(3)
PCB 3023	Cell Biology	(3)
PCB 3023L	Cell Biology Lab	(1)
PCB 3063	General Genetics	(3)
PCB 3063L	Genetics Lab	(1)
PCB 3712	General Physiology	(3)
PCB 3713L	General Physiology Lab	(1)
PCB 4234	Principles of Immunology	(3)
PCB 4522C	Experimental Genetics	(3)
PCB 4843	Principles of Neuroscience	(3)
ZOO 3713C	Comparative Vertebrate Anatomy*	(4)
ZOO 4753C	Histology*	(4)

\*Combined course - satisfies lab requirement

#### Chemistry:

BCH 3023L	Biochemistry Lab	(2)
BCH 4034	Advanced Biochemistry	(3)
CHM 3120C	Elem. Analytical Chemistry	(4)
CHM 3610	Intermediate Inorganic Chemistry	(3)
CHM 3610L	Intermediate Inorganic Chemistry Lab	(1)
CHM 4413	Biophysical Chemistry	(3)
CHM 4300	Biomolecules I	(3)
CHM 4932	Selected Topics in Chemistry	(1-3)
CHS 4300	Fundamentals of Clinical Chemistry	(3)
CHS 4301L	Clinical Laboratory	(2)

#### Other:

BMS 4402	Principles of Human Pharmacology	(3)
HSC 4504	Foundations of Public Health Immunology*	(3)
PHZ 4702	Applications of Physics to Biology & Medicine I	(4)
PHZ 4703	Applications of Physics to Biology & Medicine II	(4)

\*cannot use both HSC 4504 & PCB 4243

### • INTERDISCIPLINARY NATURAL SCIENCES (INS)

The Interdisciplinary Natural Science degree serves the academic and career goals of undergraduate students who seek a broad education in the Natural Sciences (Biology, Chemistry, Physics, Mathematics, Geology).

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)	8
General Chemistry (CHM 2045, CHM 2045L, CHM 2046, CHM 2046L)	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 2000L, 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, 2000L 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.

### • 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 alternate 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 Gordon Rule 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.

- 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, ZOO 2010, ZOO 1010)
- 2) Human Anatomy and Physiology I with lab (4)  
(e.g. BSC 1085/1085L, BSC 1085C, BSC 1093, BSC 2093C, BSC 2085/2085L, BSC 1011C, 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 1041/1041L, 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 2120C, CHM 3120C)
- 9) Statistics (3-4)  
(e.g. STA 2023, STA 2014, STA 2122, STA 2037, STA 2040, STA 2024, STA 2321, STA 3023)

Students should carefully follow all prerequisite requirements for individual courses. The USF courses recommended to meet the state mandated prerequisites as listed above are:

- General Biology I with lab (BSC 2010,2010L) (4)
- Human Anatomy and Physiology I (with lab where available) (BSC 2093C or BSC 1085,1085L) (3-4)
- General Biology II with lab (BSC 2011,2011L) (4)
- General Microbiology with lab (MCB 3020C) (4)
- General Chemistry I with lab (CHM 2045,2045L) (4)
- General Chemistry II with lab (CHM 2046,2046L) (4)
- Organic Chemistry I with lab (CHM 2210,2210L) (4-5)
- Organic Chemistry II with lab (CHM 2211,2211L) (4)
- Statistics (STA 2023) (4)

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)
- Cell Biology with lab (PCB 3023,L) (4)
- Immunology (PCB 5235 or equivalent) (3)
- Determinative Bacteriology with lab (MCB 4115C) (5)
- Biochemistry (BCH 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.

### **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.

### **• COMMUNICATION (SPE)**

Communication focuses on the concepts, theories, and practice of human communication. Students apply their understanding of communication research and principles to personal, professional, and community relationships and concerns.

The department encourages students to tailor their programs of study to meet their own interests. Majors select from one of three areas of concentration: Performance Communication, Interpersonal and Organizational Communication, or Public and Cultural Communication.

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

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

ORI 2000 Introduction to Communication as Performance

SPC 3301 Interpersonal Communication

SPC 2541 Persuasion

### III. Area of Concentration (9 hours)

Students must take a minimum of 9 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 12 additional hours of elective coursework in the Department of Communication at the 3000-level or higher, which must include at least 6 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

COM 2000 Introduction to Communication

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 settings with clients who require American Sign Language Interpretation 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 and a doctor of Audiology Degree is awarded.

## 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. PSY 1012 Psychological Science I	3
STA 2122 Social Science Statistics (or equivalent)	3
BSC 1085 Human Anatomy & Physiology I	3
BSC 1085L Human Anatomy & Physiology I Lab	1
or equivalent work such as:	

BSC 2093 Human Anatomy & Physiology I 3  
and  
PHY 2020 Conceptual Physics 3

II. 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.

III. 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, students should complete general education requirements, 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. Recommended prerequisites**

Required Courses:

BSC 2085 Human Anatomy and Physiology I  
BSC 2085L Human Anatomy and Physiology I Lab  
or  
BSC 2093 Human Anatomy & Physiology I  
PHY 2020 Conceptual Physics  
PSY 2012 Introduction to Psychological Science  
or equivalent

**C. Speech--Language--Hearing Concentration (LSH) (min. 48 credit hours)**

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 3112 (3)	SPA 4222 (3)
SPA 3004 (3)	SPA 3310 (3)	SPA 4555 (3)
SPA 3011 (3)	SPA 4050 (3)	SPA 4632 (3)
SPA 3030 (3)	SPA 4201 (3)	SPA 4930 (6)
SPA 3101 (3)	SPA 4210 (3)	STA 2122 (3)

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 credit hours)**

*New students are not being admitted to the DST Major for the 2008/2009 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 2612C (4)	SPA 3633 (3)
SPA 3004 (3)	SPA 2613C (4)	or
SPA 3030 (3)	SPA 4614C (4)	SPA 4632 (3)
SPA 3310 (3)	SPA 4617C (4)	
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 six categories of information and skills necessary for a career in Interpreting:

1. Role of the Interpreter in various settings
2. Working with deaf consumers of various backgrounds and/or having multiple disabilities
3. Cognitive Skills, Language Development and Translation Skills in ASL and English
4. Techniques and Applications of Interpreting
5. Professional Practices of the Interpreter
6. Internship

Students wishing to enter the ITT major must successfully complete SPA 2612C, SPA 2613C, SPA 4614C and SPA 4615C (or the lower level equivalent courses at the community colleges) with a grade point average for these four courses of 3.0 or higher. The specific course of study for the ITT concentration assumes that the student has completed the language proficiency prerequisites in American Sign Language. 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.

**Prerequisites for Admission**

SPA 2612C	Basic American Sign Language
SPA 2613C	Intermediate American Sign Language
SPA 4614C	Advanced American Sign Language
SPA 4615C	American Sign Language IV
SPA 4617C	Structure of Sign Language
SPA 3633	American Deaf Culture

The course of study includes:

EDF 3604 (3)	SPA 3004 (3)	SPA 4655 (2)
EEX 4070 (3)	SPA 3650 (3)	SPA 4656 (4)
ISS 3010 (3)	SPA 3664 (4)	SPA 4657 (4)
LIN 3010 (3)	SPA 3665 (4)	SPA 4658 (4)
SPA 3673 (3)	SPA 3666 (3)	SPA 4685 (4)
OR	SPA 4654 (2)	SPA 4691 (3)
SPA 3310 (3)		SPA 4962 (1)

Graduation within the ITT major also requires successful completion of a comprehensive practical exit examination and successful completion of the National Registry of Interpreters for the Deaf (NRID) written examination.

### 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 at the 3000 level. Courses that comprise the second year of the major or those at the 4000 level 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 must complete a minimum of 17-18 credits:

1. A minor must include these four courses:  
SPA 2612C Basic ASL  
SPA 2613C Intermediate ASL  
SPA 4614C Advanced ASL
2. SPA 4632 Nature and Needs of the Deaf and Hard of Hearing  
or  
SPA 3633 American Deaf Culture
3. SPA 4615C ASL IV  
or  
SPA 4617C - Structure of Sign Language
4. Students seeking a minor in ASL must complete 12 of the 17-18 credit hours at USF.
5. 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, juvenile justice 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:

1. Each of the following core courses:  
CCJ 3024 (3)\* CCJ 3610 (3)\*  
CCJ 3701 (3)\*\* CCJ 4934 (3)
2. 24 semester hours of electives within the major.

\*Students who plan to continue on to graduate school should also take CCJ 4700 as one of their electives within the major. Students must take CCJ 3610 prior to enrollment in CCJ 3701.

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. A student may take an unlimited amount of CCJ 4933 or 4934 as long as they vary in title.

These residency 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

A minimum of 18 hours is required of all Undergraduate minors in Criminology including:

1. The following two required courses:  
CCJ 3024 (3) CCJ 3610 (3)
2. An additional 12 semester hours of electives within Criminology.

Please note! Because all courses are programmed for majors only, each semester students will be required to obtain approval for all criminology courses with the exception of CCJ 3024. This can be accomplished by emailing the USF student ID number and reference numbers to the advising office. Upon receipt of the email, students will be registered for courses. 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  
ECOXXXX and ECOXXXX

#### 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)
- QMB 2100 Business and Economic Statistics I (3)
- QMB 3200 Business and Economics Statistics II (3)
- Economics electives numbered 3000 or higher (15)

ECP 3703, Managerial Economics (formerly ECO 3100), may be substituted for ECO 3101. Students may not take both for credit.

ECO 1000 (if taken before both ECO 2013 and ECO 2023) 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 ECP 3703 (formerly ECO 3100) in order to enroll in any course for which ECO 3101 or ECP 3703 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 of upper level credit 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 (may include QMB 3200) (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.

## 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. After completing 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 Undergraduate 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. The English Department does not accept Sign Language as a foreign language.

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:

- Two of the following:
  - AML 3031 American Literature to 1860
  - AML 3032 American Literature 1860-1912
  - AML 3051 American Literature 1912-1945
- 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
- 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 19th Century British Novel
- 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
- LIT 4930 Selected Topics in English Studies

**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 3630 U.S. Latino/Latina Literature in English
- AML 4261 Literature of the South
- AML 4300 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 3031 Survey of Poetry
- LIT 3043 Modern Drama
- LIT 3093 Contemporary Literature
- LIT 3144 Modern European Novel
- LIT 3374 Bible as Literature
- LIT 3410 Religious and Existential Themes
- LIT 3930 Special Topics in English Studies

- ENG 4013 Literary Criticism (Required for Literature majors)

**OPTION II: Creative Writing**

This 36-hour program 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.

- Writing Requirements: Five courses (15 hours) as follows:*

- CRW 3111 Form & Technique of Fiction
- 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 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.

- Literature Requirements: Seven courses (21 hours) as follows:*

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.

- Composition requirements: Five courses (15 hours) as follows:*

Five of the following:

- ENC 2210 Technical Writing
- ENC 3250 Professional Writing
- ENC 3310 Expository Writing
- ENC 4260 Advanced Technical Writing
- ENC 4311 Advanced Composition
- ENC 4931 Selected Topics in Professional and Technical Writing

- Literature requirements: Seven courses (21 hours) as follows:*

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.

### 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 accepted for the major with AML, CRW, ENC, ENG, ENL, LIN, or LIT prefix.*

### *Creative Writing Minor (15 hours)*

1. CRW 3111 Form & Technique of Fiction  
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:  
ENC 3250 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 select participants for 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 fall semester following admission to the program. Both courses should help the student in selecting a topic for his/her Honors thesis.

3. During the spring semester of the program, the Honors student will enroll for three thesis hours. The Director of the English Honors Program will serve as instructor of record for the thesis hours. Under the direction of the instructors of the Honors seminars and/or the Director of the English Honors Program, the student will choose a member of the English Department faculty to serve as director of his/her thesis and one or two additional faculty members to serve as readers of the thesis. The student must satisfy the following requirements:
  - a. Complete 9 hours of English Honors courses (ENG 4935, ENG 4936, ENG 4970) with a 3.0 GPA;
  - b. Complete all major requirements with a 3.3 GPA and academic course work with an overall GPA of 3.0;
  - c. Submit an acceptable thesis to the Departmental Honors committee before his/her graduation from the university.
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 from the program any student 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. Students completing the Bachelor of Science (B.S.) in Environmental Science and Policy have found employment with government agencies (city, county, state, and federal), private industry, and non-profit organizations. Examples of careers include field scientist, research scientist, policy analyst, lobbyist, conservationist, and educator. Some also go on to attend graduate or law school.

The 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 Department of Geography 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, one semester of calculus, 2 semesters each of general biology and general chemistry, environmental ethics, environmental politics and policy, statistics and physical science (either geology or physics). In addition, majors take 6-7 courses that allow them to sub-specialize in science or in policy. Students choosing to sub-specialize in science take a second semester 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 Department Advisor advises ESP majors. Unless stated otherwise, a grade of "C-" is the minimum acceptable grade.

## 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

and either

MAC 2241 Life Sciences Calculus II

4

or

MAC 2281 Engineering Calculus II

4

or

MAC 2311 Calculus II

3

A second semester of calculus is only required of students pursuing the ESP-Science concentration. Students may choose among:

MAC 2242 Life Sciences Calculus

4

or

MAC 2282 Engineering Calculus

4

or

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 six 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

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

EVR 4910 ESP Project

or

EVR 4940 ESP Internship

Calculus

MAC 2241 Life Science Calculus

or

MAC 2281 Engineering Calculus

or

MAC 2311 Calculus

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 2242 OR MAC 2282 OR MAC 2312 and CHM 2210 and CHM 2210L plus 4 approved science-related electives. 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 Program office for a current list of electives under this category. The Program is located in NES 200 or you may call (813) 974-0443.

## Requirements for the Minor in Environmental Policy

A total of 19-20 credits are required for the minor in Environmental 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

ECP 3302 Environmental Economics

(prerequisite: ECO 2023 Microeconomics)

POS 3697 Environmental Law

Plus one approved policy-related elective. Please contact the department office for a current list of electives under this category.

### • GEOGRAPHY (GPY)

The degree program in Geography consists of 11 courses (41 hours total), 7 of which are core courses required of all majors, and four of which are electives chosen by the student. Upper level electives offer applied and techniques orientations for students, depending on their interests, to complement the core course structure for the major.

Electives in physical geography focus on major environmental systems including the hydrosphere, atmosphere, geosphere, and biosphere. Particular emphasis is placed on the human modification of the natural environment and the global interconnections of the major earth systems.

Electives in human and urban geography focus 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.

Students are encouraged to seek assistance with the choice of electives through the department undergraduate advisor.

## 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.

Two introductory courses in Geography with GEO prefix must be completed:

GEO XXXX	3
GEO XXXX	3

### Major Course Requirements

A major in Geography consists of 11 courses as follows:

#### Required core courses (7 courses + lab):

GEO 2200	Intro to Physical Geography	(3)
GEO 2200L	Intro to Physical Geography Lab	(1)
GEO 2400	Intro to Human Geography	(4)
GEO 3164C	Research Methods in Geography	(4)
GEO 4933	Geography Colloquium	(1)
GIS 3006	Computer Cartography	(4)
GIS 4043C	Geographic Information Systems	(4)
GEA XXXX	One course with GEA prefix	(4)

Choose from:

GEA 2000	World Regional Geography
GEA 3194	Regional Geography
GEA 3405	Geography of Latin America
GEA 3500	Geography of Europe
GEA 3703	Geography of Asia

### Supporting Courses (4 courses):

With the help of their advisor, majors must select 4 courses (or 16 credits) from among the following list for their additional course work:

GEO 3602	Urban Geography	(4)
GEO 4114C	Geographic Techniques & Methodology	(4)
GEO 4204C	Topics in Physical Geography	(4)
GEO 4210	Process Geomorphology	(4)
GEO 4244	Tropical Meteorology	(4)
GEO 4265	Soil Genesis and Classification	(4)
GEO 4280C	Hydrology	(4)
GEO 4284	Water Resources Management	(4)
GEO 4300	Biogeography	(4)
GEO 4340	Natural Hazards	(4)
GEO 4372	Global Conservation	(4)
GEO 4421	Cultural Geography	(4)
GEO 4471	Political Geography	(4)
GEO 4502	Economic Geography	(4)
GEO 4604	Topics in Urban Geography	(4)
GEO 4700	Transportation Geography	(4)
GEO 4930	Selected Topics	(4)
GIS 4035C	Remote Sensing of the Environment	(4)
MET 4002	Climatology	(4)
MET 4010C	Meteorology	(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)

### Minimum Requirements for Major

Students must earn a C- or better in all major course work. D and F grades earned in major course work will be used in calculating the major GPA, except where removed by grade forgiveness. Students must maintain a minimum 2.0 major GPA in order to graduate.

## Requirements for the Minor in Geography

A minor in Geography consists of 20 credit hours, with a minimum grade-point average of 2.0. The required courses are:

GEO 2200 (3)	GEO 2200L (1)	GEO 2400 (4)
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One GEA elective (4) and two upper level (3000-5000 level) GEO, GIS, MET or URP electives (8).

Students may not apply upper level Geography electives to the Geography minor if these electives are being used to satisfy their requirements in another major.

## • 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, petrology, volcanology and geoscience education.

### 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)

1. Geology courses (38 hours):
  - a. Introductory Sequence\* (4 hours):
    - 1) One course chosen from GLY 2000, GLY 2010, GLY 2030, GLY 2100, and OCE 2001 (3)
    - 2) GLY 2000L (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 2000L, 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 3402C 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 (6 hours):
    - GLY 4866 Computational Geology (3)
    - GLY 4921 Geocommunications (3)
2. 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 2000, GLY 2100, GLY 2010, GLY 2030, and OCE 2001 (3)
    - 2) GLY 2000L (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 2000L, 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 3402C 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 4866 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 School of Aging Studies, the academic home of the gerontology programs, 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 School of Aging Studies 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 School of Aging Studies also hosts the university-wide Ph.D. in Aging Studies, and offers 4 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 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 21 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:

- GEY 3601 Physical Changes and Aging (3)
- GEY 4327 Understanding Policies and Practices of Long Term Care (3)
- GEY 4328 Health Care Operations (3)
- GEY 4329 Regulatory and Clinical Operations (3)
- GEY 4608 Alzheimer's Disease Management (3)
- GEY 4641 Death and Dying (3)
- GEY 4945 Field Placement (9)
- GEY 4340 Retirement and LTC Housing for the Elderly (3)
- MAN 3025 Principles of Management (3)
- MAN 3301 Human Resource Management (3)
- ISM 3011 Information Systems in Organizations (3)

### Recommended Electives:

- GEY 3625 Sociocultural Aspects (3)
- GEY 4360 Gerontological Counseling (3)
- GEY 4628 Race, Ethnicity and Aging (3)
- MAR 3023 Basic Marketing (3)
- BUL 3320 Law and Business (3)
- MAN 3240 Organizational Behavior Analysis (3)

Students also complete the following twelve (12) hours of prerequisites: ACG 2021, ACG 2071, CGS 2100, and GEY 2000.

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 School of Aging Studies 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)
- 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 3011 Globalization (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 3011 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 in the Tampa Bay area are available to provide students with real-world experience while earning credits in the major. Also, USF is affiliated with The Washington Center, an internship program in the nation's capital.

### 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 3011 Globalization (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 credit hours)**

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 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 5086 (3)

**Field IV American National and State Governments**

POS 2080 (3) POS 3453 (3) POS 5094 (3)  
POS 2112 (3) POS 4204 (3) PUP 4323 (3)  
POS 3173 (3) POS 4413 (3)  
POS 3182 (3) POS 4424 (3)

**Field V Urban Government and Politics**

POS 3142 (3) POS 5155 (3) URP 4050 (3)

**Field VI Public Policy**

INR 3102 (3) PUP 4203 (3) PUP 5607 (3)  
PUP 4002 (3) PUP 4323 (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**

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 thesis 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.

**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 Pre-Law Plan is available to students of all majors. The courses making up the field are of particular interest to law-oriented students, but may be taken by others as well. Those following the pre-law plan are recommended 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 undergraduate 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 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 Expository 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 4712 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 5044 Environment of Public Administration

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.

**Requirements for the Minor in Public Administration**

The minor in Public Administration consists of 15 credit hours.

**Required Public Administration Courses (12 cr. hrs.)**

PAD 3003 Introduction to Public Administration (3)

PAD 4204 Public Financial Administration (3)

PAD 4419 Personnel and Supervision for Today's Organizations (3)

PAD 4712 Managing Information Resources in the Public Sector (3)

**Public Administration Electives (3)**

PAD 4930 Selected Topics in Public Administration and Public Policy

PAD 5605 Administrative Law and Regulation

PAD 5807 Urban and Local Government Administration

PAD 5159 Urban Policy Analysis

PAD 5044 Environment of Public Administration

PAD 5853 Comparative Public Administration

PAD 5035 Issues in Public Administration and Public Policy

PUP 4002 Public Policy

**• HISTORY (HTY)**

The discipline of history embraces a diverse world of ideas, peoples, and events. Our faculty seeks 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 our students to move beyond traditional memorization of material to a critical level of thinking, analysis, and synthesis. Accomplished history majors are attractive to all kinds of employers in any number of fields, as well as to graduate and professional schools. USF history alumni can be found in such diverse professions as law, medicine, business, government, foreign service, politics, and education.

**Requirements for the Major in History**

A minimum of 36 semester hours is required for a major in history. A minimum grade of "C" or better must be attained in each course counted toward the 36-hour requirement. However, grades of "D" or "F" in history coursework will be used in calculating the major GPA unless the course is retaken under the grade forgiveness policy.

**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. Specific state mandated common prerequisites for admission to the major include six (6) hours of introductory history courses with AMH, EUH, LAH, ASH, HIS or WOH prefixes.

#### Lower-level Course Requirements for the Major

In addition to the six credits of courses to meet the common prerequisites students must complete a minimum of 12 hours of 2000 level courses, or their equivalent, to meet the lower level requirements of the major. Two of these courses must be sequential. Students may choose from introductory courses in the fields of Ancient, Medieval, Modern European, or American history to fulfill this two-course sequence. The remaining hourly requirements may be filled by taking any of the other 2000 level history courses.

Students at a community college planning to transfer to USF and major in history are encouraged to complete as many of the lower level requirements as possible at the community college level. Courses that fulfill the General Education/Gordon Rule requirement would be especially valuable. The minimum acceptable grade for courses being transferred for history department credit is a "C." If these courses have not been completed satisfactorily upon enrolling at USF, they must be taken before the degree is granted.

#### Upper-level Course Requirements for the Major

A minimum of 24 hours of course work from the 3000-4000 level is required to fulfill the 36-hour minimum requirement. Two of these courses, the Pro-Seminar and the Theory of History courses are required for all majors. A GPA of 2.25 in the history major is required before a student can be permitted into either of these courses. Additionally, these courses may only be taken in the last two semesters prior to graduation and may not be taken during the same semester. The remaining 16 hours of credit may be chosen from the department offerings each semester. It is recommended that history majors take ENC 3310, "Expository Writing," SPC 2600, "Public Speaking," and LIS 2937, "Library/Internet Research Skills." Additional hours can be profitably drawn from the following disciplines: Africana Studies, American Studies, Anthropology, Classics, Economics, Geography, Government and International Affairs, Psychology, Philosophy, Religious Studies, 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 18-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. One lower-level sequence is required, earning 6 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 minor 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

- Two semester European sequence: HUM 2210 (Studies in Culture: the Ancient through the Medieval Periods) and HUM 2230 (Studies in Culture: the Renaissance through the Twentieth Century), 6 credit hours.
- Non-Western requirement: One 3000- or 4000-level HUM course, treating Latin American Culture, Native American Culture, Asian Humanities, or the American Southwest, 3 credit hours. (A course taken in fulfillment of this requirement cannot also be used in fulfillment of the "Core Curriculum" requirement.)
- 3000-level Core Curriculum: 3 courses focusing on major cultural periods of Europe, the United States, or Latin America, 9 credit hours.
- HUM 3331 (Themes in Humanities) (3 credit hours), and Hum 4931 (Seminar in Humanities) (4 credit hours), 7 credit hours. HUM 3331 is offered only in fall semester; HUM 4931 is offered only in spring semester.
- Other 3000- or 4000-level HUM courses, sufficient to bring total HUM credits to 33. (Creative/Performing Arts hours are NOT included in that total.)
- Creative or performing arts, one class, either lower or upper level, 3 credit hours.
- "C" or better in each Humanities course applied to the degree.

**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. AMS 2030 (Introduction to American Studies). 3 credits
2. 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.
3. One additional 3000-level **period** course (e.g. AMS 3230, AMS 3001, AMS 3260). 3-4 credits.
4. One 3000- or 4000-level **regions** or **genre** course (e.g. AMS 3210, AMS 3601, AMS 4152, PGY 3001). 3 or 4 credits.
5. AMS 4804 (Major Ideas in America). 3 credits.
6. One 4000-level Research Seminar (AMS 4935). 4 credits.
7. 6-8 additional AMS credit hours.
8. 9-10 additional credit hours of supporting courses (e.g., American Literature, American History) to be chosen in consultation with the undergraduate advisor.

**Requirements for the Minor in American Studies**

18 credit hours distributed as follows:

1. AMS 2030 (Introduction to American Studies). 3 credits.
2. One 2000-level survey course (AMS 2201, AMS 2212, AMS 2270). 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 SOCIAL SCIENCES (ISS)**

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

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

Community college courses may be counted toward the ISS degree. These could include General Education credits, Gordon Rule classes, and courses such as the examples listed below. A grade of "C" is the minimum acceptable grade.

AFA 2000 Introduction to the Black Experience [In Africa and Its Diaspora]	(3)
AMH 2010 American History I	(3)
AMH 2020 American History II	(3)
ANT 2000 Introduction to Anthropology	(3)
ECO 2013 Economic Principles (Macroeconomics)	(3)
ECO 2023 Economic Principles (Microeconomics)	(3)
GEA 2000 World Regional Geography	(4)
POS 2041 American National Government	(3)
POS 2112 State and Local Government	(3)
SYG 2000 Introduction to Sociology	(3)
WST X015 Introduction to 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 (STA 2122) is the third core course required for majors in Interdisciplinary Social Sciences.

**Coursework required for Interdisciplinary Social Sciences Majors**

1. 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)

2. The ISS student chooses between two cognate areas and completes twelve hours in each. 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 will automatically count toward the ISS degree.**
4. The completion of 42 approved hours of course work from the College of Arts and Sciences (CAS), with a minimum of 30 hours at the 3000 or above level.
5. Students must maintain a minimum grade point average of 2.0 in ISS to graduate.
6. ISS majors must satisfy two semesters of a foreign language in order to graduate.
7. Other personal curricula may be tailored for those highly motivated students, with a minimum grade point average of 3.2, developed with the approval of the advisor. This course of study will be directed toward the special educational interests of these students. An in-depth Honors Research Paper will be required of students taking this option.

**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:

Africana Studies, American Studies, Anthropology, Communication Sciences and Disorders, Criminology, Economics, Environmental Science and Policy, Gerontology, Geography, History, Humanities, International Studies, Interpreter Training, Latin American Studies, Library and Information Science, Multidisciplinary Behavioral Healthcare, Political Science, Psychology, Public Administration, Religious Studies, Social Work, Sociology, Woman's Studies.

## • 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.

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 Graduate and Undergraduate Studies in BEH 201.

## • Library and Information Science (LIS)

The School of Library and Information Science offers undergraduate courses 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 courses that will prepare them to access and evaluate these information resources. Topics taught in these courses include using the modern, electronic library and the Internet to meet academic, professional, and personal information needs, and designing websites that meet professional standards.

The School's faculty will advise 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 a minimum of 30 hours (including at least 15 semester hours for which grades and a grade point average have been awarded) with a 2.75 minimum

Overall Grade Point Average, including 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.

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

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

MMC 3602 Mass Communications and Society (3)

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

Complete a minimum of 45 semester hours including all General Education requirements and six hours of English composition (with a minimum grade of "C"), earn a 2.75 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 3008 Introduction to Advertising

ADV 3101 Advertising Creativity

ADV 3300 Advertising Media Strategy

ADV 3500 Advertising Research

ADV 4600 Advertising Management

ADV 4800 Advertising Campaigns

or

ADV 4940 Advertising Practicum

MMC 4200 Communications Law

MMC 4936 Selected Topics in Mass Communication Studies\*

or

MMC 4203 Media Ethics

**Sequence Specialization Courses** (two courses within specialization)

Creative Specialization (two courses)

ADV 4204 Advance Advertising Creativity (required)

ADV 4710 Portfolio Building

or

MMC 4936 Selected Topics in Mass Communications Studies\*

Media Specialization (two courses)

ADV 4301 Advanced Media Strategy (required)

ADV 4310 Digital Media

or

MMC 4936 Selected Topics in Mass Communications Studies\*

**Selective Requirements** (one course)

JOU 2100 Beginning Reporting

PUR 3000 Principles of Public Relations

RTV 3001 Introduction to Telecommunications

MMC 4936 Selected Topics in Mass Communications Studies\*

\*Please see the academic advisor for appropriate selected topics courses.

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

ECO 1000 Basic Economics

MAR 3023 Basic Marketing

**2. JOURNALISM Requirements**

News-Editorial Option

JOU 2100 Beginning Reporting

JOU 3101 Advanced Reporting

JOU 4181 Public Affairs Reporting

JOU 4201 News Editing I

MMC 4200 Communications Law

MMC 4203 Communication 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 &amp; Government

**and**

SYG 2010 Contemporary Social Problems

Magazine Option

JOU 2100 Beginning Reporting

JOU 3101 Advanced Reporting

JOU 3308 Magazine Article and Feature Writing

JOU 4201 News Editing I

JOU 4212 Magazine Design and Production

MMC 4200 Communications Law

MMC 4203 Communication 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

Visual Communications Option

JOU 2100 Beginning Reporting

JOU 4201 News Editing I

JOU 4206 Newspaper and News Publication Design

MMC 4200 Communications Law

MMC 4203 Communication 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

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

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

An advisor-approved 6-hour concentration

**or**

ECO 1000 Basic Economics

SYG 2010 Contemporary Social Problems

**3. PUBLIC RELATIONS Requirements**

ADV 3008 Introduction to Advertising

JOU 2100 Beginning Reporting

MMC 4200 Communications Law

**or**

MMC 4203 Communication Ethics

PUR 3000 Principles of Public Relations

PUR 3500 Public Relations Research

PUR 4100 Writing for Public Relations

PUR 4101 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 2005 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 4181 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 and Management

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 and STATISTICS (MTH/STC)

The Department of Mathematics and Statistics offers a diversity of courses designed not only to enable the student to pursue professions in mathematics and statistics, 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 programs emphasize the broad nature of modern mathematics and statistics and its close associations with the real world. The programs are designed to prepare students for entry into graduate school or careers in industry or secondary education.

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

### Minimum Grade Requirements

In general, grades of C- or better are required for courses in the mathematics major and minor and in the statistics major. However, C- is not an acceptable grade for any course that is being used as a prerequisite for a follow-on course. For these courses a grade of C (2.00 grade points) or better is required.

### 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.

## 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.

- COPXXXX Computer Language Course  
(Pascal, FORTRAN, C, C+, or C++)
- MACX311 Calculus I
- MACX312 Calculus II
- MACX313 Calculus III

Students must also complete two laboratory based science courses, 4-8 semester hours total, from the respective science majors: Biology, Chemistry, 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 that 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 credit hours):

- 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):

- 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)
- MAP 2302 Differential Equations (3)
- MAS 4156 Vector Calculus (4)
- MAS 4301 Elementary Abstract Algebra (3)
- MAT 4970 Mathematics Senior Thesis (3)
- MHF 4403 Early History of Mathematics (3)
- MHF 4406 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.

Majors who complete both MHF 4403 and MHF 4406 may count only one of these towards the Elective Requirement above.

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 STA 4321.

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 USF 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 credit hours):

**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 that are required or elective for the major in mathematics.

**Requirements for the Major in Statistics****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.

COPXXXX Computer Language Course  
(Pascal, FORTRAN, C, C+, or C++)

MACX311 Calculus I

MACX312 Calculus II

Students must also complete one laboratory based science course from the following:

- |                |     |
|----------------|-----|
| BSC XXXX/XXXXL | (4) |
| CHM XXXX/XXXXL | (4) |
| PHY XXXX/XXXXL | (4) |

**MAJOR IN STATISTICS**

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 that are appropriate for the student's interests and goals.

**Statistics Requirements (Minimum 45 credit hours)**

**Core Requirement.** Majors must complete the following five courses (Min. 19 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

- |          |                                      |  |
|----------|--------------------------------------|--|
| COP 4313 | Symbolic Computations in Mathematics |  |
|----------|--------------------------------------|--|

(3)

OR

- |          |                          |     |
|----------|--------------------------|-----|
| STA XXXX | Computational Statistics | (4) |
|----------|--------------------------|-----|

Plus completion of one of the three lab-based science courses below

- |                |     |
|----------------|-----|
| BSC XXXX/XXXXL | (4) |
| CHM XXXX/XXXXL | (4) |
| PHY XXXX/XXXXL | (4) |

**Required Courses (13 cr. hrs.):**

- |          |                             |     |
|----------|-----------------------------|-----|
| STA 2023 | Introductory Statistics I   | (4) |
| STA 3024 | Introductory Statistics II  | (3) |
| STA 4321 | Essentials of Statistics    | (3) |
| STA 4442 | Introduction to Probability | (3) |

**Elective Requirement:** Majors must complete four courses from the following electives (Min. 12 cr. hrs.):

STA 4222	Sample Survey Design	(3)
STA 4502	Nonparametric Statistical Methods	(3)
STA 4504	Categorical Data Analysis	(3)
STA 4702	Multivariate Statistical Methods	(3)
STA 4821	Stochastic Processes	(3)
MAP 2302	Differential Equations	(3)
MAS 3105	Linear Algebra	(4)
MAT 4930	History of Statistics	(3)

### Special Notes.

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

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

## • 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 33 credit hours comprised of the following:

- PHH 3062 History of Western Philosophy: Ancient Philosophy
- Two of the following three courses
  - PHH 3280 Medieval and Renaissance Philosophy
  - PHH 3420 Early Modern Philosophy
  - PHH 3442 Late Modern Philosophy
- PHI 2101 Introduction to Formal Logic
- PHI 4670 Contemporary Ethical Theory
- Two of the following three courses
  - PHI 4300 Theory of Knowledge
  - PHI 3404 Philosophy of Science
  - PHI 4320 Philosophy of Mind
- 9 credit hours of Philosophy electives, of which 6 must be at the 4000 or 5000 level
- PHI 4938 Philosophy Capstone Seminar

Two additional stipulations apply:

- Minimum passing grade requirement.** No grade below C- in any required philosophy course or philosophy elective may count toward the major;
- Beginning Fall 2010: Residency Requirement.** No more than six hours of philosophy electives and three hours of

required philosophy coursework taken at institutions other than USF may count toward the major.

### 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 Western Philosophy: Ancient Philosophy
  - One of the following three courses:
    - PHH 3280 Medieval and Renaissance Philosophy
    - PHH 3420 Early Modern Philosophy
    - PHH 3442 Late Modern Philosophy
  - PHI 4670 Contemporary Ethical Theory
    - or
    - PHP 3786 Existentialism
    - or
    - PHI 4320 Philosophy of Mind
  - PHI 2101 Introduction to Formal Logic
    - or
    - PHI 3404 Philosophy of Science
  - 6 credit hours of Philosophy electives
- 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 and to write and defend an undergraduate thesis.

#### Admission Criteria:

- Students must already have declared a major in Philosophy.
- Students must complete 9 hours in Philosophy at the 3000 level or higher (PHI 2101 may count toward the 9 hours).
- 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 who wish to be considered for the Honors Program must request to be nominated by a member of the faculty. Once nominated by a faculty member, a majority of the faculty who have taught the student must approve the student's admission to the Honors Program.

#### Program Requirements:

In addition to completing the requirements for the Major in Philosophy, students must meet the following requirements.

- Students cannot receive a grade lower than a "B" in any Philosophy course, and their grade point average in Philosophy must be at least 3.5 to remain in, or be graduated from, the Honors Program.
- PHH 4440 Continental Philosophy
  - or
  - PHP 4784 Analytical Philosophy
  - or
  - PHP 3786 Existentialism
  - or
  - PHH 4700 American Philosophy
- Students must write a senior thesis and undergo an oral examination on the thesis before a committee of two Philosophy faculty members. Students will register for 3 hours in directed study in Philosophy (PHI 4905) for work on their thesis. Students who are in the Honors College may use the same project to count for both Philosophy Honors and an Honors College thesis. In such cases, the student shall not register for directed study in Philosophy (PHI 4905) as part of completing the thesis.
- Students must complete 36 credit hours in Philosophy.

## • 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 or Biomedical 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

It is recommended that students complete the following **common 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

##### 1. 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	(3)
PHY 3323 Electricity and Magnetism I	(3)
PHY 4222 Mechanics II	(3)
PHY 4930 Undergraduate Seminar	(1)
PHY 4324 Electricity and Magnetism II	(3)

PHY 4910 Undergraduate Research	(1-4)
PHY 4823L Advanced Laboratory	(3)
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	(3)
PHY 3323 Electricity and Magnetism I	(3)
PHY 4222 Mechanics II	(3)
PHY 4930 Undergraduate Seminar	(1)
PHY 4324C Electricity and Magnetism II	(3)
PHY 4523 Statistical Physics	(3)
PHY 4604 Intro. Quantum Mechanics	(3)
PHY 4910 Undergraduate Research	(1-4)
PHY 4823L Advanced Laboratory	(3)

Plus 6 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)

##### 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)

#### Elective Courses (Pick from list below) (8 credit hours)

PHY 3221 Mechanics I	(3)
PHY 3323 Electricity and Magnetism I	(3)

or Physics electives subject to approval of undergraduate advisor.

#### Required Supporting Courses

Correct prerequisites for any course required.

A "C-" is the minimum acceptable grade for any course in the minor.

A minimum "C" (2.0) average in the 19 credit hours is required for obtaining this minor.

### Requirements for the Minor in Biomedical Physics

A minor in Biomedical Physics consists of 16 credit hours which includes:

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)
PHZ 4702 Appl of Phy to Bio. & Medicine I		(4)
PHZ 4703 Appl of Phy to Bio. & Medicine II		(4)

This minor combines fundamental knowledge of physics acquired through the General Physics lectures and laboratories to applications that cover a wide spectrum of topics of interest to students pursuing a future clinical or research career in the areas of biology, medicine, biophysics, and other related areas.

A "C-" is the minimum acceptable grade for any course in the minor. A minimum "C" (2.0) average in the 16 credit hours is required for obtaining this minor.

### 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 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 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 state-approved **prerequisite courses** 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. To be admitted to the major in Psychology, a student must complete all of the course prerequisites.

PSY X012 Introduction to Psychology **and** any other lower level Psychology course within the Psychology inventory  
STAXXXX Any level Statistics course (X000 - X099)  
BSCXXXX Any level General Biology course (**or** BSC X200-X209, **or** ZOO X010)

Once admitted to the major, continuation in the major requires successful completion of PSY X012 Introduction to Psychology, PSY 3204 Psychological Statistics (or another approved Statistics course), and PSY 3213 Research Methods in Psychology, with at least a grade of C (not C-) and have a grade point average for those three courses of 2.5 or higher.

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 3204 (or other qualifying statistics course) 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:

#### Requirements for Psychology Majors

- 2000/3000 Level Requirement (6 semester hours)  
PSY 2012 Introduction to Psychological Science (if not already taken at a community college)  
PSY 3204 Psychological Statistics
- Methods Course Requirement (7 semester hours)  
PSY 3213 Research Methods in Psychology  
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.
- 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 4004C Physiological Psychology  
EXP 4304 Motivation  
EXP 4680C Cognitive Psychology

#### Group II

CLP 4143 Abnormal Psychology  
INP 4004 Industrial Psychology  
SOP 4004 Social Psychology  
DEP 4053 Developmental Psychology  
PPE 4003 Personality

and any 3 additional courses numbered at the upper-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.

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 3204 (or other qualifying statistics course) 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 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, and any four upper-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.

### Psychology Honors Program

The purpose of the Honors Program is to provide a select group of qualified 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) Five Year Masters Program

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. An undergraduate major is not required. Students admitted through the five-year program (REF) must have completed 90 semester hours of work and have satisfied General Education, CLAST, and Rule 6A-10.30 (Gordon Rule) requirements. Minimum admission requirements include a "B" average or above 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](http://www.cas.usf.edu/rehab_counseling/index.html).

Undergraduates interested in the five-year program (REF) should contact the department at the start of their sophomore year. Applications for the five-year program are available from the Department. GRE scores and three letters of recommendation must be received before any application is processed.

### 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.

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 also meet Florida's educational standards for licensure as a Clinical Mental Health Counselor. The Department offers four graduate certificate programs: (1) Addictions and Substance Abuse Counseling; (2) Marriage and Family Therapy; and (3) Rehabilitation Technology; (4) Certificate in Rehabilitation Counseling (CIRT). Each student may elect to pursue a program of specialization in either area. The Addictions and Substance Abuse Counseling program is approved by the Certification Board for Addictions Professionals of Florida (CBAPF Approved Provider #179A). Several courses within the program do have prerequisites. Please contact the department at (813) 974-2855 for specific details about these requirements.

## • 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*

1. One of the following (only one will count toward Religious Studies requirements)
  - a. REL 2300 Introduction to World Religions (4)
  - b. REL 2306 Contemporary World Religions (4)
  - c. REL 3308 World Religions (3)
2. REL 3003 Introduction to Religious Studies (4)
3. REL 3014 Introduction to Major Religious Texts (3)
4. REL 4931 Seminar in Religion (3)
5. Major must complete 22 or 23 additional credit hours that satisfy the following requirements:
  - a. Take at least one course from each of the areas (Western Religions, Non-Western Religions, and Issues and Approaches)
  - b. Take at least 18 credit hours at the 3000/4000 level, of which a minimum of 9 must be at the 4000 level
  - c. Earn at least a "C-" for courses to count toward the major.

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 USF. This will be decided as soon as the student becomes a major in the Department of Religious Studies at USF.

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.

For purposes of the major requirement, religion courses are divided into the following three (3) areas:

Western traditions (primarily Judaism, Christianity, and Islam)  
REL 2210, 2240, 3120, 3131, 3132, 3280, 3303, 3363, 3367, 3500 3561, 3602, 3607, 3611, 3613, 3936, 4133, 4171, 4215, 4217, 4245, 4250, 4252, 4626, 4670, 4930

Non-Western traditions (Religious traditions other than those other Western Tradition)  
REL 3000, 3318, 3330, 3380, 3936, 4333, 4343, 4344, 4930

#### Issues and Approaches

REL 3101, 3111, 3114, 3116, 3117, 3140, 3145, 3146, 3170, 3191, 3335, 3375, 3391, 3420, 3465, 3801, 4113, 4161, 4218, 4193, 4177, 4930, 4939

Variable Credit Courses (Students are limited to six (credit) hrs of the following courses)  
REL 3900, 4910, 4911, 4936, 4937, 4938

### 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 (4)
- b. REL 3014 Introduction to Major Religious Texts (3)
- c. An additional 11 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.

### Requirements for the Honors Program in Religious Studies

The purpose of the Honors Program in Religious Studies is to provide outstanding undergraduates with advanced and individualized learning opportunities in Religious Studies and their areas of special interest in this field. In addition it will serve to facilitate more direct contact between students in the program and their faculty mentors. In this program, students who have demonstrated significant academic achievement will inquire into issues and questions in the study of religion at an advanced level under the guidance of faculty members with demonstrated expertise in their fields of study and a strong commitment to teaching. Upon completion of the program, the student's transcript will state that the student graduated with Honors in Religious Studies. Application to the program should be submitted during a student's Junior year. The Honors Committee will review all applicants before selecting no more than 10 individuals for the Honors Programs. Inductees will be notified of their admission to the Honors Program in the Spring term. Honors Program students are exempt from Sr. Seminar (REL 4931) contingent on their completion of the Honors Program. If students do not complete the Honors Program, they are required to complete Sr. Seminar in order to satisfy degree requirements.

Admissions Criteria:

1. Religious Studies majors who have completed at least 70 (and preferably less than 90) hours of course work with an overall GPA of at least 3.25.
2. Completion of REL 3003 Introduction to Religion and at least 12 additional hours of course work in the department of Religious Studies with a GPA of at least 3.5 in the major.
3. A letter of recommendation from a Religious Studies faculty member who is familiar with the applicant's work.
4. A statement from a Religious Studies faculty member expressing her/his willingness to serve as chair of the applicant's thesis committee.
5. A short essay (2-3) pages by the applicant that includes the following: (a) a statement of the applicant's qualifications for the program, (b) the applicant's area(s) of special interest, (c) an explanation of how the program will benefit from the applicant's inclusion in the program, and (d) the applicant's post-graduate plans.

Requirements for Completion of the Departmental Honors

1. Completion of the requirements for a Religious Studies major with a GPA of 3.5 or higher in the major.
2. Completion of a USF degree with an overall GPA of 3.25 or higher.
3. Completion of 5 credit hours of "Honors Seminar." Honors students will take the seminar for 3 credit hours in the Fall and 2 credit hours in the Spring.
4. Completion of 5 credit hours of Thesis/Directed Research for 2 credit hours in the Fall and 3 credit hours in the Spring. Honors students must also complete and present their Honors thesis in the second semester of their Senior year. Students who do not complete this requirement may, upon

the recommendation of their major instructor and the Department Honors Program Coordinator, be allowed to continue in special circumstances.

#### Required Courses for the Minor:

- REL 4911 Undergraduate Research (Honors Thesis) (2)
- REL 4911 Undergraduate Research (Honors Thesis) (3)
- REL 4937 Selected Topics: Fall Honors Seminar (3)
- REL 4938 Selected Topics: Spring Honors Seminar (2)

### • 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 during enrollment in either SOW 3203 or SOW 3210.

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.

A student must maintain a GPA of 2.75 minimum in social work courses while enrolled in the program and demonstrate behaviors that are congruent with professional standards and values as described above in order to proceed in the major. Any student who fails to maintain at least a 2.75 GPA in the social work major and/or demonstrates behaviors that are incongruent with the standards and values of the profession may not proceed in the major.

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 "C-" grade or below in any SOW core courses, even if the student's GPA is 2.75 or above with the inclusion of the a "C-" grade of below.

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 3203, "Introduction to Social Work" and SOW 3210, "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 may 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.

**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

XXXXXXX	American Government (American National Government or American Government)	
	or	
	Introduction to Public Policy	(3)
XXXXXXX	Biology (Human Biology or Anatomy & Physiology)	(3)
ECXXXXX	Economics (Microeconomics or Macroeconomics or Introduction to Economics)	(3)
XXXXXXX	Introductory Psychology	(3)
XXXXXXX	Introductory Sociology/Social Problems	(3)

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 3203 Introduction to Social Work and SOW 3210 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.

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

**Economics:**

ECO 1000	Basic Economics	(3)
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**Psychology:**

PSY 2012	Psychological Science I	(3)
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**Sociology:**

SYG 2000	Introduction to Sociology	(3)
SYG 2010	Contemporary Social Problems	(3)
SYD 4800	Gender and Society	(3)
SYO 3530	Social Inequalities in a Global Society	(3)
SYP 3000	Social Psychology	(3)
SYP 4510	Sociological Aspects of Deviance	(3)

**Foundation Courses (F\*) for 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 [In Africa and Its Diaspora]	(3)
AFA 4333	African Diaspora: Blacks in the Construction of the Americas	(3)
AFA 4335	Black Women in America	(3)
AFS 2250	Culture and Society in Africa	(3)
AMS 3700	Racism in American Society	(3)

**Anthropology:**

ANT 2000	Introduction to Anthropology	(3)
ANT 2410	Cultural Anthropology	(3)

ANT 3005	The Anthropological Perspective	(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:**

AMH 3561	American Women I	(4)
AMH 3562	American Women II	(4)
LIT 3383	The Image of Women in Literature	(3)
PUP 4323	Women and Politics	(3)
SOP 3742	Psychology of Women	(3)
WST 3015	Introduction to Women's Studies	(3)
WST 3311	Issues in Feminism	(3)
WST 4262	Literature by American Women of Color	(3)
WST 4410	Third World Women Writers	(3)

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

SOW 3210	American Social Welfare System	(3)
SOW 3203	Introduction to Social Work	(3)

**Social Work Core Courses**

1. Human Behavior and Social Environment Courses  
SOW 3101 (4) SOW 3102 (3) SOW 4522 (3)
2. Social Welfare: Policy & Program Course  
SOW 4233 (3)
3. Social Research Course  
SOW 3401 (3)
4. Social Work Practice Courses  
SOW 4341 (5) SOW 4343 (5) SOW 4930 (3)
5. Field Experience  
SOW 4510 (3) SOW 4510L (6)

**Summary:**

Core Courses	29 hours
Field Experience	9 hours
<b>TOTAL</b>	<b>38 hours</b>

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

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

Students should complete two lower level courses with the prefixes of SYA, SYD, SYG, SYO or SYP 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 specific 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)

### 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 3110 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 courses offered by the Sociology department. No more than three hours of SYA4910, Individual Research, and SYA 4949, Sociological Internship, 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 3110 Classical Theory. No more than three hours of SYA 4910 "Individual Research" may count toward the 18 hour minimum. 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

Through the Undergraduate Honors Program, the Department of Sociology provides its outstanding students with opportunities to work closely with faculty and graduate students with shared interests in specific areas of social experience. Students accepted into the program select a faculty mentor with expertise in the area of study of interest to the student. Under the supervision of this mentor, honors students conduct sociological research in their area of interest culminating in the preparation of an honors thesis. Students apply to the Honors Program in the Spring Semester during their junior year for admission for the following Fall. Admission to the program is

competitive. Meeting minimum requirements does not guarantee admission.

Minimum Eligibility Requirements:

1. Junior standing.
2. 12 semester hours of sociology course work with a major GPA of 3.0 by the end of the semester in which application is made.
3. Overall USF GPA of 3.00 or higher.
4. Selection and approval of faculty mentor.

Completion Requirements:

1. Completion of all requirements for the major.
2. Completion of at least one upper level elective relevant to the thesis (course must be approved by faculty mentor).
3. USF overall and major GPA of at least 3.00.
4. Successful completion of the Honors Seminar.
5. Successful completion of the Honors Thesis (SYA 4910 and the thesis itself).

Applications for the Undergraduate Honors Program in Sociology are available in the Sociology Department (CPR 209).

### • 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, a concentration in Women of Color Studies, and a certificate in Women's Spirituality. 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:

- I. 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 <b>OR</b>             |     |
| WST 4262 Literature by Women of Color in the Diaspora | (3) |
- II. Select 21 credit hours from the following list, noting prerequisites where applicable:
- |   |     |
|---|-----|
| ANT 4302 Gender in Crosscultural Perspective                | (3) |
| 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 3412 Women in the Developing World                      | (3) |
| WST 3440 Women and Social Action                            | (3) |
| WST 3620 Men and Sexism                                     | (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 The Politics of Women's Health                     | (3) |
| WST 4350 Women and Science                                  | (3) |
| WST 4561 Contemporary Feminist Theory                       | (3) |
| PHI 4632 Feminist Ethics                                    | (3) |
| POS 4693 Women and Law I                                    | (3) |
| POS 4694 Women and Law II                                   | (3) |
| SYD 4800 Gender and Society                                 | (3) |
| WST 4900 Directed Readings                                  |     |
| WST 4910 Directed Research                                  |     |
| WST 4930 Selected Topics                                    |     |
| <i>(Limited to 6 credits from the following courses)</i>    |     |
| 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) |
| LIT 3383 The Image of Women in Literature                   | (3) |
| PUP 4323 Women and Politics                                 | (3) |
| REL 3145 Women and Religion                                 | (3) |
| SOP 3742 Psychology of Women                                | (3) |
| 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.

### 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 Women of Color in the Diaspora | (3)   |
| WST 3412 Women in the Developing World                | (3)   |
| WST 4410 Third World Women Writers                    | (3)   |

## • WORLD LANGUAGES

The Department of World Languages 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)

Classics at the University of South Florida is a language-based, interdisciplinary humanities field. We provide instruction in the Greek and Latin languages, and translation courses that focus on the study of Greek and Roman civilization, literature, mythology, philosophy, and religion.

Comprised of 5 faculty members who specialize in widely diverse aspects of the Greek and Roman world (such as Greek tragedy and philosophy, Roman epic and historiography) our department combines the intimacy of a small liberal arts college with the wide-ranging educational interests of a large state university.

Our 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 that focuses on the ancient civilizations that 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

#### • Requirements for the Major in Classics

All students who wish to enroll in the Classics Major must schedule an appointment with the Advisor.

#### • General Requirements for the Major

The Classics Major requires 10 courses and 30 hours, which are divided between language and civilization requirements.

- Language requirements

Majors are required to take at least four successive courses in a single language, Latin or Ancient Greek (LAT, LNW, GRE, GRW).

- Civilization Requirements

Majors are required to take six upper-level civilization courses, including the core courses offered by Classics: Greek Civilization, Roman Civilization, Classical Mythology, Greek Literature in Translation, and Roman Civilization in Translation.

Major credits can also be fulfilled through appropriate courses offered by the Departments of History, Humanities, Religion, and Philosophy, etc., but only with the approval of the Advisor.

### Requirements for the Minor in Classics

- General Requirements

The Classics Minor requires 5 courses and 15 hours, which are divided between language and civilization requirements.

- Language requirements

Minors are required to take at least two successive courses in a single language, Latin or Ancient Greek (LAT, LNW, GRE, GRW).

- Civilization Requirements

Majors are required to take three of the upper level civilization courses offered by Classics: Greek Civilization, Roman Civilization, Classical Mythology, Greek Literature in Translation, and Roman Civilization in Translation.

### Honors Program

To graduate with Honors in Classics, the successful candidate must apply in the junior year, and complete special requirements during the senior year.

To apply, the candidate must schedule an appointment with the Advisor and a Thesis Director chosen by the candidate.

### Admissions Criteria

1. Senior status, with a departmental and overall GPA of 3.5.
2. Completion of the core courses in Classics.
3. An appropriate project accepted by a faculty member of Classics who agrees to serve as Thesis Director.

### Requirements for Completion of Departmental Honors:

1. The candidate must maintain a departmental and overall GPA of 3.5.
2. The candidate must pass two (2) sight translations in either Greek or Latin (passages to be determined by the Thesis Director and the candidate.)
3. The candidate must turn in the completed thesis (thirty to fifty pages, at the discretion of the Thesis Director) before April of the senior year, and defend the thesis before a committee of at least three faculty members by May of the senior year. (Committee members to be chosen by the candidate and Thesis Director.)

### 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 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.

Language Requirement: The BA language requirement should be fulfilled by the two-semester sequence in either Greek or Latin (GRE 1120 & 1121 or LAT 1120 & 1121). One semester of intermediate level Greek or Latin (GRE 2200 or LAT 2200) is required by State mandate.

The ICC Major can be fulfilled in 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)
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 3370 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 3103 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 3370 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 hours) 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 3370 Classical Mythology (3)
2. 3-4 hours from 2000-3000 level courses in Anthropology, History, Philosophy and Religious Studies selected with the guidance and approval of the Coordinator.
3. 6-8 hours 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 hours) 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 3370 Classical Mythology (3)
2. 9-12 hours 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 without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

Students should demonstrate proficiency at the intermediate level within the target language. This may be accomplished by completing 6-12 hours within the language or by demonstrated competency at the intermediate level. If this coursework (or associated competency) is not completed at the community college, it must be completed before the degree is granted. 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.

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

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

#### • French (FRE)

*Required courses for the major (15 credit hours)*

FRE 3234 (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 3234 (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 (17 credit hours)*

GEW 4100 (3)	
GEW 4101 (3)	
GEW 4900 or FLE 4316 (2)	

9 hours of 3000, 4000, or 5000 level coursework in German

*Supporting courses required for the major*

15 hours in 2000-5000 level courses with coursework in German (taught in either German or English), including approved courses in related disciplines, planned with a advisor (max of 9 hours German taught in English).

*Required courses for the minor (9 credit hours)*

9 hours of 3000, 4000, or 5000 level coursework in German.

*Supporting courses required for the minor (6 credit hours)*

6 hours of 2000, 3000, 4000, or 5000 level with coursework in German (taught in either German or English, max. 3 hours taught in English, max 3 hours in 2000 level).

#### • Modern Greek (GRK)

*Required courses for the minor (16 credit hours)*

GRK 2220 (4)	GRK 4905 (4)
GRK 2221 (4)	GRK 4930 (4)

#### • Italian (ITA)

*Required courses for the major (15 credit hours)*

ITA 2240 (3)	ITT 3504 (3)	ITW 4100 (3)
ITA 3420 (3)	ITW 4101 (3)	

*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 (6 credit hours)*

ITA 2240 (3)	ITA 3420 (3)
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*Supporting courses required for the minor*

10 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)
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*Supporting courses required for the minor*

8 hours in 3000 or 4000 level courses.

#### • Spanish (SPA)

*Required courses for the major (18 credit hours)*

SPN 4301 (3)	SPW 4101 (3)
SPW 3030 (3)	SPW 4130 (3)
SPW 4100 (3)	SPW 4131 (3)

*Supporting courses required for the major:*

15 hours in 3000, 4000 or 5000 level courses. Students may take up to six (6) credit hours related to Spanish language and culture in another department approved by the Spanish advisor. May take SPN 2340 and SPN 2341.

*Required courses for the minor (3 credit hours)*

SPN 4301 (3)
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*Supporting courses required for the minor*

12 hours in 3000, 4000 or 5000 level courses. Students may take up to three (3) credit hours related to Spanish language and culture in another department approved by the Spanish advisor.

#### • Spanish (SPA) with an international studies and business concentration

*Required courses in Spanish for the major (18 credit hours)*

SPN 3330 (3)	SPN 3520 (3)
SPN 3440 (3)	SPN 4301 (3)*
SPN 3441 (3)	SPN 4410 (3)
SPN 3500 (3)	

\*SPN 3300 is the prerequisite to SPN 4301

*Supporting courses in Spanish required for the major (6 credit hours)*

Choose from the list below:

SPN 2340 (3)	SPW 4100 (3)
SPN 2341 (3)	SPW 4101 (3)
SPN 4700 (3)	SPW 4130 (3)
SPW XXXX (3)	SPW 4131 (3)
SPW 3030 (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 3440 (3) SPN 3500 (3) SPN 3520 (3)

or SPN 4301 (3)

SPN 3341 (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

**Africana Studies Club (AFA Club)** - Provides a forum for the open discussion of topics related and relevant to people of African-descent both on the African continent and in the Diaspora. The organization provides a vital link between the students and the faculty of the Department of Africana Studies, and acts as a base for student activism on campus and in the community.

**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](http://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 call (813) 974-2144, CHE 205.

**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 Library Association (ALA)** - To promote the highest quality library and information services and public access to information. Students enrolled in programs of study or certificate in librarianship or information sciences are welcome to join ALA. For more information please go to: <http://www.ala.org>.

**Pre-Med American Medical Student Association (PreAMSA)**

- 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 <http://ctr.usf.edu/pamsa/>

**American Society for Information Science and Technology (ASIS&T)**

- To advance the information sciences and related applications of information technology by providing focus, opportunity, and support to information professionals and organizations. Open to full and part-time students. Student membership prerequisite: faculty advisor's signature. For more information please go to: <http://www.asis.org/index.html>.

**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) 974-2138.

**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 (813) 974-6957.

**Association of Minority Communicators** - To inform minority students interested in Communication about the profession and to help them gain practical experience.

**Collegiate Economics Organization**

- 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](http://www.coba.usf.edu/departments/economics).

**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.

**Environmental Science and Policy Club**

- Open to all students with an interest in environmental science and policy; provides a stimulating environment for students to engage in related activities and discourse. For further information, please go to NES 301.

**Feminist Student Alliance**

- A multicultural organization that works to promote social change on campus and in the surrounding community through activism and consciousness raising. We are strongly committed to feminist activism within the Tampa Bay area, addressing various issues such as reproductive rights, education, health care, socioeconomics, domestic violence, and sexual crimes against women.

**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. For further information, please go to NES 201.

**Geography Club** - To foster understanding of and stimulate interest in the discipline of Geography and its subfields. For further information please go to NES 201.

**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. Mark Rains, SCA 531; or Geology Web Page @ [www.cas.usf.edu/geology/](http://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 that 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 <http://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.

**Lambda Pi Eta** - The local chapter of the official honor society of the National Communication Association recognizes outstanding academic achievement in the discipline of Communication.

**Minority Preprofessional Science Society/Minority Association of Premedical Students (MPSS/MAPS)** - 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 weekly on Thursday afternoons. Membership is open to all students in the College of Arts and Sciences. For further information go to <http://ctr.usf.edu/mpss/>.

**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.

**Omicron Delta Epsilon** - The international economics honor society promoting outstanding achievements in economics and the establishment of closer ties between students and faculty.

**Phi Alpha Theta** - National Honor Society for outstanding History students to promote the study of History. For more information, go to [www.cas.usf.edu/history](http://www.cas.usf.edu/history).

**PHIORG (Undergraduate Philosophy Organization)** - Open to all USF students with an interest in philosophy. The purpose of the organization is to enhance the study of philosophy and to increase awareness of philosophical issues in the campus community.

**Phi Sigma Iota** - International Honor Society for outstanding majors and minors in Classics, all Foreign Languages and Literatures, Bilingual Education, Foreign Language Education and Comparative Literature.

**Pi Gamma Mu** - International Honor Society for the Social Sciences.

**Pi Mu Epsilon** - The mathematics honor society to which the best scholars among our students are invited. Particular emphasis is given to performance in mathematics courses. 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 <http://ctr.usf.edu/pre dental/>.

**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 <http://www.ctr.usf.edu/pops/>

**Pre-Veterinary Society** - USF Pre-veterinary 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 that 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.

**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 Association for Psychological Science.

**Sigma Gamma Epsilon** - To recognize and promote academic and professional excellence in the Earth Sciences.

**Sigma Pi Sigma** - Physics National Honor Society. Contact Dr. Robert Criss at (813) 974-0165 for more information.

**Society of Physics Students (SPS)** - An affiliate of the American Institute of Physics and includes the honor society of Sigma Pi Sigma. Contact Dr. Robert Criss at (813) 974-0165 for more information.

**Special Libraries Association (SLA)** - The global organization for innovative information professionals and their strategic partners. SLA promotes and strengthens its members through learning, advocacy, and networking initiatives. Student memberships are granted to applicants enrolled in at least two library or information science courses. For more information please go to: <http://www.sla.org>.

**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.

## 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 Professors:* E. D. Duke, E. Kissi, K. Simeon-Jones, D. Sulton; *Visiting Associate Professor:* H.R. Kaplan; *Other Faculty:* K. Davis-John, L. Gordon, J. Holmes, N. James, R. Jones, P. McEwen, J. A. Maxwell-Simmons, S. Moore, L.W. Morehouse, F.U. Ohaegbulam, C. Probes, W. Rand, B.T. Shuler, S. Toland-Dix, K. Vaz, D. Washington, K. Wiredu, S. Wright.

### Aging Studies

*Director:* C.L. McEvoy; *Associate Director:* L. J. Polivka; *Assistant Director:* S. L. Reynolds; *Professors:* W. E. Haley, C. L. McEvoy; *Associate Professors:* K. Hyer, L. J. Polivka, S.L. Reynolds, B.J. Small; *Assistant Professors:* R. Andel, T. Baker, D. Dobbs, J. Edwards, J. McIlvane; *Instructors:* M. Kaplan, R. Lamm. *Faculty Administrator:* G. E. Mitchell; *Courtesy and Adjunct Professors:*

E. Bass, L. Brown, H. Caywood, Jr., D. Chiriboga, L. Dupree, M. J. Etten, A. Gum, P. Holley, Y. Jang, M. Knox, V. Molinari, H. Osman, G. Paveza, J. Rowe, J. Salmon, L. Schonfeld, R. Simons, G. Starke, P. Stiles, L. Volicer; *Professors Emeriti:* J. Garcia, W.P. Mangum, T. Rich, S. V. Saxon.

### Anthropology

*Chairperson:* E. Bird; *Professors:* R. Baer, E. Bird, K. Borman, S. Greenbaum, L. Madrigal, R. Tykot, B. Weisman, N. White, L. Whiteford; *Associate Professors:* D. Himmelgreen, N. Romero-Daza, K. Yelvington; *Assistant Professors:* H. Castaneda, K. Davis-Salazar, A. Jackson, J. Messing, T. Pluckhahn, R. Zarger, C. Wells, K. Williamson; *Instructor:* L. Collins, J. Napora; *Courtesy Faculty:* C. Bryant, J. Coreil, E. Kimmerle; *Emeritus Faculty:* M. Angrosino, C. Wienker, A. Wolfe.

### Biology

*Chairpersons:* S. S. Bell, J. R. Garey; *Professors:* G. W. Arendash, T. Crisman, D. V. Lim, E. D. McCoy, P. J. Motta, H. R. Mushinsky, S. K. Pierce, R. Pollenz, P.D. Stiling, D. T. TeStrake, R. P. Wunderlin; *Associate Professors:* M. L. Dao, F. B. Essig, G. A. Fox, V. Harwood, B. Livingston; *Assistant Professors:* P. Bradshaw, S. Deban, A. Erickson, L. Martin, J. Moore, M. Nanjundar, J. Rohr, K. Schmidt, K. Scott, L. Shaw, D. Wang; *Instructors:* V. Carson, A. Cleveland, J. El-Rady, E. Sikorski, A. Upadhyaya, P. Vandenbergh.

### Chemistry

*Chairperson:* M. Zaworotko; *Assistant Chair and Instructor:* P. Muisener (Research); *Emeritus Professors:* J. Binford, J. C. Davis, Jr., J.E. Fernandez, L. Mandell, T. C. Owen, B. Stevens; *Distinguished University Professor Emeritus:* D. F. Martin; *Professors:* B. J. Baker, S. H. Grossman, W. C. Guida, J. P. Harmon, M. D. Johnston, R. W. Larsen, M.L. McLaughlin, G. G. Meisels, D. J. Merkler, R. M. O'Malley, R. Potter, B. Space, E. Turos; *Associate Professors:* K. S. Bisht, J. Lewis, A. Malik, L. Ming, J. Weinzierl, P. Zhang; *Assistant Professors:* M. Acevedo-Duncan, J. Antilla, A. Cardenas, M. Eddoudi, X. Li, R. Manetsch; *Research Assistant Professors:* T. Gauthier, E. Rivera; *Instructors:* K. Caswell, S. T. Weldegirma; *Faculty:* L.P. Mercer; *Visiting Faculty:* J. Jones, V. Tibbs-Lykourinou.

### Communication

*Chairperson:* K. N. Cissna; *Professors:* E. E. Bell, A. P. Bochner, K. N. Cissna, E. M. Eisenberg, C. S. Ellis, L.S. Pettegrew; *Associate Professors:* S. Holman Jones, N.C. James, J. Jorgenson, A. D. Payne, F. Steier; *Assistant Professors:* M. Bartesaghi, G. Botchart, M. Chvasta, R. Dubrofsky, J. Jones, L. Roscoe; *Instructor:* M. Levan.

### Communication Sciences and Disorders

*Chairperson:* T. Chisolm; *Professors:* A. M. Guilford, T. Chisolm, E. R. Silliman; *Associate Professors:* J. Hinckley, R. Huntley Bahr, R. Hurley, J. Lister, C. Rogers; *Assistant Professors:* K. Crain, G. Donaldson, S. Frisch, J. Krause, N. Maxfield, G. Pashek; *Instructors:* L. Bess, P. Blake-Rahter, P. Carr, W. Clements, J. Constantine, S. Diehl, C. Fernandez, C. Ford, D. Freeman-LeVay, S. Graham, D. Howland, R. Laughlin, C. Paul, N. Patterson, K. Richardson, S. Surrency, R. Zelski; *Emeritus Professor:* J. Scheurle; *Emeritus Instructor:* E. A. Lee Kasan.

### Community Experiential Learning

*Coordinator:* R.R. Jones.

### Criminology

*Chairperson:* T. Mieczkowski; *Professors:* J. K. Cochran, R. Dembo, K. M. Heide, K. Lersch (Lakeland), M. Lynch, T. Mieczkowski, M. D. Smith, J. Unnever (Sarasota); *Associate*

*Professors:* M. Bromley, L. Fridell, W. Palacios, C. Sellers; *Assistant Professors:* D. Cecil (St. Petersburg), S. Jones, K. Padgett, W. Ruefle (St. Petersburg), C. Sullivan; *Professor Emeritus:* W. R. Blount, J.T. Reilly, M. Silverman, L. Territo, M. Vega; *Courtesy Appointment:* W. Borum.

### Economics

*Chairperson:* K. Gyimah-Brempong; *Professors:* D. M. Bellante, J. S. DeSalvo, K. Gyimah-Brempong, M. G. Herander, J. S. Hodgson, G. A. Picone, P. K. Porter, J. W. Rowe, Jr.; *Professors Emeriti:* E. J. Ford, C. A. Green, W. J. Herman; *Associate Professors:* B. P. Kamp, M. B. Loewy, M. Munkin, C. R. Thomas; *Assistant Professor:* Y. Deng; *Visiting Assistant Professor:* M. Henry; *Lecturer:* S. Bartlett.

### English

*Chairperson:* H. Hawkins; *Professors:* J. P. W. Rogers (DeBartolo Chair in the Liberal Arts), R.L. Ciresi, S. M. Deats, R. L. Hewitt, D. L. Kaufmann, W. E. Morris, J. M. Moxley, L.L. Runge, D. Schenck, P. J. Sipiora; *Associate Professors:* R. M. Baum, A.G. Bryant, N. Disenza, J. Fleming, E. A. Hirsh, D. L. Jacobs, E. A. Metzger, N. J. Tyson; *Assistant Professors:* T. Cooper, M. Clune, M. Gould, J. Hopler, H. Meakin, S. Mooney, S. Toland-Dix, M. Zoetewey; *Instructors:* S. M. Decidue, L. Head, J.Y. Karpay, B. Moss, E. E. Waldron; *Professors Emeriti:* L. Broer, H. A. Deer, R. F. Dietrich, F. J. Fabry, S.R. Fiore, W. Garrett, M. Harmon, J. Hatcher, W. T. Ross, W. Scheuerle, E. E. Smith.

### Environmental Science and Policy

*Chairperson:* R. Brinkman; *Director:* P. Reeder.

### Geography

*Chairperson:* R. Brinkmann; *Professors:* R. Brinkmann, G. Tobin; *Associate Professors:* K. Archer, M. Bosman, J. Chakraborty, S. Reader, P. Reeder, E. Strom; *Assistant Professors:* F. Akiwumi, P. Basu, J. Collins, R. Pu; *Visiting Assistant Professor:* C. Emrich; *Instructors:* M. Hafen, R. Jones, J. Ma; *Adjuncts:* G. Anderson.

### Geology

*Chairperson:* C. Connor; *Assistant Chairperson:* Jeff Ryan; *Professors:* C. Connor, J. G. Ryan, M. T. Stewart, H. L. Vacher; *Associate Professors:* P. J. Harries, S. E. Kruse, E. A. Oches, T. Pichler, P. Wang; *Assistant Professors:* G. Herbert, B. Onac, M. Rains, D. Roman, P. Wetmore, J. Wynn; *Instructors:* J. Fountain, J. Gould, J. Harden, T. C. Juster, E. Snow; *Courtesy Faculty:* W. Bradley, L. Connor, A. Gangoly, R. Green, R. Morton, J. Pracht, S. Sandberg, T. M. Scott, J. Sorauf, S. Upchurch, K. Watson, S. Worthington; *Assistant Curators:* R. Denicourt; *Emeritus Distinguished Professor:* R. A. Davis.

### History

*Chairperson:* F. Attanelli; *Professors:* R. O. Arsenault, J. M. Belohlavek, P. Dosal, R. P. Ingalls, G. R. Mormino, W.M. Murray; *Associate Professors:* G. Alexopoulos, G. Benadusi, C. Boterbloem, D. R. Carr, W. Cummings, S.J. Fernandez, L.A. Jones, P. Levy, F. Ottanelli, K. Paul; *Assistant Professors:* B. Berglund, M. Decker, J. Dyl, S. Ickes, D. Johnson, J. Kessenides, J. Langford-Johnson, G. Milton, F. Ramos, T. Zwick; *Instructor:* J. Hall, P. Morgan, S. Murray, J. Tunstall.

### Humanities and American Studies

*Chairperson:* S. L. Gaggi; *Professors:* P.J. Brewer, S. L. Gaggi, R. E. Snyder; *Professors Emeriti:* C.B. Cooper, G. S. Kashdin, D. Rutenberg; *Associate Professors:* D. Belgrad, J. D'Emilio, N. Yavneh; *Assistant Professors:* A. Berish, M. Cizmic, E. Cozzi, A. Novoa, E. Smith; *Instructor:* N. Kantzios.

### Interdisciplinary Social Sciences

*Coordinator:* K. Ferguson.

### International Studies

*Professors:* E. Conteh-Morgan, A. Hechiche, D. Slider; *Associate Professors:* M. M. Amen, R. Barylski, D. Peng; *Assistant Professor:* S. Roach, S. Solomon; *Joint Appointments:* Professors: R. Khator, M. Milani, H. Vanden; *Associate Professors:* K. R. Glover; *Distinguished Professor Emeritus:* C. Arnade; *Professor Emeritus:* F. U. Ohaegbulam.

### Library and Information Science

*Director:* J. Gathegi; *Professors:* V. Gregory, K. McCook, A. Perrault; *Associate Professors:* J. Carey, J. Gathegi; *Assistant Professors:* J. Andrews, C. Dee, C. Dunkley, N. Kwon, S. Maatta-Smith, S. Simon, D. Slone, J. Won Yoon; *Professors Emeriti:* H. M. Smith; *Instructors:* L. Alexander, D. Austin, K. Cox, S. Wohlmuth.

### Mass Communications

*Director:* E. J. Friedlander; *Professor:* E. J. Friedlander; *Associate Professors:* D. S. Bagley III, K. Golombisky, D. R. Holtzhausen, K. Killebrew, L. Z. Leslie, S. Liu, R. Miller; *Assistant Professors:* T. Bajkiewicz, K. Burns, D. Sohn, R. Watson, K. Page Werder, R. Wilber; *Instructors:* R. Batchelor, M. Curkan-Flanagan, R. Hagen, C. O'Brien, K. Arnold Ruyle; *Zimmerman Endowed Professor:* S. Liu; *Emerita:* B. K. Petersen.

### Mathematics

*Chairperson:* M. M. McWaters; *Associate Chairperson:* S. E. Rimbey; *Distinguished University Professor:* C. P. Tsokos; *Professors:* N. Jonoska, A. G. Kartsatos, D. Khavinson, G. Ladde, M. N. Manougian, E. Rakhmanov, K. M. Ramachandran, J. S. Ratti, M. Saito, B. Shekhtman, W. R. Stark, V. Totik, C. A. Williams, Y. You; *Associate Professors:* B. Curtin, X. Hou, W. Ma, G. L. McColm, M. M. McWaters, S. Suen; *Assistant Professors:* C. Beneteau, T. Bieske, M. Elhamedadi, W. Kim, S. Kouchakian, B. T. Nagle, L. Skrzypek, G. Yaney; *Instructors:* F. Burgos, A. Danielyan, M. Krajcevski, S. E. Rimbey; *Director of Industrial Mathematics:* A. Grinshpan; *Professors Emeriti:* W. E. Clark, S. Isaak, J. J. Liang, A. Mukherjee, K. L. Pothoven, F. J. Zerla.

### Medical Technology

*Administrator:* K. Cole; *Courtesy Professors:* I. L. Browarsky (Tampa General Hospital), L. Davis (Bayfront Medical Center), R. Bertholf (Shands Jacksonville), R. Ramos (St. Vincent's Medical Center); *Courtesy Lecturers:* L. Chakkaphak (St. Vincent's Medical Center), K. Berger (Tampa General Hospital), D. Tripolino (Bayfront Medical Center), J. Sigler (Shands Jacksonville).

### Philosophy

*Chairperson:* R. Ariew; *Professors:* J. P. Anton (Distinguished Professor of Greek Philosophy & Culture), R. Ariew, C. Guignon, R. Kukla, M. R. Schöpfung, O. Schutte; *Distinguished Research Professor:* S. P. Turner; *Associate Professors:* A. Levine, R. Manning, J.B. Waugh, T. Williams, E. Winsberg; *Assistant Professors:* C. Heydt, B. Sadler, D. Weiskopf; *Courtesy Associate Professors:* M. Gibbons; *Courtesy Assistant Professor:* A. Chitwood; *Courtesy Professor:* S. Axinn; *Emeritus Faculty:* J.A. Bell, B. Silver, R.N. Taylor, R.C. Weatherford, K. Wiredu.

### Physics

*Chairperson:* P. Mukherjee; *Professors:* R. S. F. Chang, W. Chen, N. Djeu, D. Johnson, D. K. Killinger, M. K. Kim, P. Mukherjee; *Associate Professors:* S. Hariharan, G. Nolas, I. Oleynik, D. Rabson, S. Witanachchi; *Assistant Professor:* M. Batzill, X. Jiang, C. Lo, G. Matthews, C. Miller, M. Munoz, M. Muschol, S. Pandit, L. Woods; *Instructor:* R. Criss, M. Chabot,

G. Woods; *Research Assistant Professor*: J. Zhang; *Visiting Professor*: S. Sakmar; *Eminent Scholar*: I. Giaever.

### Political Science

*Professors*: J. E. Benton, S. MacManus, M. M. Milani, H. E. Vanden; *Associate Professors*: K. Caruson, M. T. Gibbons, C. A. Hall, S. Johnston, L. W. Morehouse, D. Peng, S. Tauber; *Assistant Professors*: E. Choi; *Joint Appointments*: *Professors*: E. Conteh-Morgan, J. E. Jreisat, D. Slider; *Associate Professors*: R. Barylski, K. R. Glover.

### Psychology

*Chairperson*: E. Donchin; *Associate Chair*: T. Allen; *Distinguished Research Professors*: M. S. Goldman, D. L. Nelson; *Distinguished University Professor*: P. E. Spector; *Professors*: T. Allen, W. C. Borman, T. Brandon, M. T. Brannick, J. B. Bryant, M. D. Covert, D. Diamond, E. Donchin, M. A. Finkelstein, E. L. Gesten, P. Jacobsen, B. N. Kinder, C. L. Kirstein, E. L. Levine, V. Phares, W. P. Sacco, T. Sanocki, S. Schneider, T. Shimizu, J. K. Thompson; *Research Professors*: J. Willott; *Professors Emeritus*: C. E. Nelson, L. Penner, C. D. Spielberger; *Associate Professors*: C. R. Cimino, J. B. Epps, D. Rohrer; *Assistant Professors*: J. Bosson, J. Goldenberg, R. Johnson, M. Karver, K. Malmberg, G. Potts, J. Rottenberg, K. Salomon, S. Stark, J. Vandello; *Assistant Research Professor*: M. de Perczel-Goodwin; *Instructor*: J. Noll; *Courtesy, Adjunct, & Joint Appointments*: G. Arendash, R. Bahr, H. P. Bahrack, H. G. Belanger, P. C. Bickford, J. Brannick, B. Butler, T. Chisolm, H. B. Clark, M. E. Clark, D. Cohen, D. De Marie, D. Drobos, A. Friedman, T. R. Gordon, W. Haley, T. Herzog, K. Jenkins-Hall, M. D. Knox, M. Lynch, J. P. McHale, C. L. McEvoy, R. Murphy, R. Otto, C. R. Park, M. Pezzo, R. Reich, E. Renner, J. Robyak, A. I. Rosenblatt, C. Ruva, P. Sanberg, L. Schonfeld, D. P. Schultz, D. V. Sheehan, D. Shytte, E. Silliman, B. Slotnick, B. Small, T. F. Stokes, G. Teague, R. Vanderploeg, I. B. Weiner.

### Public Administration

*Director*: J. L. Daly; *Professors*: J. E. Jreisat, J. E. Pynes; *Associate Professors*: J. L. Daly; *Assistant Professors*: S. Aikins, M. Chary; *Joint Appointments*: *Professor*: J. E. Benton.

### Rehabilitation and Mental Health Counseling

*Chairperson*: T. J. Wright; *Distinguished Research Professor*: W. G. Emener; *Professors*: J. D. Rasch; *Associate Professors*: C. Dixon, S. Kelley, M. Richard, T. J. Wright; *Assistant Professor*: G. Dudell; *Clinical Instructor*: TBA.

### Religious Studies

*Chairperson*: M. G. Mitchell; *Associate Chair*: D. deChant; *Distinguished University Professor*: J. F. Strange; *Professors*: D. J. Fasching, D. Jorgensen, M. G. Mitchell; *Associate Professors*: T. Williams, W. Zhang; *Emeritus Professors*: S. Garcia, S. Mandell; *Assistant Professors*: C. Fisher, C. Lopez, K. O'Connor; *Instructors*: D. deChant, P. Schneider; *Other Faculty*: M. Angrosino, J. Cavendish, M. Decker, G. Harley, T. Krizek, D. Schenck, G. Zucker.

### Social Work

*Director*: W. Rowe; *Associate Director*: M. Marley; *Director of Field Program*: K. Williams; *Professors*: G. J. Paveza; *Associate Professors*: S. Fogel, L. Rapp-Paglicci, C. Stewart, A. L. Strozier; *Assistant Professors*: S. Allen, F. Barrow, K. Black, J. Cabness, R. Ersing, M. Rank, L. Rapp-Paglicci, J. Roberts, A. Salloum; *Instructors*: S. Blanco, I. Carrion, S. Speer, R. Tilden, P. Williams.

### Sociology

*Chairperson*: M. Mayberry; *Professors*: D. Loseke, M. Mayberry, D. Stamps; *Associate Professors*: E. Aranda, J. Cavendish, S. Green, J. Friedman, L. Graham, M. Kleiman, C. Ponticelli; *Assistant Professor*: M. Kusenbach, W. Tyson, E. Vaquera; *Instructor*: C. Partin; *Courtesy Faculty*: J. Cochran, S. Crawley, L. Detman, C. Ellis, M. Flaherty, D. Jorgensen, K. Lersch, C. Partin, J. Prince, T. Rodriguez, C. Sellers, M. D. Smith, N. Tunitya, S. Turner, S. M. Yampolskaya; *Emeriti*: R. Francis, E. Nesman, R. Wheeler.

### Women's Studies

*Chairperson*: K. Vaz; *Professor Emeriti*: C. DiPalma, L. L. McAlister, J. Snook; *Associate Professors*: C. J. Eichner, G. Grewal, M. Myerson, K. Vaz; *Assistant Professor*: S. Crawley; *Visiting Professor*: L. Lucas.

### World Languages

*Chairperson*: V. E. Peppard; *Professors*: G. A. Brulotte, V. E. Peppard; *Associate Professors*: P. Breschia, M. Camara, J. S. Campbell, C. J. Cano, A. Chitwood, M. Esformes, J. Flaitz, I. Kantzios, J. D. Noonan, C. M. Probes, W. Zhu; *Assistant Professors*: M. Grieb, P. LaTrecchia, E. Manolaraki, K. Simeon-Jones, M. Sosa-Ramirez, C. Vasquez; *Visiting Assistant Professors*: S. Huber, A. Latowsky; *Instructors*: M. Chineza-Thornberry, R. Donchin, R. Tucker, S. Wohlmuth; *Visiting Instructors*: J. Lyon, I. Sarieva; *Emeritus*: J. Caflich, R. Cole, D. Ierardo, E. J. Neugaard, R. A. Preto-Rodas, C. E. Scruggs, R. Stetzman; *Lecturer*: O. Oleynik; *Other Faculty*: S. Mooney, W. Murray.

# COLLEGE OF BUSINESS

UNIVERSITY OF SOUTH FLORIDA - 2007/2008 UNDERGRADUATE CATALOG

The College of Business offers courses of study leading to both undergraduate and graduate degrees. All degree programs in the College of Business are fully accredited by AACSB International — The Association to Advance Collegiate Schools of Business.

The undergraduate curriculum that leads to a Bachelor of Arts or Bachelor of Science degree is composed of several segments: (1) broad general education in the arts, humanities and sciences; (2) the common body of knowledge for management responsibilities; and (3) specialized areas of concentration in Accounting, Economics, Finance, General Business, International Business, Management, Management Information Systems, and Marketing. Through flexibility in its requirements, the College is able to satisfy the different interests and career objectives of students with diverse backgrounds. Graduate programs in the College are described in the USF Graduate Catalog.

The College of Business is located near the corner of Maple Street and Alumni Drive on the south-central side of campus. To access information about the College online, use the following web address: [www.coba.usf.edu](http://www.coba.usf.edu).

## Undergraduate Admission to the College

Admission to the College of Business is based upon availability of faculty and space within each discipline. The College is an upper-level, limited access college, which means that it has admission requirements **in addition to** those of the University in general. Students interested in pursuing a degree in the areas offered by the College of Business must complete the required prerequisites for entering the college in addition to other related criteria listed in 1-4 below.

### Requirements for Admission to the College of Business

1. Students must satisfy the following criteria:
  - a. Minimum of 60 semester hours of college credit earned.
  - b. Minimum of 2.5 cumulative grade point average on all college-level work and a minimum of 2.0 on all credit attempted at USF, including any prior to renewal.
  - c. Completion of the following State Mandated Common Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:
    - ACG X021 Financial Accounting  
(or ACG X001 & ACG X011)
    - ACG X071 Managerial Accounting
    - CGS X100 Computers in Business  
(or acceptable substitute i.e., CGS X530, CGS X570, CGS X531, CGS X0000, MAN X812)
    - ECO X013 Principles of Macroeconomics
    - ECO X023 Principles of Microeconomics
    - MAC X233 Elementary Calculus or MAC 2230
    - STA X023 Introductory Statistics or QMB X100 (or STAX122 although STA X023 and QMB X100 are preferred).
  - d. In computing entry grade point average all business and economics courses taken for S or U grades will be converted to C or F, respectively.
2. Students working toward meeting the limited access criteria will be permitted to enroll in all foundation courses in Business (listed below) except GEB 4890, provided they have completed 60 semester hours, a minimum of 2.3 overall GPA, and have met course prerequisites.
3. A minimum score of 550 on paper and pencil or 213 on computerized TOEFL is required, when applicable.
4. Students must be admitted to the College of Business at least one term before their anticipated graduation date.

### Transfer Students

Transfer credits will be accepted from accredited institutions; however, all hours earned may not be applied toward USF business degree requirements. Individual courses will be evaluated by an academic advisor and appropriately credited toward requirements in the student's program at USF.

Florida public junior/community college students enrolled in an Associate of Arts (AA) program should normally complete the general education requirements and the State Mandated Common Prerequisites at the junior/community college. As a rule, AA students should avoid taking any business courses at the junior/community college that are listed as 3000 and 4000 level courses at USF. Normally, courses in finance, marketing, management, and accounting, as well as other business administration and economics courses, taken at the lower division level that are offered as upper division courses at USF will not be accepted for upper division credit in business administration or economics. In general, business courses taken at the lower level, at technical schools, or as part of professional or military training, are not applicable to the degree programs of the College of Business. Exceptions to this policy will be made only upon proper validation of such courses. Validation consists of successfully completing specified advanced courses in the discipline.

Florida public junior/community college students pursuing an Associate of Science (AS) program in Business Administration are fully admissible to USF. Please see a business advisor to determine the articulation courses, discuss admission to the College of Business and prepare a program plan for degree completion. Students transferring to the College of Business with an A.S. in Business Administration may earn a major in General Business Administration only.

Florida public junior/community college students pursuing an Associate of Science (AS) program in any other discipline should contact the Director of the BSAS program in the Office of Undergraduate Studies, SVC 2002, (813) 974-4051, for information regarding course transferability and degree articulation.

## BACCALAUREATE LEVEL DEGREE PROGRAMS

### General Requirements for B.A./B.S. Degree in Business

Students must satisfactorily complete a minimum of 120 semester hours. Of the minimum 120, at least 60 hours must be business courses, and a minimum of 54 hours must be non-business courses (i.e., all courses not normally offered in the College of Business). Additional electives may be required to reach a minimum of 120 hours and can be either business or non-business.

As a part of the 120-hour requirements for the B.A. or B.S. degree, the following criteria also apply:

**GPA:** A minimum grade-point average of 2.0 must be achieved in the following areas:

- The major and minor fields
- College foundation courses
- All USF coursework
- Overall GPA (USF and all transfer work)

**CLAST and Gordon Rule:** Students must have satisfactorily completed CLAST and the writing and computation course requirements of 6A-10.30 ("Gordon Rule").

**Foreign Language:** For a Bachelor of Arts degree, students must demonstrate competency in a foreign language (refer to the Academic Policies and Procedures section of this catalog). The College of Business does not approve American Sign Language for the Foreign Language Exit Requirement.

**Residency:** College of Business residency requirements for graduation exceed the minimum requirements established for USF. Students are required to complete satisfactorily at USF a minimum of 50 percent (30-33 semester hours depending on major) of required business courses, including 12-18 semester hours in the major field. Normally, independent study and independent research courses do not fulfill this requirement.

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

**No S/U courses in major or minor:** All courses in the major or minor field and all foundation coursework in business must be taken on a graded basis; the S/U option is not available.

## Degree Requirements

<b>NON-BUSINESS (54 hrs. minimum)</b>	<b>Semester Hours</b>
1. General Education Requirements*	
a. English Composition	6
b. Quantitative Methods (Calculus is required)	6
c. Natural Sciences	6
d. Social Sciences	6
e. Historical Perspectives	6
f. Fine Arts	3
g. African, Latin American, Middle Eastern, or Asian Perspectives	3
<b>Total</b>	<b>36</b>
2. Liberal Arts Exit Requirements*	
a. Major Works and Major Issues	6
b. Literature and Writing	3
<b>Total</b>	<b>9</b>
*See Liberal Arts Requirements for more details	
3. Speech/Writing Requirements for Business Majors	
a. SPC 2600 Public Speaking	3
or	
COM 3110 Communication for Business and the Professions	
b. ENC 3250 Professional Writing	3
or	
ENC 3310 Expository Writing or equivalent	
<b>Total</b>	<b>6</b>
4. Additional elective credits	
Students may or may not need to take additional hours to meet the minimum of 54 non-business credits (see "Electives" heading below for a suggested course)	
<b>Total non-business credit hours</b>	<b>54</b>

## BUSINESS (60-66 hrs. minimum)

1. Foundation Courses in Business	
Required - a minimum grade of C- in each foundation course with an overall 2.0 GPA	
ACG 2021 Principles of Financial Accounting	3
ACG 2071 Principles of Managerial Accounting	3
ECO 2013 Economic Principles: Macroeconomics	3
ECO 2023 Economic Principles: Microeconomics	3
QMB 2100 Business & Economic Statistics I	3
BUL 3320 Law and Business I	3
FIN 3403 Principles of Finance	3
ISM 3011 Information Systems in Organizations	3
QMB 3200 Business & Economic Statistics II	3
MAN 3025 Principles of Management	3
MAR 3023 Basic Marketing	3
GEB 4890 Strategic Mgmt/Decision Making	3
<b>Total</b>	<b>36</b>
2. Major Requirements (specific courses for each major are listed in the "Departments and Programs" section below.)	18-24
3. Business Electives:	
CGS 2100*	3
FIN/MKT/MAN majors only	3
<b>Minimum Business Credits</b>	<b>60-66</b>

## ELECTIVES IN BUSINESS OR NON-BUSINESS

Sufficient elective courses to reach a minimum of 120 hours (ranges from 0-6 credit hours if above requirements are met)

**Minimum total hours 120**

\*Waiver examination administered by the College only may be substituted for CGS 2100. See Advisor for details.

## USF Campuses and Teaching Sites

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

**St. Petersburg:** Accounting, Economics, Finance, General Business Administration, Management, Management Information Systems, and Marketing

**Sarasota:** Accounting, Finance and General Business Administration

**Lakeland:** General Business Administration and Marketing

**North Pinellas Teaching Site (at St. Petersburg College, Clearwater):** offers the General Business Administration program.

Students may need to travel from one USF campus to another in order to finish their particular program within a shorter time period.

## Student Advising and Records

The Office of Undergraduate Advising and Programs (located in Ferguson Hall, BSN 2102) provides the following:

- Orientation for freshmen and transfer students.
- Academic advising and program information for:
  - pre-business students who have applied to the College of Business and declared business as their intended major.
  - students who meet all College of Business admission requirements.
- Evaluation of undergraduate transcripts for all declared and admitted business transfer students.
- Maintenance of academic advising records for the Tampa, Lakeland and Sarasota campuses for all declared and admitted business students.
- Certification of graduation.

## Advising Offices

**Tampa Campus:** BSN 2102, (813) 974-4290 or schedule an advising appointment on-line: <http://www.coba.usf.edu/services/ugrad/index.html>.

**St. Petersburg Campus:** DAV 134, (727) 873-4511

**Sarasota Campus:** SMC-C107, (941) 359-4330

**Lakeland Campus:** LLC 2100, (863) 667-7063

## Office Hours

**Tampa Campus:** 8am-6pm Monday-Thursday.  
8am-4pm on Fridays.

**St. Pete Campus:** 8am-6pm Monday-Thursday.  
8am-5pm on Fridays.

**Sarasota Campus:** 8am-6pm Monday-Thursday.  
8am-5pm on Fridays.

**Lakeland Campus:** 9am-6pm Monday-Thursday.  
8am-5pm on Fridays.

While the University provides advising services to assist students with academic planning, **the responsibility for ensuring that all graduation requirements are met ultimately rests solely with the student.**

## Academic Dismissal

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

## DEPARTMENTS AND PROGRAMS

### • GENERAL BUSINESS (GBA)

The General Business major provides students with substantial preparation in two functional areas of business and

prepares them for positions in a business world that is increasingly interdisciplinary and values cross-functional abilities.

**Requirements for the B.A./B.S. Degree:** Within the 120-semester-hours program as listed in the General Requirement section, students must complete two minors from the following business disciplines: accounting, economics, finance, management, management information systems, or marketing. A minimum of 24 hours of upper-level course work must be earned with a GPA of at least 2.0 in each minor. The requirements for each minor are listed with the description of the major.\* Minors applied to the General Business major will be referred to as concentrations. Concentrations used as part of the General Business Major will not also be subsequently listed as independent minors on the transcript.

**\*One exception:** A minor/concentration in economics must consist of four upper level economics courses, excluding QMB 3200.

**Please note:** Courses used to satisfy a major in accounting, economics, finance, information systems management or marketing may not be used to satisfy either minor or economics concentration requirement for the GBA major. Courses used in the minors or concentrations for the GBA major can not be used for a major.

**Requirements for a Minor in Business Administration (Non-Business Majors Only):** Students are required to process an application for the minor in the College of Business. Students must complete an introductory computer course (with a content similar to CGS 2100 Computers in Business) or obtain a waiver for this requirement from the College of Business by demonstrating competence in the use of computers.

1. The course requirements are as follows:

ACG 3074	Managerial Accounting for Non-Business Majors*	3
ECO 1000	Basic Economics**	3
FIN 3403	Principles of Finance	3
MAN 3025	Principles of Management	3
MKT 3023	Basic Marketing	3
MAN 4802	Entrepreneurship & Small Business Management	3
Total		18

2. A grade point average of 2.0 or better must be achieved in the minor course work at USF and in all minor courses completed at other institutions.

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

\*ACG 2021 & ACG 2071 can be substituted for ACG 3074.

\*\*ECO 2013 & ECO 2023 can be substituted for ECO 1000.

## • ACCOUNTING (ACC)

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

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

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

**Requirements for the B.A./B.S. Degree:** In addition to the non-business and business foundation courses listed in the General Requirements section, students must complete a minimum of 24 hours of upper-level accounting courses, of which 18 credit hours must be taken in residence at USF. In addition to the State Mandated Common Prerequisites for admission to the College of Business (or equivalents) with a grade of C or higher, students admitted to the School of Accountancy must

successfully complete (with a grade of C, 2.0 or better) ACG 3103 and ACG 3341 before enrolling in other upper level accounting courses. If the student repeats ACG 3103 and/or ACG 3341, only the first two attempts (W's count as attempts) will be considered for continuation in the major. Those students who fail to meet the requirements to continue in this program will be counseled into other programs either in COBA or other colleges as appropriate. A grade of "C" or higher (not C-) is required in the 24 hour major courses plus a 2.0 GPA in all major course work at USF and an overall 2.0 GPA including transfer work.

### Required Accounting Courses:

ACG 3103	Intermediate Financial Accounting I	3
ACG 3113	Intermediate Financial Accounting II	3
ACG 3341	Cost Accounting and Control I	3
ACG 3401	Accounting Information Systems	3
ACG 4632	Auditing I	3
TAX 4001	Concepts of Federal Income Taxation	3

### Electives (6 hours selected from):

ACG 4123	Intermediate Financial Accounting III	3
ACG 4351	Cost Accounting and Control II	3
ACG 4642	Auditing II	3
ACG 4931	Selected Topics	3
ACG 5201	Advanced Financial Accounting	3
ACG 5505	Governmental/Not-for-Profit Accounting	3
ACG 5675	Internal and Operational Auditing	3
TAX 5015	Federal Taxation of Business Entities	3
Total Required Hours		24

The student's program must also include course work taken in behavioral sciences and humanities, such as psychology, anthropology, and sociology, and the political environment of business and society, such as political science, public administration, and ethics. College of Business advisors will recommend courses that will satisfy the program requirements.

Accounting majors can use the forgiveness policy only once in upper-level accounting courses. Accounting courses taken by accounting majors on an S/U basis will not be counted toward the 120-hour graduation requirement. Independent Research, ACG 4911, will not be accepted as credit toward the minimum degree requirements in the accounting concentration.

**Requirements for a Minor in Accounting (for Business Majors Only):** Students majoring in Business may minor in Accounting. The requirements are:

1. ACG 3103 Intermediate Financial Accounting I 3  
ACG 3341 Cost Accounting and Control I 3  
ACG 3401 Accounting Information Systems 3  
TAX 4001 Concepts of Federal Income Taxation 3
2. A grade of "C" (not C-) or better must be earned in each of the four upper-level accounting courses taken. A grade point average of 2.0 or higher must be achieved in all minor course work. All attempts will be included in the GPA unless grade forgiveness has been used. Only one grade forgiveness may be used in the minor.
3. All 12 credit hours must be taken in residence at USF.

## • ECONOMICS (ECN)

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

**Requirements for the B.A./B.S. Degree:** Within the 120-semester-hour program as listed in the General Requirements section, students must complete a minimum of 21 hours of upper-level economics beyond the foundation courses for business.

### Required Economics Courses:

ECO 3101 Intermediate Price Theory	
ECO 3203 Intermediate Macroeconomics	3
15 hours of upper-level economics courses	15
Total	21

Students must obtain a grade of "C-" or higher in ECO 3101 Intermediate Price Theory or ECP 3703 Managerial Economics (formerly ECO 3100) to enroll in any course for which ECO 3101 or ECP 3703 is a prerequisite. Students cannot take both ECO 3101 and ECP 3703 for credit. No more than 3 hours credit can be applied toward a major from ECO 4905 and/or ECO 4914. At least 12 upper level hours must be taken in residence at USF. A grade point average of 2.0 or higher must be achieved in all major course work at USF and an overall 2.0 GPA including transfer work.

Economics offers two majors, one in the College of Arts and Sciences and the other in the College of Business.

**Requirements for a Minor in Economics:** All students, regardless of college can earn a minor in Economics by satisfactorily completing 18 hours in Economics. The requirements are:

1. ECO 2013 Economic Principles: Macroeconomics 3  
ECO 2023 Economic Principles: Microeconomics 3  
Upper-level economics electives (may include QMB 3200) 12  
Total Economics Hours 18  
Business majors can obtain a minor with 9 additional upper-level hours in economics beyond the foundation requirements for business.
2. Before being recognized as a minor in economics, a student must obtain program approval by the Economics Department Undergraduate Advisor.
3. A grade point average of 2.0 or higher must be achieved in minor course work at USF and in all minor courses completed at other institutions. ECO 4905 and ECO 4914 may not be counted toward the minor.
4. 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 ECP 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.

### 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 student to take two graduate level courses required for the MA degree during the last year in the Bachelor's 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. After completing the 120-hour Bachelor 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.

### • FINANCE (FIN)

The Finance major provides a broad-based, analytical program for students anticipating a career in the management of both large and small organizations. Finance provides a good background for students seeking general careers in business. Finance majors can elect to take courses in the following areas that prepare them for entry and advanced careers in

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

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

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

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

**Requirements for the B.A./B.S. Degree:** Within the 120-semester-hour program listed in the General Requirements section, students must complete a minimum of 18 hours of upper-level finance courses beyond FIN 3403. At least 12 hours must be taken in residence at USF. A grade point average of 2.0 or higher must be achieved in all major course work at USF and an overall 2.0 GPA including transfer work.

Required Finance Courses:

FIN 4303 Financial Institutions and Markets	3
FIN 4414 Advanced Corporation Finance	3
FIN 4504 Principles of Investments	3
Additional upper-level Finance electives	9-15
Total	18-24

Finance electives can be selected from among those 3000 and 4000 level classes that have FIN, REE, and RMI prefixes. At least two electives must have an FIN prefix. Independent Study (FIN 4905) and Independent Research (FIN 4915) will not be accepted as credit toward the minimum degree requirements for a major in Finance. The courses listed below are suggested electives that are relevant for students who might want to pursue careers in the following areas:

#### Corporate Financial Management

- FIN 3604 International Finance
- FIN 4412 Working Capital Management
- FIN 4443 Financial Policies and Strategies
- FIN 4461 Financial Statements Analysis

#### Management of Financial Institutions

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

FIN 4461	Financial Statement Analysis
<b>Investments</b>	
FIN 3604	International Finance
FIN 4461	Financial Statement Analysis
FIN 4514	Advanced Investment Analysis & Management
FIN 4934	Selected Topics in Finance*

**Financial Services**

FIN 3604	International Finance
FIN 4514	Advanced Investment Analysis & Management
FIN 4934	Selected Topics in Finance*
RMI 3011	Principles of Insurance

\*Please see your academic advisor for the necessary selected topics course.

**Requirements for a Minor in Finance (for Business Majors only):** Students majoring in Business minor in Finance. The requirements are

1. FIN 4504 Principles of Investments 3  
FIN 4303 Financial Institutions and Markets 3  
FIN 4414 Advanced Corporation Finance 3  
Another upper-level Finance Elective with an  
FIN, REE, or RMI prefix 3  
Total Finance Hours 12
2. A grade point average of 2.0 or better must be achieved in the minor course work at USF and in all minor courses completed at other institutions.
3. At least 9 of the required 12 credit hours must be taken in residence at USF.

## • INFORMATION SYSTEMS AND DECISION SCIENCES (ISM)

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

**Requirements for the B.A./B.S. Degree:** Within the 120-semester-hour program listed in the General Requirements section, students must complete a set of 5 required MIS courses and 3 approved MIS electives. MIS majors must earn a "C" or higher (not C-) in the five required MIS courses and must have a 2.0 or higher GPA in the major; they can use grade forgiveness for only one upper-level MIS course. At least 15 hours must be taken in residence at USF. A grade point average of 2.0 or higher must be achieved in all major course work at USF and an overall 2.0 GPA including transfer work.

Required MIS Courses:

ISM 3232	Business Application Development*	3
ISM 3113	Systems Analysis and Design*	3
ISM 4212	Database Administration	3
ISM 4220	Business Data Communications	3
ISM 4300	Managing Information Resources	3

Plus Approved MIS Electives\*\* 9

Total Hours Required for B.A./B.S. Degree 24

\*ISM 3232 (Business Application Development) is recommended to be taken before, or concurrently with, ISM 3113 (Systems Analysis and Design).

\*\*No more than three hours of ISM 4950 can be counted as MIS electives. (ISM 4905 will not count as an MIS elective.)

**Requirements for a Minor in MIS (for Business majors only):** Students majoring in Business may minor in MIS. The requirements are

1. ISM 3113 Systems Analysis and Design 3  
ISM 4212 Database Administration 3  
Approved MIS Elective 6  
Total MIS hours 12
2. A grade point average of 2.0 or better must be achieved in the minor course work at USF and in all minor courses completed at other institutions.

3. At least 9 hours of the required 12 credit hours must be taken in residence at USF.

## • MANAGEMENT AND ORGANIZATION (MAN)

The undergraduate degree in Management prepares students for entry-level positions in general business and management, as well as human resources/organizational development positions and small business management. It also prepares students for graduate study in Business such as the MBA program. Management is a dynamic field that focuses on planning, organizing, and leading in business, non-profit and governmental organizations. Managing people in organizations involves behavioral concepts such as motivation, personality, teamwork, communication and leadership skills. Management is responsible for the triple bottom-line: financial profits, environmental good and social good. With a focus on people in organizations, managers develop the human capital of organizations. Motivating and developing an organization's workforce today requires attention to relationships with people inside and outside the organization, locally and across the world. The curriculum in management covers all aspects of management including: human resources development, organizational behavior theory, leadership, organizational development, negotiation, social issues in management, and strategic planning. Students leave this program knowing how to apply the latest ideas and concepts in management to organizational issues. Analytical skills, communication skills and leadership skills are developed in both classroom and assignment activities throughout the curriculum.

**Requirements for the B.A./B.S. Degree:** Within the 120-semester-hour program listed in the General Requirements section, students must complete 18 hours of management beyond MAN 3025. At least 12 hours must be taken in residence at USF. A grade point average of 2.0 or higher must be achieved in all major course work at USF and an overall 2.0 GPA including transfer work.

Required Management Courses:

MAN 3240	Organizational Behavior Analysis	3
Additional upper-level management courses		15-21
Total		18-24

MAN 4504 and MAN 4507 do not count toward the management major.

**Requirements for a Minor in Management (for Business Majors Only):** Students majoring in Business may minor in Management.

The requirements are:

1. MAN 3240 Organizational Analysis 3  
MAN 3301 Human Resource Management 3  
MAN 4282 Organizational Assessment 3  
MAN 4600 International Management 3  
Total Management hours 12
2. A grade point average of 2.0 or better must be achieved in the minor course work at USF and in all minor courses completed at other institutions.
3. At least 9 hours of the required 12 credit hours must be taken in residence at USF.

## • MARKETING (MKT)

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

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

The Marketing program at USF prepares students for initial entry and management positions in many areas of marketing with a curriculum that is concerned with:

1. Understanding how to attract and retain customers;
2. Having the ability to find and analyze information;
3. Being able to design, collect, and analyze marketing information to be used in managerial decision making;
4. Using electronic and traditional media to create satisfied loyal customers;
5. Having personal communication skills that businesses demand;
6. Being capable of writing a winning marketing plan;
7. Understanding and being able to apply the latest marketing concepts, including marketing automation.

**Requirements for the B.A./B.S. Degree:** Within the 120-semester-hour program listed in the General Requirements section, students must complete a minimum of 18 hours in marketing beyond MAR 3023. At least 12 hours must be taken in residence at USF. A grade of "C" or higher (not C-) is required in all Marketing Classes plus a 2.0 GPA in all major course work at USF and an overall 2.0 GPA including transfer work.

Required Marketing Courses:

MAR 3823 Marketing Management	3
MAR 3613 Marketing Research	3
MAR 3400 Professional Selling	3
MAR 4333 Electronic/Promotion Management	3
MAR 4824 Marketing Management Problems	3
Additional upper-level marketing courses	3-9
<b>Total</b>	<b>18-24</b>

It is strongly recommended that marketing majors take an internship course as part of their plan of study. It is also recommended that courses in information technology, finance, management, and international business be included in the business electives.

Undergraduate students in the College of Business not majoring in Marketing can greatly enhance their attractiveness to employers by taking a minor in Marketing or taking selected courses from the Marketing curriculum to broaden their backgrounds. Marketing is particularly complementary for College of Business students majoring in Information Systems, Finance, and Management.

**Requirements for a Minor in Marketing (for Business Majors Only):** The requirements are:

1. MAR 3823 Marketing Management 3  
Any 3 upper level Marketing courses with a  
MAR prefix (excluding MAR 4824) 9  
Total Marketing Hours 12
2. A grade of "C" or higher (NOT C-) is required in all marketing minor coursework.
3. A grade point average of 2.0 or better must be achieved in the minor course work at USF and in all minor courses completed at other institutions.
4. At least 9 hours of the required 12 credit hours must be taken in residence at USF.

## • INTERNATIONAL BUSINESS (ITB)

The Bachelor of Arts in International Business (IB) provides students with the knowledge, skills and experience necessary for successful careers in the global business environment.

Graduates will have not only the International Business major, but also a minor in one of the functional areas of business (finance, management, marketing, economics and information systems). With this preparation, graduates will find

employment in many manufacturing, service or knowledge-based industries with international markets, international suppliers, international sources of finance or an internationally diverse work force.

The IB program is unique in that it combines preparation in business administration with language training, area studies, and a meaningful overseas work or study experience. The curriculum includes, in addition to the general education and liberal arts requirements, a strong grounding in business core courses, an 18-hour major in international business and area studies subjects, a minor in a functional area of business, training in a foreign language and overseas academic or business experience. International students who have completed at least the equivalent of a high school education in their native country, are advised to pursue another business major. At a minimum, international students who have completed at least the equivalent of a high school education in their native country, may not study the area of their origin as part of the International Business major. A minimum of 120 hours is required to complete a B.A. in International Business.

## International Business Major (18)

Business Courses (9)

Students should see an advisor for an approved list of upper level international business courses.

Area Studies Courses (9)

Students should see an advisor for an approved list of upper level area studies courses.

## Business Minor/Concentration (12)

Students will choose a minor from the following disciplines:

Economics*	Finance
Marketing	Management
Information Systems	

Within each concentration one course must be an international business course. The international business course is in addition to the three international business courses as required in the above International Business Major area.

\*One exception: A minor/concentration in economics must consist of four upper level economics courses, excluding QMB 3200.

## Foreign Language Above First Year (9)

Language(s) selected should support the area and the Area Studies courses.

## Overseas Business Internship (3) or Semester Abroad

The International Business Major is designed to be completed within 120 credit hours. Certain courses satisfy requirements in more than one area. To maximize academic options, students should seek guidance from an advisor once a decision has been made to pursue this major.

**Please note:** Courses used to satisfy a major in accounting, economics, finance, information systems management or marketing may not be used to satisfy the minor or economics concentration requirement for the ITB major. Courses used for the minor or concentration for the ITB major can not be used for a major.

## Minor in International Business Students Majoring in Business

To qualify for the minor in International Business, students with a major in one of the degree programs in Business must successfully complete a minimum of 12 hours of international business or related course work. At least 9 semester credit hours in the minor must be selected from a set of approved upper-level international business courses (see below). One of the courses in the minor, relevant to the student's international area of interest, can be an approved area studies course, or other course, taken outside the College. A minimum of 9

semester hours of the minor course work must be taken at USF. A grade point average of 2.0 or higher must be achieved in minor course work taken at USF, as well as in any transfer work applicable to the minor. Competency to effectively communicate in a foreign language is strongly advised.

### Non-Business Majors

To qualify for the International Business minor, non-business majors must complete the requirements for the minor in Business Administration (see previous Requirements for a Minor in Business) and complete at USF a minimum of 9 semester credit hours selected from a set of approved upper-level international business courses (see below). A grade point average of 2.0 or better must be achieved in the minor course work taken at USF, as well as in any transfer work applicable to the minor program. Competency to communicate in a foreign language is strongly advised.

A statement attesting to the completion of the Minor in International Business will appear on the student's official transcript.

### Courses Approved for International Business

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

ECO 3703	International Economics
ECO 4713	International Macroeconomics
ECO 4723	International Trade and Policy
ECO 4430	Economics of Latin America
ECS 3013	Economic Development
ECS 4003	Comparative Economic Systems
FIN 3604	International Finance
ISM 4382	Global Information Systems
MAN 4600	International Management
MAR 4156	International Marketing

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

## Student Organizations within the College of Business

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

**Alpha Kappa Psi** - Provides a forum for leadership development in preparation for careers in all areas of business, Alpha Kappa Psi is a progressive, coed, professional business fraternity.

**Association of Marketing Students** - As a collegiate chapter of the American Marketing Association, this organization will help to further the growth of business oriented individuals within the field of marketing.

**Beta Alpha Psi** - The international professional accounting, finance, and information systems honors organization devoted to the promotion of the profession, inspiring professional ideals, and recognizing academic achievement.

**Beta Gamma Sigma** - An honor society that encourages and rewards outstanding scholarship among business students.

**Business College Council** - Student representatives advise the dean and the faculty on student attitudes and goals. Also, the Council acts as a liaison between the Student Government Association and the College of Business.

**Collegiate Economics Organization** - To promote and develop the applications of economic concepts within the student body and provide a social basis for interaction. For further information go to the club website at <http://www.coba.usf.edu/departments/economics/ceo.htm>

**Delta Sigma Pi** - Fosters the study of business and a close association between students and the business world. Delta Sigma Pi is a coed, professional business fraternity.

**International Business Board** - Promotes interest in international business, provides professional and cultural programs, and encourages dialogue regarding opportunities for study and work abroad.

**Management Information Systems Society** - The MIS Society is a career oriented organization focusing on all areas of business data management and information systems development.

**Minority Business Association** - Encourages and supports students in their efforts to achieve success in a demanding academic setting.

**National Association of Black Accountants** - Develops, encourages, and serves as a resource for greater participation by African-Americans and other minorities in the accounting and finance professions.

**Omicron Delta Epsilon** - The international economics honor society promoting outstanding achievements in economics and the establishment of closer ties between students and faculty.

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

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

## BUSINESS FACULTY

### Accounting/Law

*Director*: S. M. Bryant; *Professors*: Advisory Council Professor: T. J. Engle; *Quinn Eminent Scholar*: U. S. Murthy; *Professors Emeritus*: D. M. Dennis, G. L. Holstrum, L. C. Jurgensen, R. M. Keith, J. R. Martin, K. W. Merriam, J. L. Smith, W. L. Stephens, R. J. West; *Associate Professors*: Johnson Distinguished Professor: S.M. Bryant, G. A. H. Laursen, W. H. Parrott, Rooks Professor: J. L. Reck, R. F. Welker; *Assistant Professors*: A. M. Albring, M. G. Butler, M. Caban-Garcia, L. M. Gaynor, J. B. Kahle, A. S. Kelton, D. Robinson, B. A. Schafer, N. V. Stuart; *Lecturer*: N. J. Mastracchio, Jr.; *Instructors*: J. M. Cainas, R. B. Cockrum, B. Dong, C. L. Jozsi, T. A. Price, W.C. Quilliam.

### Economics

*Chairperson*: K. Gyimah-Brempong; *Professors*: D. M. Bellante, J. S. DeSalvo, K. Gyimah-Brempong, M. G. Herander, J. S. Hodgson, G. A. Picone, P. K. Porter, J. W. Rowe, Jr.; *Professors Emeriti*: C. A. Green, E. J. Ford, W. J. Herman; *Associate Professors*: B. Kamp, M. B. Loewy, M. Munkin, C. R. Thomas; *Assistant Professor*: Y. Deng, J. DeSimone; *Visiting Assistant Professor*: M. Henry; *Lecturer*: S. Bartlett.

### Finance

*Chairperson*: S. Besley; *Professors Emeritus*: A. Beenhakker, R. G. Cox, S. Kapplin, F. Power; *Professors*: S. E. Bolten, R. L. Meyer, J. Qi, K. F. Wieand; *Associate Professors*: S. Besley, S. Bulmash, D. Hunter, C. Pantzalis, N. Sutton; *Assistant Professors*: A. Ho, P. Kelly, D. Parnes, A. Tandon, L. Wedge; *Instructors*: M. Antia, T. Pencek; *Visiting Faculty*: B. Stanley.

### Information Systems & Decision Sciences

*Chairperson*: K. Chari; *Professors*: S. J. Birkin, A. Bhattacharjee, J. E. Blanton, K. Chari, A. R. Hevner (Citigroup/Hidden River Endowed Chair); *Associate Professors*: D. J. Berndt, M. E. Cohen, R. W. Collins, T. G. Gill, N. Hikmet, B. Padmanabhan (Anderson Professor of Global Management), T. L. Sincich, R. P. Will; *Assistant Professors*: M. Agrawal, J. Jones; *Instructors*: M. Burns, M. Dummeldinger, R. Satterfield, B. Warner, W. W. Whitlock.

**Management**

*Chairperson:* A. Balfour; *Professor Emeritus:* R. E. Dutton, K. VanVoorhis, R. Walsh; *Professors:* C.F. Cohen, J. M. Jermier, M. Karlins, J. Koehler, W. R. Nord, T. L. Wheelen; *Associate Professors:* A. Balfour, S. Fuller, C. E. Michaels, Jr., R. L. Nixon, J. Selsky; *Assistant Professor:* M. L. Barnett, M. D. Lee, G. Robbins; *Instructors:* M. G. Bowen, S. Hanna-West, E. Hargis, A. Sharma.

**Marketing**

*Chairperson:* M. B. Stamps; *Professors:* R. L. Anderson, S. A. Baumgarten, R. Dant, D. J. Ortinau, P. J. Solomon, J. R. Stock; *Associate Professors:* J. S. Hensel, A. Kumar, B. Lafferty, R. Plank, M. B. Stamps, S. Varti; *Assistant Professor:* A. B. Artis, J. Curran, Y. Edwards, G. F. Gebhardt, J. S. Keebler; *Instructors:* N.M. Noel, C. Osborne, V. B. Panzer, J. M. Solomon.

# COLLEGE OF EDUCATION

UNIVERSITY OF SOUTH FLORIDA - 2007/2008 UNDERGRADUATE CATALOG

The College of Education is accredited by the National Council for Accreditation of Teacher Education (NCATE). All educator preparation programs must meet the requirements of Chapter 6A-5, Rules of the State Board of Education of Florida, and have "Approved Program" status.

The College of Education envisions itself as a leader in regional, national and international education. Leadership in education encompasses: Collaboration that serves communities, institutions, and individuals; Academic excellence; Research, scholarship, and inquiry that renews the educational process; and Ethical practice and diversity.

The Mission of the College of Education is to: offer challenging learning opportunities in a supportive and diverse environment; create and support research, scholarship, and inquiry in education; prepare the next generation of educators, scholars, and leaders for PK-12 and the professoriate through exemplary undergraduate and graduate degree programs; serve the community to offer programs that prepare professionals who work competently, collaboratively, and ethically to improve educational outcomes for all.

Educator preparation programs are aligned with the Florida Educator Accomplished Practices and each program has an assessment program in place to monitor student progress toward these standards. Programs that do not lead to teacher certification are aligned with their respective professional standards and have assessment programs in place to monitor student progress toward those standards.

The College of Education is committed to a continuous and systematic examination of the professional program of educator preparation. Each subdivision of the college maintains professional standards by participating in nationally-certified program reviews and also through ongoing departmental appraisals of learning outcomes.

The University follows a University-wide approach to educator preparation. Its programs for the preparation of teachers represent a cooperative effort in planning and practice by faculties in appropriate academic areas. Liberal Arts courses and courses in the content areas are offered through the College of Arts and Sciences. Courses primarily designed for teacher candidates are taught by the College of Education faculty.

## Critical Tasks/Assignments

Students in educator preparation programs leading to teacher certification are required to complete critical tasks/assignments in several of their professional preparation courses. Several of the educator preparation programs require students to submit these critical tasks/assignments to an electronic portfolio. Therefore, a yearly access code to the electronic portfolio must be purchased by the student.

Important information is available from the College of Education website at <http://www.coedu.usf.edu/>. For information concerning policies for Undergraduate and MAT Programs refer to the College of Education website at <http://www.coedu.usf.edu/>.

Please be advised that program and/or course requirements and fingerprinting/background check procedures are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

## Admission Requirements for Students Entering Educator Preparation Programs

Students who wish to teach in a particular subject area or field should begin preliminary coursework during their first year in college. However, students are not admitted to the College of Education (and into an educator preparation program) until they finish the university's liberal arts freshman and sophomore requirements and the state-mandated common prerequisites for education, have the appropriate GPA, and have passed the CLAST, PRAXIS, or GKT.

Students may apply for entrance into one of the upper-level educator preparation programs offered by the College of Education after completing prerequisite courses. All students who plan to teach apply for admission to an educator preparation program through the Student Academic Services Office of the College of Education.

Admission to an upper-level educator preparation program is contingent upon meeting the following preliminary college requirements:

1. Completion of a College of Education application form.
2. Completion of General Education requirements. (For USF, see "Academic Policies and Procedures - Liberal Arts Requirements" section of the catalog.) General education courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Community College Counseling Manual. **Note:** Students should attend a pre-education advising session to make certain they are enrolled in courses appropriate to their intended major.
3. Completion of all portions of the CLAST, PRAXIS I, or General Knowledge Test with passing scores. No exemptions or waivers accepted.
4. Although no longer required for admission to the College of Education, students are still encouraged to take the ACT or SAT. Many existing scholarships still require these scores.
5. Completion of State Mandated Common Prerequisites

**Note:** The following prerequisites are required for all education majors. Students should consult their intended majors (listed under "Departments and Programs," below) for a list of other specific course prerequisites and requirements beyond these listed below:

- EDF X005 Introduction to Education (3)
- EDG X701\* Teaching Diverse Populations (3)
- EME X040 Introduction to Educational Technology (3)

\*In addition to EDG X701, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

**Completion of General Education requirements:** General education courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Community College Counseling Manual. (For USF, see "Academic Policies and Procedures - Liberal Arts Requirements" section of the catalog.)

## USF International/Diversity Courses Credits

AFA	2000	Introduction to the Black Experience in Africa and Its Diaspora	3
AFS	2250	Culture and Society in Africa	3
AMH	2010	American History I	3
AMH	2020	American History II	3
AMS	2030	Introduction to American Studies	3
ANT	2000	Introduction to Anthropology	3
ANT	2410	Cultural Anthropology	3
ARH	2050	History of Visual Arts I	3
ARH	2051	History of Visual Arts II	3
BSC	2025	Food: Personal and Global Perspectives	3
COM	2000	Introduction to Communication	3
EGN	2031	History of Technology	3
EUH	2011	Ancient History I	3
EUH	2021	Medieval History I	3
EUH	2022	Medieval History II	3

EUH 2030	Modern European History I	3
EUH 2031	Modern European History II	3
FIL 2001	Film: Language of Vision	4
GEO 1930	Geography of Current Events	4
GEO 2371	Introduction to Earth Systems Science	3
INR 1015	World Perspective	3
LAH 2734	Latin American History in Film	3
LIT 2010	Introduction to Fiction	3
LIT 2040	Introduction to Drama	3
MUL 2011	The Enjoyment of Music	3
MUH 2051	Folk and Traditional Music of World Cultures	3
MUH 2632	Music in the United States	3
MUL 2111	Introduction to Music Literature	3
POS 2080	The American Political Tradition	3
REL 2300	Introduction to World Religions	4
REL 2306	Contemporary World Religions	4
REL 3501	History of Christianity	4
SPT 2524	Women Writers of Latin America	3
SYG 2000	Introduction to Sociology	3

6. Minimum GPA: An overall minimum GPA of 2.50 on all attempted hours.

7. Additional criteria as may be established by each program. Credit requirements in each major include courses in the following categories: Professional Education Core, Teaching Specialization Preparation, and Liberal Arts Exit Requirements. For questions concerning General Education and Liberal Arts Exit Requirements, refer to the Liberal Arts Requirements section of the catalog. See specific requirements for each major listed in "Departments and Programs" below.

Some programs accept a limited number of students. Additionally, certain programs admit students only in a specified semester. Students should refer to the specific program descriptions in this catalog for additional admission information and prerequisites. Information regarding admission requirements for programs may also be obtained from Pre-Education Advising (DAC 107).

## Education Advising

Student Academic Services (SAS) is responsible for many of the processes and procedures that support the academic pursuits of students in the College. The department's major areas of responsibility include: Pre-Education Advising, Undergraduate Advising, Graduate Studies, Teacher Certification, and Internship. SAS is committed to serving the University community, particularly students in the College of Education.

Students are ultimately responsible for knowing and fulfilling all university, college, and degree program requirements for graduation. Students are encouraged to make an appointment with an academic advisor in EDU 106 each semester. For additional contact information, please call the SAS office or visit the web site at <http://www.coedu.usf.edu/sas/>.

### Advising Offices

**Tampa Campus:** For admitted College of Education students, EDU 106, (813) 974-1804. For pre-education students, DAC 107, (813) 974-2979.

**Sarasota Campus:** USS 805D, (941) 359-4331 or 4330.

**Lakeland Campus:** LLC 2100, (800) USF-5636 (in state only), or (863) 667-7023

**Office Hours:** 9 a.m. – 5 p.m. Monday through Friday. The Tampa office is closed on Wednesdays until 10:00 a.m. Generally offices are open 9:00 a.m. - 5:00 p.m. Monday through Friday. Some offices are open before 9 a.m. or until 6, Mondays through Thursdays; call the offices listed above for exact hours and appointment times.

### Application Information:

(Admitted USF students are eligible.) For general information, call (813) 974-2979. The admission process to the College of Education (COE) is separate and in addition to admission to USF. The deadlines to submit an application are as follows: Fall Semester (July 15<sup>th</sup>), Spring Semester (November

15<sup>th</sup>), and Summer Semester (April 15<sup>th</sup>). Not all majors accept applications for summer entrance. Contact the Pre-Education Advising Office (DAC 107) for those majors that accept summer applicants. Tampa Campus students must register and attend a College of Education orientation after being accepted into the College of Education.

During the College Orientation, students receive information about their degree program, and register for courses for their first semester. Regional campus students should call their appropriate campus for orientation and advising appointments.

## Time Limitations

The College of Education may accept professional education and specialization coursework completed at this University or at other accredited institutions as follows:

1. Courses completed within the last five years may be accepted.
2. Courses completed over five years but less than ten years ago must have the approval of the chairperson from the department in which the equivalent course is taught.
3. Courses completed ten years ago or longer will count as elective credit only.

## Qualifications for Internship Experience in Educator Preparation Programs

The final internship experience involves observing and teaching in an early childhood, elementary, secondary, or exceptional classroom. In most programs internship sites include the entire spectrum of sites available in the various counties served by USF.

Special requirements for enrollment in the final internship and seminar courses are:

1. Admission to the College of Education.
2. Completion of General Education, "Gordon Rule," and all other program prerequisites.
3. Passing scores on all sections of the General Knowledge Test.
4. Completion of an application for the final internship by the deadline noted. Applications for final internship are made through the Student Academic Services website ([www.coedu.usf.edu/sas/](http://www.coedu.usf.edu/sas/)). Application deadline for Fall Semester is January 15<sup>th</sup>. Application deadline for Spring semester is June 15<sup>th</sup>.
5. Completion of fingerprinting and background check as required by the school district in which the student is placed.
6. Elementary, Early Childhood and Physical Education programs require completion of all professional education and specialization course work except for EEX 4070 and Senior Seminar.
7. Special Education programs require completion of all professional education and specialization coursework.
8. Secondary Education Programs require completion of the professional course sequence except for EEX 4070/EDF 4430 and a minimum of two thirds of the specialization coursework.
9. Elementary, Early Childhood, and Physical Education programs require a combined grade point average of 2.50 in professional education and specialization coursework as well as an overall USF GPA of 2.50. Special Education programs require an overall USF GPA of 2.50. Secondary Education programs require a minimum GPA of 2.50 in professional education and specialization coursework or an overall USF GPA of 2.50.
10. Students must earn a minimum "C-" grade or "S" in their required major courses.

## College Requirements for Graduation from Educator Preparation Programs

To be certified by the College of Education for graduation, a student must have:

1. Earned a minimum of 120-semester hours credit.
2. Successfully complete all program requirements for ESOL.
3. A minimum overall USF grade-point average of 2.50 or a minimum GPA of 2.50 in teaching specialization courses and a minimum GPA of 2.50 in the Professional Education sequence is required for Secondary Education Programs. The Physical Education, Elementary and Early Childhood programs require a combined grade point average of 2.50 in professional education and specialization as well as an overall USF GPA of 2.50.
4. Satisfactory completion of the internship is also required. Must pass the General Knowledge Test prior to the completion of internship.
5. Passing scores on the appropriate FTCE Subject Area and Professional Education subtests. NOTE: English, Math, Science, and Social Science majors must pass the 6-12 subject matter exam.
6. All documents due for graduation (i.e., test scores, final grades, final transcripts) must be submitted to the Director of Undergraduate Programs and Internship (in EDU 106) no later than 5:00 pm on the Friday after the graduation ceremony. If that date is a university holiday, then the said information must be submitted no later than 5:00 pm on the Thursday after the graduation ceremony.
7. Completed the major requirements in a state-approved educator preparation program (which includes general preparation, teaching specialization, and professional preparation).
8. A minimum of 8 credits in professional courses in addition to internship and 12 credits in specialization courses must have been earned at USF.
9. A minimum of 30 hours after admittance to an upper-level program.

Note: Normally, the college will recommend the granting of a Bachelor of Science (BS) degree which includes a minimum of 6 credit hours of exit courses. To obtain a Bachelor of Arts (BA) degree, the student must meet the Foreign Language Competency (see graduation requirements in front of catalog) and complete 9 hours of exit courses, 3 of which must be in Literature and Writing and 3 of which must be offered outside the College of Education.

### SunCoast Area Teacher Training Program (SCATT)

Founded in 1981, the SunCoast Area Teacher Training (SCATT) Honors Program celebrates excellence in teaching while emphasizing professionalism. SCATT is an award-winning teacher training program designed to enrich the already outstanding teacher preparation programs currently offered within the College of Education. Its mission is to enhance the teaching profession by establishing high performance expectations for all members by offering research-based learning experiences that support exceptional instruction and encourage reflective practice. Although the majority of participants in the SCATT program are undergraduates, as much as 10% of its members are graduate students enrolled in a Master of Arts in Teaching (MAT) program. Classroom teachers may choose to continue their involvement in SCATT by completing the requirements to become a SCATT Clinical Teacher, supervising SCATT students during their final Level III internship.

As an active member of SCATT, students participate in a variety of activities, workshops, seminars and field trips to enrich their knowledge base as educators. The entrance and exit requirements for the program help identify those students who have demonstrated high levels of academic achievement, leadership potential and those who have a commitment to aspire to the highest standards of the teaching profession. To graduate as a SCATT student, individuals participate in activities each semester prior to final internship that extend "above

and beyond" the requirements of their academic curricula. In addition, they are offered the opportunity to network with students pursuing other education programs other than their own. During final internship, SCATT students participate in intensive leadership and communication skills training. The SCATT program is highly regarded by school principals and because SCATT graduates have the enriched experiences necessary to be top-notch teachers. For additional information about the SCATT Honors Program, please feel free to visit the SCATT Office (located on the second floor of the David C. Anchin Center, just off the rotunda), call us at (813) 974-2061 or visit our Web site at ([www.SCATT.coedu.usf.edu](http://www.SCATT.coedu.usf.edu)).

## BACCALAUREATE-LEVEL DEGREE PROGRAMS

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

Program	Department	Code
Early Childhood Education	Childhood Education	(BEC)
Elementary Education	Childhood Education	(BEE)
Exceptional Student Education	Special Education	(BEX)
English Education	Secondary Education	(BEN)
Foreign Language	Secondary Education	
French		(BFF)
German		(BFG)
Italian		(BFI)
Latin		(BFL)
Russian		(BFR)
Spanish		(BFS)
Mathematics Education	Secondary Education	(BMA)
Physical Education K-12	Physical Education	(BPS)
Exercise Science		(BPW)
Science Education	Secondary Education	
Biology		(BSB)
Chemistry		(BSC)
Physics		(BSY)
Social Science Education	Secondary Education	(BSS)

\*A Bachelor of Arts degree may be awarded when competency in a foreign language is demonstrated and a student has met the nine hour Liberal Arts Exit requirements.

Music Education is offered in the College of Visual and Performing Arts.

See Departmental Section for specific program requirements.

## DEPARTMENTS AND PROGRAMS

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

### Department of Adult, Career & Higher Education

The Department of Adult, Career and Higher Education offers no programs at the undergraduate level.

### Department of Childhood Education

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

Please be advised that program and/or course requirements are subject to change, per state legislative mandates,

Florida State Department of Education program approval standards, and accreditation criteria.

All of the programs offered on regional campuses may vary in requirements and course offerings. For an accurate schedule of courses and requirements, please check with the campus you plan to attend.

### Early Childhood and Elementary Education Programs

Early Childhood and Elementary majors will be assigned to a specified sequence of courses to be followed throughout the program enrollment. Coursework will include internship and field experience. Students who withdraw from or who have unsatisfactory grades in the field experiences or internships must petition the department Professional Standards Committee before they will be allowed to repeat the internships. Any internship can only be taken twice before removal from program.

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

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

Part-time students in Early Childhood Education must meet with the program coordinator prior to admission to the program. These students also must meet program and internship requirements associated with the programs. The requirements include being available to participate in internships during regular school hours.

### Early Childhood Program

Students may complete a state-approved program to be eligible for licensure in Early Childhood Education Pre-Kindergarten/Primary (age 3 - Grade 3). The current program of studies includes both coursework and extensive field experiences in early childhood settings to enable students to integrate theory with teaching practice. Graduation is dependent upon successful completion of the required courses, Chalk and Wire requirements, associated internships, and a professional portfolio demonstrating the program outcomes and the Florida Educator Accomplished Practices. Early Childhood majors will be eligible for certification in Pre-Kindergarten/Primary (age 3 - Grade 3). Students must pass all Chalk and Wire assignments and upload every assignment to their Chalk and Wire account in order to graduate from the program.

### Early Childhood Education with ESOL Endorsement

The College of Education offers a full ESOL Endorsement for all Early Childhood Education major graduates. The special requirements for ESOL endorsement through infusion are as follows: Successful completion of (1) TSL 4080, TSL 4081, and TSL 4251, with a minimum grade of 70% or better on all three sections of the ESOL Comprehensive Exam administered in the three ESOL courses; (2) a 20-hour early ESOL field experience in TSL 4080; (3) a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over 10 days; and (4) an ESOL folder, containing all assignments and test results from TSL 4080, TSL 4081, and TSL 4251, and all ESOL performance check-off sheets from other ESOL-infused courses that a student has taken.

### Elementary Education Program

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

integrate theory with teaching practice. All elementary education students are required to demonstrate the Accomplished Practices (APs) through core assignments in courses and internships that are submitted to the Chalk and Wire electronic portfolio system. Students must pass all Chalk and Wire assignments and upload every assignment to their Chalk and Wire account in order to graduate from the program.

### Elementary Education with ESOL Endorsement

The College of Education offers a full ESOL Endorsement for all Elementary Education major graduates. The special requirements for ESOL endorsement through infusion are as follows: Successful completion of (1) TSL 4080, TSL 4081, and TSL 4251, with a minimum grade of 70% or better on all three sections of the ESOL Comprehensive Exam administered in the three ESOL courses; (2) a 20-hour early ESOL field experience in TSL 4080; (3) a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over 10 days; and (4) an ESOL folder, containing all assignments and test results from TSL 4080, TSL 4081, and TSL 4251, and all ESOL performance check-off sheets from other ESOL-infused courses that a student has taken.

### • EARLY CHILDHOOD EDUCATION: Pre-Kindergarten/Primary

**Requirements for the B.S. Degree (BEC):** In addition to the courses listed below, students must complete "Preliminary Requirements for Students entering Teacher Education Programs."

### Prerequisites (State Mandated Common Prerequisites):

These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

- EDF X005 Introduction to Education (3)
- EDG X701\* Teaching Diverse Populations (3)
- EME X040 Introduction to Educational Technology (3)

\*In addition to EDG X701, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

### Completion of General Education requirements:

General education courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Community College Counseling Manual. (For USF, see "Academic Policies and Procedures - Liberal Arts Requirements" section of the catalog.)

### Professional Education Core (39 cr. hrs.):

EDF 4111	Child Growth and Learning	3
EEC 4940	Senior Internship	10
EEC 4941	Field Experience I	3
EEC 4936	Senior Seminar in Elementary Early Childhood Education	2
EEC 4942	Field Experience II	3
EEC 4943	Field Experience III	3
EDG 4909	Directed Studies*	1-4
TSL 4080	Curriculum and Pedagogy of ESOL	3
TSL 4081	Literacy Development in English Language Learners	3
TSL 4251	Applying Linguistics to ESOL Teaching and Testing	3

\*Please see academic advisor for required Directed Studies courses.

**Specialization (30 cr. hrs.):**

EEC 4008	Literature in Early Childhood Education (Exit)	3
<b>OR</b>		
LAE 4414	Children's Literature	3
EEC 4203	Programs for Young Children	3
EEC 4211	Integrated Curriculum: Science and Mathematics	3
EEC 4212	Integrated Curriculum: Social Sciences/Humanities & Art	3
EEC 4303	Creative and Affective Experiences for Young Children	3
EEC 4307	Cognitive Experiences for Young Children	3
EEC 4408	Child, Family & Teacher Relations	3
EEC 4706	Language and Emerging Literacy	3
HSC 3301	Health, Safety, Nutrition and Motor Skills for the Young Child	3
RED 4310	Early Literacy Learning	3
RED 4511	Linking Literacy Assessment to Instruction	3

The order in which these courses are to be taken is spelled out in the program of study.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

NOTE: In order to satisfy the 6 hour rule for Exit requirements, Early Childhood students must pass an exit requirement course (in addition to EEC 4008) outside of the Early Childhood program.

### • ELEMENTARY EDUCATION

**Requirements for the B.S. Degree (BEE):** In addition to the courses listed below, students must complete "Preliminary Requirements for Students entering Teacher Education Programs."

**Prerequisites (State Mandated Common Prerequisites):** These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

- EDF X005 Introduction to Education (3)
  - EDG X701\* Teaching Diverse Populations (3)
  - EME X040 Introduction to Educational Technology (3)
- \*In addition to EDG X701, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

**Completion of General Education requirements:** General education courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Community College Counseling Manual. (For USF, see "Academic Policies and Procedures - Liberal Arts Requirements" section of the catalog.)

Students are advised that the Elementary Education specialization will require an enrollment of more than the traditional four semesters of the junior and senior years in order to complete the program specialization courses and the required sequence of internship.

The order in which these courses are to be taken is designated in the program of study.

**Professional Education (32-33 credit hours):**

EDF 3122	Learning and the Developing Child	3
EDF 3604	Social Foundations of Education (Exit)	3
EDF 4430	Measurement for Teachers	3
EEX 4070	Integrating Exceptional Students in the Regular Classroom	2-3
TSL 4080	Curriculum and Pedagogy of ESOL	3
TSL 4081	Literacy Development in English Language Learners	3
TSL 4251	Applying Linguistics to ESOL Teaching and Testing	3
EDE 4940	Internship	10-12

**Specialization (41 credit hours):**

EDE 4301	Classroom Management, School Safety, Ethics, Law, and Elementary Methods	3
EDE 4941	Childhood Education Internship Level I	3
HLP 4722	Health and Physical Education for the Child	2
EDE 4942	Childhood Education Internship Level II	6
LAE 4314	Teaching Writing in the Elementary School	3
LAE 4414	Teaching Literature in the Elementary Schools (Exit)	3
MAE 4310	Teaching Elementary School Mathematics I	3
MAE 4326	Teaching Elementary School Mathematics II	3
RED 4310	Reading and Learning to Read	3
RED 4511	Linking Literacy Assessment to Instruction	3
SCE 4310	Teaching Elementary School Science	3
SSE 4313	Teaching Elementary (K-6) Social Studies	3
EDE 4223	Creative Experiences for the Child	3

## Department of Secondary Education

The following programs are housed in the Department of Secondary Education:

- English Education with ESOL Endorsement
- Foreign Language Education with ESOL Endorsement
- Mathematics Education
- Science Education
- Social Science Education

The undergraduate programs offered by the department are designed to prepare students to meet Florida teacher certification requirements and to become highly competent secondary teachers. Specialized courses in the teaching of mathematics, science, and social science are also offered for students majoring in elementary, early childhood, and special education.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

### • ENGLISH EDUCATION with ESOL Endorsement

**Requirements for the B.S. Degree (BEN):** In addition to the courses listed below, students must complete "Preliminary Requirements for Students entering Teacher Education Programs."

The College of Education offers a full ESOL Endorsement for all English Education major graduates. The special requirements for ESOL endorsement through infusion are as follows: Successful completion of (1) FLE 4317 and FLE 4316 with a minimum grade of 70% or better on part one and part two of the ESOL Comprehensive Exam administered in the two ESOL courses; (2) a 20-hour early ESOL field experience in FLE 4317;

(3) a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over 10 days; and (4) an ESOL binder, containing all ESOL-related assignments taken in the College of Education and an ESOL-performance Standards Checklist that documents the completion of the necessary number of standards.

**Prerequisites (State Mandated Common Prerequisites):**

These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

- EDF X005 Introduction to Education (3)
- EDG X701\* Teaching Diverse Populations (3)
- EME X040 Introduction to Educational Technology (3)
- Other program prerequisites: \*\*  
SPC X600 Public Speaking (3)  
Literature course (3)  
Electives in English (3)

\*In addition to EDG X701, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

\*\*Courses specified in this category may apply to general education coursework.

**Completion of General Education requirements:**

General education courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Community College Counseling Manual. (For USF, see "Academic Policies and Procedures - Liberal Arts Requirements" section of the catalog.)

**Recommended Courses:**

Literature Course (3 hours) - select from LIT, AML, ENL (LIT 2000 or ENL 3323 recommended)  
English Electives (9 hours) - to include advanced composition and mediacy  
(CRW 2100 or CRW X111 and MMC 2100 or ENC X310 and LIT 2046 or LIT X301 recommended)

**Professional Education (23 credit hours):**

EDF 3604	Social Foundations of Education (Exit)	3
EDF 3214	Human Development and Learning	3
EDF 4430	Measurement for Teachers	3
EEX 4070	Integrating Exceptional Students in the Regular Classroom	2
FLE 4317	Teaching LEP Students K-12	3
FLE 4316	Language Principles and Acquisition	3
	Literacy Course	3
ESE 4322	Classroom Management	3

**Specialization (21 credit hours):**

ENC 3310	Expository Writing	3
<b>One of the following:</b>		
LIT 3103	Great Literature of the World (Exit)	3
WST 4410	Third World Women Writers (Exit)	3
LAE 4469	Teaching World Literature to Middle and Secondary Students	3
<b>One of the following:</b>		
AML 3031	American Literature to 1860	3
AML 3032	American Literature 1860-1912	3
AML 3051	American Literature 1912-1945	3
<b>One of the following:</b>		
ENL 3015	British Literature to 1616	3
ENL 3230	British Literature 1616-1780	3
ENL 3251	British Literature 1780-1900	3
ENL 3273	British Literature 1900-1945	3

One of the following:

LIT 3383	The Image of Women in Literature	3
LIT 4386	British and American Literature by Women (Exit)	3

One of the following:

LIN 3010	Introduction to Linguistics	3
ENG 4060	History of the English Language	3

One of the following:

LIN 3670	English Grammar and Usage	3
LIN 4680	Structure of American English	3

**Additional Specialization (24 credit hours):**

LAE 4464	Adolescent Literature for Middle and Secondary Students (Exit)	3
LAE 4323	Methods of Teaching English: Middle School (Fall Semester Only)	3
LAE 4530	Methods of Teaching English: Practicum (Fall Semester Only)	3
LAE 4335	Methods of Teaching English: High School (Spring Semester Only)	3
LAE 4936	Senior Seminar in English Education	2
LAE 4940	Internship: English Education	10

**FOREIGN LANGUAGE EDUCATION with ESOL Endorsement**

**Requirements for the B.S. Degree (BFS/BFF/BFI/BFG/BFR):** In addition to the courses listed below, students must complete "Preliminary Requirements for Students entering Teacher Education Programs." A minimum of 30 credit hours beyond intermediate course requirements must be earned in the foreign language. Programs are available for Spanish (BFS), French (BFF), Italian (BFI), German (BFG) and Russian (BFR).

The College of Education offers a full ESOL Endorsement for all Foreign Language Education major graduates. The special requirements for ESOL endorsement through infusion are as follows: Successful completion of (1) FLE 4317 and FLE 4316 with a minimum grade of 70% or better on part one and part two of the ESOL Comprehensive Exam administered in the two ESOL courses; (2) a 20-hour early ESOL field experience in FLE 4317; (3) a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over 10 days; and (4) an ESOL binder, containing all ESOL-related assignments taken in the College of Education and an ESOL-performance Standards Checklist that documents the completion of the necessary number of standards. FLE students must also take ESOL 2, which is not part of the ESOL requirement for the FLE program, but does meet the reading requirement.

**Prerequisites (State Mandated Common Prerequisites):**

These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

- EDF X005 Introduction to Education (3)
- EDG 2701\* Teaching Diverse Populations (3)
- EME 2040 Introduction to Educational Technology (3)
- Other program prerequisites: \*\*  
XXXXXXX (12)

\*In addition to EDG X701, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

\*\*Courses specified in this category may apply to general education coursework.

**Completion of General Education requirements:** General education courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Community College Counseling Manual. (For USF, see "Academic Policies and Procedures - Liberal Arts Requirements" section of the catalog.)

**Professional Education (33 credit hours):**

EDF 3214	Human Development and Learning	3
EDF 3604	Social Foundations of Education (Exit)	3
EDF 4430	Measurement for Teachers	3
EEX 4070	Integrating Exceptional Students in the Regular Classroom	3
FLE 4316	Language Principles and Acquisition	3
FLE 4317	Teaching LEP Students K-12	3
TSL 4081	ESOL 2 Literary Development in English Language Learners	3
FLE 4936	Senior Seminar in Foreign Language Education	2
FLE 4940	Internship: Foreign Language Education	10
ESE 4322	Classroom Management	3

**Teaching Specialization (42 credit hours):**

- Foreign language (30)  
Conversation and Composition 12  
Literature 6  
Culture and Civilization 6  
Linguistics 3  
Exit requirement language course 3
- Foreign Language Education  
12 credit hours in methods of teaching a language at the elementary and secondary levels, including a practicum.  
Fall Term:  
FLE 4314 Methods of Teaching Foreign Languages and ESOL in the Elementary School 3  
Spring Term:  
FLE 4333 Methods of Teaching Foreign Languages and ESOL in the Secondary School 3  
FLE 4370 Practicum in Foreign Language Teaching in the Secondary School 3  
Summer Term:  
FLE 4290 Technology in the Foreign and Second Language Classroom 3

• **MATHEMATICS EDUCATION**

**Requirements for the B.S. Degree (BMA):** In addition to the courses listed below, students must complete "Preliminary Requirements for Students entering Teacher Education Programs (see statement under main college heading)."

**Prerequisites (State Mandated Common Prerequisites):** These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

- EDF X005 Introduction to Education (3)
- EDG 2701\* Teaching Diverse Populations (3)
- EME 2040 Introduction to Educational Technology (3)
- Other state mandated program prerequisites:\*\*  
Four (4) hours Calculus & Analytic Geometry I  
Four (4) hours Calculus & Analytic Geometry II  
Four (4) hours Electives in Mathematics  
Three (3) hours Computer Programming Language (applicable to microcomputer)  
\*In addition to EDG X701, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

\*\* Courses specified in this category may apply to general education coursework.

**Completion of General Education requirements:** General education courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Community College Counseling Manual. (For USF, see "Academic Policies and Procedures - Liberal Arts Requirements" section of the catalog.)

**Professional Education (32 credit hours):**

EDF 3214	Human Development and Learning	3
EDF 3604	Social Foundations of Education (Exit)	3
EDF 4430	Measurement for Teachers	3
EEX 4070	Integrating Exceptional Students in the Regular Classroom	2
TSL 4324	ESOL Competencies and Strategies	3
MAE 4940	Internship: Mathematics Education	10
MAE 4936	Senior Seminar in Mathematics Education	2
ESE 4322	Classroom Management	3

**Specialization (30-31 credit hours):**

MAC 2313	Calculus III	4
MAD 3100	Discrete Mathematics	3
MAS 3105	Linear Algebra	4
MAS 4214	Elementary Number Theory	3
MAS 4301	Elementary Abstract Algebra	3
MGF 3301	Bridge to Abstract Mathematics	4
MHF 4403	Early History of Math (Exit)	3
MTG 3212	Geometry	3
or		
MTG 4214	Modern Geometry	4
STA 2023	Intro Statistics I	4

**Additional Specialization (15 credit hours):**

MAE 4320	Middle School Methods	3
MAE 4330	Senior High School Methods	3
MAE 4551	Reading the Language of Mathematics	3
MAE 4652	Technology for Teaching Secondary School Mathematics I	3
MAE 4653	Technology for Teaching Secondary School Mathematics II	3

• **SCIENCE EDUCATION**

**Requirements for the B.S. Degree (BSB, BSC, BSY):** In addition to the courses listed below, students must complete "Preliminary Requirements for Students entering Teacher Education Programs."

**Prerequisites (State Mandated Common Prerequisites):** These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

- EDF X005 Introduction to Education (3)
- EDG X701\* Teaching Diverse Populations (3)
- EME X040 Introduction to Educational Technology (3)
- Other state mandated program prerequisites:  
*For Biology Teacher Education\*\** -  
Biology with Lab 8  
Chemistry with Lab or Physics with Lab 8  
Electives in Science 6  
*For Chemistry Teacher Education\*\** -  
Chemistry with Lab 8  
Biology with Lab or Physics with Lab 8  
Electives in Science 6  
*For Physics Teacher Education\*\** -  
Physics with Lab 8  
Biology with Lab or Chemistry with Lab 8  
Electives in Science 6

\*In addition to EDG X701, a minimum of 6 semester hours with an international or diversity focus is required.

Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

\*\* Courses specified in this category may apply to general education coursework.

**Completion of General Education requirements:** General education courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Community College Counseling Manual. (For USF, see "Academic Policies and Procedures - Liberal Arts Requirements" section of the catalog.)

**Professional Education Core for all Tracks (29 credit hours):**  
The required courses in the professional education core are as follows:

EDF 3214	Human Development and Learning	3
EDF 3604	Social Foundations of Education (Exit)	3
EDF 4430	Measurement for Teachers	3
EEX 4070	Integrating Exceptional Students in the Regular Classroom	2
TSL 4324	ESOL Competencies and Strategies	3
SCE 4936	Senior Seminar in Science Education	2
SCE 4940	Internship: Science Education	10
ESE 4322	Classroom Management	3

### **Biology Education**

*Prerequisites (19 credit hours):*

BSC 2010	Biology I*	3
BSC 2010L	Biology I Lab*	1
BSC 2011	Biology II*	3
BSC 2011L	Biology II Lab*	1
CHM 2045, 2045L	General Chemistry I and Lab*	
and		
CHM 2046, 2046L	General Chemistry II and Lab	8
or		
PHY 2048, 2048L	General Physics I and Lab (with Calculus)	
and		
PHY 2049, 2049L	General Physics II and Lab* (with Calculus)	
or		
PHY 2053, 2053L	General Physics and Lab*	
and		
PHY 2054, 2054L	General Physics and Lab	
Human Anatomy Physiology Course		3

*Specialization (40 credit hours):*

Human Anatomy Physiology Course	3
PCB 3063 General Genetics	3
PCB 3023, 3023L Cell Biology and Lab	4
PCB 3043, 3043L Principles of Ecology and Lab	4
PCB 4674 Organic Evolution	3
MCB 3030C Introduction to Microbiology	4
BSC 4057 Environmental Issues (Exit)	3
SCE 4320 Teaching Methods in Middle Grades Science	3
SCE 4330 Teaching Methods in Secondary School Science	3
SCE 4305 Communication Skills in the Science Classroom	3
SCE 4236 Science, Technology, Society Interaction	3

*Additional Requirements*

MAC 2281	Engineering Calculus I	4
or		
MAC 2311	Calculus I	4

### **Chemistry Education**

*Prerequisites (16 credit hours):*

CHM 2045	General Chemistry I*	3
CHM 2045L	General Chemistry Lab*	1
CHM 2046	General Chemistry II*	3
CHM 2046L	General Chemistry II Lab*	1
BSC 2010, 2010L	Biology I and Lab*	
and		
BSC 2011, 2011L	Biology II and Lab*	8
or		
PHY 2048, 2048L	Physics I and Lab* (with Calculus)	
and		
PHY 2049, 2049L	Physics II and Lab* (with Calculus)	
or		
PHY 2053, 2053L	Physics and Lab*	
and		
PHY 2054, 2054L	Physics and Lab*	

*Specialization (37 credit hours):*

CHM 2210, 2210L	Organic Chemistry I and Lab	5
CHM 3120C	Elementary Analytical Chemistry	3
CHM 3400	Elementary Physical Chemistry I	3
CHM 3610, 3610L	Intermediate Inorganic Chemistry and Lab	4
CHM 4070	Historical Perspectives in Chemistry	3
BCH 3023	Introductory Biochemistry	3
SCE 4320	Teaching Methods in Middle Grades Science	3
SCE 4330	Teaching Methods in Secondary School Science	3
SCE 4305	Communication Skills in the Science Classroom	3
SCE 4236	Science, Technology, Science Interaction	3
MAC 2281	Engineering Calculus I	4
or		
MAC 2311	Calculus I	

### **Physics Education**

*Prerequisites (16 credit hours):*

BSC 2010, 2010L	Biology I and Lab*	
and		
BSC 2011, 2011L	Biology II and Lab*	8
or		
CHM 2045, 2045L	General Chemistry I and Lab*	
and		
CHM 2046, 2046L	Chemistry II and Lab*	8
PHY 2048, 2048L	General Physics I and Lab* (with Calculus)	
and		
PHY 2049, 2049L	General Physics II and Lab* (with Calculus)	
or		
PHY 2053, 2053L	General Physics I and Lab*	
and		
PHY 2054, 2054L	General Physics II and Lab*	

*Specialization (39 credit hours):*

PHY 2020	Conceptual Physics	3
PHY 3101	Modern Physics	3
PHY 3221	Mechanics I	3
PHY 3323C	Electricity and Magnetism	3
PHY 4031	Great Themes in Physics	3
Physics Electives (Select from PHY3 to PHY5, PHZ3 to PHZ5)		
Computer Applications in Physics		3
SCE 4320	Teaching Methods in Middle Grade Science	3
SCE 4330	Teaching Methods in Secondary School Science	3
SCE 4305	Communication Skills in the Science Classroom	3

SCE 4236	Science, Technology, Society Interaction	3
MAC 2311	Calculus I	4
MAC 2312	Calculus II	4
MAC 2313	Calculus III	4

\*May be part of General Education Requirements

## • SOCIAL SCIENCE EDUCATION

**Requirements for the B.S. Degree (BSS):** In addition to the courses listed below, students must complete "Preliminary Requirements for Students entering Teacher Education Programs." It is recommended that students pursue a double major in Social Science Education with History or one of the Social Sciences.

**Prerequisites (State Mandated Common Prerequisites):** These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

- EDF X005 Introduction to Education (3)
- EDG X701\*Teaching Diverse Populations (3)
- EME X040 Introduction to Educational Technology (3)
- Other program prerequisites\*\*:  
American Government (3)  
Select four of the six areas for a total of 12 credit hours:  
Anthropology (3), Cultural Geography (3), Economics (3), History (3), Psychology (3), Sociology (3)

\*In addition to EDG X701, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

\*\* Courses specified in this category may apply to general education coursework.

**Completion of General Education requirements:** General education courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Community College Counseling Manual. (For USF, see "Academic Policies and Procedures - Liberal Arts Requirements" section of the catalog.)

The following are the courses recommended by the Social Science Education program to fulfill the State Mandated Common Prerequisites:

- 1 POS 2041 American National Government  
or  
POS 2080 American Political Tradition
- 2 ANT 2000 Introduction to Anthropology  
or  
ANT 2410 Cultural Anthropology
- 3 GEA 2000 Global Geography
- 4 ECO 1000 Basic Economics  
or  
ECO 2013 Macroeconomics
- 5 SYG 2000 Introduction to Sociology  
or  
SYG 2010 Contemporary Sociology

### Professional Education Core (17 credit hours):

EDF 3214	Human Development and Learning	3
EDF 3604	Social Foundations of Education (Exit)	3
EDF 4430	Measurement for Teachers	3
EEX 4070	Integrating Exceptional Students in the Regular Classroom	2
TSL 4324	ESOL Competencies and Strategies	3
ESE 4322	Classroom Management	3

### Social Sciences Specialization (44-45 credit hours):

AMH 2010	American History I	3
AMH 2020	American History II	3
AMH 3421	Early Florida	4
AMH 3423	Modern Florida	4
GEA 2000	World Regional Geography	3
HUM 2210	Studies in Culture: Classical through Medieval	3
HUM 2230	Studies in Culture: Renaissance through the 20 <sup>th</sup> Century	3
INR 3018	World Ideologies	3
POS 2112	State and Local Government	3
Any 3000/4000 level Social Science course		3/4
Any course from African, Asian, or Latin American, or Middle Eastern History		3
One of the following:		
ANT 2000	Introduction to Anthropology	3
ANT 2410	Cultural Anthropology	3
One of the following:		
ECO 1000	Basic Economics	3
ECO 2013	Macroeconomics	3
One of the following:		
SYG 2000	Introduction to Sociology	3
SYG 2010	Contemporary Problems	3
One of the following:		
POS 2041	American National Government	3
POS 2080	The American Political Tradition	3

### Social Science Education (27 credit hours):

SSE 4333	Teaching Middle Grades Social Science	3
SSE 4334	Teaching Secondary Grades Social Science	3
SSE 4335	Teaching Social Science Themes*	3
SSE 4600	Reading and Basic Skills in the Social Sciences	3
SSE 4936	Senior Seminar in Social Sciences Education	2
SSE 4940	Internship: Social Science Education**	10

\*SSE 4333 must be successfully completed prior to SSE 4335.

\*\*Only SSE 4936 can be taken at the same time as SSE 4940.

## Department of Educational Measurement and Research

The Department of Educational Measurement and Research offers EDF 4430, Measurement for Teachers, that provides students with the measurement and evaluation skills and dispositions they need to be effective classroom teachers. Students use curriculum-based, learner-based, context-based, and professionally-based standards to develop and use objective, product, and live performance tests; attitude observation and self-report assessments; they analyze and evaluate learner progress, their tests, and their instruction; and they communicate learner progress using portfolios, grades, and standardized test profiles. The course is delivered using web-based distance and web-enhanced laboratory format.

## School of Physical Education and Exercise Science

The School of Physical Education and Exercise Science teaches a variety of Elective Physical Education courses and conducts a Physical Education Teacher Preparation Program, and an Exercise Science Program. For Athletic Training, please refer to the College of Medicine Orthopedic Surgery.

### • PHYSICAL EDUCATION ELECTIVE PROGRAM

Physical Education elective offerings in the School of Physical Education and Exercise Science are designed to provide

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

## • PHYSICAL EDUCATION and EXERCISE SCIENCE

Students must enroll in one of the following programs: a) Physical Education K-12 (Florida Teacher Certification); or b) Exercise Science.

**Requirements for the B.S. Degree (PET, BPW):** The two-year programs are offered beginning in the junior year and includes mandatory attendance during the summer session between the junior and senior years. Students in Physical Education and Exercise Science may enter in the Fall Semester of each year only. Students proceed through the programs in cohorts and are required to complete all required courses each semester with a grade of "C-" or better in order to progress to the next semester. Students who do not complete the requirements will be dismissed from the program and may reapply for the next cohort.

### **For K-12 Physical Education Major (PET):**

**Prerequisites (State Mandated Common Prerequisites):** These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

- EDF X005 Introduction to Education (3)
- EDG X701\* Teaching Diverse Populations (3)
- EME X040 Introduction to Educational Technology (3)
- Other program prerequisites\*\*
  - Anatomy & Physiology I (3-4)
  - Care and Prevention of Athletic Injuries or Anatomy & Physiology II w/ lab (3-4)
  - Skill Development Courses in Physical Activities (4-5)
  - Conditioning, Fitness & Wellness Courses in Physical Activities (3)

\*In addition to EDG X701, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement. \*\* Courses specified in this category may apply to general education coursework.

**Completion of General Education requirements:** General education courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Community College Counseling Manual. (For USF, see "Academic Policies and Procedures - Liberal Arts Requirements" section of the catalog.)

### **Semester I:**

EDF 3122	Learning and the Developing Child	3
or		
EDF 4131	Learning and the Developing Adolescent	3
TSL 4324	ESOL Competencies and Strategies	3
PET 3421	Curriculum & Instruction in Phys. Ed.	3
PET 4432	Instructional Design & Content: Physical Education Elementary	3
PET 4942	Phys. Ed. Pre-Internship: Elementary	3
Total		15

### **Semester II:**

EDF 3604	Social Foundations of Education (Exit)	3
EDF 4430	Measurement for Teachers	3
PET 3031	Motor Behavior	3
PET 3314	Professional Development Seminar	3
PET 4433	Instructional Design & Content: Physical Education Elementary II	3
Total		15

### **Semester III:**

PET 3012	Professional Development in Phys. Ed. I	1
PET 3441	Instructional Design & Content: Middle School Physical Education	3
RED 4310	Reading and Learning to Read	3
PET 3640	Adapted Physical Education	3
PET 4304	Principles and Issues in Coaching	3
Total		13

### **Semester IV:**

PET 3013	Professional Development in Phys. Ed. II	1
EDG 4909	Directed Studies *	3
PET 4401	Class Management, Safety, Ethics, Law and Organization and Administration of Physical Education	3
PET 4442	Instructional Design & Content: Physical Education Secondary	3
PET 4944	Phys. Ed. Pre-Internship: Secondary	3
Total		13

\*Please see academic advisor for required Directed Studies course.

### **Semester V**

PET 4946	Internship in Phys. Ed.: Elementary	6
PET 4947	Internship in Phys. Ed.: Secondary	6
PET 3252	Issues in Sport (exit)	3
Total		15

### **For Exercise Science Major (BPW):**

Students who successfully complete the undergraduate Exercise Science Major earn a B.S. degree in Physical Education with a Specialization in Exercise Science. This program is offered in the School of Physical Education, Wellness, and Sport Studies in the College of Education. The Exercise Science program is endorsed by the American College of Sports Medicine (ACSM) and prepares students for a variety of entry level positions in the exercise science field. See our website (<http://pe.usf.edu/exsci/>) for the types of jobs and job settings available as well as other important information. Successful completion of the program qualifies students for national professional certifications such as ACSM's Health/Fitness Instructor (H/FI) and the National Strength and Conditioning Associations (NSCA's) Certified Strength and Conditioning Specialist (CSCS).

The course work is offered over a two-year period beginning in the fall semester of the student's junior year as shown below. The summer session between the junior and senior year is mandatory. Students can enter the program during the fall semester only and they progress through the program in a cohort.

**Completion of General Education requirements:** General education courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Community College Counseling Manual. (For USF, see "Academic Policies and Procedures - Liberal Arts Requirements" section of the catalog.)

**Major Requirements:**

The exercise science program is a full-time program. Students must be available for classes from 8:00 am - 4:00 pm, Monday through Thursday each semester. Additional time commitments may be necessary for course work such as PET 3940 (Practicum) and PET 4941 (Internship). The exercise science program is a *limited access* program meaning that enrollment is limited to 30 students each fall semester. Selection of the 30 students is based on the following criteria:

1. An overall GPA of 2.50. This is a College of Education criterion.
2. Completion of all the following "common statewide prerequisites" for exercise science programs by the spring semester prior to fall admission with a C- or higher.
3. Students with the top 30 composite GPAs will be selected for admission into the program. A composite GPA score will be calculated for each student by adding 30% of the overall GPA and 70% of the common statewide prerequisite GPA.

**Prerequisites (State Mandated Common Prerequisites):**

These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

Human Anatomy and Physiology I and lab	4
or	
Human Anatomy and lab	4
Human Anatomy and Physiology II and lab	4
or	
Human Physiology and lab	4
College Algebra or higher	3
Statistics or Pre-Calculus	3
General Psychology	3
General Nutrition	3
Survey of Chemistry or higher and lab	4

The following are "recommended" prerequisite courses and the grades in these courses will not be used to calculate the "common statewide prerequisite" GPA for admission.

- |                               |   |
|-------------------------------|---|
| 1. PEM 2131 Weight Training   | 2 |
| 2. SPC 2600 Public Speaking   | 3 |
| 3. HLP 2081 Personal Wellness | 3 |

NOTE: Though no computer course is recommended, students need to possess excellent computer skills, e.g., MS applications.

**Admission Criteria:** Students must:

1. Apply to the University of South Florida.
2. Submit a completed application to the Exercise Science program, including official transcripts between June 1st and July 15th for fall admission.
3. Complete the General Education requirements for the University of South Florida or for the Florida public college or university in which the student took his or her General Education requirements.
4. Successfully meet exemption requirements for CLAST or successfully complete the exam. It is recommended that students successfully meet the exemption requirements for the CLAST or complete the exam prior to admission; however, this requirement may be met once the student is admitted to the program. Students must complete the exemption or the exam prior to graduation.

**Requirements, After Admission:**

By August 1st, students will be informed if they have been accepted into the program. Students accepted into the program must inform the College of Education advising office by August 15th that they will or will not be enrolling in fall classes.

Once admitted, students will need to meet the following requirements:

1. Complete an online College of Education Orientation and attend an Exercise Science Orientation prior to the beginning of the fall semester.
2. Sign an agreement to abide by the standards set forth in the School of Physical Education, Wellness, and Sports Studies *Student Handbook on Professional Behavior and Ethical Conduct*.
3. Pay for costs in addition to tuition, fees, and books such as:
  - a. Material and supply fee for PET 3384
  - b. Student membership for the Exercise Science student organization
  - c. Professional liability insurance
  - d. Student membership in at least one professional organization
  - e. Transportation to and from field experiences required in courses including the practicum and internship
  - f. Possible requirements of practicum/internship sites such as health/medical exam, immunizations/vaccines, criminal background check, finger printing, drug/alcohol screening, personal health insurance, uniforms, and parking
  - g. Possible costs associated with obtaining physician clearance (e.g., medical exam and/or tests) prior to participation in physical activity/exercise. Students complete a Pre-Activity Screening Questionnaire (PASQ) based on American College of Sports Medicine guidelines to determine if physician clearance is needed.
  - h. Assignments in some classes (e.g., printing/binding of group project reports, academic and professional portfolio, etc.)
4. Receive a grade of C- or higher in all required courses and maintain a 2.5 GPA in order to progress to the next semester.
5. Complete 10 hours of volunteer community service for a non-profit health care organization.
6. Complete Continuing Education Credit (CEC) tests published in exercise science refereed journals.

**Semester 1 Fall (12 hours)**

PET 3211 Stress Management	2
PET 3312 Biomechanics	3
PET 3314 Professional Development Seminar	1
PET 3353 Exercise Physiology	3
PET 3361 Nutrition for Fitness and Sport	3

**Semester 2 Spring (15 hours)**

PET 3365 Physical Activity Epidemiology	3
PET 3384 Exercise Testing and Prescription	3
PET 3713 Theory & Practice of Teaching Group Exer.	3
PET 3404 Emergency Response and Planning	3
Liberal Arts Exit	3

**Semester 3 Summer (9hours)**

PET 3940 Practicum in Fitness/Wellness	3
PET 4093 Strength and Conditioning	3
PET 4402 Planning & Eval. Fitness/Wellness Prog.	3

**Semester 4 Fall (12 hours)**

PET 4219 Exercise Psychology	3
PET 4406 Individualized Fitness/Wellness Prog.	3
PET 4416 Administration of Fitness/Wellness Center	3
PET 4550 Clinical Exercise Testing & Prescription	3

**Semester 5 Spring (12 hours)**

PET 4941 Internship in Fitness/Wellness	9
PET 3252 Issues in Sport (Liberal Arts Exit) - recommended	3

## Department of Psychological and Social Foundations of Education

The Department of Psychological and Social Foundations of Education does not offer a specific major or degree program, but provides courses for all students majoring in the wide array of undergraduate programs available in the College of Education. These courses contribute to the students' understanding of the general education enterprises and are considered foundational to later professional specialization. Consequently, these courses should be taken early in the professional program, typically in the junior year.

### Professional Education Core (34-39 cr. hrs.):

EDF 3122	Learning and the Developing Child	3
EDF 3214	Human Development and Learning	3
EDF 3514	History of Education in the United States	3
EDF 3604	Social Foundations of Education	3
EDF 4111	Child Growth and Learning	3
EDF 4131	Learning and the Developing Adolescent	3

### In addition the department offers:

EDF 3228	Human Behavior and Environmental Selection	3
EDF 4905	Independent Study: Educational Foundations	1-3
EDF 4909	Directed Study: Educational Foundations	1-3
EDF 5607	Trends in Social-Political Foundations of Schooling in the U.S.	3
IDS 3115	Values and Choices	3

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

MHS 4052	Human Relations Skills in Counseling	4
MHS 4905	Independent Study: Guidance and Counseling Education	1-4
SDS 4040	Introduction to Student Personnel Work in Higher Education	2

## Department of Special Education

The Department of Special Education prepares teachers to work with children who have emotional and behavioral disabilities, mental retardation, and specific learning disabilities. The undergraduate program is a state-approved program that leads to certification in Exceptional Student Education (ESE).

Students are required to meet University and College of Education entrance requirements prior to enrollment in the Department. Upon admission, students affiliate with the campus on which they wish to take their program of studies. Students may not register for courses on other campuses without permission. On the Tampa Campus, students are assigned to teams. All courses are taken with the assigned team. The program sequence includes three semesters of part-time field experience and one semester of full-day internship. All part-time field experiences must be successfully completed as a member of a team concurrently enrolled in a specified course in designated local schools. Final internships are assigned only to designated school districts where partnerships exist. Field experiences begin during the first semester of a student's enrollment with increasing involvement throughout the program. Students are responsible for providing transportation to their experience sites.

In some instances students may pursue a part-time program (9 hours or less a semester). This requires that students be available to participate in field experiences and concurrent classes during regular school hours.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

### • EXCEPTIONAL CHILD EDUCATION with ESOL Endorsement

The College of Education offers a full ESOL Endorsement for all Special Education major graduates. The special requirements for ESOL endorsement through infusion are as follows: Successful completion of (1) FLE 4317 and FLE 4316 with a minimum grade of 70% or better on part one and part two of the ESOL Comprehensive Exam administered in the two ESOL courses; (2) a 20-hour early ESOL field experience in FLE 4317; (3) a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over a 10 days; and (4) an ESOL binder, containing all ESOL-related assignments taken in the College of Education and an ESOL-performance Standards Checklist that documents the completion of the necessary number of standards.

**Prerequisites (State Mandated Common Prerequisites):** These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

- EDF X005 Introduction to Education (3)
  - EDG X701\* Teaching Diverse Populations (3)
  - EME X040 Introduction to Educational Technology (3)
- \*In addition to EDG X701, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

**Completion of General Education requirements:** General education courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Community College Counseling Manual. (For USF, see "Academic Policies and Procedures - Liberal Arts Requirements" section of the catalog.)

### Professional Education Core (31-32 credit hours):

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

EEX 4941	Practicum in ESE	6
EDF 3122	Learning and the Developing Child	3
or		
EDF 3214	Human Development and Learning	3
EDF 3604	Social Foundations of Education (Exit)	3
EDF 4430	Measurement for Teachers	3
FLE 4316	Language Principles and Acquisition	2
FLE 4317	Teaching LEP Students K-12	3
EEX 4940	Internship: Exceptional Student Education	1-10
EEX 4936	Senior Seminar in Exceptional Student Education	1

### Area of Specialization

#### Exceptional Student Education

Students seeking the B. S. degree with certification in Exceptional Student Education are required to take the following courses:

EEX 4011	Foundations of Special Education	3
EEX 4054	Perspectives on Learning and Behavioral Disorders	3
EEX 4221	Educational Assessment of Exceptional Students	3

EEX 4243	Education of the Exceptional Adolescent and Adult	3
EEX 4604	Behavior Management for Special Needs and at Risk Students	3
EEX 4742	Narrative Perspectives on Exceptionality: Cultural and Ethical Issues (Exit)	3
EEX 4846	Clinical Teaching in Special Education	3
EMR 4011	Mental Retardation and Developmental Disabilities	3
LAE 4314	Teaching Writing	3
MAE 4310	Teaching Elementary School Mathematics I	3
RED 4310	Early Literacy Learning	3
RED 4511	Linking Literature Assessment to Instruction	3

## Student Organizations and Activities

### The Alliance of Health and Fitness Professionals

The Alliance of Health and Fitness Professionals (AHFP) is an official USF student organization designed to provide exercise science majors with a variety of professional development and leadership experiences. Activities include preparing for certifications in the field, attending professional conferences, participating in volunteer community projects and programs, and coordinating many local educational and social events. Each year, the organization plans an annual awards banquet to recognize graduating seniors.

### Association of Physical Education College Students (APECS)

The Association of Physical Education College Students (APECS) is open to all students enrolled in the K-12 Physical Education Program. Social and professional meetings are conducted throughout the year. Professional service to the community is also provided by the association. Student Council for Exceptional Children

### Kappa Delta Pi

Kappa Delta Pi is an international co-educational honor society in Education. The society was founded to recognize and encourage excellence in scholarship, high personal standards, improvement in teacher preparation, and distinction in achievement. Undergraduate student applicants must have an overall grade point average of 3.0. Graduate students must have an overall grade point average of 3.5. For more information regarding Kappa Delta Pi please visit [www.kdp.org](http://www.kdp.org).

### Multi-Cultural Organization of Students in Education (M.O.S.E.)

The Multi-Cultural Organization of Students in Education provides students with experiences that will facilitate the educational and professional growth of its members. This is achieved by providing information about the various opportunities available to them, scheduling activities that will enrich their experiences, as well as organizing the sponsorship and participation in community service programs. Created support systems are provided (bi-weekly meetings and faculty to student mentoring). Guest speakers are also invited to meetings to discuss topics of interest such as employment and graduate school.

### National Education Association Student Program (NEASP)

The National Education Association extends its usual member benefits to student teachers, providing opportunities for professional growth, leadership training, and also \$1 million liability insurance coverage while interns are engaged in student teaching. Membership is open to all students.

### Student Council for Exceptional Children

The Student Council for Exceptional Children [SCEC] is an organization of those members of the University interested in the education of children who are gifted, emotionally disturbed,

physically handicapped, mentally retarded, or have specific learning disabilities.

Activities of the USF Chapter include field trips to various special educational facilities, opportunities to hear prominent speakers, attend seminars, visit state and national conventions, and participate in social events. All interested students are invited to join.

### Suncoast Area Teacher Training (SCATT)

The SunCoast Area Teacher Training (SCATT) Honors Program is an award-winning teacher training program designed to enhance the outstanding teacher preparation programs offered within the USF College of Education. Its mission is to enhance the teaching profession by establishing high performance expectations for all members and offering research-based learning experiences that support exceptional instruction and encourage reflective practice. SCATT students participate each semester in a variety of activities, workshops, seminars and field trips to enrich their knowledge base as educators. To apply, please complete an application available in the SCATT Office, which is located on the second floor of the David C. Anchin Center in the COEDU building, visit our website at <http://scatt.coedu.usf.edu/>, or call (813) 974-2061 for additional information.

## EDUCATION FACULTY

### Adult, Career & Higher Education

*Chairperson:* W. R. Sullins; *Professors:* W.E. Blank, J.A. Eison, W.B. James, W.H. Young; *Associate Professors:* D. Dellow, V. Hernandez-Gantes, J.M. Ignash, J.B. Scaglione, W.R. Sullins; *Assistant Professors:* R. B. Closson.

### Childhood/Language Arts/Reading Education

*Interim Chairperson:* R. Brindley; *Professors:* S. Graves, S. Homan, J. King, M. Mann, J. Richards; *Associate Professors:* N. Anderson, I. Berson, S. Kragler, K. Laframboise, E. Larkin, J. Linder, M. L. Morton, S. Rushton, J. Schneider, N. Williams; *Assistant Professors:* M. Byrd Blake (Sarasota), J. Blank, D. Dennis, L. Kosten (Sarasota), J. Manning, W. Mo, A. Parker, S. Quinn, R. Sylvester (Lakeland), G. P. Wilson (Sarasota); *Instructors:* A. Hall, C. Lippincott, J. R. Meadows (Lakeland), D. Stewart, G. Wyatt (Lakeland); *Professor Emeritus:* J. Klesius.

### Educational Measurement and Research

*Chairperson:* C.V. Hines; *Professors:* J. M. Ferron, C. V. Hines, J. D. Kromrey; *Associate Professors:* R. F. Dedrick; *Assistant Professors:* Y. Chen, L. Rodriguez-Campos; *Visiting Professors:* J. Niles, G. Rendina-Gobioff.

### Physical Education and Exercise Science

*Director:* S. Sanders; *Professors:* J. Eickhoff-Shemek, F.N. Faucette, S. Sanders, M. J. Stewart; *Associate Professor:* C.D. Ashley; *Assistant Professors:* B. Campbell, M. Kilpatrick, A. Phillips, S. Haichun.

### Psychological and Social Foundations

*Chairperson:* H. Exum; *Professors:* G. Batsche, M. J. Curtis, E. V. Johannimgmeier, H. Keller, K. Marfo; *Professors Emeritus:* W.W. Burley, J.C. Dickinson, R. J. Drapela, E. Kimmel; *Associate Professors:* J. Baggerly, K. Bradley-Klug, D. Cobb-Roberts, D. DeMarie, S. Dorn, W. Henry, R. Marshall, L. Raffaele Mendez, T. Miller, D. Osborn, B. Shircliffe, S. Street, C. Zalaquett; *Assistant Professors:* W. Greenidge, S. Kiefer, L. Lopez, J. Mariano, S. Matthu, M. Mitcham-Smith, L. McBrien, T. Rodrigues, S. Suldo, T. Tan; *Visiting Assistant Professors:* R. Harbor, J. Leavy, M. L. Taylor.

**Secondary Education**

*Chairperson:* S. J. Thornton; *Professors:* J.H. Applegate, A. Barron, M. Berson, B. C. Cruz, J. A. Duplass, J.H. Johnston, J.F. Kaywell, C. Kennedy, D.J. Puglisi, B.S. Spector, D. R. Thompson, D. Zeidler; *Courtesy Professor:* C. M. Feyten, H.E. Steiner; *Professor Emeritus:* J. Golub, H.E. Steiner; *Associate Professors:* R. A. Austin, F. D. Breit, P.L. Daniel, G. Kersaint, J. A. White; *Assistant Professors:* S. Downey, L. Evans, H. Gerretson, E. Howes, D. Kim, G. Smith, M. Van Olphen, ; *Instructors:* P.C. Smith, A. Vasquez; *Visiting Instructors:* J. Ducher, J. Green, B. Rosenthal, C. Sheffield.

**Special Education**

*Chairperson:* D. Thomas; *Professors:* M. Churton, A. Cranston-Gingras, A. Duchnowski, J. Kleinhammer-Tramill, J. Paul, B. Townsend; *Associate Professors:* D. Allsopp, P. Jones, B. Loeding, D. Thomas; *Assistant Professors:* P. Alvarez McHatton, M. Matthews, S. E. Shaunessy, J. White; *Jointly Appointed Faculty:* R. Clark, G. Dunlap, R. Friedman, K. Kutash, M. Hernandez, T. Stokes; *Instructor:* K. Colucci, B. Doone.

# COLLEGE OF ENGINEERING

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

## MISSION STATEMENT

The mission of the USF College of Engineering is to continuously aspire to excellence in teaching, research and public service. The College values academic excellence, professionalism, ethics and cultural diversity among its students, staff and faculty. The College is committed to addressing the needs of its constituencies and gives careful consideration to the urban and suburban populations in our service area.

At the undergraduate level the College is committed to provide students with a strong, broad-based, fundamental engineering education as preparation for careers in industry in a global environment, and government, or as preparation for advanced studies in professional schools of engineering, science, law, business and medicine.

At the graduate level students work in close collaboration with faculty, pursuing advanced topics within their disciplines, which will result in advancements in their fields and society at large.

Utilizing the expertise of its individual and collective faculty, the College is dedicated to the development of new fundamental knowledge and processes or procedures, which will benefit all humanity. The College promotes multi-disciplinary approaches, commitment to life-long learning and awareness of societal issues, which are requisite for meeting technological challenges.

The College provides technical assistance and technology transfer to the region, state and nation. In all facets of teaching, research and service, the College emphasizes close liaisons with industry and government to provide students and faculty with the skills and perspectives needed to ensure effective technological leadership.

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## DEPARTMENTS AND PROGRAMS

The College of Engineering offers undergraduate and graduate programs to prepare students for a broad spectrum of professional careers in engineering. Laboratory experience as well as real-world participation in technological problem solving is a key aspect of a professional engineer's college education. The College of Engineering, in implementing this need, augments modern laboratory and research facilities in close collaboration with the professional societies and the many industries in the metropolitan Tampa Bay area. The College of Engineering offers undergraduate degrees in Chemical Engineering, Civil Engineering, Computer Engineering, Computer Science, Information Systems, Electrical Engineering, General Engineering, Industrial Engineering, and Mechanical Engineering. In addition, the College offers a minor in Biomedical Engineering and several certificate programs offering additional specialization expertise in a related or cross disciplinary area.

The engineering programs of the College have been developed with an emphasis on three broad aspects of engineering activity: design, research, and the operation of complex technological systems. Students who are interested in advanced design or research should pursue the 5-Year Program leading to a Master of Science degree in a designated Engineering discipline. The Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology, Inc. (ABET) has accredited the Engineering programs of the College (Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Industrial Engineering and Mechanical Engineering). The Bachelor of Science program in Computer Science is accredited by the Computing Accreditation Commission (CAC) of ABET.

The supervision of the academic programs for the College is the function of the administrative departments together with several coordinators. Each department is responsible for specific professional programs, faculty, laboratories, and student advising.

The Departments and Programs section that follows contains descriptions of the engineering degrees offered by the College. The "Four Year Programs" section includes courses students need to take, beginning with the freshman year, to earn the Bachelor of Science in Engineering degree.

Students interested in particular programs offered by the College of Engineering should direct their inquiries to the College of Engineering Office of Student Services (see Advising section below). Information is also available on the College's website: <http://www.eng.usf.edu/>.

## PROFESSIONAL ENGINEERING

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

The Bachelor of Science degrees offered in the various engineering disciplines provide the student a broad education with sufficient technical background to contribute effectively in many phases of engineering not requiring the depth of knowledge needed for advanced design or research. The baccalaureate degree is considered the minimum educational credential for participating in the engineering profession and is the first professional degree. Students interested in design and research are strongly encouraged to pursue advanced work beyond the baccalaureate either at this or other institutions. It is evident that large segments of today's engineering professionals are involved in some form of post baccalaureate study. Engineers are earning advanced degrees to obtain the information and training necessary to meet effectively tomorrow's technological challenges. All are faced with the continuing problem of refurbishing and updating their information skills and most are obtaining advanced information by means of formal graduate study, seminars, special institutes and other such systems designed for this purpose. *Life-long learning is a fact in engineering practice and graduates must be committed to it.*

The Bachelor of Science degree program in a designated engineering discipline and the Master of Science degree in the same discipline may be pursued simultaneously in a program called the Five-Year Program.

## Professional Registration

Students who have attained senior status, and are in good academic standing in an ABET accredited Engineering Program, are eligible to register for examinations leading to licensure as Professional Engineers. The first examination, called the Fundamentals of Engineering (FE) Exam, is offered by the Florida Board of Professional Engineers and is usually taken the semester prior to graduation. In addition to the knowledge acquired through the engineering curriculum, many students take advantage of review courses offered by the Engineering Student College Council or the College of Engineering's distance education program, APEX, to prepare for the Fundamentals of Engineering Examination. Registering for the FE exam during the senior year is strongly encouraged for students graduating with an engineering degree.

## Preparation for Engineering

Students planning to attend USF's College of Engineering should familiarize themselves thoroughly with the College's admissions standards and requirements for their prospective program, which are more stringent than the University's minimum entrance requirements.

The high school student anticipating a career in engineering should select the strongest academic program available, including four years each of English, mathematics and science (preferably including Chemistry, Physics, and Biology), as well as all programs in the social sciences and humanities.

Prospective students considering engineering at the University of South Florida who lack certain preparation in high school must elect to follow a program to overcome their deficiencies. Alternatives for these students, classified as "Pre-Engineering majors" might include preparatory coursework at the University of South Florida or the many community colleges that offer the preliminary coursework.

Students planning to transfer to the University of South Florida's engineering program from a Florida state operated college or university should follow a pre-engineering program leading to an A.A. degree. All transfer students should complete as much of the mathematics and science coursework as is available to them. Junior/community college students intending to pursue an engineering program at USF should contact the advisor at their institution and request a course equivalency list.

*In general, engineering courses taken for military training, at the lower level, or as part of an A.S. or technology degree are not transferable to the engineering programs.* Transfer students should be aware that the College expects them to meet departmental admission requirements just as it expects its own students to meet these requirements.

The Office of Engineering Student Services will assist prospective transfer students in formulating a sound total program. Interested students should contact the Director of Advising (813/974-2684 or [kjohnson@eng.usf.edu](mailto:kjohnson@eng.usf.edu)) furnishing sufficient details to permit meaningful response.

## College Computing Facilities

The College provides access to centralized computing facilities to undergraduate and graduate students. Most engineering departments also provide students with local facilities. The University is an Internet2 site and links are available to directly connect to all major supercomputing centers in the country.

The College provides enterprise level servers for computing, mail, file, web and database services for students and faculty. The College operates several computer open-access labs for student use. These labs are equipped with a large number of modern PCs and Unix workstations. Laboratory computers have the necessary software required for coursework as well as other standard productivity software. The College also supports a state-of-the-art multimedia lab.

Laboratory computers provide the software required for coursework and research. Standard programming languages such as FORTRAN, Basic, Pascal, C, C++ and Java are provided on these machines. General-purpose software such as MS Office, MS Visual Studio and specialized engineering software including mathematical packages (Mathcad, MATLAB, Mathematica, Maple, Macsyma, TK Solver), statistical package (SAS), discipline specific application packages such as Abaqus, Ansys, ARENA, Aspen, Cadence and Labview are provided on Unix and Windows platforms on the network and in the labs. Several database management system software packages such as Oracle, MySQL, MSSQL and MS Access are available for classwork. Multi-media software packages such as MS FrontPage, Adobe Acrobat, Illustrator, Photoshop, Omni Page Pro, Paint Shop Pro, Macromedia Dreamweaver and Flash are available in the multi-media lab. The university has also entered an agreement with Microsoft Corporation for upgrade of

standard office application, development tools and desktop operating systems.

The college-wide Ethernet network is connected to the USF campus-wide Gigabit Ethernet backbone. Within the College connections are provided to laboratories via 100 Mbps Ethernet. The university's Internet2 connection links it to more than 150 major universities and research institutions in the nation.

## Student Computer Recommendations

It is strongly recommended that engineering students obtain a laptop (suggested) or desktop computer prior to the semester in which specialization courses commence. The recommended computer configuration for engineering applications is indicated on the College web page [www.eng.usf.edu/](http://www.eng.usf.edu/). For further details, contact the Associate Dean of Engineering or the Director of Engineering Computing in the College.

## Cooperative Education and Internship Programs

A wide variety of industries and government agencies have established cooperative education and internship programs for engineering students to provide them the opportunity to become familiar with the practical aspects of operations, engineering research, and careers. Students in the Career Resource Center's Cooperative Education (Co-op) program may alternate periods of paid employment in their major field with like periods of study, or may elect to participate in part-time employment while attending classes every semester. Students following the Co-op program usually encounter no problems in scheduling their program, since required Social Science and Humanities, Mathematics and Science, and Engineering Common courses are offered every semester. Students normally apply for participation in this program during their sophomore year and pursue actual Co-op employment during their junior and senior years. The senior year is generally pursued on a full-time study basis, since many specialization courses are not offered every semester. The students receive a Cooperative Education Certificate upon successful completion of a minimum of two work assignments.

## Engineering Students in the University Honors College

Engineering students participating in the University Honors Program are able to complete their Engineering Bachelors degree in four years. Many enter the 5 Year program in the fourth year to pursue the combined Bachelors and Masters programs in Engineering. Students who qualify for the Honors Program at USF should contact the Honors College or Engineering Student Services to learn about the benefits of this prestigious program.

## Army, Air Force & Navy R.O.T.C. For Engineering Students

The academic and technological knowledge an engineering degree provides is a distinct advantage to individuals interested in a military appointment or career. This is especially true for those participating in one of the ROTC programs at USF.

## Five-Year Programs Leading to the Bachelor and Master of Science Degrees in Engineering

Well qualified students who, at the beginning of their senior year, are clearly interested in graduate study are invited to pursue a Five-Year Program of study leading simultaneously to the Bachelor of Science and Master of Science in Engineering.

## Undergraduate Admission to the College of Engineering

Students may apply to the College of Engineering upon initial entry to the University by declaring Engineering as their intended major on their admissions application. When a student is accepted to USF, engineering admissions officers will review the necessary credentials and notify the applicant of his or her Engineering status.

Continuing USF students may apply through the Office of Engineering Student Services. To be considered for admission to the College, an applicant must be accepted by the University as a degree-seeking student and be in good standing academically.

### College of Engineering Admission Requirements

Students meeting or exceeding the below criteria are granted direct entry to the College. Others are classified "Pre-Engineering." Pre-Engineering and transfer students are fully admitted to the College after satisfactorily completing Calculus I and II and Physics I and II with labs. Additional requirements must be met prior to admission to specific degree programs.

1. Freshmen:
  - a. Test Scores:
    - SAT—combined score of 1150 minimum with a minimum quantitative of 550.
    - ACT—combined score of 25 minimum and mathematics of 25 minimum.
  - b. High School Mathematics: Should include sufficient algebra and trigonometry to enter Engineering Calculus I.
  - c. High School Grade Point Average of 3.0/4.0.

#### 2. Transfer Students:

- a. Engineering
  - Florida community college transfer students that have completed the courses shown below with a minimum grade of "C" are accepted directly into the College of Engineering. Additional requirements must be met prior to admission to specific degree programs.

##### Communications:

ENC 1101/1102 English I and II (6)

##### Humanities & Social Sciences:

Humanities Courses (6)  
Social Science Courses (6)  
Humanities or Social Sciences (3)

##### Mathematics:

USF	C/C
MAC 2281	MAC 2311* (4)
MAC 2282	MAC 2312* (4)
MAC 2283	MAC 2313* (4)
MAP 2302	MAP 2302 (3)

\*or MAC 2281, MAC 2282, MAC 2283

##### Natural Sciences:

USF	C/C
CHM 2045	CHM 1045* (3)
CHM 2045L	CHM 1045L* (1)
PHY 2048	PHY 2048 (3)
PHY 2048L	PHY 2048L (1)
PHY 2049	PHY 2049 (3)
PHY 2049L	PHY 2049L (1)

\*or CHS 1440 Chemistry for Engineers

#### b. Computer Science

Transfer students into the Computer Science program from a Florida community college are not required to have MAP 2302 or the Chemistry course indicated above.

#### c. Information Systems

Transfer students into the Information Systems program from a Florida community college are not required to have MAP 2302 or Calculus III or the Chemistry course indicated above.

All other transfer students should contact the College's Admission Office (813/974-2684).

## Transfer Credit

The USF College of Engineering will accept transfer credit when appropriate if the transferred course has been passed with a grade of "C" or better. In some cases credit for a course may be granted, but the hours accepted may be less than the hours earned at another school.

While credit work from other institutions may be granted subject to the conditions of the previous paragraph, at least 30 credit hours including a *minimum* number of semester hours of engineering coursework specified by the degree-granting department must be taken at USF to receive the baccalaureate degree.

Transfer credit evaluation is conducted in the Office of Engineering Student Services. Transfer students should be prepared to submit College catalogs and course syllabi from the previous institution if requested.

In general, engineering and technology courses taken at the lower level, at technical schools, or as part of professional or military training, are not applicable to the degree programs of the College of Engineering.

## Required Prerequisites for Entering Engineering programs

Once a student has been admitted to the College of Engineering, he/she must then seek admission into one of the academic departments. Departmental admissions requirements vary by program. Students considering transferring to USF should familiarize themselves with the requirements for their intended department as early as possible. Students admitted to the University of South Florida and the College of Engineering must qualify for the program of their choice by completing the courses and successfully meeting the GPA criteria detailed below. Unless otherwise stated, the minimum acceptable grade in math and science prerequisites is a C (C- is insufficient). Minimum acceptable grades for math, science and engineering courses, as they pertain to specific degree programs are defined by the academic departments. Students are *strongly encouraged to familiarize themselves with departmental guidelines*.

Prior to being admitted to a department, a student may be permitted to take no more than two departmental engineering courses. Once admitted, individual departments may have continuation requirements which specify minimum performance standards in the core courses for the discipline which must be met before further registration in the Department is granted.

### The Department of Chemical & Biomedical Engineering

#### Bachelor of Science in Chemical Engineering:

- Completion of MAC2311 or MAC2281, MAC2312 or MAC2282, MAC2313 or MAC 2283  
PHY2048, PHY2048L, PHY2049, PHY2049L  
CHM2045, CHM2045L  
with a minimum grade of C in each course.
- A minimum overall GPA of 2.0
- A minimum USF GPA of 2.0

### The Department of Civil and Environmental Engineering

#### Bachelor of Science in Civil Engineering:

- Completion of MAC2311 or MAC2281, MAC2312 or MAC2282, MAC2313 or MAC 2283  
PHY2048, PHY2048L, PHY2049, PHY2049L  
CHM2045, CHM2045L  
with a 2.3 GPA (based on best attempt) in these prerequisites
- A minimum overall GPA of 2.0
- A minimum USF GPA of 2.0

### The Department of Computer Science and Engineering

Bachelor of Science in Computer Engineering and  
Bachelor of Science in Computer Science

- Admission to the Department as a Pre-CSE student requires*
- Completion of ENC1101, ENC1102, MAC2311 or MAC2281, MAC2312 or MAC2282, PHY2048, PHY2048L, PHY2049, PHY2049L with a 3.0 GPA (based on best attempt in these courses) and a minimum grade of "C" in each course (grades of "C-" are insufficient).
  - A minimum overall GPA of 2.0
  - A minimum USF GPA of 2.0

*Admission to one of the three major degree tracks is granted by also meeting the following continuation requirements*

- Completion of CDA3103 and COP3514 with a minimum grade of "C", based on best attempts in each course ("C-" is insufficient).
- A minimum overall GPA of 2.0
- A minimum USF GPA of 2.0

#### *Bachelor of Science in Information Systems*

- Admission to the Department as a Pre-CSE student requires*
- Completion of ENC1101, ENC1102, MAC2311, MAC2281 or MAC2241, MAC2312, MAC2282 or MAC2242, PHY2048 and PHY2048L or PHY2053 and PHY2053L, PHY2049 and PHY2049L or PHY2054 and PHY2054L with a 3.0 GPA (based on best attempt in these courses) and a minimum grade of "C" in each course ("C-" is insufficient).
  - A minimum overall GPA of 2.0
  - A minimum USF GPA of 2.0

*Admission to one of the three major degree tracks is granted by also meeting the following continuation requirements*

- Completion of CDA3103 and COP3514 with a minimum grade of "C", based on best attempts in each course (grades of "C-" are insufficient).
- A minimum overall GPA of 2.0
- A minimum USF GPA of 2.0

#### **The Department of Electrical Engineering**

*Bachelor of Science in Electrical Engineering:*

- Completion of MAC2311 or MAC2281, MAC2312 or MAC2282, MAC2313 or MAC 2283, PHY2048, PHY2048L, PHY2049, PHY2049L, CHM2045, CHM2045L with a minimum grade of C in each course and a 2.25 GPA based upon all attempts in these courses.
- A minimum overall GPA of 2.0
- A minimum USF GPA of 2.0

#### **The Department of Industrial and Management Systems Engineering**

*Bachelor of Science in Industrial Engineering:*

- Completion of MAC2311 or MAC2281, MAC2312 or MAC2282, MAC2313 or MAC 2283, PHY2048, PHY2048L, PHY2049, PHY2049L, CHM2045, CHM2045L with a minimum grade of C in each course.
- A minimum overall GPA of 2.0
- A minimum USF GPA of 2.0

#### **The Department of Mechanical Engineering**

*Bachelor of Science in Mechanical Engineering:*

- Completion of MAC2311 or MAC2281, MAC2312 or MAC2282, MAC2313 or MAC 2283, PHY2048, PHY2048L, PHY2049, PHY2049L, CHM2045, CHM2045L

with a 2.5 GPA (based on better of first two attempts) and a minimum grade of C (not C-) in these courses.

- A minimum overall GPA of 2.0
- A minimum USF GPA of 2.0

#### **FIVE-YEAR PROGRAMS LEADING TO BACHELORS AND MASTERS DEGREES IN ENGINEERING**

Well qualified students who, at the beginning of their senior year, are clearly interested in graduate study are invited to apply to the Five-Year Program leading simultaneously to the Bachelor of Science in Engineering or Engineering Science and Master of Science in Engineering or Engineering Science degrees. The general basis of the five-year program includes:

1. The opportunity of taking some graduate courses during the fourth year and deferring the taking of some senior courses to the fifth year.
2. Up to six credit hours, to be determined by program, may be counted toward both degrees in some degree programs.

Students apply for admission to this program through their departmental advisor. Admissions requirements vary by department.

Applicants must have senior standing (90 credits) with at least 16 upper level engineering credits and must meet or exceed the graduate program entrance requirements of the department.

#### **Engineering Advising**

Effective pursuit of engineering and engineering related studies requires careful attention to both the sequence and the type of courses taken. The engineering curriculum differs in key respects from the study plans of other majors—even in the freshman year.

New students must attend the University's Orientation program. They will be introduced to the engineering advisors during this program and receive advisement for their first semester.

The student and advisors jointly work out a plan of study that meets both the student's career objectives and the College of Engineering's degree requirements. The advisors maintain College of Engineering student records.

Students not yet meeting departmental admissions requirements are advised in the office of Engineering Student Services.

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

The College of Engineering requires all undergraduates to apply for graduation the semester prior to the anticipated graduation term. Necessary forms and instructions can be obtained in the Engineering Student Services Office or from departmental advisors.

#### **Advising Offices**

*Tampa Campus:* TECO Energy Hall, Room 1302, (813) 974-2684.

*Sarasota Campus:* Room C111, (941) 359-4521.

*Lakeland Campus:* Student Services Office (LLC), Room 2100, (863) 667-7071

#### **Preliminary Coursework for Engineering Students**

The College of Engineering Bachelor of Science programs are founded on a set of coursework that is designed to give each student a thorough foundation of knowledge on which specialization studies and a professional career can be based. Emphasis is placed on three key elements; development of communication skills, familiarity with the social sciences and humanities and a solid base in science and mathematics.

Each degree-granting department has developed a list of courses to provide key elements for the degree offered. While

the specific courses will vary slightly from one department to another, the categories are as follows:

General Education Courses  
Mathematics, Chemistry and Physics  
Engineering Courses  
Department Specialization

Students selecting an engineering major should be aware of specific requirements. Students may consult the College's Advising Office for detailed information.

The Engineering undergraduate student must not only be a technically competent individual but a person who can understand, adjust and contribute to the social environment.

Students who transfer from a State of Florida community college with an Associate of Arts will find their General Education coursework satisfies the USF General Education Requirements.

All Engineering students must complete the USF Exit Requirements. The Literature and Writing portion can be met by completing ENC 3246 Communication for Engineers. The three-hour Major Works/Major Issues requirement is integrated into the senior year curriculum. Students who have completed a previous bachelors degree with transfer work equivalent to required exit courses may be exempt from one or both of these requirements.

### 1. University Liberal Arts Requirements

All students are required to take 42 semester hours to complete the University liberal arts requirements. Thirty-six (36) semester hours will satisfy the general education course requirements and 6 semester hours will satisfy the exit requirements. These requirements are distributed as follows:

General Education Requirements*	Semester Hours
English Composition	6
Quantitative Methods	6
Natural Sciences	6
Social Sciences	6
Historical Perspectives	6
Fine Arts	3
African, Latin American, Middle Eastern or Asian Perspectives	3
	<u>36</u>
<b>Exit Requirements* (Must be taken at USF)</b>	
Major Works and Major Issues	3
Literature and Writing	3

\*Courses may be certified in more than one area, but students may use each course in **only** one (1) area.

In addition, 12 hours considered Gordon Rule Communication (6A) courses must be completed. For Engineering students, these are ENC 1101, ENC 1102, ENC 3246, and one more. The fourth course is selected from any general education or departmental courses that have been certified Gordon Rule Communication (6A) by the USF Undergraduate Council.

Courses in the liberal arts requirements should incorporate the following components whenever they are relevant to the specific discipline: the learning skills of conceptual thinking, analytical thinking, creative thinking, written expression, oral expression, and the dimensions of values and ethics, international perspectives, environmental perspectives, race and ethnicity, and gender. When warranted by the subject matter, each course must incorporate consideration of at least one of the dimensions and one of the thinking skills to meet the liberal arts requirements.

Departments should ensure that courses proposed for the liberal arts have sufficient depth and breadth. These courses will share the substantive rigor and intellectual challenge of courses offered for major credit, with the specific feature of offering an integrative perspective of the discipline and its relationship to academia as a whole. Additionally, such courses

will encourage majors to interact with students from other disciplinary backgrounds.

### 2. Mathematics and Science Core Requirements

For students in the engineering programs, the mathematics coursework consists of a Calculus for Engineers sequence (or a calculus sequence of equivalent level), Differential Equations, and additional hours of designated courses supportive of the student's selected field of specialization, as specified by the department. Science coursework includes the Physics with Calculus sequence and General Chemistry course(s) depending on the degree-granting program.

Students whose high school preparation is insufficient to enter the Calculus for Engineers are required to take supplementary algebra and trigonometry prior to being considered for acceptance into the College.

## Grading Policies

### 1. S/U GRADING POLICY

Students pursuing College of Engineering degree programs are expected to take their courses on a graded basis. Please refer to the grading system in the Academic Policies and Procedures section of this catalog. S/U grading option must be requested during the first week of classes. Courses taken on an S/U basis are not applicable to the College's degree programs. Exceptions require written approval of the department advisor prior to registration.

### 2. I GRADE POLICY

The criteria for requesting and time limit for completing a grade of "I" (incomplete) are detailed in the University's Academic Policies and Procedures portion of this Catalog. A written agreement detailing the specific requirements and time limit for completion is required in some departments and recommended in all others.

Full tuition must be paid and an audit form must be submitted to the Registrar's Office by the end of the first week of classes if a student wishes to attend the course again to review the material. If a student registers for the course but does not request to audit the course, a grade will be submitted for the subsequent registration and the I grade will be converted to an IF. In this case, the student may choose to apply grade forgiveness.

### 3. Minimum Acceptable Grade in Required Courses

Unless otherwise stated, the minimum acceptable grade in math and science prerequisites is a C (C- is insufficient). Minimum acceptable grades for engineering, math and science courses, as they pertain to specific degree programs, are determined by the academic departments. Students are *strongly encouraged to familiarize themselves with departmental guidelines*.

## Continuation and Graduation Requirements

### 1. Minimum GPA Requirements

To meet graduation and continuation requirements all undergraduate Engineering students must maintain a minimum cumulative GPA of 2.0 in the following categories:

- 1) Overall Undergraduate GPA
- 2) USF GPA
- 3) GPA\* in Math and Science courses required for the curriculum
- 4) Engineering Courses
- 5) Specialization Courses

\*Note: The Math Science GPA is based upon the best attempt. Other categories include all attempts, unless grade forgiveness has been applied. In no case will the minimum GPA for a category be less than 2.0.

Students who do not maintain the required minimums of the program pursued in each category are ineligible for further registration in the College unless individually designed continuation programs are recommended by the student's academic advisor and approved by the department undergraduate coordinator or the Director of Admissions & Advising.

Under University of South Florida policy, students who have been academically dismissed may petition the Academic Regulations Committee for readmission. The College may lend support to such a petition after the first dismissal from the University if extenuating circumstances existed and if the deficiency can be corrected within two semesters. However, should a second dismissal occur, the College will not support readmission to the College of Engineering.

Students who are academically dismissed from the University of South Florida may choose to attend another institution of higher learning and reapply to USF after thus improving their overall GPA. These returning students will be considered for readmission to the College if they meet the program entrance requirements for their intended major as published in the University of South Florida Undergraduate Catalog in effect during the term of return.

## 2. English Requirement

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

## 3. Mathematics Requirement

Students evidencing a lack of the ability to apply mathematics will be required to take remedial coursework beyond their regular degree requirements. Faculty of the College who encounter students deficient in mathematical ability will refer such cases to the Advising Office even if passing grades have been obtained in the math prerequisites for engineering.

## 4. Residency Requirement

Transfer students must complete a minimum number of specialization courses in the USF degree granting department. The minimum number of USF specialization credit hours required is established by the respective academic department. In no case will this be less than 18 hours. The University residency requirement of 30 USF hours must also be met. General engineering courses are not considered specialization courses.

## 5. Satisfactory Progress and Years to Degree

Students who register for a course three times without receiving the required grade (i.e., receive a grade below that required for the intended major or W (withdrawn)) will be denied further enrollment in the College of Engineering unless written permission is obtained from the Department Chairperson and the College Associate Dean for Academic Affairs or his designee.

The College of Engineering requires that a student complete the baccalaureate degree within five years after beginning engineering specialization courses. Specialization courses taken more than five years prior to graduation will not be counted toward the degree. Exceptions may be granted by the Academic Department.

## 6. Disruption of Academic Process and Academic Dishonesty

The College of Engineering will maintain an environment that encourages all to study and conduct engineering research free from undue disruption. Disruption of the Academic Process is a matter the College is obliged to report to Student

Judicial Services. Academic dishonesty, in any form, is taken very seriously by the College of Engineering and will result in sanctions. The most serious penalty is dismissal from the University. (See University policies regarding academic dishonesty.)

## 7. Grievance Procedure

Students should make themselves fully aware of the University's grievance procedures. (See University policies regarding grievance procedures.)

## 8. University, College and Program Requirements

*The College requirements described in the section above are in addition to requirements set forth in the University policy and procedures section and the departmental sections of this catalog. It is the student's responsibility to complete all university, college, program and curricular requirements prior to graduation.*

## 9. Graduation Application Procedures and Deadlines

Each engineering student is required to complete an application for graduation and check list. Students should schedule an appointment with the Department Undergraduate Coordinator to review graduation qualifications and obtain departmental signatures well in advance of the College graduation application deadline. Approved applications must be submitted to the College of Engineering Advising Office the term prior to the semester in which graduation is sought. Graduation applications are due on the dates indicated below.

August 1<sup>st</sup> for Fall Graduation  
November 1<sup>st</sup> for Spring Graduation  
April 1<sup>st</sup> for Summer Graduation

## 10. Fundamentals of Engineering Examination

Taking the Fundamentals of Engineering Exam prior to graduation is required in some departments and strongly encouraged in others. (See the Office of Engineering Student Services for applications and information.)

## Certificate Programs

Several formalized engineering certificate programs, at the undergraduate and graduate levels, have been developed to provide qualified individuals an opportunity to enhance their degrees prior to graduation or to engage in discipline related continuing education.

### Certificate in Biomedical Engineering

Biomedical Engineering is a highly interdisciplinary field where basic engineering principles are applied to problems in the biomedical sciences. Typical specific areas of interest include: understanding basic biochemical and physiological processes, designing and analyzing medical diagnostics and procedures, evaluation and design of health care systems and facilities, design and valuation of prosthetic devices, and general biomedical product development. The College of Engineering offers an undergraduate Enhancement Certificate in Biomedical Engineering. There are two main purposes for the certificate program 1) to accommodate students interested in entering medical school following graduation (this program satisfies most of the typical minimal admission standards for medical school); and 2) to prepare students for graduate education program, drawing from all engineering disciplines, biology, physical sciences, biomedical and clinical sciences. Undergraduate students anticipating graduate studies in the bioengineering area (or related fields such as medicine) are strongly encouraged to gain research experience as part of their program. Research possibilities exist in Engineering, the Health Sciences Center, Public Health, and Arts and Sciences.

The Certificate in Biomedical Engineering provides students an opportunity to get an introduction to a rapidly developing field of study and to receive recognition for their endeavors. Students in the program must fulfill all the requirements for an Engineering undergraduate degree, such as Bachelor of Science in Chemical Engineering and also meet the additional requirements of the Certificate program. Enrollment is through the Department of Chemical & Biomedical Engineering.

### **Certificate in Technology Management**

A post baccalaureate student may enhance professional achievement by completing a Certificate in Technology Management. The required fifteen (15) semester hours in five (5) courses will enhance students' ability to succeed in a highly competitive global environment. This certificate is designed for individuals with technical backgrounds. Qualitative approaches with quantitative methods are emphasized to strengthen technical credentials and while developing managerial competencies. This program is offered by the Department of Industrial and Management Systems Engineering on the Tampa Campus or online via APEX.

### **Certificate in Total Quality Management**

An undergraduate student, or graduate engineer, may enhance professional achievement by receiving a Certificate in Total Quality Management. The student must satisfactorily complete five courses (15 credit-hours beyond the BS degree) of the eight courses in Total Quality Management. Courses include Statistical Quality Control, Design of Experiments, Reliability, Total Quality Management, and Benchmarking. Enrollment is through the Department of Industrial and Management Systems Engineering.

### **Certificate in Materials Science and Engineering**

The Materials Science and Engineering certificate requires 15 credit hours of theoretical and applied materials courses. The Materials Science and Engineering Certificate is designed to provide students with an opportunity to gain a focused introduction into a dynamic and explosively growing technological field. The certificate has been designed to be as flexible as possible thus allowing students from different disciplines to take advantage of the program. Enrollment is through the Department of Chemical & Biomedical Engineering.

### **Certificate of Wireless Engineering**

This Certificate provides post-baccalaureate students with studies in engineering techniques of modern wireless circuits, antennas, and communication systems. Students must have successfully completed an undergraduate course in Electromagnetics. The candidate should also have an earned B.S. in Electrical Engineering or Computer Engineering. Any other degree tract must meet the Electrical Engineering department's approval.

### **Certificate of Enhancement**

The Certificate of Enhancement in (a designated engineering discipline) provides students an opportunity to gain an enhanced experience in their chosen field while pursuing an engineering degree. Each department may offer a certificate of enhancement in the designated discipline. These include the Certificates of Enhancement in Chemical Engineering, Civil & Environmental Engineering, Computer Science, Computer Engineering, Electrical Engineering, Industrial and Management Systems Engineering, Information Systems and Mechanical Engineering. In addition, there are two specialized Certificates of Enhancement in Transportation Engineering and Wireless Engineering.

#### **Requirements:**

1. Enrolled in a Bachelor of Science degree program in a specified engineering discipline.
2. A minimum of 15 hours of additional specialization related courses, which have been approved by the department beyond

those included as a part of the B. S. degree, from an approved list. Courses must be taken on a letter-grade basis, and a minimum of 9 hours must be College of Engineering courses.

3. A G.P.A. of 2.0 or greater for the additional hours.
4. The student must receive the B.S. degree to receive the Certificate of Enhancement.

Please contact the appropriate department undergraduate coordinator to be accepted in the program.

## **FOUR-YEAR PROGRAMS**

### **LEADING TO A BACHELOR OF SCIENCE DEGREE IN A DESIGNATED ENGINEERING FIELD**

These engineering degrees are awarded upon successful completion of a program consisting of the required areas of coursework. Programs are offered in the following disciplines of Engineering:

#### **• CHEMICAL & BIOMEDICAL ENGINEERING**

##### **Undergraduate Degree Offered:**

Bachelor of Science in Chemical Engineering (B.S.C.H.)

##### **Graduate Degrees Offered:**

Master of Science in Chemical Engineering (M.S.C.H.)

Master in Chemical Engineering (M.C.H.E.)

Master of Engineering (M.E.)

Master of Science in Engineering (M.S.E.)

Master of Science in Biomedical Engineering (M.S.B.E.)

Doctor of Philosophy in Chemical Engineering (Ph.D.)

Doctor of Philosophy in Engineering Science (Ph.D.)

Doctor of Philosophy in Biomedical Engineering (Ph.D.)

This department offers coursework and study in all areas fundamental to Chemical & Biomedical Engineering. Engineering specialization courses, together with mathematics, physics, chemistry, other interdisciplinary engineering fundamentals, and liberal arts courses, provide the basis for long-range professional progress. Because of the many professional areas available for employment to the chemical engineer, the students are also required to take a number of electives from areas such as biotechnology, materials, and environmental engineering. These electives are designed to broaden the experience and, therefore, the employment possibilities of our graduates. The Chemical & Biomedical Engineering Department also offers a sequence of courses in chemical engineering science, biotechnology and biomedical engineering.

A sequence of courses in the engineering aspects of biotechnology is currently available within the Chemical Engineering program. Topics include applied microbiology, fermentation, enzyme technology, cell separation technology, biomedical engineering, biomaterials, biotechnology, and biomechanics.

Students pursuing the Bachelor of Science in Chemical Engineering take coursework in advanced chemistry, thermodynamics, fluids, heat, and mass transfer, numerical methods, separation processes, reacting systems, instrumentation, control, and plant design. Students must also satisfactorily complete a design project as part of their program. Students seeking the Biotechnology/Biomedical Certificate are also required to take additional courses in general biology, microbiology, and biochemistry. Chemical and Biomedical engineering students must maintain a GPA of 2.0 in required departmental courses. Therefore, it is imperative that the students retain close contact with their advisor.

Students completing this program normally initiate their careers in manufacturing, environmental, and biological enterprises. Chemical engineers are found in administrative, technical, and research positions in these industries. Main products of these industries are petrochemicals, polymers, fibers,

natural and synthetic fuels, electronic materials, fertilizers, pharmaceuticals, bio-materials, etc.

Solutions of modern societal and scientific problems often require the use of chemical engineering skills. Chemical and biomedical engineering students must have access to a personal computer during their last two years of study. Those who do not own one will be severely disadvantaged.

### Mission Statement

The mission of the Department of Chemical & Biomedical Engineering is to prepare graduates with fundamental knowledge and contemporary skills for the development, economic design, and safe operation of chemical and biological systems, processes, products, and methods in a manner compatible with societal values.

### Program Education Objectives

1. Demonstrate professional engineering competence by holding positions of increasing responsibility in industry, business, government and/or educational institutions.
2. Publish papers, reports, patents and/or technical presentations at local, national, international meetings or within the professional organization/company that they are affiliated with.
3. Continue to improve their technical skills, knowledge and understanding through continuing education, pursuit of advanced degrees, and/or pursuit of professional license in their chosen profession.

### Departmental Policies

In addition to the College's graduation requirements, the department has the following policies:

1. Mandatory academic advising of students for each term.
2. Exit interviews as a graduation requirement.

## Four-Year Curriculum - Chemical Engineering

**Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida Community College:** If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the University's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

Students qualify for direct entry to their intended department if they have completed the following courses at a Community College or University in the Florida State University System (SUS) and meet all other admissions requirements of the University and College.

Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. The following are transferable courses from the Community College that will be accepted in the Math/Science/Engineering areas:

#### Communications:

ENC 1101/1102 English I and II (6)

#### Humanities & Social Sciences:

Humanities Courses (6)

Social Science Courses (6)

Humanities or Social Sciences (3)

#### Mathematics:

##### USF

MAC 2281

MAC 2282

MAC 2283

MAP 2302

##### C/C

MAC 2311\* (4)

MAC 2312\* (4)

MAC 2313\* (4)

MAP 2302 (3)

\*or MAC 2281, MAC 2282, MAC 2283

#### Natural Sciences:

##### USF

CHM 2045

CHM 2045L

PHY 2048

PHY 2048L

PHY 2049

PHY 2049L

##### C/C

CHM 1045\* (3)

CHM 1045L\* (1)

PHY 2048 (3)

PHY 2048L (1)

PHY 2049 (3)

PHY 2049L (1)

\*or CHS 1440 Chemistry for Engineers

### Chemical & Biomedical Engineering Admissions Requirements

Students must have completed the equivalent USF Engineering Calculus General Physics and Chemistry courses with a C or better in each course; must have a USF and an overall GPA of 2.0 or better.

## BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

The schedule that follows indicates how a diligent student who can devote full time to coursework can satisfy requirements in four academic years. Students without a solid foundation or those who cannot devote full time to academics should plan a slower pace. The following sequence is intended to facilitate registration planning and is subject to change based upon course availability. The sequence may also vary based upon individual considerations. Registration assistance will be provided by academic advisors.

### Semester I

ENC 1101	Composition I	3
MAC 2281	Engineering Calculus I	4
CHM 2045	General Chemistry I	3
CHM 2045L	General Chemistry I Lab	1
EGR 3000	Foundations of Engineering	1
ALAMEA Perspectives Elective		3
Fine Arts Elective		3
Total		18

### Semester II

ENC 1102	Composition II	3
MAC 2282	Engineering Calculus II	4
CHM 2046	General Chemistry II	3
CHM 2046L	General Chemistry II Lab	1
PHY 2048	General Physics I	3
PHY 2048L	General Physics I Lab	1
Total		15

### Semester III

MAC 2283	Engineering Calculus III	4
PHY 2049	General Physics II	3
PHY 2049L	General Physics II Lab	1
EGR 3443	Engineering Statistics	3
Historical Perspectives Elective		3
Social Science Elective		3
Total		17

### Semester IV

EGR 3433	Modeling & Analysis of Engineering Systems	3
or		
MAP 2302	Differential Equations	3
EGR 3343	Thermodynamics	3
ENC 3246	Communication for Engineers (6A L&W)	3
ECH 3023C	Material and Energy Balances	4
ECH 4936	Undergraduate Seminar	1
Total		14

### Summer

CHM 2210	Organic Chemistry I	3
CHM 2210L	Organic Chemistry I Laboratory	2

# 156 COLLEGE OF ENGINEERING

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

Social Science Elective	3
Historical Perspectives Elective	3
Total	11

## Semester V

ECH 4123 Chemical Engineering Thermodynamics	3
ECH 4264 Transport Phenomena	4
ECH 4845 Numerical Methods in Chem Eng	4
Chemical Engineering Elective	3
Total	14

## Semester VI

ECH 3702 Instrument Systems	3
ECH 3242L Chemical Engineering Lab I	1
ECH 4265C Mass Transfer Operations	4
CHM 2211 Organic Chemistry II	3
CHM 2211L Organic Chemistry II Lab	2
Chemical Engineering Electives	3
Total	16

## Semester VII

ECH 4415C Reaction Engineering	4
ECH 4243L Chemical Engineering Lab II	1
EMA 4003 Introduction to Materials Science	3
Chemical Engineering Elective	3
ECH 4605 Product & Process Systems Engineering	3
Total	14

## Semester VIII

ECH 4323C Process Dynamics and Control	3
ECH 4615 Product and Process Design (MW/MI)	3
BME 4406 Engineering of Biological Systems	3
ECH 4244L Chemical Engineering Lab III	1
Chemical Engineering Elective	2
Total	12

Gordon Rule (6A) is fully met through the mathematics courses above, ENC1101, ENC1102, ENC 3246 and by selecting one technical or general education elective that is an approved 6A communication course or by completing an AA degree at a Florida Community College.

Exit Requirements in Major Works/Major Issues (MW/MI) and Literature and Writing (L&W) are fully met through ENC3246 and ECH4615.

## Biomedical Engineering Minor

This biomedical engineering minor is a 15 credit hour program that is open to all engineering majors and other students that meet the prerequisites listed below. For engineering majors, at least 9 hours beyond the B.S. in any Engineering discipline must be completed for the biomedical engineering minor. Student must register with the Department of Chemical & Biomedical Engineering undergraduate advisor prior to starting this minor program. Departments within the College of Engineering are currently developing additional courses that will be added to the list of courses that can be applied to this minor, so consultation with the advisor will insure that students are informed of all offered courses.

### Prerequisite courses:

1. Biology I: BSC 2010
2. Calculus II: MAC 2282, MAC 2242, MAC 2233 or MAC 2312
3. Physics II: PHY 2049 or PHY 2054
4. General Chemistry II: CHM 2046

### Required Courses (6 hours)

ECH 4931 Special Topics in Chemical Engineering*	3
BME 4406 Engineering of Biological Systems	3

## The remaining 9 credit hours can be taken from the following list:

ECH 6417 Bioseparations	3
ECH 4931 Special Topics in Chemical Engineering**	3
PHZ 4702 Applications of Physics to Biology & Medicine I	4
PHZ 4703 Applications of Physics to Biology & Medicine II	4
BCH 3023 Introductory Biochemistry	3
EIN 4313C Human Factors	3
BME 5006 Theory and Design of Bioprocesses	3
EIN 5245 Work Physiology/Biomechanics	3
BME 5040 Pharmaceutical Engineering	2
ECH 5748 Selected Topics in Biomedical Engineering**	1-10
BME 5748 Selected Topics in Biomedical Engineering **	3

\*Please see academic advisor for required special topics courses.

\*\*Please see academic advisor for selected special topics courses.

## CIVIL AND ENVIRONMENTAL ENGINEERING

### Undergraduate Degree Offered:

Bachelor of Science in Civil Engineering (B.S.C.E.)

### Graduate Degrees Offered:

Master of Science in Civil Engineering (M.S.C.E.)

Master of Science in Engineering (M.S.E.)

Master of Science in Environmental Engineering (M.S.E.V.)

Master of Civil Engineering (M.C.E.)

Master of Engineering (M.E.)

Master of Environmental Engineering (M.E.V.E.)

Doctor of Philosophy in Civil Engineering (Ph.D.)

Doctor of Philosophy in Engineering Science (Ph.D.)

This department offers course work and study pertinent to Civil Engineering, Engineering Mechanics, Material Science, and Environmental Engineering. Areas of concentration are Environmental/Water Resources Engineering; Structures/Materials/Geotechnical Engineering; and Geotechnical/Transportation Engineering.

Students completing the program may enter the profession as engineers in civil, structural, geotechnical, transportation, water resources, environmental, hydraulics, or materials disciplines. All of these disciplines share the need for knowledge in the areas of engineering mechanics, civil engineering, material science, and environmental engineering. Through choice of the proper area of concentration, a student has the opportunity to channel academic studies specifically towards his/her career choice.

Graduates of the program may commence their engineering careers in either industry, engineering consulting firms, or public service at the federal, state, or local level. Initial assignments may include planning, design and implementation of water resources systems; planning and design of transportation and housing systems; regional planning, design, and management for abatement of air, water and solid waste pollution problems; design of bridges and single and multi-story structures; and supervision of construction projects.

### Mission Statement

The Civil Engineering Program of the Department of Civil and Environmental Engineering at the University of South Florida will provide undergraduate students with strong, broad-based, engineering education which gives them the basic intellectual and organization skills that allow them to work with complex systems with technological, social and environmental components. As many of the Program's graduates begin

work upon graduation in industry or with governmental organizations, the curriculum is designed to prepare students for these roles by requiring a number of courses in the various fields of civil engineering and by providing limited specialization in one given area. The curriculum is designed to encourage lifelong learning and to prepare students for undertaking advanced studies in engineering or in other professional areas.

#### Program Educational Objectives Associated with the Mission Statement

The program and curriculum of the Department of Civil and Environmental Engineering are designed to meet the needs of all students within the context of its Mission Statement. The Program Educational Objectives associated with the Department's Mission Statement are:

1. The Civil Engineering Program at the University of South Florida has as a program educational objective that graduates, within 3-6 years after graduation, can obtain positions in civil engineering firms or government agencies where they
  - deal effectively with clients, the public, or other engineering groups,
  - communicate effectively with co-workers and the public, and
  - are effective members of teams involved in the design and/or construction of civil engineering projects.
2. The Civil Engineering Program at the University of South Florida has as a program educational objective that graduates, within 3-6 years after graduation, are continuing their professional development by extending their professional knowledge through independent learning, continuing educational courses, conferences, workshops, short courses, and/or graduate study.
3. The Civil Engineering Program at the University of South Florida has as a program educational objective that graduates, within 3-6 years after graduation, that are working in engineering related public or private organizations encouraging professional registration will have made appropriate progress towards achieving that registration.

#### Concentrations

In addition to designated common coursework in engineering mechanics, civil, and environmental engineering, students undertake a concentration of 18 hours of coursework plus a 4-hour capstone design course.

#### Departmental Policies

In addition to the College's graduation requirements, the Department has the following policies:  
All students must:

1. Participate in mandatory advising prior to each term;
2. Participate in Department assessment activities and successfully complete an exit interview before graduating;
3. Maintain a C or better in EGN 3311 Statics; EGN 3331 Mechanics of Materials; EGN 3353 Basic Fluid Mechanics; and EGN 3365 Materials Engineering to continue in the program, including a 2.5 GPA (best attempt) in all these courses.;
4. Earn a C- or better in all engineering courses used to meet graduation requirements.
5. Consider the advice of the college to complete and pass the Fundamentals of Engineering Exam (F.E. Exam).

### Four-Year Curriculum - Civil Engineering

**Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida Community College:** If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

Students qualify for direct entry to their intended department if they have completed the following courses at a Community College or University in the Florida State University System (SUS) and meet all of the other admissions requirements of the University and College.

Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. The following are transferable courses from the Community College that will be accepted in the Math/Science/Engineering areas:

#### Communications:

ENC 1101/1102 English I and II (6)

#### Humanities & Social Sciences:

Humanities Courses (6)

Social Science Courses (6)

Humanities or Social Sciences (3)

#### Mathematics:

##### USF

MAC 2281

MAC 2282

MAC 2283

MAP 2302

\*or MAC 2281, MAC 2282, MAC 2283

#### Natural Sciences:

##### USF

CHM 2045

CHM 2045L

PHY 2048

PHY 2048L

PHY 2049

PHY 2049L

\*or CHS 1440 Chemistry for Engineers

##### C/C

MAC 2311\* (4)

MAC 2312\* (4)

MAC 2313\* (4)

MAP 2302 (3)

##### C/C

CHM 1045\* (3)

CHM 1045L\* (1)

PHY 2048 (3)

PHY 2048L (1)

PHY 2049 (3)

PHY 2049L (1)

Please be aware of the immunization, foreign language, and continuous enrollment policies of the university, as well as the qualitative standards required.

#### Civil and Environmental Engineering Admissions Requirements

Students entering the Civil & Environmental Engineering department must have completed the equivalent USF Engineering Calculus sequence, one year equivalent USF General Physics and one semester equivalent USF General Chemistry with a minimum of 2.3 GPA; and must have an overall and USF GPA of 2.0 or better.

#### Continuation Requirements

Continuation in the Civil & Environmental Engineering program requires a minimum grade of "C" as well as a 2.5 GPA (based on best attempt) over the following courses:

EGN 3311 - Statics

EGN 3331 - Mechanics of Materials

EGN 3353 - Basic Fluid Mechanics

EGN 3365 - Materials Engineering I

### BACHELOR OF SCIENCE IN CIVIL ENGINEERING

The schedule that follows indicates how a diligent student who can devote full time to coursework can satisfy requirements in four academic years. Students without a solid foundation or those who cannot devote full time to academics should plan a slower pace. The following sequence is intended to facilitate registration planning and is subject to change based upon course availability. The sequence may also vary based upon individual considerations. Registration assistance will be provided by academic advisors.

# 158 COLLEGE OF ENGINEERING

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

## Semester I

ENC 1101	Composition I	3
MAC 2281	Engineering Calculus I	4
CHM 2045	General Chemistry I	3
CHM 2045L	General Chemistry I Lab	1
EGN 3000	Foundations of Engineering	1
Social Science Elective		3
Total		15

## Semester II

ENC 1102	Composition II	3
MAC 2282	Engineering Calculus II	4
CHM 2046	General Chemistry II	3
PHY 2048	General Physics I	3
PHY 2048L	General Physics I Lab	1
EGS 1113	Introduction to Design Graphics	3
Total		17

## Summer Semester

ALAMEA	Perspective Elective	3
Historical	Perspective Elective	3
EGN 3615	Engineering Economics with Social & Global Implications	3
Total		9

## Semester III

PHY 2049	General Physics II	3
PHY 2049L	General Physics II Lab	1
MAC 2283	Engineering Calculus III	4
EGN 3311	Statics	3
Historical	Perspective Elective	3
ENC 3246	Communication for Engineers (6A L&W)	3
Total		17

## Semester IV

MAP 2302	Differential Equations	3
or		
EGN 3433	Modeling and Analysis of Engineering Systems	3
EGN 3321	Dynamics	3
EGN 3343	Thermodynamics	3
EGN 3443	Engineering Statistics	3
EGN 3365	Materials I	3
Total		16

## Semester V

EGN 3353	Fluid Mechanics	3
EGN 3331	Mechanics of Materials	3
EGN 3331L	Mechanics of Materials Lab	1
ENV 4001	Environmental Engineering I	3
TTE 4004	Transportation Engineering I	3
EGN 4420	Numerical and Computer Tools	3
Total		16

## Semester VI

CES 3102	Structures I	3
CWR 4202	Hydraulics	3
ENV 4004L	Environmental/Hydraulics Engineering Lab	1
EGN 3373	Introduction to Electrical Systems I	3
CE Concentration Elective		3
Total		13

## Semester VII

CEG 4011	Geotechnical Engineering I	3
CEG 4011L	Geotechnical Engineering Lab	1
CE Concentration Elective		3
CE Concentration Elective		3
Fine Arts Elective		3
Total		13

## Semester VIII

CE Concentration Elective		3
CE Concentration Elective		3

CE Concentration Elective	3
CE Capstone Design Requirement (MW/MI)	4
Social Science Elective	3
Total	16

Gordon Rule (6A) is fully met through the mathematics courses above, ENC1101, ENC1102, ENC 3246 and by selecting one technical or general education elective that is an approved 6A communication course or by completing an AA degree at a Florida Community College.

Exit Requirements in Major Works/Major Issues (MW/MI) and Literature and Writing (L&W) are fully met through ENC3246 and a Capstone Design Course indicated as MW/MI.

## Civil Engineering Concentration AND CAPSTONE DESIGN Requirements

Civil Engineering students take one of the 3 tracks next listed:

### Structures/Materials/Geotechnical Track

CES 4702	Concepts of Concrete Design	3
CES 4605	Concepts of Steel Design	3
CGN 4851	Concrete Construction Materials	3
CEG 4012	Geotechnical Engineering II	3
or		
TTE 4005	Transportation Engineering II	3
Technical Elective		3
Technical Elective		3
CES 4740	Capstone Structures/Materials/Geotechnical Design	3

### Geotechnical/Transportation Track

CGN 4851	Concrete Construction Materials	3
CEG 4012	Geotechnical Engineering II	3
TTE 4005	Transportation Engineering	3
Technical Elective		3
Technical Elective		3
Technical Elective		3
CEG 4850	Capstone Geotechnical/Transportation Design	3

### Environmental/Water Resources Track

ENV 4417	Water Quality and Treatment	3
CWR 4103	Water Resources Engineering	3
CEG 4012	Geotechnical Engineering II	3
or		
TTE 4005	Transportation Engineering II	3
Technical Elective		3
Technical Elective		3
Technical Elective		3
CWR 4812	Capstone Water Resources/Environmental Design	4

The Program supports the following technical elective courses:

CCE 4034	Construction Management	3
CEG 4012	Geotechnical Engineering II	3
CES 4605	Concepts of Steel Design	3
CES 4702	Concepts of Concrete Design	3
CGN 4851	Concrete Construction Materials	3
CGN 4933	Special Topics in Civil & Environmental Engineering **	3
CWR 4103	Water Resources Engineering I	3
ENV 4417	Water Quality and Treatment	3
SUR 2101	Engineering Land Survey	3
TTE 4005	Transportation Engineering II	3
TTE 4006	Transportation and Society	3

\*\*Please see academic advisor for selected special topics courses.

## • COMPUTER SCIENCE AND ENGINEERING

### *Undergraduate Degrees Offered:*

Bachelor of Science in Computer Engineering (B.S.Cp.E.)

Bachelor of Science in Computer Science (B.S.C.S.)

Bachelor of Science in Information Systems (B.S.I.S.)

### *Graduate Degrees Offered:*

Master of Science in Computer Science (M.S.C.S.)

Master of Science in Computer Engineering (M.S.Cp.E.)

Doctor of Philosophy in Computer Science and Engineering (Ph.D.)

Doctor of Philosophy in Engineering Science (Ph.D.)

This department offers coursework and study in all areas fundamental to Computer Science, Computer Engineering, and Information Systems. Topics covered may include computer architecture and hardware design, software engineering, computer system organization, operating systems, algorithms and data structures, computer graphics, user interface, software testing, computer networks, database systems, robotics, theory of computation and artificial intelligence.

Our research areas of faculty concentration include 1) computer architecture and VLSI design/testing, 2) artificial intelligence and robotics, 3) graphics/image processing/computer vision, 4) networks, and 5) software testing.

Computing facilities available to students in the Department include several microprocessor and design laboratories for hardware-oriented studies, personal computer laboratories for general use in programming assignments, and networked SUN workstations for use by majors. The Department maintains a number of research laboratories equipped with special purpose hardware. In addition, the Department has access to College of Engineering SUN Solaris and PC workstations and SOLARIS servers.

The Department offers three undergraduate degrees: Computer Engineering, Computer Science and Computer Information Systems. These degree tracks or programs offer different educational emphases as preparation for careers or graduate education within the computer domain. While all three tracks share a common core of foundational materials, each has additional course that provide a distinctive flavor to the work.

The Computer Engineering program emphasizes the application of engineering principles to the design of computer hardware and software. While all department programs provide coverage of computer hardware and software, this program allocates additional time to issues of computer architecture and hardware design. Students in this program also acquire a broad background in engineering science through the study of the engineering core.

The Computer Science program focuses on the theory of computation and computer organization. Additional course work in programming languages, algorithms, software engineering, and a wide range of elective supplement the core coverage of hardware and software.

The Information Systems program combines a basic coverage of hardware and software with a core of business related courses and additional course work in areas such as networks and database. The emphasis in this program is on the application of computing.

Graduates from these programs follow fruitful careers developing either scientific or business applications of computers, as well as in the design of computer systems. They are often involved in the systems level definition of large scale IT operations for both manufacturers of computers and for users. A wide and expanding variety of design and applications opportunities characterize this field. The rapid growth and continual change within this field makes it essential for students to acquire a broad foundation in applied mathematics and the physical sciences, and to develop communication skills and to become familiar with the domains of potential computer application in the Humanities and Social Sciences.

Research and development opportunities as a computer scientist and engineer, often following graduate education, are present in the areas of computer architecture and VLSI design, artificial intelligence, software engineering, digital data communications, software testing, robotics, database, networks, user interface, fault-tolerant computing and testing, computer-graphics, image processing and computer vision, and simulation.

### **Mission Statement**

In keeping with the mission of the College of Engineering, the Computer Science & Engineering Department strives for excellence in teaching, research, and public service.

Specifically the Department aspires to:

1. Lead the advancement of computer science through internationally recognized research and graduate education, as well as technology transfer to regional industries.
2. Prepare students for full and ethical participation in a diverse society and encourage lifelong learning.
3. Educate undergraduates in the best practices of the field as well as integrate the latest research into the curriculum.
4. Foster the development of problem solving and communication skills as an integral component of the profession.
5. Provide quality learning experiences through small classes, active learning styles of teaching, and opportunities for meaningful interactions between students and faculty.

### **Objectives**

The Computer Science & Engineering Department has established the following objectives for graduates of the department. Since the department offers three degree programs, the objectives are defined for each program.

#### Computer Engineering Program Educational Objectives

Objective 1: Our graduates will apply their knowledge and skills to succeed in a computer engineering career and/or obtain an advanced degree.

Objective 2: Our graduates will function ethically and responsibly and will remain informed and involved as full participants in our profession and our society. Our graduates will successfully function in multi-disciplinary teams.

Objective 3: Our graduates will apply the basic principles and practices of computing grounded in mathematics and science to successfully complete hardware and/or software related engineering projects to meet customer business objectives and/or productively engage in research.

Objective 4: Our graduates will apply the basic principles and practices of engineering in the computing domain to the benefit of society.

#### Computer Science Program Educational Objectives

Objective 1: Our graduates will apply their knowledge and skills to succeed in a computer science career and/or obtain an advanced degree.

Objective 2: Our graduates will function ethically and responsibly and will remain informed and involved as full participants in our profession and our society. Our graduates will successfully function in multi-disciplinary teams.

Objective 3: Our graduates will apply the basic principles and practices of computing grounded in mathematics and science to successfully complete software related engineering projects to meet customer business objectives and/or productively engage in research.

Objective 4: Our graduates will apply the basic computing principles and the knowledge of major areas of application of those fundamentals to the benefit of society.

#### Computer Information Systems Program Educational Objectives

Objective 1: Our graduates will apply their knowledge and skills to succeed in an information systems career.

Objective 2: Our graduates will function ethically and responsibly and will remain informed and involved as full participants

# 160 COLLEGE OF ENGINEERING

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

in our profession and our society. Our graduates will successfully function in multi-disciplinary teams.

Objective 3: Our graduates will apply the basic principles and practices of computing grounded in mathematics, science and business to successfully complete projects and perform services related to information systems to meet customer business objectives.

Objective 4: Our graduates will apply the basic computing principles and the knowledge of major areas of application of those fundamentals to the benefit of society.

## Departmental Policies

In addition to the College's graduation requirements, the department has the following policies:

1. Mandatory academic advising of students for each term.
2. Exit interviews as a graduation requirement.
3. In addition to the College's graduation requirements, the department policy concerning grades is:
  - a. The minimum grade in specialization courses is a "C-", except as stated in department admission requirements.
  - b. The minimum grade in math, science, and engineering courses which are required for the degree is a "C-", except as stated in department admission requirements.

## Four-Year Curriculum in Computer Science

**Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida Community College:** If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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 ("C-" is insufficient).

Students qualify for direct entry to the department if they have completed the following courses at a Community College or University in the Florida State University System (SUS) and meet all other admissions requirements of the University and College.

Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university.

COP	XXXX*	3
MAC	X311	4
MAC	X312	4
PHY	X048/X048L	4
or		
PHY	X048C	4
PHY	X049/X049L	4
or		
PHY	X049C	4

\*Introductory Programming in Ada, C, C++, or PASCAL or equivalent language.

<b>Natural Sciences:</b>		
XXX	XXXX**	6

\*\*Two (2) science courses for science majors.

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

## Computer Science Admissions Requirements

All students must complete the equivalent of USF Composition I & II, Engineering Calculus I & II and calculus-based General Physics I & II (with labs) with an overall grade point average of 3.00 or higher in these courses (best attempt) to be

admitted to the CSE department. Continuation in the major requires successful completion of CDA 3103 and COP 3514 with the required GPA as stated in the Computer Science & Engineering prerequisite statement in the College of Engineering general section.

## BACHELOR OF SCIENCE IN COMPUTER SCIENCE

The schedule that follows indicates how a diligent student who can devote full time to coursework can satisfy requirements in four academic years. Students without a solid foundation or those who cannot devote full time to academics should plan a slower pace. The following sequence is intended to facilitate registration planning and is subject to change based upon course availability. The sequence may also vary based upon individual considerations. Registration assistance will be provided by academic advisors.

### Semester I

MAC 2281	Engineering Calculus I	4
ENC 1101	Composition I	3
EGN 3000	Foundations of Engineering	1
Science Elective		3
Social Science Elective		3
Total		14

### Semester II

MAC 2282	Engineering Calculus II	4
PHY 2048	General Physics I	3
PHY 2048L	General Physics I Lab	1
ENC 1102	Composition II	3
COP 2510	Programming Concepts	3
Total		14

### Semester III

MAC 2283	Engineering Calculus III	4
PHY 2049	General Physics II	3
PHY 2049L	General Physics II Lab	1
COP 3514	Program Design	3
Science Elective		3
Total		14

### Semester IV

CDA 3103	Computer Organization	3
COT 3100	Intro Discrete Structures	3
COP 3331	Object Oriented Software Design	3
Historical Perspectives Elective		3
Total		12

### Summer Semester

EEL 4851	Data Structures	3
CDA 3201	Computer Logic Design	3
CDA 3201L	Computer Logic Design Lab	1
EGN 4450	Linear Systems	2
Total		9

### Semester V

CDA 4205	Computer Architecture	3
COP 4600	Operating Systems	3
COT 4400	Analysis of Algorithms	3
EGN 3443	Engineering Statistics I	3
Social Science Elective		3
Total		15

### Semester VI

CSE Theory Elective		3
CSE Software Elective		6
CSE Elective		3
ENC 3246	Communication for Engineers	3
Total		15

**Semester VII**

Fine Arts Elective	3
ALAMEA Elective	3
Historical Perspective	3
CSE Elective	6
Total	15

**Semester VIII**

CIS 4250 Ethical Issues (6A MW/MI)	3
Upper Level Humanities, Social Science or Fine Arts Elective	3
CSE Elective	6
Total	12

Gordon Rule (6A) is fully met through the mathematics courses above, ENC1101, ENC1102, ENC3246 and CIS4250 or by completing an AA degree at a Florida Community College. Exit Requirements in Major Works/Major Issues (MW/MI) and Literature and Writing (L&W) are fully met through ENC3246 and CIS4250.

### Four-Year Curriculum in Computer Engineering

**Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida Community College:** If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

Students qualify for direct entry to the department if they have completed the following courses at a Community College or University in the Florida State University System (SUS) and meet all other admissions requirements of the University and College.

Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university.

**Communications:**

ENC 1101/1102 English I and II (6)

**Humanities & Social Sciences:**

Humanities Courses (6)

Social Science Courses (6)

Humanities or Social Sciences (3)

**Mathematics:**

USF	C/C
MAC 2281	MAC 2311* (4)
MAC 2282	MAC 2312* (4)
MAC 2283	MAC 2313* (4)
MAP 2302	MAP 2302 (3)

\*or MAC 2281, MAC 2282, MAC 2283

**Natural Sciences:**

USF	C/C
CHM 2045	CHM 1045* (3)
CHM 2045L	CHM 1045L* (1)
PHY 2048	PHY 2048 (3)
PHY 2048L	PHY 2048L (1)
PHY 2049	PHY 2049 (3)
PHY 2049L	PHY 2049L (1)

\*or CHS 1440 Chemistry for Engineers

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

**Computer Engineering Admissions Requirements**

All students must complete the equivalent of USF Composition I & II, Engineering Calculus I & II and calculus-based General Physics I & II (with labs) with an overall grade point average of 3.00 or higher in these courses (best attempt) to be admitted to the CSE department. Continuation in the major requires successful completion of CDA 3103 and COP 3514 with the required GPA as stated in the Computer Science & Engineering prerequisite statement in the College of Engineering general section.

### BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

The schedule that follows indicates how a diligent student who can devote full time to coursework can satisfy requirements in four academic years. Students without a solid foundation or those who cannot devote full time to academics should plan a slower pace. The following sequence is intended to facilitate registration planning and is subject to change based upon course availability. The sequence may also vary based upon individual considerations. Registration assistance will be provided by academic advisors.

**Semester I**

MAC 2281	Engineering Calculus I	4
ENC 1101	Composition I	3
EGN 3000	Foundations of Engineering	1
CHM 2045	General Chemistry I	3
CHM 2045L	General Chemistry I Lab	1
Social Science Elective		3
Total		15

**Semester II**

MAC 2282	Engineering Calculus II	4
ENC 1102	Composition II	3
PHY 2048	General Physics I	3
PHY 2048L	General Physics I Lab	1
COP 2510	Programming Concepts	3
Total		14

**Semester III**

MAC 2283	Engineering Calculus III	4
PHY 2049	General Physics II	3
PHY 2049L	General Physics II Lab	1
COP 3514	Program Design	3
Social Science Elective		3
Total		14

**Semester IV**

CDA 3103	Computer Organization	3
COT 3100	Intro Discrete Structures	3
COP 3331	Object Oriented Software Design	3
Historical Perspectives Elective		3
MAP 2302	Differential Equations	
or		
EGN 3433	Modeling and Analysis of Engineering Systems	3
Total		15

**Summer Semester**

CDA 3201	Logic Design	3
CDA 3201L	Logic Design Lab	1
EEL 4851	Data Structures	3
EGN 4450	Linear Systems	2
Total		9

**Semester V**

CDA 4205	Computer Architecture	3
COP 4600	Operating Systems	3
EEL 3394	Electronic Materials	3
EGN 3373	Electrical Systems I	3

# 162 COLLEGE OF ENGINEERING

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

COT 4400	Analysis of Algorithms	3
Total		15

## Semester VI

CDA 4203	Computer System Design	3
CDA 4203L	Computer System Design Lab	1
CSE Elective		3
EGN 3615	Engineering Economics with Social and Global Implications	3
Science Elective		3
CSE Hardware Elective		3
Total		16

## Semester VII

CDA 4213	CMOS-VLSI Design	3
CIS 4930	Special Topics in Computer Science I*	1-4
EGN 3443	Engineering Statistics	3
ENC 3246	Communication for Engineers (6A L&W)	3
Fine Arts Elective		3
CSE Elective		3
Total		16

## Semester VIII

CIS 4910	Senior Project	2
CIS 4250	Ethical Issues (6A MW/MI)	3
ALAMEA Elective		3
Historical Perspective Elective		3
CSE Hardware Elective		3
Total		14

\*Please see your academic advisor for required special topics course.

Gordon Rule (6A) is fully met through the mathematics courses above, ENC1101, ENC1102, ENC3246 and CIS4250 or by completing an AA degree at a Florida Community College. Exit Requirements in Major Works/Major Issues (MW/MI) and Literature and Writing (L&W) are fully met through ENC3246 and CIS4250.

## Four-Year Curriculum in Information Systems

**Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida Community College:** If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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 ("C-" is insufficient).

Students qualify for direct entry to the department if they have completed the following courses at a Community College or University in the Florida State University System (SUS) and meet all other admissions requirements of the University and College.

Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university.

COP	XXXX*	3
MAC	X311	4
MAC	X312	4
PHY	X048/X048L	4
PHY	X049/X049L	4
or		
PHY	X049C	4

\*Programming in Ada, C, C++, or PASCAL or equivalent language.

## Natural Sciences:

XXX XXXX\*\*

6

\*\*Two (2) science courses for science majors.

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

## Information Systems Admissions Requirements

All students must complete the equivalent of USF Composition I & II, Engineering of Life Science Calculus I & II and General Physics I & II (with labs) with an overall grade point average of 3.00 or higher in these courses (best attempt) to be admitted to the CSE department. Continuation in the major requires successful completion of CDA 3103 and COP 3514 with the required GPA as stated in the Computer Science & Engineering prerequisite statement in the College of Engineering general section.

## BACHELOR OF SCIENCE IN INFORMATION SYSTEMS

The schedule that follows indicates how a diligent student who can devote full time to coursework can satisfy requirements in four academic years. Students without a solid foundation or those who cannot devote full time to academics should plan a slower pace. The following sequence is intended to facilitate registration planning and is subject to change based upon course availability. The sequence may also vary based upon individual considerations. Registration assistance will be provided by academic advisors.

### Semester I

MAC 2281/2241	Calculus I	4
ENC 1101	Composition I	3
Science Elective		3
Social Science Elective		3
Total		13

### Semester II

MAC 2282/2242	Calculus II	4
ENC 1102	Composition II	3
PHY 2048/2053	Physics I	3
PHY 2048L/2053L	Physics I Lab	1
COP 2510	Programming Concepts	3
Total		14

### Semester III

ACG 2021	Accounting I	3
COP 3514	Program Design	3
PHY 2049/2054	Physics II	3
PHY 2049L/2054L	Physics II Lab	1
ECO 2013	Macroeconomics	3
Total		13

### Semester IV

CDA 3103	Computer Organization	3
COT 3100	Intro Discrete Structures	3
COP 3331	Object Oriented Software Design	3
Social Science Elective		3
Historical Perspective Elective		3
Total		15

### Summer Semester

ECO 2023	Microeconomics	3
EEL 4851	Data Structures	3
Fine Arts Elective		3
Total		9

### Semester V

EGN 3443	Engineering Statistics I	3
COP 4600	Operating Systems	3
MAN 3025	Principles of Management	3

COT 4400	Analysis of Algorithms	3
Historical Perspectives		3
Total		15

**Semester VI**

CEN 4020	Software Engineering	3
CEN 4023	Software System Development	3
EGN 3615	Engineering Economics with Social & Global Implications	3
Science Elective		3
CSE Software Elective		3
Total		15

**Semester VII**

EGN 4450	Introduction to Linear Systems	2
ALAMEA Elective		3
CSE Software Elective		6
CSE Elective		3
Total		14

**Semester VIII**

ENC 3246	Communication for Engineers	3
CIS 4250	Ethical Issues (6A MW/MI)	3
CSE Electives		6
Total		12

Gordon Rule (6A) is fully met through the mathematics courses above, ENC1101, ENC1102, ENC3246 and CIS4250 or by completing an AA degree at a Florida Community College. Exit Requirements in Major Works/Major Issues (MW/MI) and Literature and Writing (L&W) are fully met through ENC3246 and CIS4250.

## • ELECTRICAL ENGINEERING

*Undergraduate Degree Offered:*

Bachelor of Science in Electrical Engineering (B.S.E.E.)

*Graduate Degrees Offered:*

Master of Science in Electrical Engineering (M.S.E.E.)

Master of Engineering (M.E.)

Master of Science in Engineering (M.S.E.)

Master of Science in Engineering Science (M.S.E.S)

Doctor of Philosophy in Electrical Engineering (Ph.D.)

Doctor of Philosophy in Engineering Science (Ph.D.)

This department offers study in all areas fundamental to Electrical Engineering and the electrical sciences: circuit analysis and design, electronics, communications, electromagnetics, controls, solid state, system analysis, digital circuit design and microelectromechanical systems (MEMS). Basic concepts are augmented with well-equipped laboratories in circuits, electronics, digital systems, microwave techniques, wireless circuits & systems, and controls and communications. In addition, a general-purpose computer facility, a microprocessor and digital signal processing laboratory, and a microelectronics fabrication, design/test and metrology laboratory are available to undergraduate and graduate students.

**Mission Statement**

The mission of the Electrical Engineering Department at the University of South Florida is to provide internationally recognized educational programs; to conduct and disseminate internationally recognized research benefiting humanity; to provide service to society; and to emphasize the need for lifelong learning, ethical conduct and an understanding of the diverse social context in which engineering is practiced.

**Objectives**

- The Department objectives are to produce graduates
1. with the knowledge and skills necessary to practice Electrical Engineering successfully.
  2. who can pursue advanced topics through graduate or professional studies.

Students pursuing the Bachelor of Science in the Electrical Engineering program take designated coursework in network analysis, electronics, communications, electromagnetic theory, control systems, microelectronics and microprocessors. This coursework is supplemented by electives in many specialized areas of electrical engineering.

Students completing this program normally pursue industrial careers in electronics, communications, power and controls, digital systems, microelectronics, and information systems. The electrical graduate may apply his/her knowledge to such diverse areas as wireless and satellite communications, remote guidance, MEMS, sensing technology, systems integration, automation, computer and information systems, electronic power generation and transmission, electrically propelled transportation, etc. The graduate may do this by performing needed engineering functions related to research and development (often requires an advanced degree), design, production, operation, sales, or management of these products/services.

**Departmental Policies**

In addition to the College's graduation requirement, the department has the following policies:

1. Mandatory academic advising of students for each term.
2. Exit interviews as a graduation requirement.
3. Students must pass all required BSEE courses, except EGN 3373 and EGN 3374, humanities and social sciences, with a grade of "C" or better. EGN 3373 and EGN 3374 must be passed with a grade of B or better to continue in the program while a D is acceptable in humanities and social sciences.

## Four-Year Curriculum in Electrical Engineering

**Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida Community College:** If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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.

Students qualify for direct entry to the department if they have completed the following courses at a Community College or University in the Florida State University System (SUS) and meet all other admissions requirements of the University and College.

Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university.

*Communications:*

ENC 1101/1102 English I and II (6)

*Humanities & Social Sciences:*

Humanities Courses (6)

Social Science Courses (6)

Humanities or Social Sciences (3)

*Mathematics:***USF**

MAC 2281

MAC 2282

MAC 2283

MAP 2302

\*or MAC 2281, MAC 2282, MAC 2283

*Natural Sciences:***USF**

CHM 2045

CHM 2045L

PHY 2048

PHY 2048L

**C/C**

MAC 2311\* (4)

MAC 2312\* (4)

MAC 2313\* (4)

MAP 2302 (3)

CHM 1045\* (3)

CHM 1045L\* (1)

PHY 2048 (3)

PHY 2048L (1)

# 164 COLLEGE OF ENGINEERING

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

PHY 2049 PHY 2049 (3)  
PHY 2049L PHY 2049L (1)

\*or CHS 1440 Chemistry for Engineers

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

## Electrical Engineering Admissions Requirements

Transfer students must have completed the equivalent of the USF Engineering Calculus and Physics sequences and Chemistry I and Chemistry I lab with a minimum GPA in these courses of 2.25 including all attempts; must have an overall GPA of 2.0 or better.

## BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

The schedule that follows indicates how a diligent student who can devote full time to coursework can satisfy requirements in four academic years. Students without a solid foundation or those who cannot devote full time to academics should plan a slower pace. The following sequence is intended to facilitate registration planning and is subject to change based upon course availability. The sequence may also vary based upon individual considerations. Registration assistance will be provided by academic advisors.

### Semester I

ENC 1101	Composition I	3
MAC 2281	Engineering Calculus I	4
	Social Science Elective	3
	Fine Arts Elective	3
	Historical Perspective Elective	3
Total		16

### Semester II

ENC 1102	Composition II	3
MAC 2282	Engineering Calculus II	4
PHY 2048	Physics I	3
PHY 2048L	Physics Lab I	1
CHM 2045	Chemistry I	3
CHM 2045L	Chemistry Lab I	1
EGN 3000	Foundations of Engineering	1
Total		16

### Semester III

MAC 2283	Engineering Calculus III	4
PHY 2049	Physics II	3
PHY 2049L	Physics Lab II	1
EGN 3443	Engineering Statistics	3
EGN 3615	Engineering Economics with Social & Global Implications	3
Total		14

### Semester IV

EGN 3433	Modeling & Analysis of Engineering Systems	
or		
MAP 2302	Differential Equations	3
EGN 3420	Engineering Analysis	3
EGN 3373	Electrical Systems I	3
EEL 2161	EE Computing Methods	3
EEE 3394	Electronic Materials	3
Total		15

### Summer Term

	Historical Perspective	3
EGN 3374	Electrical Systems II	3
ENC 3246	Communications for Engineers (6A L&W)	3
Total		9

### Semester V

EEL 3100	Network Analysis	3
EEL 4705	Logic Design	3
EEL 4705L	Logic Lab	1
EEL 3315L	Lab I (Circuits)	1
EEL 4471	Electromagnetics	3
EEE 4351C	Semiconductor Devices	3
Total		14

### Semester VI

EEL 4102	Linear Systems Analysis	3
EEL 3375	Electromechanical Systems	3
EEL 4744	Microprocessors	3
EEL 4743L	Microprocessor Lab	1
EEE 3302	Electronics I	3
ELR 4423L	Wireless Circuits & Systems Lab	2
Total		15

### Semester VII

EEL 4906	Prof. Issues & Eng. Design (MW/MI)	3
EEL 3116L	EE Lab II (Electronics)	1
EEL 4657	Linear Control Systems	3
EEL 4657L	Linear Controls Laboratory	1
EEE 4301	Electronics II	3
EEL 4512C	Communication Systems	3
Total		14

### Semester VIII

EEL 4914	EE Design Project	3
	Social Science Elective	3
	Tech Elective*	3
	Tech Elective*	3
	ALAMEA Elective	3
Total		15

\*Some electives with lab components will incur a lab fee.

Gordon Rule (6A) is fully met through the mathematics courses above, ENC 1101, ENC 1102, ENC 3246 and by selecting one technical or general education elective that is an approved 6A communication course or by completing an AA degree at a Florida Community College. Exit Requirements in Major Works/Major Issues (MW/MI) and Literature and Writing (L&W) are fully met through ENC 3246 and EEL 4906.

Departmental Policy: For EE majors a minimum grade of B is required for both EGN 3373 and EGN 3374.

## INDUSTRIAL AND MANAGEMENT SYSTEMS ENGINEERING

### Undergraduate Degree Offered:

Bachelor of Science in Industrial Engineering (B.S.I.E.)

### Graduate Degrees Offered:

Master of Science in Industrial Engineering (M.S.I.E.)

Master of Engineering (M.E.)

Master of Science in Engineering Science (M.S.E.S.)

Master of Science in Engineering Management (M.S.E.M)

Master of Industrial Engineering (M.I.E.)

Doctor of Philosophy in Industrial Engineering (Ph.D.)

Doctor of Philosophy in Engineering Science (Ph.D.)

This department offers study pertinent to the design, evaluation and operation of a variety of industrial systems, ranging from the analysis of public systems to the operation of manufacturing plants. Topics include production planning and control, production and plant design, applied statistics, operations research, human factors and productivity, manufacturing, and automation. The department has excellent laboratory facilities that support class projects and research in microcomputer applications, computer-aided manufacturing, human performance, automation, and applications of robotics. Evening and off-campus programs are available through the Master of

Science in Engineering Management (M.S.E.M.) program. The department also administers the manufacturing option in the M.S.E. program.

### Mission Statement

The Department of Industrial and Management Systems Engineering is committed to strong and innovative educational and research programs, economic development, and community initiatives. Our efforts are focused on attracting high-potential students and teaching them to think critically and to communicate effectively. The IMSE department strives for a cutting edge, internationally recognized research program. Our curriculum educates students to work successfully in the global environment and to pursue advanced studies.

### Objectives

The objectives of the Department are to:

1. Attract and recruit high quality students;
2. Educate, motivate and serve students with the ultimate goal of preparing them for their professional careers;
3. Engage in an agile and interdisciplinary research program deserving of international recognition that creates significant broader impact in the areas of technology transfer and development of leaders in engineering;
4. Recruit and mentor a diverse faculty with interdisciplinary interests;
5. Develop strong and internationally recognized academic programs in Industrial Engineering and Engineering Management;
6. Engage the alumni in the growth and development of the department;
7. Take a leadership role in providing service to the profession, industry, and society at large.

### Departmental Policies

In addition to the College's graduation requirement, the department has the following policies:

1. Mandatory academic advising of students for each term.
2. Exit interviews as a graduation requirement.

## Four-Year Curriculum in Industrial and Management Systems Engineering

**Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida Community College:** If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

Students qualify for direct entry to the department if they have completed the following courses at a Community College or University in the Florida State University System (SUS) and meet all other admissions requirements of the University and College.

Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university.

#### Communications:

ENC 1101/1102 English I and II (6)

#### Humanities & Social Sciences:

Humanities Courses (6)

Social Science Courses (6)

Humanities or Social Sciences (3)

#### Mathematics:

##### USF

MAC 2281

MAC 2282

MAC 2283

MAP 2302

\*or MAC 2281, MAC 2282, MAC 2283

#### Natural Sciences:

##### USF

CHM 2045

CHM 2045L

PHY 2048

PHY 2048L

PHY 2049

PHY 2049L

\*or CHS 1440 Chemistry for Engineers

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

##### C/C

MAC 2311\* (4)

MAC 2312\* (4)

MAC 2313\* (4)

MAP 2302 (3)

##### C/C

CHM 1045\* (3)

CHM 1045L\* (1)

PHY 2048 (3)

PHY 2048L (1)

PHY 2049 (3)

PHY 2049L (1)

### Industrial Engineering Admissions Requirements

Transfer students must have completed the equivalent USF Engineering Calculus sequence with a 2.0 GPA; must have completed one year of equivalent USF General Physics and Chemistry courses with a minimum of 2.0 GPA; must have a USF and overall GPA of 2.0 or better.

## BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

The schedule that follows indicates how a diligent student who can devote full time to coursework can satisfy requirements in four academic years. Students without a solid foundation or those who cannot devote full time to academics should plan a slower pace. The following sequence is intended to facilitate registration planning and is subject to change based upon course availability. The sequence may also vary based upon individual considerations. Registration assistance will be provided by academic advisors.

#### Semester I

CHM 2045	Chemistry I	3
CHM 2045L	Chemistry I Lab	1
EGN 3000	Foundations of Engineering	1
ENC 1101	Composition I	3
MAC 2281	Engineering Calculus I	4
Social Science Elective		3
<b>Total</b>		<b>15</b>

#### Semester II

CHM 2046	Chemistry II	3
Historical Perspectives Elective		3
ENC 1102	Composition II	3
MAC 2282	Engineering Calculus II	4
PHY 2048	Physics I	3
PHY 2048L	Physics I Lab	1
<b>Total</b>		<b>17</b>

#### Semester III

EGN 3443	Engineering Statistics	3
MAC 2283	Engineering Calculus III	4
PHY 2049	Physics II	3
PHY 2049L	Physics II Lab	1
Historical Perspectives Elective		3
<b>Total</b>		<b>14</b>

#### Semester IV

EGN 3311	Statics	3
COP 2510	Programming Concepts	3
EGN 4450	Linear Systems	2
EGN 3433	Modeling & Analysis of Engineering Systems	

# 166 COLLEGE OF ENGINEERING

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

or		
MAP 2302	Differential Equations	3
Fine Arts Elective		3
Total		14

## Summer Term

EGS 1113	Engineering Graphics	3
EGN 3615	Engineering Economy with Social and Global Implications (SS)	3
ALAMEA Elective		3
Total		9

## Semester V

EGN 3365	Materials Engineering I	3
EGN 3373	Introduction to Electrical Systems I	3
EIN 4312C	Work Analysis	3
EIN 4621	Manufacturing Processes	3
ESI 4312	Deterministic OR	3
Total		15

## Semester VI

EGN 3343	Thermodynamics	3
EIN 4333	Production Control	3
ESI 4221	Industrial Statistics/Quality Control	3
ESI 4313	Probabilistic OR	3
Tech Elective	Engineering Science	3
Total		15

## Semester VII

EIN 4364C	Facilities Design	3
EIN 4352	Engineering Cost Analysis	3
ESI 4244	Design of Experiments	3
ESI 4523	Industrial Systems Simulation	3
Tech Elective	Industrial Engineering	2
Total		14

## Semester VIII

EIN 4243C	Human Factors (6A)	3
EIN 4891	Capstone Design (MW/MI)	3
EIN 4601	Automation/Robotics	3
ENC 3246	Communication for Engineers (6A L&W)	3
Tech Elective	Industrial Engineering	3
Total		15

Gordon Rule (6A) is fully met through the mathematics courses above, ENC 1101, ENC 1102, ENC 3246 and EIN 4313 or by completing an AA degree at a Florida Community College. Exit Requirements in Major Works/Major Issues (MW/MI) and Literature and Writing (L&W) are fully met through ENC 3246 and EIN 4365.

## • MECHANICAL ENGINEERING

### Undergraduate Degree Offered:

Bachelor of Science in Mechanical Engineering (B.S.M.E.)

### Graduate Degrees Offered:

Master of Mechanical Engineering (M.M.E.)

Master of Science in Mechanical Engineering (M.S.M.E.)

Master of Engineering (M.E.)

Master of Science in Engineering (M.S.E.)

Doctor of Philosophy in Mechanical Engineering (Ph.D.)

Doctor of Philosophy in Engineering Science (Ph.D.)

Coursework includes basic science and mathematics, thermal and fluid sciences, material science, solid mechanics, dynamics, machine design, vibrations, instrumentation and control.

Graduates of this program are employed in research, design, production, marketing, service, installation (contracting), maintenance and operation in such industries as mining, petroleum, paper, food, power, manufacturing, air-conditioning, defense systems, aerospace, data processing, communications, and automotive.

Laboratories are available for basic instrumentation, thermal and fluid sciences, solid mechanics, data acquisition and control, CAD/CAE, vibrations, and aerodynamics.

Students pursuing the Bachelor of Science in Mechanical Engineering program take coursework in thermodynamics and heat transfer, instrumentation and measurements, solid and fluid mechanics, dynamics, machine analysis and design, mechanical design, manufacturing processes, vibrations and controls. This is supplemented by elective coursework in such areas as power plant analysis, refrigeration and air conditioning, mechanical design, advanced mechanics, robotics, propulsion, computer-aided design, manufacturing, bio-engineering, alternative energy, thermal design, composite materials, and aerodynamics.

Graduates of this program are employed in design, manufacturing, contracting, operations, marketing, and management in virtually all segments of industry and government, including, but not limited to: aeronautics, aerospace & propulsion; automotive, internal combustion engines, fuel cells & transportation; propulsion systems; electronic utilities & power generation; heating, ventilation & air conditioning; structures & machinery design; mining & oil exploration; paper, textile, food, & petrochemical industries/processing/manufacturing; micro & nano materials and semiconductors; and biomaterials & bioengineering. There are abundant career opportunities in a wide range of industries because mechanical equipment is required in every aspect of modern industry.

## Mission Statement

The Mission of the Mechanical Engineering Department is:

- to provide an exemplary undergraduate and graduate education for students entering the mechanical engineering profession or seeking careers in related fields;
- to advance scientific knowledge through basic and applied research;
- to disseminate technical information through scholarly publication and presentation, and continuing education;
- to advance the profession through service within the associated societies;
- to promote activities which embrace global development.

## Objectives

The objectives of the Undergraduate Program in Mechanical Engineering are:

- Our graduates will successfully apply concepts of science, mathematics, computation, and engineering in their chosen endeavor;
- Our graduates will possess knowledge and skills essential to engineering processes, such as design, analysis, synthesis, fabrication and experimental techniques;
- Our graduates will demonstrate skills for professional interaction and leadership including multi-disciplinary collaboration, and effective oral and written communication.
- Our graduates will understand technology within a global, societal and economic context. They will also demonstrate continued career development as well as professional and ethical responsibility.

## Departmental Policies

In addition to the College's graduation requirement, the department has the following policies:

- Mandatory academic advising of students for each term, and;
- Exit interviews as a graduation requirement.
- Students are strongly encouraged to take the FE Exam.

## Four-Year Curriculum in Mechanical Engineering

**Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida Community College:** If a student wishes to transfer without an A.A. degree and has

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

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

Students qualify for direct entry to the department if they have completed the following courses at a Community College or University in the Florida State University System (SUS) and meet all other admissions requirements of the University and College.

Students qualify for direct entry to the department if they have completed the following courses at a Community College or University in the Florida State University System (SUS) and meet all other admissions requirements of the University and College.

Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university.

**Communications:**

ENC 1101/1102 English I and II (6)

**Humanities & Social Sciences:**

Humanities Courses (6)

Social Science Courses (6)

Humanities or Social Sciences (3)

**Mathematics:**

**USF**

MAC 2281 MAC 2311\* (4)

MAC 2282 MAC 2312\* (4)

MAC 2283 MAC 2313\* (4)

MAP 2302 MAP 2302 (3)

\*or MAC 2281, MAC 2282, MAC 2283

**Natural Sciences:**

**USF**

CHM 2045 CHM 1045\* (3)

CHM 2045L CHM 1045L\* (1)

PHY 2048 PHY 2048 (3)

PHY 2048L PHY 2048L (1)

PHY 2049 PHY 2049 (3)

PHY 2049L PHY 2049L (1)

\*or CHS 1440 Chemistry for Engineers

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

### Mechanical Engineering Admissions Requirements

Students entering the Mechanical Engineering department must have completed the equivalent USF Engineering Calculus sequence, one year equivalent USF General Physics and one semester equivalent USF General Chemistry with a minimum of 2.5 GPA; and must have an overall and USF GPA of 2.0 or better.

### BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

The schedule that follows indicates how a diligent student who can devote full time to coursework can satisfy requirements in four academic years. Students without a solid foundation or those who cannot devote full time to academics should plan a slower pace. The following sequence is intended to facilitate registration planning and is subject to change based upon course availability. The sequence may also vary based upon individual considerations. Registration assistance will be provided by academic advisors.

#### Semester I

ENC 1101	Composition I	3
MAC 2281	Engineering Calculus I	4
CHM 2045	General Chemistry I	3
CHM 2045L	General Chemistry I Lab	1
EGS 1113	Intro. to Design Graphics	3
EGN 3000	Foundations of Engineering	1
Total		15

#### Semester II

ENC 1102	Composition II	3
MAC 2282	Engineering Calculus II	4
PHY 2048	General Physics I	3
PHY 2048L	General Physics I Lab	1
Fine Arts Elective		3
Total		14

#### Semester III

MAC 2283	Engineering Calculus III	4
PHY 2049	General Physics II	3
PHY 2049L	General Physics II Lab	1
EGN 3311	Statics	3
EGN 3615	Engineering Economics with Social and Global Implications	3
Total		14

#### Semester IV

EGN 3321	Dynamics	3
EGN 3365	Materials Engineering I	3
EGN 3373	Electrical Systems I	3
EML 3035	Programming Concepts for Mechanical Engineers	1
MAP 2302	Differential Equations	3
Social Science Elective		3
Total		16

#### Summer Term

EGN 3343	Thermodynamics I	3
EGN 3443	Engineering Statistics I	3
EML 3500	Mechanics of Solids	3
Historical Perspectives Elective		3
Total		12

#### Semester V

EML 3041	Computational Methods	3
EML 3701	Fluid Systems	3
EML 3262	Kinematics and Dynamics of Machinery	3
ENC 3246	Communication for Engineers (6A L&W)	3
EGN 4325	Mechanical Manufacturing Processes	3
Total		15

#### Semester VI

EML 4501	Machine Design	3
EML 3303	Mechanical Engineering Lab I	3
EML 4124	Heat Transfer	3
Approved Technical/Design/Science Elective		3
ALAMEA Elective		3
Total		15

#### Semester VII

EML 4106	Thermal Systems	3
EML 4302	Mechanical Engineering Lab II	3
EML 4220	Vibrations	3
Approved Technical/Design/Science Elective		3
Historical Perspectives Elective		3
Total		15

#### Semester VIII

EML 4312	Mechanical Controls	3
EML 4551	Capstone Design (MW/MI)	3
Approved Technical/Design/Science Elective		3
Approved Technical/Design/Science Elective		3
Total		12

Gordon Rule (6A) is fully met through the mathematics courses above, ENC 1101, ENC 1102, ENC 3246 and by selecting one technical or general education elective that is an approved 6A communication course or by completing an AA degree at a Florida Community College. Exit Requirements in Major Works/Major Issues (MW/MI) and Literature & Writing (L&W) are fully met through EML 4551 and ENC 3246.

## • GENERAL ENGINEERING

### BACHELOR OF SCIENCE IN ENGINEERING (B.S.E)

The College of Engineering also offers the Bachelor of Science in Engineering degree. This program is tailored to meet the needs of students with academic and career goals that are not best met by following a prescribed disciplinary program. The program is often cross-disciplinary in nature and a specific curriculum is not predetermined. Therefore, this degree cannot be accredited by the Accreditation Board for Engineering and Technology and it is not often recommended. Nevertheless, it can be a valuable program in some cases. The curriculum plan for each student pursuing this option is developed in consultation with faculty advisors and must be approved by the Associate Dean for Academic Affairs or his designee.

Premedical students may elect this option. It accommodates up to 24 hours of special pre-med coursework (Biology, Organic Chemistry, etc.) to meet the requirements for applying to medical schools. Pre-law students find this option permits a strong technical background and rigorous undergraduate preparation including a focus on ethics and professionalism in the engineering profession.

#### Objectives

The Objectives of the Undergraduate Program in General Engineering are to prepare students to:

1. Think critically and employ the concepts of math, science, engineering and modern data acquisition.
2. Effectively utilize the skills essential to the design process, including problem formulation, conceptualization, testing and analysis.
3. Interact proficiently in a multidisciplinary professional environment through well-developed oral and written communication skills.
4. Enter into professional practice with an awareness of ethical responsibility, the need for continuing education, and global and societal considerations.

Students pursuing the Bachelor of Science in Engineering complete courses in mathematics, science and general engineering, and courses in an area of engineering specialization. Students completing this program often pursue graduate or professional degrees in management, medicine, or law. The critical thinking skills and technological expertise an engineering education provides result in career opportunities within a wide range of settings within the engineering field and other professional, industrial, governmental, military, administrative and business settings.

#### Graduation Requirements

In addition to the University's graduation requirements and completion of the required courses and approved specialization courses, graduation requirements for the Bachelor of Engineering degree program include:

1. Mandatory academic advising of students each term
2. Exit interviews as a graduation requirement
3. No grade lower than a C (not a C-) in degree applicable math, science or engineering courses.

Note: Please refer to the University of South Florida requirements for graduation for GPA requirements.

## Four-Year Curriculum - General Engineering

**Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida Community College:** If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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.

Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university.

Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university.

#### Communications:

ENC 1101/1102 Composition I and II (6)

#### Humanities & Social Sciences:

Humanities Courses (6)

Social Science Courses (6)

Humanities or Social Sciences (3)

#### Mathematics:

##### USF

MAC 2281

MAC 2282

MAC 2283

MAP 2302

\*or MAC 2281, MAC 2282, MAC 2283

#### Natural Sciences:

##### USF

CHM 2045

CHM 2045L

PHY 2048

PHY 2048L

PHY 2049

PHY 2049L

\*or CHS 1440 Chemistry for Engineers

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

##### C/C

MAC 2311\* (4)

MAC 2312\* (4)

MAC 2313\* (4)

MAP 2302 (3)

##### C/C

CHM 1045\* (3)

CHM 1045L\* (1)

PHY 2048 (3)

PHY 2048L (1)

PHY 2049 (3)

PHY 2049L (1)

#### Admissions Requirements

Students entering the General Engineering degree must have completed the equivalent USF Engineering Calculus sequence, one year equivalent USF General Physics and one semester equivalent USF General Chemistry with a minimum 2.0 GPA; and must have a USF and an overall GPA of 2.0 or better.

Continuation Requirements: Completion of the following: EGN 3311, EGN 3343, EGN 3443 and EGN 3373 with grades of C or better, (C- is insufficient), is required before registration in specialization courses will be permitted.

#### Department Policies:

1. Advising is mandatory prior to each term.
2. A grade of C or better is required in Math, Science and Engineering Courses (C- is insufficient).
3. College Electives must be relevant to specialization and approved by the Program Coordinator.

**Semester I**

ENC 1101	Composition I	3
MAC 2281	Engineering Calculus I	4
CHM 2045	General Chemistry I	3
CHM 2045L	General Chemistry I Laboratory	1
	Historical Perspectives Elective	3
Total		14

**Semester II**

ENC 1102	Composition II	3
MAC 2282	Engineering Calculus II	4
EGN 3000	Foundations of Engineering	1
PHY 2048	General Physics I	3
PHY 2048L	General Physics I Laboratory	1
XXX XXXX	Social Science Elective	3
Total		15

**Semester III**

MAC 2283	Engineering Calculus III	4
EGN 3311	Statics	3
PHY 2049	General Physics II	3
PHY 2049L	General Physics II Laboratory	1
	Social Science Elective	3
XXX XXXX	ALAMEA Elective	3
Total		17

**Semester IV**

EGN 3433	Modeling & Analysis of Engineering Systems	
or		
MAP 2302	Differential Equations	3
EGN 3373	Introduction to Electrical Systems I	3
EGN 3443	Engineering Statistics I	3
EGN 3343	Thermodynamics I	3
	Historical Perspectives Elective	3
Total		15

**Summer**

XXX XXXX	College Elective	3
	Fine Arts Elective	3
	Elective	3
Total		9

**Semester V**

ENC 3246	Communication for Engineers	3
XXX XXXX	College Elective	3
XXX XXXX	College Elective	3
XXX XXXX	College Upper-Level Elective	3
XXX XXXX	College Upper-Level Elective	3
Total		15

**Semester VI**

XXX XXXX	College Upper-Level Elective	3
XXX XXXX	College Upper-Level Elective	3
XXX XXXX	College Upper-Level Elective	3
XXX XXXX	College Upper-Level Elective	3
XXX XXXX	College Upper-Level Elective	3
Total		15

**Semester VII**

XXX XXXX	College Upper-Level Elective	3
XXX XXXX	College Upper-Level Elective	3
XXX XXXX	College Upper-Level Elective	3
XXX XXXX	College Upper-Level Elective	3
XXX XXXX	College Upper-Level Elective	3
Total		15

**Semester VIII**

XXX XXXX	College Upper-Level Elective	1
XXX XXXX	College Upper-Level Elective	3
XXX XXXX	College Upper-Level Elective	3

XXX XXXX	Exit - College MW/MI Elective	3
XXX XXXX	Elective	3
Total		13

Gordon Rule (6A) is fully met through the mathematics courses above, ENC1101, ENC1102, ENC 3211 and by selecting one technical or general education elective that is an approved 6A communication course or by completing an AA degree at a Florida Community College.

Exit Requirements in Major Works/Major Issues (MW/MI) and Literature and Writing (L&W) are fully met through ENC3211 and a Capstone Design Course indicated as MW/MI.

**ENGINEERING FACULTY****Chemical & Biomedical Engineering**

*Chair:* B. Joseph; *Emeritus Professor:* J.C. Busot, J.A. Llewellyn; *Professors:* V.R. Bhethanabotla, S.W. Campbell, R. Gilbert, Y. Goswami, W.E. Lee, III, C. A. Smith, A. K. Sunol; *Associate Professors:* V. Gupta, M. Jaroszeski, J. T. Wolan; *Assistant Professors:* N. Alcantar, R. G. Toomey, M.D. VanAuker; *Courtesy Faculty:* A. Ghaneh-Ford, T. Koob, S. Kranc, D. McMillan, M. Ossowski, N. Poor, J. Strom, S. Sunol.

**Civil and Environmental Engineering**

*Chairperson (Interim):* W. Carpenter; *Professors Emeriti:* M. W. Anderson, R.P. Carnahan, W. Echelberger, J.E. Griffith, S. Kranc; *Distinguished Professor:* A. A. Sagüés; *Professors:* W.C. Carpenter, M. Gunaratne, J.J. Lu, M.A. Ross, A. A. Sagüés, R. Sen; *Associate Professors:* G. Mullins, M. Nachabe, A. Zayed; *Assistant Professors:* J. Cunningham, D. Simkins, P. Stroot, A. Tejada, M. Trotz, D. Yeh; *Instructor:* K. Nohra; *Courtesy Faculty:* E. Mierzejewski, J. Obeysekera, S.E. Polzin, N. Poor, A. Stuart, F.L. Young.

**Computer Science and Engineering**

*Chairperson:* L. Hall; *Distinguished Professor:* A. Kandel, N. Ranganathan; *Professors:* K. Christensen, D. Goldgof, L. Hall, A. Kandel, R. Kasturi, R. Murphy, R. Perez, L. Piegl, S. Sarkar, K. Valavanis; *Associate Professors:* S. Katkoori, M. Labrador, D. Rundus; *Assistant Professors:* A. Iamnitshi, J. Ligatti, R. Tripathi, Y. Tu, H. Zheng; *Instructor:* J. Harlow, H. Jeanty, E. Kellner, R. Tindell, R. Turner, J. Wang.

**Electrical Engineering**

*Chairperson:* D. L. Morel; *Professors:* Y. Chiou, A. Domijan, L.P. Dunleavy, C. S. Ferekides, V.K. Jain, D.L. Morel, R. S. Sadow, R. Sankar, E.K. Stefanakos, T.E. Wade, T. M. Weller; *Associate Professors:* S. Bhansali, K.A. Buckle, A.M. Hoff, W.A. Moreno, R. Schlaf, P.H. Wiley; *Assistant Professors:* H. Arslan, S. Bhanja, H. Cao, J. Wang; *Visiting Professor:* C. Baylis, R. Fehr; *Lecturers:* J.T. Leffew, S.W. Thomas.

**Industrial and Management Systems**

*Chairperson:* J. Zayas-Castro; *Professors:* T. K. Das, S. K. Khator, O. G. Okogbaa, J. Zayas-Castro; *Associate Professors:* M. X. Weng, A. Yalcin; *Assistant Professors:* G. Centeno, Q. Huang, N. Kong, S. Lai-Yung, K. Reeves, A. Savachkin; *Lecturers:* D. K. Gooding, P. R. McCright, P. Schnitzler.

**Mechanical Engineering**

*Chairperson:* R. V. Dubey; *Professors:* R.A. Crane, R.V. Dubey, D.P. Hess, A.K. Kaw, A. Kumar, J.L.F. Porteiro; *Associate Professors:* G.H. Besterfield, M.M. Rahman, S. Wilkinson; *Assistant Professors:* N. Crane, C. Lusk, Y.P. Moussy, F. Pyrtle III, A. Volinsky; *Adjuncts:* D.L. Dekker; *Professor Emeritus:* L. A. Scott, W. A. Smith, S. J. Ying.

# LOUIS DE LA PARTE FLORIDA MENTAL HEALTH INSTITUTE

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

*Location/Phone:* MHC 2525, (813) 974-4672

The Louis de la Parte Florida Mental Health Institute's mission is to improve the lives of people with mental, addictive and developmental disorders through research, training, and education.

The Institute's programs are conducted by three departments: Aging and Mental Health, Child and Family Studies, and Mental Health Law and Policy. The Institute conducts a broad range of applied research, training, and dissemination activities related to the planning, development, delivery, and evaluation of behavioral health services. The Institute's training and consultation activities are provided for a variety of audiences including students, behavioral health and health care professionals, the Florida legislature, administrators, policy makers, consumers, and the public.

The Institute offers an undergraduate minor in behavioral healthcare (see listing below) and provides research experiences for undergraduates. In addition to the credits earned in the minor, students may earn academic credit for research conducted with faculty mentors at the Institute.

## Minor in Behavioral Healthcare

Behavioral health problems, such as mental illness and substance abuse, are among the greatest public health challenges facing our communities. New, scientifically based approaches are available to treat and prevent many behavioral health problems. Students will be exposed to treatment approaches as well as to issues in the organization, financing, delivery, and outcomes of behavioral health services. The emphasis of the curricula is on practices that have been scientifically validated and their delivery within the context of current funding, policies and trends.

This Minor in Behavioral Healthcare is available to students interested in pursuing a career in the broad field of behavioral health in conjunction with any undergraduate major. It should be particularly beneficial to persons majoring in disciplines such as psychology, social work, sociology, anthropology, gerontology, pre-med, criminology, and nursing.

A GPA of 2.0, or better in this minor is required for certification. At least nine (9) of the credit hours must be taken at USF. A Behavioral Healthcare advisor is available to guide students on course selection and to coordinate the minor with related majors.

The Minor in Behavioral Healthcare consists of a minimum of fifteen (15) credit hours comprised of the following courses:

### Required Courses:

MHS 3411 Multidisciplinary Behavioral Healthcare Services	3
MHS 4002 Behavioral Health Systems Delivery	3
MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment	3
MHS 4425 Field Experience in Behavioral Healthcare*	3

### Electives (minimum of 3 credit hours required):

MHS 4931 Selected Topics in Behavioral Healthcare**	1-4
MHS 4906 Directed Study	1-4

\*A student completing a field placement in Psychology, Social Work, or other of the human services may be exempted (by the advisor) from the "Field Experience in Behavioral Healthcare" and may substitute an elective from the above list. Enrollment in MHS 4425 requires prior College approval.

\*\*Topics covered include among others: Psychology and the Law (3), Behavioral Health Issues in Children (3), Behavioral Health Issues in Elders (3).

A concentration in Behavioral Healthcare for the Bachelor's of Science in Applied Science degree program requires eighteen (18) credits from the courses listed above. Please see the BS in Applied Science listings for additional information.

A cognate in Behavioral Healthcare for the Interdisciplinary Social Sciences major requires twelve (12) credits from the courses listed above. MHC 4425 is not required to complete the cognate.

# COLLEGE OF MARINE SCIENCE

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

Although the College of Marine Science does not offer an undergraduate degree, graduate courses in the college are open to advanced undergraduates in other natural science disciplines. In addition, the college has a number of courses specifically geared for undergraduates; consult the Schedule of Classes for course titles currently being offered. Some Marine Science courses are available on more than one campus by means of distance learning.

The College of Marine Science (CMS) at the University of South Florida offers M.S. and Ph.D. degrees in Marine Science. The student may emphasize biological, chemical, geological, or physical oceanography, or develop an interdisciplinary program in Oceanography through course work and thesis or dissertation research. Satellite oceanography is a good example of such a program. More than 110 students are currently pursuing degrees under the direction of 25 full-time faculty. Study areas range from estuarine and near-shore systems to remote areas of the Pacific, Atlantic and Indian Oceans, as well as the Arctic and Antarctic. Additional information on faculty research and facilities is available at the CMS web site (<http://www.marine.usf.edu>) and from the college upon request.

The college is located on the campus of USF St. Petersburg which allows immediate access to Tampa Bay and the Gulf of Mexico. Bayboro Harbor is home port to the R/V *Bellows* (71 ft.) and the R/V *Suncoaster* (110 ft.). These vessels are operated by the Florida Institute of Oceanography (FIO) for the entire State University System. One of the college's principal buildings is shared with FIO and is adjacent to the Fish and

Wildlife Research Institute (FWRI), the research arm of the Florida Fish and Wildlife Conservation Commission. A second research building is shared by CMS and FWRI and houses a remote-sensing, satellite data-acquisition center. The U.S. Geological Survey (USGS) Center for Coastal Geology and Regional Studies, the office of the Tampa Bay National Estuary Program, FWRI, and the College of Marine Science are all located on the campus of USF St. Petersburg. A branch of the National Marine Fisheries Service of the US National Oceanic and Atmospheric Administration (NOAA) is also nearby. Consequently, St. Petersburg is home to one of the largest concentrations of marine scientists in the southeastern United States; many of these scientists serve on advisory committees of CMS graduate students.

## Marine Science Faculty

*Dean:* P. R. Betzer; *Professors:* K. L. Carder, K. A. Fanning, L.H. Garcia-Rubio, P. Hallock Muller, A. C. Hine, G.T. Mitchum, F. Muller-Karger, J. J. Torres, E. S. Van Vleet; *Distinguished Research Professor:* J.H. Paul, R. H. Weisberg; *Graduate Research Professors:* R.H. Byrne, J.J. Walsh; *Professor Emeritus:* N. J. Blake, J. C. Briggs; *Associate Professors:* P. G. Coble, K. Daly, B. Flower, B. Galperin, D.J. Hollander, M. E. Luther, D.A. Mann, D. F. Naar, G. A. Vargo; *Assistant Professors:* M. Breitbart, A.J. Pyrtle; *Courtesy Professors:* B. Barber, C. D'Elia, G. Denton, W. Jaap, B. Keller, T. Hopkins, T. Quinn, E. Shinn, R. Wells; *Courtesy Associate Professors:* T. Cuba, A. Meylan; *Courtesy Assistant Professors:* S. Andrefouet, C. Heil, P. Howd, J. Lisle, H. Rashid, R. Wells; *Courtesy Instructor:* L. Ciaccio.

# COLLEGE OF MEDICINE

UNIVERSITY OF SOUTH FLORIDA - 2007/2008 UNDERGRADUATE CATALOG

## Department of Orthopaedics & Sports Medicine

### **For Athletic Training Major (BAT):**

The undergraduate Athletic Training Major is a limited access program designed to prepare students for a successful career as a qualified allied health care professional educated and experienced in the management of health care problems associated with sports participation. Admission to the major is gained through completion of required criteria set forth by the Department of Orthopaedics and Sports Medicine in addition to the regular university application process. Successful completion of the major qualifies students to take the Board of Certification Examination and the State of Florida Athletic Trainer Licensure. The Athletic Training Program is accredited by the Commission on Accreditation of Athletic Training Education Programs (CAATE).

This is a full-time 2-year program with a considerable clinical education component. Students must be available for class from 8am - 12pm daily and from 2pm - 7pm daily for clinical education. Considerable evening and weekend hours may also be required. Students will accumulate a minimum of 250 hours of clinical education per semester. This program follows an alternate calendar.

Graduates from this program establish successful careers as athletic trainers in secondary schools, colleges and universities, professional sports programs, sports medicine clinics, and other athletic health care settings. Interested students should visit our web site (<http://health.usf.edu/nocms/medicine/orthopaedic/atep/>). The web site offers students a proposed four-year course sequence, a description of our program, a listing of approved clinical sites, and dates/times of information meetings.

### **Major Requirements:**

In order to be admitted to the Athletic Training Education Program, students must participate in a selective admissions procedure. Information meetings are held monthly to provide students with information, applications and forms. Times and locations are listed on the program's web site at <http://health.usf.edu/nocms/medicine/orthopaedic/atep/>.

Enrollment in the program is limited and students must apply before February 1 of each year for admission the following "C" Summer Session. Students must complete at least 60 semester credit hours of the total 120 credit hours required for graduation prior to admission. Admission process includes prior admission to the University, application to the athletic training program, submission of all transcripts, recommendation forms, 50 hours of observation of a Certified Athletic Trainer and a written essay on career goals. Students are given a pre-interview score consisting of scores for GPA, GPA in prerequisite classes, professional involvement, leadership ability, recommendations, observation hours and essay. Top candidates will be invited for an interview. Interviews are held the last weekend in February yearly. Students will be notified of their status in the program following the interview. This program begins during the Summer "C" session.

### **Admission Criteria:** Students must:

- Apply to the University of South Florida no later than December 1<sup>st</sup> of the year preceding application to the Athletic Training Program.
- Meet the criteria for admission to the College of Medicine, School of Physical Therapy and Rehabilitation Services. Athletic Training Education Program.
- Complete the General Education Requirements of the University (36 credit hours).  
\*See the University General Education Requirements section of the catalog.
- Complete the following prerequisite or an equivalent with at least a "C" average: (33 credit hours).

BSC 2010	Biology I - Cellular Processes	3
BSC 2010L	Biology I Laboratory	1
BSC 2011	Biology II - Diversity*	3
BSC 2011L	Biology II Lab*	1
BSC 2093C	Human Anatomy & Physiology I	4
or		
BSC 2085	Anatomy & Physiology I for Nursing and other Healthcare Professionals	3
and		
BSC 2085L	Anatomy & Physiology Lab I for Nursing and other Healthcare Professionals	1
BSC 2094C	Human Anatomy & Physiology II	4
or		
BSC 2086	Anatomy & Physiology II for Nursing and other Healthcare Professionals	3
and		
BSC 2086L	Anatomy & Physiology Lab II for Nursing and other Healthcare Professionals	1
CHM 2045	General Chemistry I	3
CHM 2045L	General Chemistry I Laboratory	1
PHY 2053	General Physics	3
PHY 2053L	General Physics Laboratory	1
PSY 2012	Introduction to Psychological Science	3
STA 2023	Introductory Statistics I	4

- Successfully meet exemption requirements for the CLAST or successfully complete the exam.
- Achieve a minimum cumulative GPA of 2.5.
- Achieve a minimum prerequisite GPA of 2.8.
- Complete and record 50 hours of observation with a Certified Athletic Trainer. Half of the hours must be done in a "traditional" athletic training setting (i.e., high school, college/university or professional sports venue). The remaining hours may be done in a sports medicine clinic under a Certified Athletic Trainer. See the Clinical Coordinator for placement and documentation forms. Documentation should be submitted with application.
- Submit a completed Athletic Training Application by February 1st.
- Students must be First Aid and CPR certified at the time of application and maintain certification throughout the academic program. This may be initially accomplished by taking HSC 2400 First Aid & CPR or taking courses through the American Red Cross, National Safety Council or American Heart Association.
- Meet the technical standards for admission or show potential for accomplished tasks with accommodation as determined by the Student Disability Office.
- A maximum of 6 credit hours of general education and prerequisite requirements may be taken following admission to the program. The 6 hours may not include BSC 2093, 2094 or BSC 2085, 2086.
- Complete an interview by invitation.

\*BSC 2011 and BSC 2011L are required as prerequisite for BSC 2093C and BSC 2094C at USF. Students that have already taken BSC 2093C and BSC 2093C or equivalent at other institutions do not have to complete BSC 2011 and BSC 2011L.

### **Required Professional Core Courses:**

HUN 2201	Nutrition	3
PET 3310	Kinesiology	3
PET 3351	Exercise Physiology I	3
PET 3617C	Orthopedic Physical Assessment (Upper Extremity)	3
PET 3618C	Orthopedic Physical Assessment (Lower Extremity)	3
PET 3621C	Athletic Training Techniques	3
PET 3630C	Techniques in Therapeutic Exercise	3
PET 3660	Athletic Training Administration & Policy	3
PET 3670L	Clinical Instruction in Athletic Training I	3

PET 3671L	Clinical Instruction in Athletic Training II	3
PET 4353	Exercise Physiology II	3
PET 4384	Health-Fitness Appraisal & Exercise Prescription	3
PET 4627	General Medical Conditions in the Athlete	3
PET 4632C	Therapeutic Modalities	3
PET 4633C	Therapeutic Rehabilitation	3
PET 4672L	Clinical Practice in Athletic Training I	3
PET 4673L	Clinical Practice in Athletic Training II	3
PET 4933	Seminar in Sports Medicine	3
PET 4935	Case Studies in Athletic Health Care	3
PET 4625	Advanced Athletic Training	3

## **Please Note:**

PET 3670L, 3671L, 4672L, and 4673L each require a minimum of 250 hours/semester of clinical education at various sites. Students should be aware that this is a considerable time commitment and should plan accordingly. Students may be expected to accumulate more than 250 hours/semester in some rotations due to the demands of the particular rotation.

Once admitted to the Athletic Training Program students must be available from 8am – 12 pm for class and from 2 pm – 7pm for clinical education daily (times vary depending on

site). Students must also be available nights and weekends for clinical assignments.

There will be additional costs (above tuition and fees) for the clinical rotations which may include, but are not limited to professional liability insurance, physical examination and immunizations, professional association fees, and uniforms. Transportation is needed for all off-campus clinical sites. Each student will have a minimum of one off-campus rotation.

Students are required to be fingerprinted and complete a background check prior to starting rotations at any public or private school. The athletic training student is responsible for this additional expense.

Students proceed through the program in cohorts and are required to complete all the required courses each semester with a grade of "C-" or better in order to progress to the next semester. Students who do not complete the requirements will be dismissed from the program and may re-apply for the next cohort. Students must maintain a 3.0 GPA in the core courses or will be placed on probation in the program. Probation includes attending mandatory study sessions. Two consecutive semesters on probation may result in the student being dismissed from the program.

Students must satisfy the University's CLAST requirements prior to graduation.

# COLLEGE OF NURSING

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

## Undergraduate Nursing Program General Information

The program is accredited by the National League for Nursing Accrediting Commission, 61 Broadway, New York, NY 10006, (212) 363-555 ext.153, the Commission on Collegiate Nursing Education, One Dupont Circle, NW Suite 530, Washington, DC, 20036, (202) 887-6791, and approved by the Florida State Board of Nursing. Graduates of the Upper Division and Accelerated programs are eligible to sit for the National Council Licensure Examination (NCLEX) Registered Nurse qualifying exam. Graduates may apply for licensure in Florida or other states, and successful undergraduates have the educational background necessary for graduate study in nursing.

The College of Nursing encourages applications from qualified applicants of both sexes and from all cultural, racial, religions, ethnic, and age groups. The College of Nursing uses selective criteria for the admission of students. Admissions are determined on the basis of availability of sufficient qualified faculty, laboratory and classroom facilities, and clinical teaching resources.

The College of Nursing is a limited access program. Any student who applies to any undergraduate program at the College of Nursing is initially coded as "pre-nursing" prior to official acceptance to the College of Nursing. No undergraduate nursing courses will be transferred from any institution.

1. The **C.A.R.E. (Creating Access to RN Education)** program is a special program designed for the first time in college (FTIC) students. Minimum requirements for consideration are at least a 3.6 cumulative weighted high school grade point average and a combined score of at least 1200 on the SAT or a composite score of at least 28 on the ACT. Please contact College of Nursing at (813) 974-9305 for detailed information.
2. The **Upper Division** program is for students who have completed all nursing pre-requisite courses and have a minimum GPA of 3.2. This is a full-time, limited access program, as mandated by the state, and is structured sequentially. Admission is competitive, and students with higher GPAs are given preference.
3. The **Accelerated** program is for students who have a baccalaureate degree in another field and a minimum undergraduate GPA of 3.0. Students with an awarded bachelor's degree and who have completed all the nursing pre-requisite courses may be considered for admission into the accelerated program. Upon completion, students will earn a second bachelor's degree. This is a full-time, limited access program, as mandated by the state, and is structured sequentially. Admission is competitive, and students with higher GPAs are given preference.
4. The **RN to BS** program is for students currently licensed to practice as a Registered Nurse by the Florida Board of Nursing. The RN to BS option allows an RN with a diploma or an Associate's degree in nursing to earn a Bachelor of Science degree with a major in nursing.
4. The **RN to MS** program is for students currently licensed to practice as a Registered Nurse by the Florida Board of Nursing. The RN to MS option allows an RN with a diploma or an Associate's degree in nursing to earn a Master of Science degree with select concentrations in nursing. Upon completion of the RN to MS program a student who has fulfilled the University Foreign Language requirement may also apply for the awarding of the Bachelor of Science degree with a major in Nursing.

## Nursing Advising

The College of Nursing Office of Student Services offers a comprehensive service for all College of Nursing students as well as information sessions and general information for prospective students. These services include information sessions, registration, academic advising, scholarships, graduation certification, and other services. However, the student must remember that he or she is ultimately responsible for meeting all graduation requirements.

The goals of the office of Student Affairs are to

- Facilitate the application and acceptance process for students
- Assist students as they develop their educational plans
- Guide students to select appropriate courses
- Help students interpret institutional requirements
- Advise students to facilitate progression in their course of study
- Facilitate graduation process for students

**Location and Phone Number:** The College of Nursing (MDN) building is located near Bruce B. Downs Blvd. and west Holly Drive on the northwest corner of campus. The mailing address is 12901 Bruce B. Downs Blvd, MDC 22, Tampa, FL 33612-4766. The College telephone number is (813) 974-9305.

**Advising Offices:** To schedule an advising appointment at a location where the College of Nursing offers courses, call the College of Nursing Office of Student Services at (813) 974-9305 or toll-free at (888) 974-9488 or <http://health.usf.edu/nocms/nursing/>.

**Office Hours:** 8 a.m. - 5 p.m., Monday through Friday.

## Prerequisite Coursework for Nursing Students

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

The University and the College of Nursing work closely with the community colleges within the 10 county USF service area. The University's Liberal Arts requirements and College of Nursing's prerequisite/support courses may be completed through the A.A. degree at the community college. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The A.A. degree satisfies admission requirements only if courses are carefully selected and include the required major prerequisite/support courses.

The College of Nursing requires certain courses within the Liberal Arts requirement for the natural, social and behavioral sciences, and mathematics as listed under the heading "Liberal Arts Requirements." Students must complete the prerequisite courses listed below prior to being admitted to the upper-division major except those students in the C.A.R.E. program. All prerequisite courses must be completed with a grade of "C" or higher.

All courses not approved by the Florida State Course Numbering System (includes all Florida public colleges, universities, and community colleges) used to satisfy these prerequisite requirements will be evaluated individually on the basis of content and will require a catalog course description and a copy of the syllabus for assessment.

BSC X085C Human Anatomy & Physiology I or any Human Anatomy & Physiology I course, 3-4 semester hours  
BSC X086C Human Anatomy & Physiology II or any Human Anatomy & Physiology II course, 3-4 semester hours  
CHM XXXX Comprehensive General Chemistry (CHM 1032 or higher), 4-6 semester hours

DEP X004 Human Growth & Development or any Human Growth & Development course, 3 semester hours  
HUN X201 Human Nutrition or any Human Nutrition course, 3 semester hours, **OR**  
NUR 1192  
MCB X010C Microbiology or Any Microbiology course, 4 semester hours  
PSY X012 Introduction to Psychology or any General Psychology course, 3 semester hours  
STA X014 Statistics or any Statistics course, 3 semester hours  
SYG X000 Introduction to Sociology or any Introduction to Sociology course, 3 semester hours

### Liberal Arts Requirements

The College of Nursing requires certain courses within the Liberal Arts requirements for the natural, social and behavioral sciences, and mathematics. Students must complete 60 semester hours of college-level work. Credit received on the basis of CLEP or Advanced Placement examinations or other appropriate procedures may be included to meet some of these requirements. For all students, the required 60 semester hours includes completion of the University of South Florida Liberal Arts requirements and may be satisfied by the completion of the following courses with the corresponding credit:

English Composition	6
Quantitative Methods	6
Algebra or Finite Math (preferred) (3)	
Statistics (3)	
Fine Arts	3
Natural Sciences	17-19
Chemistry (4)	
Nutrition (3)	
Microbiology (4)	
Anatomy/Physiology (6-8)	
Social Sciences	9
Life Cycle (3)	
Psychology (3)	
Sociology (3)	
Historical Perspectives	6
African, Latin American, Middle Eastern, Asian Perspectives	3
3. Students with a Florida community college A.A. degree (other than in nursing) will be considered to have met all of the USF Liberal Arts requirements.	
4. Students must meet the University requirement for foreign language.	

## NURSING PROGRAM

### • Upper Division Program

#### Admission Requirements

- Admission to the University of South Florida
- Application to the College of Nursing prior to the published deadline for the intended term of entry
- Completion of all nursing pre-requisites course by published application deadline for the intended term of entry.
- Minimum 3.2 cumulative GPA on all undergraduate work
- Completion of the College Level Academic Skills Test (CLAST) or equivalent

#### Prerequisite Requirements:

The following nursing pre-requisites are required to be completed before the published deadline for the intended term of entry. A grade of 'C' or better is required.

BSC X085C Human Anatomy & Physiology I or any Human Anatomy & Physiology I course, 3-4 semester hours  
BSC X086C Human Anatomy & Physiology II or any Human Anatomy & Physiology II course, 3-4 semester hours

CHM XXXX Comprehensive General Chemistry (CHM 1032 or higher), 4-6 semester hours  
DEP X004 Human Growth & Development or any Human Growth & Development course, 3 semester hours  
HUN X201 Human Nutrition or any Human Nutrition course, 3 semester hours, **OR**  
NUR 1192  
MCB X010C Microbiology or Any Microbiology course, 4 semester hours  
PSY X012 Introduction to Psychology or any General Psychology course, 3 semester hours  
STA X014 Statistics or any Statistics course, 3 semester hours  
SYG X000 Introduction to Sociology or any Introduction to Sociology course, 3 semester hours

#### Additional Requirements:

- The following Liberal Arts requirements must be completed while in the Lower Division program:

ENC 1101 English Composition I	3
ENC 1102 English Composition II	3
Quantitative Methods	
College Algebra or Finite Math preferred	3
STA X014 Statistics	3
- The following Liberal Arts requirements may be completed while in the Upper Division program:

Fine Arts	3
Historical Perspectives	6
African, Latin America, Middle Eastern or Asian Perspective (ALAMEA)	3
- Completion of the University Foreign Language requirement for the awarding of the Bachelor of Science degree
- Completion of all other University Baccalaureate degree requirements
- Additional coursework may be required to meet the USF graduation credit hour requirement.

#### Upper Division Course of Study

NUR 3125	Pathophysiology for Nursing Practice	(4)
NUR 3145	Pharmacology in Nursing Practice	(3)
NUR 3066	Physical Exam & Assessment	(2)
NUR 3026L	Nursing Fundamentals Clinical	(4)
NUR 3026	Fundamentals of Nursing Practice & Foundations	(4)
NUR 3525	Psychiatric/Mental Health Nursing	(3)
NUR 3525L	Psychiatric/Mental Health Nursing Clinical	(3)
NUR 3215	Medical Surgical Nursing I	(3)
NUR 3215L	Medical Surgical Nursing Clinical I	(4)
NUR 3826	Ethical/Legal Aspects of Nursing	(3)
NUR 4165	Nursing Inquiry	(3)
NUR 4216	Medical Surgical Nursing II	(4)
NUR 4216L	Medical Surgical Nursing Clinical II	(5)
NUR 4355	Child & Adolescent Health Nursing	(3)
NUR 4455	Women's Health Nursing	(2)
NUR 4636	Community/Public Health: Population - Focused Nursing	(3)
NUR 4635L	Integrated Clinical	(7)
NUR XXXX	Nursing Elective	(3)
NUR 4838	Leadership & Management in Prof Nursing Practice	(3)
NUR 4948L	Preceptorship	(6)

Total: 72

### • Accelerated Program

#### Admission Requirements

- Admission to the University of South Florida
- Application to the College of Nursing prior to the published deadline for the intended term of entry
- Completion of all nursing pre-requisite courses by the published deadline for the intended term of entry

# 176 COLLEGE OF NURSING

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

- Completion of first bachelor's degree, from an accredited institution, by the published application deadline for the intended term of entry
- Minimum 3.0 cumulative GPA on all undergraduate work
- Completion of the College Level Academic Skills Test (CLAST) or equivalent.

## Prerequisite Requirements:

The following nursing pre-requisites are required to be completed before the published deadline for the intended term of entry. A grade of 'C' or better is required.

BSC X085C Human Anatomy & Physiology I or any Human Anatomy & Physiology I course, 3-4 semester hours  
 BSC X086C Human Anatomy & Physiology II or any Human Anatomy & Physiology II course, 3-4 semester hours  
 CHM XXXX Comprehensive General Chemistry (CHM 1032 or higher), 4-6 semester hours  
 DEP X004 Human Growth & Development or any Human Growth & Development course, 3 semester hours  
 HUN X201 Human Nutrition or any Human Nutrition course, 3 semester hours, **OR**  
 NUR 1192  
 MCB X010C Microbiology or Any Microbiology course, 4 semester hours  
 PSY X012 Introduction to Psychology or any General Psychology course, 3 semester hours  
 STA X014 Statistics or any Statistics course, 3 semester hours  
 SYG X000 Introduction to Sociology or any Introduction to Sociology course, 3 semester hours

Liberal Arts General Education Requirements are met with the previous bachelors degree.

## Accelerated Course of Study

NUR 3125	Pathophysiology for Nursing Practice	(4)
or		
NGR 6140	Pathophysiology for Adv Practice	(3)
NUR 3145	Pharmacology in Nursing Practice	(3)
or		
NGR 6199	Pharmacology for Adv Practice	(3)
NUR 3826	Eth Legl Asp Nur & Health Care	(3)
or		
NGR 6135	Ethical/Legal Policy Issues	(3)
NUR 3026	Fundamentals of Nursing Practice & Foundation	(4)
NUR 3026L	Nursing Fundamentals Clinical	(4)
NUR 3066	Physical Exam & Assessment	(2)
NUR 4165	Nursing Inquiry	(3)
NUR 3525	Psychiatric/Mental Health Nursing	(3)
NUR 3215	Medical Surgical Nursing I	(3)
NUR 4216	Medical Surgical Nursing II	(4)
NGR 5580L	Integrated Clinical I & Lab	(4)
NUR 4355	Child & Adolescent Health Nursing	(3)
NUR 4455	Women's Health Nursing	(2)
NUR 4636	Community/Public Health: Population - Focused Nursing	(3)
NGR 5680L	Integrated Clinical II (Preceptorship)	(4)
NUR 4838	Leadership & Management in Prof Nursing Practice	(3)

Total: 51-52

## • RN to Bachelors Program

### Admissions Requirements:

- Admission to the University of South Florida
- Application to the College of Nursing prior to the published deadline for the intended term of entry
- Current Florida RN licensure and Associate's degree or diploma in Nursing (Those individuals with an Associate's

degree in Nursing may apply contingent on passage of NCLEX exam during first semester of study in the College of Nursing)

- Minimum 2.5 cumulative GPA on all undergraduate work
- Completion of the College Level Academic Skills Test (CLAST) or equivalent

## Prerequisite Requirements:

Nursing Prerequisite courses - These courses can be completed while in the RN to BS program. However, if a letter grade of less than 'C' is received prior to application to the College of Nursing, the course(s) must be repeated prior to application:

BSC X085C Human Anatomy & Physiology I or any Human Anatomy & Physiology I course, 3-4 semester hours  
 BSC X086C Human Anatomy & Physiology II or any Human Anatomy & Physiology II course, 3-4 semester hours  
 CHM XXXX Comprehensive General Chemistry (CHM 1032 or higher), 4-6 semester hours  
 DEP X004 Human Growth & Development or any Human Growth & Development course, 3 semester hours  
 HUN X201 Human Nutrition or any Human Nutrition course, 3 semester hours, **OR**  
 NUR 1192  
 MCB X010C Microbiology or Any Microbiology course, 4 semester hours  
 PSY X012 Introduction to Psychology or any General Psychology course, 3 semester hours  
 STA X014 Statistics or any Statistics course, 3 semester hours  
 SYG X000 Introduction to Sociology or any Introduction to Sociology course, 3 semester hours

## Liberal Arts Requirements:

- Completion of the following courses prior to the application deadline for the intended term of entry; a grade of 'C' or better is required:
 

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3
Quantitative Methods		
	College Algebra or Finite Math preferred	3
- Liberal Arts General Education Requirements - may be completed while in the RN to BS program:
 

Fine Arts	3
Historical Perspectives	6
African, Latin America, Middle Eastern or Asian Perspective (ALAMEA)	3
- Completion of the University Foreign Language requirement for the awarding of the Bachelor of Science degree
- Completion of all other University Baccalaureate degree requirements
- Additional coursework may be required to meet the USF graduation credit hour requirement.

## RN to BS Course of Study:

A letter grade of "C" or better is required in all Nursing (NUR) courses.

NUR 3805	Educational Transitions for Registered Nurses	(3)
NUR 3066	Physical Exam & Assessment	(2)
NUR 3066L	Clinical Experience in Health Assessment for RNs	(1)
NUR 3145	Pharmacology in Nursing Practice	(3)
NUR 3125	Pathophysiology for Nursing Practice	(4)
NUR 3826	Ethical Legal Aspects of Nursing & Health Care	(3)
NUR 4165	Nursing Inquiry	(3)
NUR 4636	Community/Public Health: Population-focused Nursing	(3)
NUR 4636L	Community/Health Nursing Clinical for the RN	(3)
NUR 4838	Leadership & Management in Prof Nursing Practice	(3)

NURXXXX Nursing Elective (3)  
Total: 31

### • RN to Masters Transitional Program

#### Admissions Requirements:

- Admission to the University of South Florida
- Application to the College of Nursing prior to the published deadline for the intended term of entry
- Current Florida RN licensure and Associates degree or diploma in Nursing (Those individuals with an Associates degree or diploma in nursing may apply contingent on passage of NCLEX exam during 1st semester of study in the College of Nursing)
- Minimum cumulative G.P.A. of 2.5 prior to entrance into undergraduate transition courses and minimum USF Nursing G.P.A. of 3.0 as of the semester transitioning into Master's courses
- Completion of the College Level Academic Skills Test (CLAST) or equivalent

#### Prerequisite Requirements:

Nursing Prerequisite courses - These courses can be completed while in the RN to MS program. However, if a letter grade of less than 'C' is received prior to application to the College of Nursing, the course(s) must be repeated prior to application:

BSC X085C Human Anatomy & Physiology I or any Human Anatomy & Physiology I course, 3-4 semester hours  
BSC X086C Human Anatomy & Physiology II or any Human Anatomy & Physiology II course, 3-4 semester hours  
CHM XXXX Comprehensive General Chemistry (CHM 1032 or higher), 4-6 semester hours  
DEP X004 Human Growth & Development or any Human Growth & Development course, 3 semester hours  
HUN X201 Human Nutrition or any Human Nutrition course, 3 semester hours, **OR**  
NUR 1192  
MCB X010C Microbiology or Any Microbiology course, 4 semester hours  
PSY X012 Introduction to Psychology or any General Psychology course, 3 semester hours  
STA X014 Statistics or any Statistics course, 3 semester hours  
SYG X000 Introduction to Sociology or any Introduction to Sociology course, 3 semester hours

#### Liberal Arts Requirements:

- Completion of the following courses prior to the application deadline for the intended term of entry; a grade of 'C' or better is required:  
ENC 1101 English Composition I 3  
ENC 1102 English Composition II 3  
Quantitative Methods  
College Algebra or Finite Math preferred 3
- Liberal Arts General Education Requirements - may be completed while in the RN to BS program:  
Fine Arts 3  
Historical Perspectives 6  
African, Latin America, Middle Eastern or Asian Perspective (ALAMEA) 3
- Completion of the University Foreign Language requirement for the awarding of the Bachelor of Science degree. (optional)

#### RN to MS Transitional Courses:

A letter grade of 'C' or greater and 3.0 GPA or more is required in all Nursing (NUR) courses to be considered for application to the master portion of this program.

NUR 3805 Educational Transitions for RNs (required first class) (3)

NUR 4636 Community/Public Health: Population-focused Nursing (3)  
NUR 4636L Community/Health Nursing: Clinical (3)  
NUR 4838 Leadership & Management in Prof Nursing Practice (3)

Total: 12

During the semester the student is completing the undergraduate nursing transition courses, the student will meet with an advisor to review all requirements to complete the transition into the Masters program. Based on guidance by the advisor, students will be required to submit an additional application to the College of Nursing and provide three letters of recommendation and copy of resume or curriculum vita. Students may also be required to have an interview with a faculty member within their masters concentration.

Students will choose a masters concentration and will complete additional courses based on that concentration. See the graduate catalog for a list of RN to MS concentrations and associated graduate course requirements.

# COLLEGE OF PUBLIC HEALTH

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

As we enter the new millennium, public health looms large at the forefront of the world's concerns. Population pressures, environmental problems, maternal and child health care, disaster management, new emerging diseases, behavioral challenges, health care management and cost containment demand solutions from the public health professional.

To meet these challenges, the mission of the College of Public Health is to promote public health through research, education and services. The USF College of Public Health is one of only 40 public health colleges in the nation and is fully accredited by the Council on Education for Public Health.

Undergraduate students who are seeking a career in public health can select to major in a broad range of Bachelor degree programs including engineering, business, social sciences, biological sciences, nursing, social work, pre-medicine, other allied health specialties or interdisciplinary degrees in order to be prepared for graduate work in the College. Pre-medical students seeking admission to medical school may want to consider completing a Master's degree in public health prior to application or admission to medical schools or as an alternative to clinical degrees. Undergraduate students may consider the Undergraduate Accelerated Entry Program for Master's degree in Public Health Education that bypasses the Bachelor's for the Master's degree.

A Fast Track for Honor BMS, ISS and INS students is available. Students in this track may select programs within one of the College's five departments: Community and Family Health, or Epidemiology and Biostatistics, or Environmental and Occupational Health, or Health Policy and Management, or Global Health. A college-wide area of study includes Public Health Practice (PHP). PHP requires a minimum of 3 years of health-related work experience.

The course of study and field experiences are designed to prepare health professionals with skills to develop, implement, manage and evaluate programs that focus on health, behavioral, legal, medical and economic factors. Public health is also concerned with finding cost-effective ways to keep health care costs down while assuring quality. Career opportunities are available in a variety of work settings including hospitals and ambulatory care facilities, managed care organizations, voluntary health agencies, public and private school systems, colleges and universities, local, federal and state health agencies, private industry and international health organizations.

The undergraduate program in the College has cultivated into a vibrant program with over 3000 students enrolled in our courses each semester. Based on the enrollment figures and students expressing their interest in declaring a minor in public health, a General Public Health Minor (GPHM) was developed and approved by the USF Undergraduate Council in Fall 2005. Each department in the college fully support this initiative and currently offer, or are in the process of developing, undergraduate courses that will apply to the GPHM.

The purpose of the undergraduate curriculum offered in the College is to engage students in student centered learning so they are able to articulate the role of public health in disease prevention and health promotion locally, statewide, nationally, and globally. In addition, students will study the core concepts in public health, core competencies for all public health workers, core public health competencies related to essential public health practice and public health issues. Moreover, students will be able to analyze public health issues related to a particular concentration area, become knowledgeable about dynamic career paths in public health and develop an understanding of public health that serves as a foundation for the pursuit of graduate public health degrees.

Undergraduate students seeking careers in public health are invited to refer to the College website <http://publichealth.usf.edu>, or contact the College advisor: [advisor@health.usf.edu](mailto:advisor@health.usf.edu) to request the *College of Public Health Career Guide*. Students may review the broad range of public health professions and also plan an undergraduate program that will meet the college's

admission requirements for graduate work. Introduction to Public Health and Survey of Human Disease (or their equivalent) are prerequisites for several concentrations prior to graduate study in public health. College courses are offered through traditional classroom methods, on-line courses and programs, weekend programs, learning institutes, certificates and continuing education courses.

Master's degrees include the Master of Public Health (MPH), which is a professional, non-thesis degree; the Master of Health Administration (MHA); the Master of Science Public Health (MSPH), a research thesis degree; as well as the doctoral (PhD) degree.

## Undergraduate Accelerated Entry Program for Master's Degree in Public Health Education

The Department of Community and Family Health, in the College of Public Health offers an accelerated entry program that enables qualified undergraduate students to enter the Master of Public Health (MPH) degree program with a concentration in Public Health Education. Applicants must have attained a grade point average of at least a 3.0 on a four-point scale, or received a minimum Verbal GRE score of 500 and a minimum Quantitative GRE score of 550. This special MPH program permits students to earn an MPH without first completing the baccalaureate. Applicants must have completed 90 undergraduate semester hours in a program related to the field of public health such as social sciences, natural sciences, behavioral sciences, pre-medicine, pre-dental, nursing, or education. Interested students are encouraged to consult the Department of Community and Family Health advisor upon completing 60 undergraduate semester hours. Contact: Dr. Robert McDermott, (813) 974-6700; email: [rmcdermo@health.usf.edu](mailto:rmcdermo@health.usf.edu); or Michelle Robinson, (813) 974-6505; email: [mrobinso@health.usf.edu](mailto:mrobinso@health.usf.edu).

## General Public Health Minor

The goal of the General Public Health Minor is to develop in a broad range of students an understanding and appreciation of the field of Public Health.

Upon completion of the General Public Health Minor coursework, a student will be able to:

1. Articulate the role of public health in disease prevention and health promotion at the local, state, national and global level.
2. Describe public health concepts and issues.
3. Discuss and analyze current public health issues.
4. Describe career paths in public health.
5. Develop an understanding of public health that can serve as a foundation for the pursuit of graduate public health degrees.

The General Public Health Minor consists of **18 credit hours**. It is recommended that students follow the sequence of courses listed below. These courses will give students a broad overview of public health concepts. Departmental courses can then be selected from a wide range of College of Public Health courses in consultation with the undergraduate academic advisors. Students are encouraged to select departmental courses that provide a cohesive learning experience based on their individual interests and goals, assisted by academic advisors in the student's major and College of Public Health.

## Required Courses (9 credit hours):

HSA 4011 Introduction to Public Health	3
HSC 4554 Survey of Human Disease	3
<b>Choose one of the following:</b>	
HSC 2100 Contemporary Health Science	3
HSC 4531 Medical Terminology	3

**Electives (9 credit hours):**

HSC 2133 Sex, Health and Decision Making	3
HSC 3541 Human Structure and Function	3
HSC 4211 Health, Behavior and Society	3
HSC 4134 Prevention of Mental Illness	3
HSC 4504 Foundations of Public Health Immunology	3
HSC 4542 Stress, Health and College Life	3
HSC 4579 Foundations of Maternal and Child Health	3
HSC 4933 Special Topics in Public Health *	3

\*Please see academic advisor for selection of special topics courses.

For any additional information about the College of Public Health Minor, please feel free to contact:

Michelle Robinson; [mrobinso@health.usf.edu](mailto:mrobinso@health.usf.edu), (813) 974-6665

**Fast Track for Honors BMS, ISS and INS Students**

Undergraduate students in Honors programs will be eligible to apply for admission to selected graduate degree programs in public health during their senior year. This fast track format will allow eligible seniors to complete up to 20 graduate credits in public health which will count toward the Bachelor's degree as well as a Master of Public Health (MPH) or Master of Science in Public Health (MSPH). These graduate degrees vary in credit hours.

**Application for the Honors ISS and INS Students**

Application deadline for these programs is June 1 for guaranteed consideration. Applications will be accepted during the junior year. A minimum score of 450 for the verbal and 550 for quantitative sections of GRE, good standing in Honors program, senior status, and 2 letters of recommendation from undergraduate faculty are required. For further information: <http://publichealth.usf.edu/fasttrack.html>

**Certificate Programs**

Students who have completed their bachelor's degree may register for certificates in Disaster Management, Health Management and Leadership, Infection Control, Social Marketing and Public Health, Diasporas and Health Disparities (with Africana Studies), Safety Management, Violence and Injury: Prevention and Intervention, Epidemiology, Interdisciplinary Women's Health, Maternal and Child Health, Public Health Policy and Programs, Public Health Generalist, Humanitarian Assistance, and Biostatistics.

The GRE is not required for Certificate programs. However, Certificates may have other specific requirements. Refer to the College of Public Health website: for flyers describing certificate programs.

Contact the USF Office of Graduate Certificates, (813) 974-2442 [www.outreach.usf.edu/gradcerts](http://www.outreach.usf.edu/gradcerts) for application forms.

**Public Health Advising**

Potential applicants should prepare at the undergraduate level for careers in public health. Undergraduate public health courses present a broad range of public health issues and are offered on campus and on-line. These undergraduate courses can be selected as part of the student's approved planned program or as electives to prepare students for graduate classes. Except for the undergraduate student selecting the Accelerated Health Education program or the Fast Track for Honors program, all applicants should have completed or be in their last semester of completing the Bachelor's degree prior to applying to this College. All departments, except the Department of Epidemiology and Biostatistics, accept the MCAT score in lieu of the GRE for admission. The GMAT may be submitted for the Department of Health Policy and Management. Advisors in the College assist undergraduate students with career planning and selecting undergraduate coursework. For specific information, request a College of Public Health Catalog

and Career Guide followed by an appointment with the College advisor.

**Advising Office:** The College of Public Health is located facing Bruce B. Downs Boulevard at the Northwest corner of the USF Campus near the Fletcher Avenue intersection. Advising office is in the College of Public Health (CPH) Room 1150.

**Call toll free** 1-888-USF-COPH or locally (813) 974-6505 for the Public Health Career Guide, a copy of the upcoming Schedule of Classes which can also be found on the web at: [publichealth.usf.edu/academicaffairs/](http://publichealth.usf.edu/academicaffairs/)

**Non-Degree Registration:** Students who have completed the Bachelor's degree may register for up to 12 hours as "non-degree" students while in the process of preparing to apply to the College: [publichealth.usf.edu/nondegree.html](http://publichealth.usf.edu/nondegree.html). Contact Michelle Robinson; [mrobinso@health.usf.edu](mailto:mrobinso@health.usf.edu), (813) 974-6665 for more information.

**Address:** 13201 Bruce B. Down Blvd, Tampa, FL 33612-3805; Mailpoint - MDC 56

**Office Hours:** 8am–5pm, Monday through Friday. Walk-ins are welcome but an appointment is recommended.

**Email:** [advisor@health.usf.edu](mailto:advisor@health.usf.edu)

**Web Address:** [publichealth.usf.edu](http://publichealth.usf.edu)

# UNDERGRADUATE STUDIES

UNIVERSITY OF SOUTH FLORIDA - 2007/2008 UNDERGRADUATE CATALOG

## OFFICE OF THE DEAN

**Location/Phone:** SVC 2002; (813) 974-4051

**Office Hours:** 8 a.m. – 5 p.m., Monday through Friday

**Web Address:** <http://www.ugs.usf.edu/ugs.htm>

The Dean of Undergraduate Studies has overall responsibility to enhance the quality of the learning experience in undergraduate programs across all colleges and campuses of the University. Undergraduate Studies is comprised of several units and undergraduate academic programs that are not the purview of a single school or college including the BS in AS Program, the School of Hotel and Restaurant Management, the Information Technology Program, the Career Center, the offices of Air Force ROTC Program, Army ROTC Program, and Naval ROTC Program and acts on recommendations from the Undergraduate Council, the Academic Regulations Committee, and the Council on Academic Advising. The Director of Community College Relations, located in the Dean's Office, develops articulation agreements with community colleges, area school boards, and area high schools. The Success unit is made up of the Transitional Advising Center, First Generation Access Programs, Orientation, and TAPS (including SASS).

The Dean's Office is the University Student Ombudsman for undergraduate academic matters. The function of the Student Ombudsman is to handle student appeals concerning access to courses and credit granted toward the student's degree. Students who wish to make an appeal should contact the Office of the Dean of Undergraduate Studies at SVC 2002, 974-4051 for further information.

The Dean is committed to providing vision and leadership in undergraduate education and to serving the needs of all undergraduate students including those with non-traditional and diverse backgrounds.

## The Career Center

**Location/phone:** SVC 2088, (813) 974-2171, 8-5, Mon-Fri.

**Web address:** <http://www.career.usf.edu>

The Career Center provides USF students with comprehensive career planning and job search services. A staff of experienced Career Center professionals is available to help students choose a career; gain career-related work experience and plan their job search. The Career Center also provides information on employment opportunities and creates venues where students can network and interview with local, state and national employers.

The Career Center's numerous services are clustered into the areas of career planning, career-related work experience, job search preparation, and making contact with employers.

### Career Planning

**Individual Career Counseling Appointments** may be made with a career counselor to help students make an informed decision about a potential career and major.

**Career Assessment Surveys** are available to help students identify their interests, skills and work values.

**Career Decision-making Seminars**, offered online, teach students about the career development process and how to choose a career and academic major.

**Career Reference Library** contains information on career fields, including job descriptions, working conditions, educational requirements, salary information and projected employment outlook.

**Graduate & Professional School Fair** provides an opportunity for students to talk to Admissions representatives from graduate and professional schools.

### Career-related Work Experience

**Part-time Jobs**, both on and off campus, including Federal Work Study (FWS) jobs are posted on the Career Center web site.

**Cooperative Education** ("Co-op") a structured, academic program of paid, practical work experience related to a student's major is administered by the Career Center. Eligibility and program details are located on the Career Center web site.

**Internships** from on and off-campus employers are advertised on the Career Center web site. Internships for academic credit are coordinated through the student's sponsoring academic department.

### Job Search Preparation

**Individual Job Search Coaching Appointments** may be scheduled for assistance with resume/cover letter preparation; interview techniques; and various other job search strategies.

**Walk-in Advising** is available to answer questions about careers, job search or Career Center services. These fifteen-minute sessions are available Monday through Thursday from 10:00 a.m. - 3:00 p.m. during fall and spring semesters.

**Job Search Seminars**, offered online, are available on topics such as resume writing, interview techniques and other job search strategies.

**Job Search Reference Library** contains resources on resume writing, interviewing and job search strategies, employer directories and salary information.

**Job Search Computer Lab**, located in the Career Center reference library, is equipped with computers with Internet access for conducting an on-line job search, scheduling on-campus interviews and researching employers.

### Making Contact with Employers

**On-Campus Interviews for Internships and Full-time Positions** are conducted in the Career Center by local, state and national recruiters from numerous types of organizations. All majors are eligible to participate.

**Resume Referral** is available to students with a resume uploaded in the Career Center's online resume database. Students can electronically refer their resume to apply for both on-campus interviews, and employment opportunities advertised in the Career Center's job listing database.

**Virtual Video Interview (VVI)** allows students to visually market their skills, experiences and qualifications to a potential employer by making a web-based video, accessible to employers with internet access. The VVI, linked to the student's uploaded resume, is the latest technology for screening interviews, and can also be used for interview practice by students.

**Career Networking Fairs**, held each semester, bring students and employers together to network and discuss employment opportunities.

**Job Listings** are posted on the Career Center's web site daily and include part-time jobs, internships, Cooperative Education and full-time professional positions.

**Credential Service** is available through a partnership between the Career Center and Interfolio, Inc., an on-line service available to students applying to graduate or professional schools, or applying for jobs requiring a credential file, dossier or portfolio.

## Transitional Advising Center (TRAC)

**Location/phone:** SVC 2011, (813) 974-2645

**Web address:** <http://www.ugs.usf.edu/trac/trac.htm>

The Center's primary responsibility is to provide academic advising to undergraduate students in transition (undeclared), with a special emphasis on the needs of students entering a university for the first time.

The following services are provided to these undergraduate students: advisement regarding academic policies and programs, assistance in the selection of a major, administration of special programs for at risk or underprepared student populations. The staff prepares students for entrance into Pre-Architecture, Pre-Hospitality Management, Pre-Information

Technology (IT) and the Bachelor of Science in Applied Science (BSAS). The staff also evaluates and certifies all students seeking Associate of Arts certificates.

Students who are undecided about a major will be assigned to TRAC. Appointments can be scheduled online at: <http://www.ugs.usf.edu/trac/appointment.htm>.

The TRAC staff encourages its students to utilize any of the following services:

- Advisement regarding academic policies, programs, and requirements
- Major selection process
- Workshops and specialized advising for students at-risk
- Preparation for limited access majors
- Evaluation of credits for an Associate of Arts Degree

The Transitional Advising Center is dedicated to promoting the successful achievement of transitional students' academic goals through comprehensive advising services.

### Project Thrust

**Location/phone:** SVC 2034, (813) 974-4227

**PROJECT THRUST** is a support program established to provide personal and academic support to undergraduates at the University of South Florida. Its mission is to provide programs and activities that enhance students' opportunities, particularly underrepresented minorities, and help them attain their education and career objectives. Utilizing established partnerships with other programs, departments and colleges, PROJECT THRUST helps the University create an atmosphere of collaboration, mutual respect and trust for its students, faculty and staff. The program's holistic approach to student development helps students to persist and graduate. This program contributes significantly to the university's commitment to create a culturally diverse academic community and an environment of intellectual excellence.

Services provided by PROJECT THRUST include:

- The Academic Success Center which provides a variety of tutoring services to enrolled students. Highly qualified tutors offer assistance in understanding educational course work and developing successful study skills strategies.
- The PROJECT THRUST Corporate Mentor Program which provides underrepresented students majoring in business with help transitioning from student life to a productive beginning of their professional lives. The program pairs business majors with professionals at the mid-to-upper management level. Mentors help students develop the skills necessary for success in the corporate world.
- The Freshman Summer Institute (FSI) which provides access to a university education for students from *educationally or economically disadvantaged backgrounds*. Qualified individuals are identified through a review of admission applications, academic records, and family income as determined by the Free Application for Federal Student Aid (FAFSA). Each year a limited number of students enter USF through this program.
- The USF AHEC-PROJECT THRUST MCAT Enhancement Program (MEP) is a two-year program which prepares first generation and limited income students to obtain competitive scores on the Medical College Admissions Test (MCAT). The program consists of two phases. Phase I begins in the spring semester of students' sophomore year where they are provided classes to prepare for the Verbal Reasoning and Writing sections. Phase II continues in the fall and spring of the junior years where fall classes in general chemistry and general biology were offered, and in the spring organic chemistry and general physics were offered.

### The Freshman Summer Institute

**Location/phone:** SVC 2034, (813) 974-4227

The Freshman Summer Institute (FSI) provides access to a university education for promising students from first generation and/or limited income families. Qualified individuals are

identified through a review of admission applications, academic records and family income as determined by the Free Application for Federal Student Aid (FAFSA). Each year a limited number of students enter USF through this program.

All students admitted to FSI enroll in a six-week summer session. During this time, students become acquainted with University services and resources, ensuring a smooth transition from high school to college life. Throughout the six weeks, students are required to live in the residence halls where they experience an environment supportive of their academic work. Each student receives a class schedule based on standardized test scores, high school transcript, and intended major. Students typically register for nine credits in general education courses and undertake a rigorous academic schedule for the six-week period. FSI students may be required to take preparatory courses to satisfy state requirements. Students attend weekly workshops on a variety of topics relevant to academic success, acclimation to college life, and their growth and development as first-year students. They must end the summer term in good academic standing in order to continue in the fall semester.

The Freshman Summer Institute tackles the challenges of the freshman year with an active concern for students' personal and academic welfare, enhancing their academic enrichment and better orienting them to the university environment. Counselors are a crucial element of the program. They personally advise, counsel and monitor students' progress throughout the first year. Personalized attention, combined with a holistic approach for student growth, distinguishes the Freshman Summer Institute as a unique student resource.

### Student Support Services Program

**Location/phone:** SVC 2042, (813) 974-4301

Student Support Services (SSS) is a federally funded retention program designed to help students make a smooth transition from high school to the University of South Florida. The program provides academic and personal support for students during their first two years of enrollment. A student is eligible to participate in Student Support Services if the student meets all of the following requirements:

- a) Is a citizen or national of the United States or meets the residency requirements for Federal student financial assistance.
- b) Is enrolled at the grantee institution or accepted for enrollment in the next academic term at that institution.
- c) Has a need for academic support (SAT below 1010 or ACT below 21 or high school grade point average below 3.0)
- d) Is
  - 1) A low income individual;
  - 2) A first general college student (the students parents did not earn a four year degree); or
  - 3) An individual with disabilities.

Student Support Services provides a six week summer program to ease the transition from high school to college, enhance self-confidence, establish a strong foundation during the summer semester, and expose students to university resources and facilities. Students receive a comprehensive summer orientation, individualized advising, college survival skills and course credit toward graduation. Students must complete the summer term in good academic standing in order to participate in the program during future terms. Other services provided include ongoing individual counseling, midterm assessment, early registration, informational seminars, financial assistance, tutorial assistance, laptop loan program, computer lab, career programs, and counseling. Research reveals that USF's Student Support Services Program has been recognized nationally for its positive impact on student retention and graduation rates. In fact, 80-90% of program participants are in good academic standing at the end of each semester.

### Tracking the Academic Progress of Students (TAPS)

The "Tracking the Academic Progress of Students" or TAPS initiative encourages students to make a choice of major at the onset of their academic career. Upon admission to the University and formal declaration of their intended major, TAPS will ensure that all first time in college (FTIC) students are making successful progress towards their degree. Students who have declared a major and are being tracked towards their degree will be:

- Presented with a complete semester-by-semester 4-year academic degree plan;
- Advised within their declared college and/or department; and
- Continually informed of their academic progress towards completing their degree.

In addition to the aforementioned benefits of TAPS, enrollment management and course scheduling are significantly improved at the university because of TAPS. This initiative is exceptionally proactive with academic, professional and career advising playing a pivotal role, providing a student an enhanced ability to attain their academic goals. In order for a student to remain "on-track" towards their degree completion, it is assumed he/she will:

- Complete 30 degree applicable credit hours each academic year plus summer; and
- Complete the critical courses each year as indicated by their program of study.

Students who choose not to declare a major will be provided a choice of three 2-semester inquiry-based curriculums. These curriculums are:

- The Liberal Arts
- Entrepreneurial
- Science & Technology

All undeclared students will be required to meet with an academic advisor prior to registration to discuss career/major choices and appropriate options.

### Bachelor of Science in Applied Science (APS)

**Location/Phone:** SVC 2002; (813) 974-4051

**Office Hours:** 8 a.m. – 5 p.m., Monday through Friday

**Web Address:** <http://www.ugs.usf.edu/academic/bsas.htm>

Workforce projections for the 21<sup>st</sup> century indicate that there will be an ongoing need for people with specific skills and abilities to fill Florida's growing number of specialized, scientific, industrial and technological positions. Florida's two-year colleges offer many exceptional programs that meet these demands through their Associate in Science (A.S.) degrees. Although these applied and technical degrees provide excellent preparation for students seeking jobs that require specific knowledge, skill and ability, they have not generally transferred very efficiently into four-year Bachelor's degree programs. The Bachelor of Science in Applied Science (BSAS) has been developed by USF under certain provisions of Florida legislation to remove constraints from the transfer process, recognize past course work as transferable credit to the university, and afford exciting new opportunities for A.S. degree holders to pursue and acquire a distinctive USF Bachelor's degree.

The BSAS program is a "capstone" degree offering A.S. degree holders an efficient pathway to a Bachelor's degree. It provides Florida A.S. transfer students with a broad educational experience and a unique academic area of concentration. The various concentrations allow students to somewhat tailor their degree to match their academic interests and career ambitions. To achieve this end, BSAS students will plan their program in ongoing consultation with an academic advisor who will help students design their individualized program of study.

### Requirements for the Major in Bachelor of Science in Applied Science

#### Recommended Prerequisites (State Mandated Common Prerequisites)

This degree program is available ONLY to Associate in Science (A.S.) graduates from a Florida public community/junior college.

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

Students wishing to transfer to USF must complete the A.S. degree with an overall "C" average in all college-level courses accepted for transfer credit to USF. Students are encouraged to complete at least 18 credit hours of the General Education Requirements as part of their A.S. degree, and it is highly recommended that students select Gordon Rule communication and computation courses to fulfill these requirements while at the community college.

The A.S. degree will transfer as a complete "60 credit hour package" to USF (applicable only to the BSAS program). Technical coursework will transfer as a 42 credit hour technical block. The remaining 18 credit hours of General Education coursework from the A.S. will be matched against USF requirements to determine which courses remain outstanding for fulfillment of the university's 36 credit hour General Education Requirement.

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

Community College Block Credit (Transferred from A.S.)	42
Community College General Education (Transferred from A.S.)	18
USF General Education	18
USF Exit Courses	9
USF Area of Concentration*	18
USF Electives**	15
<b>Total BSAS Credit Hours</b>	<b>120</b>

\*Note that all BSAS Areas of Concentration are at least 18 credit hours (some require 21 credit hours).

\*\* Elective credit hours may vary slightly, but will not require students to exceed a total of 120 credit hours for completion of the BSAS degree.

Within the 60 credit hours of USF/upper-level coursework beyond the A.S., BSAS students will complete:

- a minimum of 48 credit hours of upper-level (3000-4999) courses
- at least 30 hours of the last 60 credit hours at USF
- CLAST requirements
- foreign language requirement (can be satisfied by two years of high school foreign language credit or 8 college credit hours in a single foreign language)

### Requirements for Areas of Concentration

#### BSAS - American Sign Language (ASG) Concentration consists of 19 credit hours:

SPA 3612	Basic American Sign Language	(4)
SPA 4613	Intermediate American Sign Language	(4)
SPA 4614	Advanced American Sign Language	(4)
PLUS ONE OF THE FOLLOWING:		
SPA 4930	American Sign Language IV	(4)
SPA 4617	Structure of Sign Language	(4)
PLUS ONE OF THE FOLLOWING:		
SPA 3633	American Deaf Culture	(3)
SPA 4632	Nature and Needs of Deaf and Hard of Hearing	(3)

**BSAS - Behavioral Healthcare Concentration (ABH) consists of 18 credit hours:**

MHS 3411	Multidisciplinary Behavioral Healthcare Services	(3)
MHS 4002	Behavioral Health Systems Delivery	(3)
MHS 4408	Exemplary Practices in Behavioral Healthcare Treatment	(3)
MHS 4425	Field Experience in Behavioral Healthcare	(3)

AND, TWO OF THE FOLLOWING:

MHS 4931	Selected Topics in Behavioral Healthcare	(3)
MHS 4906	Directed Study/Readings	(3)

**BSAS - Criminal Justice Concentration (ACJ) consists of 18 credit hours:**

Only available at Lakeland or Sarasota campus

CCJ 3610	Theories of Criminal Behavior	(3)
CCJ 4934	Seminar in Criminology (XMW)	(3)

PLUS FOUR OF THE FOLLOWING:

CJL 3110	Substantive Criminal Law	(3)
CJE 4114	American Law Enforcement Systems	(3)
CCJ 4450	Criminal Justice Administration	(3)
CJC 4010	American Correctional Systems	(3)
CJE 4010	The Juvenile Justice System	(3)
CCJ 3621	Patterns of Criminal Behavior	(3)
CJC 4166	Alternatives to Incarceration	(3)
CJL 4410	Criminal Rights & Procedures	(3)
CJT 4100	Criminal Investigations	(3)
CCJ 4933	Selected Topics in Criminology	(3)
CCJ 4604	Abnormal Behavior & Criminality	(3)
CCJ 3701	Research Methods in Criminal Justice I	(3)

**BSAS - General Business Concentration (ABU) consists of 18 credit hours:**

ACG 3074	Managerial Accounting for Non-Business Majors	(3)
ECO 1000	Basic Economics	(3)
FIN 3403	Principles of Finance	(3)
MAN 3025	Principles of Management	(3)
MAN 4802	Entrepreneurship & Small Business Management	(3)
<b>OR</b>		
GEB 4890	Strategic Management & Decision Making	(3)
MAR 3023	Basic Marketing	(3)

**BSAS - Early Child Development Concentration (AEC) consists of 18 credit hours:**

Only available at Lakeland or Sarasota campus

EDF 4111	Child Growth & Learning	(3)
EDG 4909	Young Children w/ Special Needs	(3)
HSC 3301	Health, Safety, Nutrition & Motor Skills	(3)
EEC 4303	Creative & Affective Experiences	(3)
EEC 4408	Child, Family & Teacher Relations	(3)
PAD 4419	Personnel & Supervision	(3)

**BSAS - Environmental Policy Concentration (AEP) consists of 19-20 credits:**

EVR 2001	Introduction to Environmental Science	(3)
EVR 2001L	Intro. to Environmental Science Lab	(3)
EVR 2861	Introduction to Environmental Policy	(3)

PLUS THREE OF THE FOLLOWING:

PUP 4203	Environmental Politics and Policy	(3)
PHI 3640	Environmental Ethics	(3)
ECP 3302	Environmental Economics (PR: ECO 2023 Microeconomics)	(3)
POS 3697	Environmental Law	(3)

PLUS ONE OF THE FOLLOWING:

ANT 4147	Environmental Archaeology	(3)
BSC 4057	Environmental Issues	(3)

ECP 3613	Economics of the Urban Environment	(3)
EDF 3228	Human Behavior & Environmental Selection	(3)
EVR 4930	Selected Topics in Environmental Policy	(1-4)
GEO 4340	Natural Hazards	(4)
HIS 4936	Seminar in Environmental History	(4)
IDS 3186	Science and Ethics of Disease	(3)
WST 3225	Women, Environment and Gender	(3)

**BSAS - Gerontology Concentration (AGR) consists of 21 credit hours:**

GEY 2000	Introduction to Gerontology	(3)
<b>or</b>		
GEY 3263	Aging in the 21 <sup>st</sup> Century	(3)
GEY 3601	Physical Changes and Aging	(3)
GEY 3625	Sociocultural Aspects of Aging	(3)
GEY 4612	Psychology of Aging	(3)

PLUS THREE OF THE FOLLOWING:

GEY 3323	Community Services of Older Adults	(3)
GEY 4322	Cast Management	(3)
GEY 4327	Long-Term Care Administration I	(3)
GEY 4340	Housing for the Elderly	(3)
GEY 4360	Gerontological Counseling	(3)
GEY 4608	Alzheimer's Disease Management	(3)
GEY 4635	Business Management in an Aging Society	(3)
GEY 4641	Death and Dying	(3)
GEY 4647	Ethical and Legal Issues in Aging	(3)

**BSAS - Hospitality Management Concentration (AHG) consists of 18 credit hours:**

Only available through Sarasota campus

PREREQUISITES - 12 HOURS:

ACG 2021	Financial Accounting	(3)
ACG 2071	Managerial Accounting	(3)
MAN 3025	Principles of Management	(3)
MAR 3023	Basic Marketing	(3)

REQUIRED COURSES:

FSS 3231	Introduction to Food Production & Management	(3)
HFT 3005	Introduction to Hospitality & Tourism	(3)
HFT 3423	Hospitality Information Systems	(3)
HFT 3503	Hotel Marketing and Sales	(3)
HFT 4221	Human Resources Management	(3)
HFT 4253	Lodging Management	(3)

**BSAS - Industrial Operations Concentration (AIO) consists of 18 credit hours:**

Only available through Lakeland campus

PREREQUISITES - 9 HOURS:

MAC 1105	College Algebra	(3)
STA 2023	Introductory Statistics	(3)
COP 2510	Programming Concepts	(3)

REQUIRED COURSES:

ETG 3612	Operations Management	(3)
ETG 4931	Special Topics in Technology I*	(1-5)
ACG 3074	Accounting for Non-Business Majors	(3)
<b>OR</b>		
EIN 4352	Engineering Cost Analysis	(3)
EIN 3241	Work Design and Ergonomics I	(3)
EIN 4242	Work Design and Ergonomics II	(3)
ETI 4116	Industrial Quality Control	(3)

\*Please see academic advisor for required special topics course.

**BSAS - Information Technology (ATC) consists of 18 credit hours:**

Only available through Lakeland or Sarasota campus

PAD 3003	Introduction to Public Administration	(3)
COP 2510	Programming Concepts	(3)
CGS 3303	IT Concepts	(3)

CEN 3722	Human Computer Interface	(3)
CTS 3823	IT Web Design	(3)
CTS 3845	Electronic Commerce	(3)
CIS 4412	IT Resource Management	(3)

**BSAS - Public Administration Concentration (APU) consists of 18 credit hours:**

PAD 3003	Introduction to Public Administration	(3)
PAD 4204	Public Financial Administration	(3)
PAD 4419	Personnel and Supervision in Today's Organizations	(3)
PAD 4712	Managing Information Resources in the Public Sector	(3)
POS 3182	Florida Politics and Government	(3)
Plus any one of the following:		
PUP 4002	Public Policy	(3)
PAD 5035	Issues in Public Administration and Public Policy	(3)
PAD 5044	Environment of Public Administration	(3)
PAD 5159	Urban Policy Analysis	(3)
PAD 5333	Concepts and Issues in Public Planning	(3)
PAD 5605	Administrative Law and Regulation	(3)
PAD 5700	Research Methods in Public Administration	(3)
PAD 5807	Urban and Local Government Administration	(3)
PAD 5836	Comparative Public Administration	(3)

**BSAS - Public Health Concentration (APL) consists of 18 credit hours:**

HSA 4120	Introduction to Public Health	(3)
HSC 4554	Survey of Human Disease	(3)
HSC 4933	Special Topics in Public Health*	(3)

\*Please see academic advisor for required special topics courses.

**Electives (9 credit hours):**

HSC 3541	Human Structure and Function	(3)
HSC 4504	Foundations of Public Health Immunology	(3)
HSC 4542	Stress, Health and College Life	(3)
HSC 4579	Foundations of Maternal & Child Health	(3)
HSC 4933	Special Topics in Public Health**	(3)
MHS 4002	Behavioral Health System Delivery	(3)

\*\*AREAS FROM SELECTED SPECIAL TOPICS COURSES SHOULD BE SELEDCTED IN CONSULTATION WITH YOUR ACADEMIC ADVISOR.

Selected special topics courses can include the following subjects:

- Behavioral Health System Delivery
- Foundations of Global Health
- Introduction to Environmental Health
- Introduction to Food Safety
- Men's Health and Gender in Society
- Secret History of Death and Disease
- Understanding U.S. Health Care
- Women's Health: A Public Health Perspective

**BSAS - Urban Studies Concentration (AUR) consists of 18-21 credit hours:**

URS 3002	Introduction to Urban Studies	(3)
Plus any of five of the following:		
ARC 4784	The City	(3)
AMS 3700	Racism in American Society	(3)
AMH 3423	Modern History	(4)
IDS 4942	Community Internship	(1-4)
ECP 3613	Economics of Urban Environment	(3)
ISS 3930	ST: Community Studies	(1-4)
SYA 4930	ST: Urban Life	(3)
GEO 3602	Urban Geography	(4)
GEO 4604	Advanced Urban Geography	(4)

PAD 3003	Introduction to Public Administration	(3)
POS 3142	Introduction to Urban Politics and Government	(3)
SOW 3203	American Social Welfare System	(3)
SPC 3710	Communication and Cultural Diversity	(3)
SYD 3700	Racial and Ethnic Relations	(3)
URP 4050	City Planning and Community Development	(3)
URP 4052	Urban and Regional Planning	(4)

Contact the BSAS Program for additional BSAS Concentrations that may have developed since the publication of this catalog.

**Bachelor of Science in Hospitality Management**

**Program Email:** [hospitality@sar.usf.edu](mailto:hospitality@sar.usf.edu)

**Location:** USF Sarasota-Manatee, SMC-B221

**Academic Advising:** Office of Student Services, SMC-C107, (941) 359-4330

**Web address:** <http://www.sarasota.usf.edu/hospitality>

The mission of the School of Hotel and Restaurant Management at the University of South Florida is to provide excellence in teaching, research and service to all persons and to build foundations for lifelong learning. The School of Hotel and Restaurant Management prepares individuals for industry management and leadership roles in a global economy and interfaces with stakeholders to deliver hospitality professionals that add to the financial, intellectual, environmental, ethical and social growth of Florida and the Nation.

The Bachelor of Science Degree in Hospitality Management prepares outstanding individuals to be service-oriented professionals. The School of Hotel and Restaurant Management educates students to succeed at entry-level management and supervisory level positions in the hospitality industry. A general business foundation with specialized hotel and restaurant management courses equips the students to approach problem solving in a disciplined and systematic manner. An advisory board composed of leaders from major hospitality-related corporations and organizations that are directly involved in the review of the curriculum, school development/programming and prepares students for future career challenges.

Students should have 60 transferable hours from a regionally accredited institution and an overall GPA of 2.0 prior to admission to the University of South Florida Sarasota-Manatee.

**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. (*no grade lower than a C-*):

- ACG X021 Principles of Financial Accounting or ACG X001 and ACG X011
- ACG X071 Principles of Managerial Accounting
- ECO X013 Macroeconomics
- ECO X023 Microeconomics

**Admission to the School of Hotel and Restaurant Management**

Admission to the School of Hotel and Restaurant Management is open to all students who have been accepted to the University of South Florida and declare the major of Hospitality Management. Students should contact the Office of Student Services, SMC-C107 (941) 359-4330 for assistance. Students who have credits from other institutions may need to provide copies of course descriptions from the catalog for purposes of determining credit towards the Hospitality Management major requirements at USF.

**General Requirements for a B.S. Degree in Hospitality Management**

1. The Hospitality Management major requires at least 120 credit hours.
2. General Education Requirements can be satisfied by completing the university's general education requirements or completing the AA degree from a Florida public community college.
3. All transfer work will be reviewed by the advising office and the Director of the School of Hotel and Restaurant Management.
4. Students must satisfactorily meet the College Level Academic Skills Test (CLAST) along with the writing and computation course requirements of 6A-10.30 (Gordon Rule).
5. Students must complete the Foreign Language Entrance Requirement as mandated by the university catalog.
6. Nine hours of exit courses must be taken at USF as defined in the university catalog.
7. Students must earn at least a 2.0 overall GPA, USF GPA, and in the major to be certified for graduation.
8. The university provides advising tools and services to assist the student, however, it is the responsibility of the student to meet all graduation requirements and deadlines of the university.
9. Students must comply with all university academic policies and procedures in order to meet all requirements set forth by the University of South Florida.

**Major requirements for the B. S. Degree In Hospitality Management are as follows:**

Business Courses (12 Credits) with no grade lower than C-:

- FIN 3403 Principles of Finance
- ISM 3011 Information Systems in Organizations
- MAN 3025 Principles of Management
- MAR 3023 Basic Marketing

Hospitality Courses (36 Credits) with no grade lower than C- and 2.0 GPA:

- FSS 3231 Introductory Food Preparation Management\*
- HFT 3003 Introduction to Hospitality and Tourism
- HFT 3263 Restaurant and Catering Management\*
- HFT 3423 Hospitality Information Systems
- HFT 3424 Cost Control in Hospitality Operations
- HFT 3503 Hotel Marketing and Sales
- HFT 3603 Law and Security for the Hospitality Industry
- HFT 4323 Facilities Mgmt for the Hospitality Industry
- HFT 4221 Human Resource Management
- HFT 4253 Lodging Management
- HFT 4471 Mgmt Accounting & Finance for the Hospitality Industry
- HFT 4945 Advanced Internship (300 hours)  
(In final academic semester with departmental approval)

Communications Courses (6 Credits)

- COM 3110 Communication for Business and the Professions

or

- SPC 2600 Public Speaking

and

- ENC 3310 Expository Writing

or

- ENC 3250 Professional Writing

**Non-Credit Major Requirement**

In addition to completion of HFT 4945, students must complete an additional 700 documented working hours in the hospitality industry before graduation.

\*FSS 3231 and HFT 3263 require a lab fee.

**Other Hospitality Programs Available****Certificate Programs**

The Certificate Programs are designed for industry professionals currently working in hotels and restaurants to enhance their professional knowledge. The student must be currently employed in the hospitality field and satisfactorily complete the five required courses (15 credit hours in residence at USF) in hotel management or restaurant management. The certificate will be issued when a student has earned at least a 2.0 GPA and receive no less than a grade of C- in any of the five classes in their concentrated certificate program. Contact the department for further information.

**Minor Programs****Minor in Restaurant Management & Minor in Hotel Management**

Both programs are 18-credit hours. The minor program is a valuable addition to any major. Both minor programs provide the general information that will allow students to pursue hospitality related careers that they might otherwise not be qualified or credentialed to pursue. Majors of other disciplines will find this minor interesting and rewarding. Either minor program may open the door to a myriad of management positions in the hospitality industry. Contact the advising office for further information at (941) 359-4330.

**Minor in Hotel Management****Required Courses:**

- HFT 3003 Introduction to Hospitality and Tourism
- HFT 3503 Hospitality Marketing and Sales\*
- HFT 3603 Law and Security for the Hospitality Industry\*
- HFT 4221 Human Resources Management
- HFT 4253 Lodging Management
- HFT 4471 Management Accounting and Finance  
Hospitality Industry
- HFT 4936 Hotel Management Seminar  
(only taught on the USF Tampa Campus)

\*Students are required to choose one of the two listed classes. Students must achieve a grade point average of 2.0 or higher in the minor course work for certification of the minor for graduation. At least 9 credit hours must be taken in residence at USF.

**Minor in Restaurant Management****Required Courses:**

- HFT 3003 Introduction to Hospitality and Tourism
- HFT 3263 Restaurant and Catering Management
- HFT 3424 Cost Control in Hospitality Operations
- HFT 3503 Hospitality Marketing and Sales\*
- HFT 3603 Law and Security for the Hospitality Industry\*
- HFT 4221 Human Resources Management
- HFT 4853 Restaurant Trends and Challenges  
(only taught on the USF Tampa Campus)

\*Students are required to choose one of the two listed classes. Students must achieve a grade point average of 2.0 or higher in the minor course work for certification of the minor for graduation. At least 9 credit hours must be taken in residence at USF.

NOTE: Both minor programs are taught on the USF Tampa Campus. See our webpage for course descriptions, [www.sarasota.usf.edu/hospitality](http://www.sarasota.usf.edu/hospitality).

### Bachelor of Science in Applied Science with concentration in Hospitality

Students who have earned an A.S. degree from a Florida public community college should refer to the "Undergraduate Studies, Bachelor of Science in Applied Science" section of this catalog.

### Exchange Programs

Students who are interested in an International educational experience should contact the School of Hotel and Restaurant Management for updated information.

### School of Hotel and Restaurant Management Faculty

*Director:* Jay R. Schrock; *Professor & McKibbin Chair:* John R. Walker; *Assistant Professor:* Katerina D. Annaraud, Gregory E. Dunn; *Associate Professor:* "David" Yao-Jen Chang; *Academic Services Administrator:* Amanda M. Kulaw; *Academic Program Specialist:* Lindsey R. Matro

Program Email: [hospitality@sar.usf.edu](mailto:hospitality@sar.usf.edu) Location: Sarasota/Manatee Campus, SMC-B221.

### Bachelor of Science in Information Technology

The Mission of the Information Technology Program is to provide high quality educational opportunities for students interested in pursuing careers in the broad range of fields that support our computer/information-based society and economy. Additionally to utilize the resources of the program to provide service to society; and to emphasize to students the need for lifelong learning, ethical conduct and an understanding of the diverse social context in which Information Technology is practiced. The program is offered through the Lakeland Campus.

Specifically the program aspires to:

1. Lead to the advancement of Information Technology through nationally recognized education at the undergraduate level, as well as technology transfer to regional industries and businesses;
2. Prepare students for full and ethical participation in a diverse society and encourage lifelong learning;
3. Educate undergraduates in the best practices of the field as well as integrate the latest research and practices into the curriculum;
4. Emphasize the development of problem solving and communication skills as an integral component of the educational process and the later practice of the discipline;
5. Provide quality learning experiences through highly interactive techniques of course delivery that will include the use of electronic support equipment as well as newly developing distance learning technologies.

### Objectives

The Information Technology program graduates will:

1. Have the requisite education and skills to be immediately employable as professionals in our computer/information-based society
2. Be prepared to enter into graduate studies in a number of related graduate programs
3. Be ethical and responsible members of their profession and society as a whole
4. Be well founded in the variety of sub-disciplines that comprise Information Technology which include basic principles of computation, mathematics, science and engineering.

The Information Technology (IT) program is designed to bridge the gap between computer science and management information systems. The emphasis of the program is on

knowledge-based computer and information technology, traditional computer science concepts, as well as more practical topics including programming, applications, and networking, systems administration and the management of a variety of computing environments (in an era of rapidly changing technology). IT students will take coursework in computer organization, human-computer interface, data structures, operating systems, networking, databases, and software engineering. Electives can include such application areas as: advanced database, advanced networking, web page design and administration, and e-commerce as well as a variety of other related areas. Through a broad based set of electives, IT students will be able to tailor their program to satisfy individual preferences and strengths.

Students completing the IT program will qualify for a broad range of positions in computer-intensive businesses and industry such as: programmer analyst, systems analyst, database administrator, network administrator, computer resource manager, systems development manager, and information technology management, to name a few.

In addition to the University's graduation requirements, the program has the following policies:

1. Mandatory academic advising of each student each term,
2. Exit interviews as a graduation requirement for all students, and
3. Only grades of C and above in IT courses can be used to fulfill graduation requirements.

### Four-Year Curriculum in Information Technology Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Community College:

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

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.

Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university.

PSY	XXXX	Any Psychology Course
STA	X023	Statistics
ECO	X013	Economics (Macroeconomics)
CGS	XXXX	Any Database Course
COP	2XXX	Any Computer Programming Course
COP	2XXX	Any Object-Oriented Computer Programming Course
MAC	XXXX	Pre-Calculus Course
PHY	XXXX	Any Physics Course
M**	XXXX	Discrete Mathematics Course

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

The schedule that follows indicates how a diligent student, who can devote full time to coursework, can satisfy requirements in four academic years. Students without a solid foundation, or those who cannot devote full time to academics, should plan for a slower pace.

### Semester I

CGS 2100	Computers in Bus.	3
ENC 1101	Composition I	3
MAC 1140	Precalculus Algebra	3
Gen. Ed.		6
Total		15

### Semester II

COP 2510	Programming Concepts	3
ENC 1102	Composition II	3

MAD 3100	Discrete Math	3
ECO 2013	Economic Principles (Macro.)	3
PSY 2012	Psychological Science I	3
Total		15

#### Semester II

Natural Science		3
COP XXXX	OO Programming (e.g., C++)	3
Electives		9
Total		15

#### Semester IV

STA 2023	Introductory Statistics I	3
PHY 2020	Conceptual Physics	3
Fine Arts		3
Electives		6
Total		15

#### Semester V

COP 3515	Program Design for Information Technology	3
ENC 3246	Communication for Engineers	3
INR 3033	International Political Cultures	3
CGS 3303	IT Concepts	3
CEN 3722	Human Computer Interfaces for IT	3
Total		15

#### Semester VI

CDA 3101	Computer Organization for Information Technology	3
EEL 4782	Computer Information Networks for IT	3
EEL 4782L	Information Networks Lab for IT	1
EEL 4854	Data Structures and Algorithms for IT	3
ENC 4260	Advanced Technical Writing	3
IT Approved Electives		3
Total		16

#### Semester VII

CIS 4703	Database Systems for IT	3
CEN 4031	Software Engineering Concepts for IT	3
COP 4610	Operating Systems for IT	3
COP 4610L	Operating Systems Lab for IT	1
IT Approved Electives		6
Total		16

#### Semester VIII

COP 4930	Information Technology Seminar	1
CIS 4935	Senior Project in IT	3
CIS 4253	Ethical Issues for Information Technology	3
IT Approved Electives		6
Total		13

### INFORMATION TECHNOLOGY (IT) MINOR PROGRAMS

There are two IT Minor options available.

The **IT General Minor** (15 semester hours) is aimed at providing a good understanding of the concepts underlying Information Technology while enabling the student to choose four elective topics in which to specialize. These elective encompass a wide spectrum of topics such as programming, networking and web design, Human Computer Interface and Security Management. The outcome of this program is to build a solid culture of IT technologies and disciplines from scratch.

The **IT Technical Minor** (24 semester hours) enforces basic scientific pre-requisites and requires interested students to attend three core IT courses meant to provide them with the conceptual and technical basis necessary to successfully dwell in more advanced topics. The elective part of the IT Technical Minor is composed of two electives to be chosen from a larger set of courses including Data Base Systems and

Operating System. Successful students are expected to develop a conceptual understanding of the IT field while developing programming skills they may apply to strengthen their major.

#### IT GENERAL MINOR

##### Required Course:

CGS 3303	IT Concepts	3
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##### Electives (choose four from list):

CDA 3101	Computer Organization for IT	3
CEN 3722	Human Computer Interfaces for IT	3
CIS 4361	IT Security Management	3
CIS 4412	IT Resource Management	3
COP 3515	Program Design for IT	3
EEL 4782	Computer Information Networks for IT	3
EEL 4782L	Information Networks for IT	1
EEL 4854	Data Structures and Algorithms for IT	3
ETG 4931	Special Topics in Technology I	1-5
ETG 4932	Special Topics in Technology II	1-5

#### IT TECHNICAL MINOR

##### Prerequisite Courses:

COP 2510	Programming Concepts	3
COT 3100	Introduction to Discrete Structures	3
PHY XXXX	Physics	3

##### Required Courses:

CGS 3303	IT Concepts	3
COP 3515	Program Design for IT	3
EEL 4854	Data Structures and Algorithms for IT	3

##### Electives (choose four from list):

CDA 3101	Computer Organization for IT	3
CEN 3722	Human Computer Interfaces for IT	3
CEN 4031	Software Engineering Concepts for IT	3
CIS 4361	IT Security Management	3
CIS 4412	IT Resource Management	3
COP 4610	Operating Systems for IT	3
COP 4610L	Operating Systems Lab for IT	1
COP 4703	Database Systems for IT	3
EEL 4782	Computer Information Networks for IT	3
EEL 4782L	Information Networks for IT	1
ETG 4931	Special Topics in Technology I	1-5
ETG 4932	Special Topics in Technology II	1-5

### POST-BACCALAUREATE CERTIFICATE PROGRAMS IN INFORMATION TECHNOLOGY (IT)

There are two Post-Baccalaureate Information Technology (IT) Certificates available. Both Certificates are designed for students who hold bachelor's degrees in fields other than IT, but do not seek either a master's degree or a complete undergraduate degree in IT.

The **IT Management Certificate** (15 semester hours) is designed to provide the student an application-oriented managerial background in IT. The typical student pursuing this certificate is not looking to change careers, but rather looking to enhance their technical abilities in their existing job. A four year Bachelor's degree plus some prerequisites are required to enter the IT Management Certificate Program.

The **IT Professional Certificate** (30 semester hours) is designed to help students change careers, i.e. begin a new career as an IT Professional. All classes (15 hours) taken in the IT Management Certificate directly apply toward the IT Professional Certificate. Therefore, each student having completed the IT Management Certificate, will only need 15 additional hours to complete the IT Professional Certificate. However, certain additional prerequisites may be required of the student prior to taking the advanced technically oriented classes contained in the IT Professional Certificate.

Students wanting to enter one of the IT Certificate programs need to fill out an application to apply and have an official transcript sent from the College or University where they

## 188 UNDERGRADUATE STUDIES

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

completed their undergraduate degree. The transcript is used to first verify that the student completed their undergraduate degree and second to identify if any additional prerequisite classes will be required.

### IT MANAGEMENT CERTIFICATE

The prerequisites to enter the IT Management Certificate program is a four year undergraduate degree plus the following:

1. MACxxxx Pre-Calculus 3 hrs.
2. STA2023 Intro. To Statistics 3 hrs.
3. Any Basic Computer Skills Course 3 hrs.  
(Word Processing, Spreadsheets, Windows, etc.)

NOTE: The course numbers may be different depending on the university. IT advisors will make the determination whether or not the student has satisfied these requirements based on supportive material (such as catalog descriptions, official letters, etc.) supplied by the student.

After admission to the IT Management Certificate program, the student must complete 15 hours selected from the following:

CEN 3722	Human Computer Interfaces for IT	3
CGS 3823	IT Web Design	3
CGS 3845	Electronic Commerce	3
CIS 4361	IT Security Management	3
CIS 4412	IT Resource Management	3
CIS 4935	Senior Project in Information Technology	3
COP 4930	Information Technology Seminar	1-3
ENC 4260	Advanced Technical Writing	3
ETG 4931	Special Topics in Technology I	1-5
ETG 4932	Special Topics in Technology II	1-5
	IT Current Topics	3
	IT Approved Elective	3

### IT PROFESSIONAL CERTIFICATE

The prerequisites to enter the IT Professional Certificate program is a four year undergraduate degree plus the following:

1. STA 2023 Intro. To Statistics 3 hrs.
2. CGS xxxx Any Data Base 3 hrs.
3. COP2xxx Computer Programming 3 hrs.
4. COP2xxx OO Programming 3 hrs.
5. MAC xxxx Pre-Calculus 3 hrs.
6. xxxx Discrete Mathematics 3 hrs.

NOTE: The course numbers may be different depending on the university. IT advisors will make the determination whether or not the student has satisfied these requirements based on supportive material (such as catalog descriptions, official letters, etc.) supplied by the student.

After admission to the IT Professional Certificate program, the student must complete the following 30 hour program: Required courses for the IT Professional Certificate (13 credit hours):

CDA 3101	Computer Organization for IT	3
COP 3515	IT Program Design	3
COP 4610	Operating Systems for IT	3
COP 4610L	Operating Systems Laboratory for IT	1
EEL 4854	Data Structures and Algorithms for IT	3

Electives (17 credit hours):

CEN 3722	Human Computer Interfaces for IT	3
CEN 4031	Software Engineering Concepts for IT	3
CGS 3823	IT Web Design	3
CGS 3845	Electronic Commerce	3
CIS 4361	IT Security Management	3
CIS 4412	IT Resource Management	3
CIS 4703	Database Systems for IT	3
CIS 4935	Senior Project in IT	3-5
COP 4930	IT Seminar	1-3

EEL 4782	Computer Information Networks for IT	3
EEL 4782L	Information Networks Laboratory for IT	1
ENC 4260	Advanced Technical Writing	3
ETG 4931	Special Topics in Technology I	1-5
	IT Current Topics	3
	IT Approved Elective	3
Total		30

### Information Technology Faculty

*Chair (Interim):* W. D. Armitage; *Faculty:* P. Bao, A. Ejnoui, F. Fleschute, A. Gaspar, B. Harding, R. Hawat, S. Lodwig, R. Walsh, J. Wiginton.

### Aerospace Studies Air Force ROTC

**Location/Phone:** CWY 407; (813) 974-3367

**Office Hours:** 8 a.m. – 5 p.m., Monday through Friday

**Web Address:** <http://cyber.acomp.usf.edu/~airforce/>

The Air Force Reserve Officers Training Corps (AFROTC) curriculum includes 12-16 course hours of instruction by active duty Air Force officers over a two- to four-year period. A student who completes the AFROTC program will receive an Air Force commission as a second lieutenant and is guaranteed a position in the active duty Air Force at a starting pay of approximately \$45,000 per year.

AFROTC is offered as a two-, three-, or four-year program. The three- and four-year programs normally require a student to successfully complete all degree requirements for award of a bachelor's degree, 14 or 16 course hours of AFROTC classes respectively, and a four-week field training encampment between his/her sophomore or junior years. The two-year program gives students who do not enroll in AFROTC during their freshman and sophomore years the opportunity of taking AFROTC. Students should apply for the two-year program by December of the sophomore year. The student attends a six-week field training encampment in the summer after program entry. Upon entering the program, the students then complete all undergraduate degree requirements, and 12 credit hours of AFROTC courses.

ROTC students take a 1.8 hour non-credit leadership laboratory in addition to the academic classes. Students wear the Air Force uniform during these periods and are taught customs and courtesies of the Air Force. Leadership Laboratory is open to students who are members of the Reserve Officer Training Corps or are eligible to pursue a commission as determined by the Professor of Aerospace Studies.

AFROTC 4, 3 and 2-year scholarships are available for eligible applicants. Depending on student qualifications, these scholarships may pay all tuition, fees, books, and a \$300 - \$500 per month tax-free stipend. Those interested in more information about scholarship criteria should contact the AFROTC Department.

Students interested in enrolling in the programs can begin registration procedures through the ROTC office in CWY 407 or by registering for the appropriate "AFR" course through university registration. Veterans, active duty personnel, and graduate students are encouraged to inquire about special accelerated programs designed for them. The AFROTC phone number is (813) 974-3367.

### Minor in Aerospace Studies

In order for the student to minor in Aerospace Studies a minimum GPA of 2.0 is required in all courses used to satisfy the minor. A minimum of 12 semester hours of the 16 semester hours required must be earned at USF. Grades less than "C" (GPA of 2.0) or "S" grades will not be accepted. Students will not be able to use credit through exam or independent study for application to the minor. This program will provide the student an understanding of management and leadership concepts as they relate to military officers. In addition, students will analyze the evolution of American defense policy and strategy.

Special emphasis is placed on developing the student's communication skills.

Specific Course Requirements for the Minor:

- |   |    |
|---|----|
| a. Total credit hours required:   | 16 |
| b. Required courses:  |    |
| AFR 3220 Air Force Leadership and Management I  | 3  |
| AFR 3231 Air Force Leadership and Management II   | 3  |
| AFR 4201 National Security Affairs and Preparation for Activity Duty I                                  | 3  |
| AFR 4211 National Security Affairs and Preparation for Active Duty II                                   | 3  |
| c. Other specifications: combination of 4 credit hours from any of the military elective courses below: |    |
| AFR 1101 Foundation of the United States Air Force Part I   | 1  |
| AFR 1120 Foundation of the United States Air Force Part II  | 1  |
| AFR 2130 The Evolution of USAF Aerospace Power Part 1   | 1  |
| AFR 2140 The Evolution of USAF Aerospace Power Part 2   | 1  |
| AFR 2940 Basic Aerospace Internship   |    |
| Optional Courses:   |    |
| MSL 1001C Leadership in the Army Profession   | 2  |
| MSL 1002C Leadership Models and Methods   | 2  |
| MSL 2101C Individual Leadership Studies   | 2  |
| MSL 2102C Leadership in Changing Environments   | 2  |
| MSL 3201C Leading Teams   | 3  |
| MSL 3202C Leading Small Units   | 3  |
| MSL 4302C Preparing for Army Leadership   | 3  |

### Aerospace Studies Faculty

*Professor:* Bradford E. Ward; *Assistant Professors:* Gary Carruthers, Bruce Fike, Christine Newsome, Walter Rice.

## Military Science Army Reserve Officer's Training Corps (ROTC)

**Location/Phone:** CWY 405/(813) 974-4065

**Office Hours:** 8 a.m. - 5 p.m., Monday through Friday

**Web Address:** <http://armyrotc.com/edu/univsouthfl>

**Email Address:** [arotcgbr@arotc.usf.edu](mailto:arotcgbr@arotc.usf.edu)

The Department of Military Science for Army Reserve Officers Training Corps (ROTC) was established to select and prepare students to serve as officers in the Regular and Reserve components of the United States Army. The curriculum is designed to develop students' leadership potential and improve students' planning, organizational, and managerial skills.

Army ROTC training is divided into two phases: the first two years constitute the Basic Course; the last two the Advanced Course. The Department offers both a four- and a two-year program, each leading to a commission as a **Second Lieutenant** in the United States Army. The four-year program requires completion of the Basic Course, a five-week field training course, and the Advanced Course. Students with prior active military service or previous training at military schools may be exempt from some or all of the Basic Course. Students with questions concerning the various options should contact the Professor of Military Science for more information. Enrollment is open to qualified students at all levels, including graduate students. Offerings are published each semester.

Army ROTC training provides scholarships, pay, free uniforms and textbooks. Scholarships are awarded on a competitive basis in all academic majors. The scholarship pays full tuition or room and board, books, lab **and mandatory** fees, and certain other academic expenses. All Advanced Course and scholarship students receive a monthly subsistence payment that ranges from \$300.00 as a freshman to \$500.00 as a senior. This is in addition to the pay of approximately \$700.00 while

attending the five-week field training course at the **Leadership Development and Assessment Course at Fort Lewis, Washington.**

**Additional skills training:** Airborne School, Air Assault School, and the Northern Warfare School are available to both Basic and Advanced Course students during semester breaks. Additional skills training is also available during the academic year to include first aid, rappelling, orienteering, etc.

**Basic Course:** The Basic Course consists of four semesters of classroom instruction of one and a half hour each week **and a leadership lab**. Students incur no military commitment by participating in the Basic Course. **In lieu of attending the basic course classroom instruction, a student may attend the four-week Leadership Training Course at Fort Knox, Kentucky during the summer of the student's sophomore year.**

**Advanced Course:** The Advanced Course consists of four semesters of classroom instruction of three hours each week, **leadership lab, physical fitness and** field training exercises, and a five-week training phase at **Leadership Development and Assessment Course**. The Advanced Course is designed to prepare the student who desires to be a Professional Army Officer for duty, either Active Army, Reserve or National Guard. **Additional follow-on training is available to selected cadets at both US based and overseas active Army units.**

**Job Opportunities:** The newly commissioned officer can be guaranteed Reserve or National Guard duty, or compete for an Active Duty commission. Prior to commissioning the student may request to serve in a number of career fields to include aviation, engineering, medical, law, law enforcement, logistics, and personnel administration.

**Requirements for an ROTC Commission:** Students who desire to earn a commission as a **Second Lieutenant** in the United States Army must meet the following requirements: four semesters of the ROTC Advanced Course, successful completion of the Professional Military Education Courses (written communication skills, computer literacy, and military history), attendance at **Leadership Development and Assessment Course**, maintain and graduate with a minimum of a 2.0 GPA, successful completion of the Army Physical Fitness Test, compliance with the Army height and weight standards, and other requirements of the United States Army.

## Minor in Military Science

The minor in Military Science entails a 18-hour program organized and coordinated through the Department of Military Science. A minimum of 14 of the 18 hours must be earned at USF and the student must maintain a 2.0 GPA in the minor. A minimum grade of "C" or better must be maintained in each course. "S" grades will not be accepted. This program is designed to provide the student with an in-depth understanding of Army leadership doctrine and the fundamental principles by which Army leaders act to accomplish their mission. This minor lays out a leadership framework that allows students to apply leadership concepts learned in the classroom. Additional emphasis is placed on character development, oral and written communication, physical and mental fitness, and military small unit operations.

**Required courses:** (Total of 14 Credit Hours)

- |   |     |
|---|-----|
| MSL 3201C Adaptive Team Leadership            | (3) |
| MSL 3202C Leadership in Changing Environments | (3) |
| MSL 4301C Developing Adaptive Leaders         | (3) |
| MSL 4302C Leadership in a Complex World       | (3) |
| MSL 2900* Army Physical Readiness             | (1) |

\*repeated for two semesters; may be repeated up to four semesters, however only two credits will count toward minor

**Other specifications:** combination of 4 credit hours from any of the military elective courses below:

- |   |     |
|---|-----|
| MSL 1001C Leadership and Personal Development | (2) |
| MSL 1002C Introduction to Tactical Leadership | (2) |

MSL 2101C	Innovative Team Leadership	(2)
MSL 2102C	Foundations of Tactical Leadership	(2)
MSL 2901	Basic Leader Training	(4)
MSL 4930	Advanced Directed Study and Research	(1-3)
AFR 1101	The Air Force Today: Organization and Doctrine	(1)
AFR 1120	The Air Force Today: Structure and Roles	(1)
AFR 2130	U.S. Air Power: Ascension to Prominence	(1)
AFR 2140	U.S. Air Power: Key to Deterrence	(1)
AFR 3220	Air Force Leadership and Management I	(3)
AFR 3231	Air Force Leadership and Management II	(3)
AFR 4201	National Security Forces in Contemporary American Society I	(3)
AFR 4211	National Security Forces in Contemporary American Society II	(3)

### Military Science Faculty

*Professor:* James B. Botters; *Assistant Professors:* George Abrams, Fernando Garcia, Joe Jennings, Scott Macksam, Edward Milligan.

### Naval Science Naval ROTC

**Location/Phone:** CWY 406

**Office Hours:** 8 a.m. – 5 p.m., Monday through Friday

**Web Address:** <http://web.usf.edu/nrotc>

**Email Address:** [naval@nrotc.usf.edu](mailto:naval@nrotc.usf.edu)

The Naval Science Program at the University of South Florida is administered by the Naval Reserve Officers Training Corps (NROTC) Unit. This program affords selected men and women the opportunity to receive instruction in Navy specified courses which, in conjunction with the baccalaureate degree, will qualify them for a commission in the United States Navy or Marine Corps. Students enrolled in the university who are physically and mentally qualified are eligible to apply for the NROTC program. As naval officers, USF NROTC graduates become eligible for varied careers, serving in aviation squadrons, on surface ships, on submarines in the nuclear power program, at naval installations all over the world, or in the numerous sub-specialties as an officer of the Marines Corps. With the consent of the Professor of Naval Science, any student, although not enrolled in the NROTC program, is eligible for enrollment in naval science courses. The USF NROTC Unit offers participation through four programs: (1) the Navy-Marine Corps Scholarship Program, (2) the Navy-Marine Corps Four-Year College Program, (3) the Two-Year NROTC College Program, and (4) the Two-Year NROTC Scholarship Program.

**The Navy-Marine Four-Year Scholarship Program**—The NROTC National Scholarship Program is open to young men and women of all races, creeds, and national origin who are United States citizens. Students are selected on their own merit to become officers in the United States Navy and Marine Corps. Scholarship students are appointed Midshipmen, U.S. Navy Reserve. The Navy pays for tuition, fees, textbooks, uniforms, and a monthly subsistence allowance of up to \$400.00 for four years. Scholarship students are normally selected through national competition during their senior year in high school. Each year, ten Professor of Naval Science scholarships are available through a competitive selection process to Black and Hispanic students with academic potential who have yet to demonstrate their performance in a college environment or who have completed at least one, but not more than two semesters of course work at the university with a cumulative GPA of 3.0 or better and with no grade below "C". Although it is not a requirement, a student in the NROTC Scholarship Program is encouraged to pursue a major in engineering, mathematics, chemistry, or physics to meet the technological requirements of the Navy. Other fields of study for a major leading to a baccalaureate degree are permitted, with the approval of the Professor of Naval Science. Regardless of the major, every

scholarship student must complete one year of physics and one year of calculus.

Students must include certain Navy specified courses in their program and complete a program of courses as prescribed by the professor of naval science. Upon graduation, and successful completion of the naval science curriculum, the midshipman will receive a commission as Ensign in the U.S. Navy or Second Lieutenant in the U.S. Marine Corps and serve on active duty for a minimum of four years.

**The Navy-Marine Four-Year Corps College Program**—The NROTC College Program is designed to train and educate well-qualified young men and women for commissioning. Selected students are appointed as midshipmen in the Naval Reserve prior to commencement of the advanced course in the junior year. The Navy pays for uniforms and naval science textbooks during the four-year period, and during the junior and senior years, pays the midshipman up to \$400.00 per month subsistence allowance. Each student is selected for enrollment in the program on the basis of past academic performance, potential, personal interviews, and a physical examination. A college program midshipman only acquires a military service obligation after entering the advanced courses at the beginning of the junior year.

Although there are no restrictions on the major college program students may pursue, it is highly recommended that they pursue a course of study similar to that of scholarship students. Students must also include in their program certain Navy specified courses and a program of courses in naval science. Students, upon graduation and successful completion of the naval science curriculum, receive a commission as an Ensign in the U.S. Navy or a Second Lieutenant in the U.S. Marine Corps and serve on active duty for a minimum of three years.

**Two-Year NROTC College Program (Non-Scholarship)**—The USF NROTC offers on a limited basis a two-year non-scholarship program which is designed specifically for students commencing their third year of college, who were not enrolled in the NROTC program during their freshman and sophomore years. Applications must be submitted during the sophomore year by the first of March to permit processing, personal interviews, and a physical examination. Qualifications for acceptance to this program include demonstrated ability to complete college level science and math courses. Upon acceptance into this program, the student attends a six-week intensive course at the Naval Science Institute in Newport, Rhode Island, in the summer prior to commencing the junior year of study. Students in a five-year engineering curriculum may attend the institution between their third and fourth years. The six-week summer course qualifies the student for enrollment in the NROTC program at the junior level. During the student's attendance at the Naval Science Institute, the Navy provides room and board, books, uniforms, and transportation from home and return, as well as pays the student approximately \$365.00 month. Upon successful completion of the course, the Navy pays for uniforms, naval science textbooks, and up to \$400.00 per month subsistence allowance.

Students must also include in their program certain Navy specified courses and a program of courses in naval science. Students, upon graduation and successful completion of the naval science curriculum, receive a commission as an Ensign in the U.S. Navy or a Second Lieutenant in the U.S. Marine Corps and serve on active duty for a minimum of three years.

**Two-Year NROTC Scholarship Program**—The two-year scholarship program is administered in the same manner as the two-year non-scholarship program, except that a student who has excelled in a math, physical science, or engineering major and who has demonstrated above average performance in integral calculus may be selected for a two-year full tuition scholarship, to be awarded upon successful completion of the six-week period of training at the Naval Science Institute. In

addition to the full-tuition scholarship, the student will receive up to \$400.00 subsistence per month, books, and lab fees.

Regardless of the major, every scholarship student must complete one year of calculus-based physics and one year of calculus. Students must include certain Navy specified courses in their program and complete a program of courses as prescribed by the Professor of Naval Science. Upon graduation, and successful completion of the naval science curriculum, the midshipman will receive a commission as an Ensign in the U.S. Navy or Second Lieutenant in the U.S. Marine Corps and serve on active duty for a minimum of four years.

**Summer Training**—The NROTC Scholarship Program student is required to complete training of approximately four weeks during each of the three summer recesses. During the first summer period, each scholarship student will receive instruction in aviation training, marine combat training, surface warfare indoctrination, and submarine indoctrination either in Norfolk, Virginia or San Diego, California. The second summer training period will be performed aboard operational ships of the U.S. Fleet. During the third summer, candidates for U.S. Navy commissions will perform training aboard operational ships or aviation squadrons as a junior officer. The student who qualifies for nuclear propulsion training may elect to cruise on nuclear powered ships or submarines. Some midshipmen cruise with allied navies through the Midshipman Foreign Exchange Program. Transportation costs to and from the training sites, subsistence, quarters, and pay of approximately \$365 per month will be paid to every participating student. The candidates for U.S. Marine Corps commissions will perform training at the U.S. Marine Corps Base, Quantico, Virginia. The Marine Option NROTC Summer Training Program, "Bulldog," is a six-week training program designed to prepare midshipmen for appointment to commissioned grade by providing basic military instruction and physical training. An evaluation of midshipmen is made to ensure that they possess the leadership, academic, and physical qualifications required for appointment to commissioned grade in the Marine Corps Reserve. Female midshipmen participate in all NROTC curriculum requirements and activities, including cruises aboard selected ships. A woman who has qualified for Marine Option NROTC Summer Training at Quantico attends the Woman Officer Candidate Course in Quantico, Virginia.

Specified University Courses: In addition to satisfying requirements for a baccalaureate degree, the student must satisfactorily complete the following four-year curriculum guide, including required naval science courses and specified university courses.

Freshman Year		Sem. Hrs.
NSC 1110	Introduction to Naval Science (Note 1)	3
NSC 1101L	Naval Science Laboratory	0
NSC 1140	Sea Power and Maritime Affairs (Note 1)	3

Sophomore Year		
MAC 2311, 2312	Calculus I, II	8
or		
MAC 2281, 2282	Engineering Calculus I, II (Note 4)	8
NSC 1101L	Naval Science Laboratory	0
NSC 2212C	Navigation/Naval Operations I: Navigation (Note 2)	3
NSC 2221	Evolution of Warfare (Note 3)	3
NSC 2231	Principles of Naval Management I (Note 1)	3

Junior Year		
NSC 1101L	Naval Science Laboratory	0
NSC 2121	Naval Ships System I (Note 2)	3
NSC 3123	Naval Ships Systems II (Note 2)	3
PHY 2048, 2049	Physics I, II (Note 4)	10

Senior Year		
NSC 1101L	Naval Science Laboratory	0
NSC 3214C	Navigation/Naval Operations II: Seamanship & Ship Operations (Note 2)	3
NSC 4224	Amphibious Warfare (Note 3)	3
NSC 4232	Principles of Naval Management II	3

**NOTES:**

- (1) Undergraduate naval sciences required to be completed for all students before Fall Semester junior year
- (2) Upper division Naval Science courses required of Navy Options and not required of Marine Options
- (3) Required of Marine Option midshipmen only
- (4) One year of each calculus and calculus-based physics is required for every Navy option scholarship student. It is recommended, but optional for College Program and Marine Options.

**Furnished Items**—All uniforms, textbooks, and equipment needed by the student for naval science courses are furnished by the Navy.

**Use of Navy Science courses as University Electives**—Academic departments within the university may, according to their own policies, accept naval science courses as electives to fulfill requirements in their academic program.

**Naval Science Minor**—Upon successful completion of the four-year Naval Science Program, a student may be awarded a minor in naval science. Specific requirements should be arranged with the student's academic department.

**Naval Science Laboratory**—The naval science curriculum includes a weekly three-hour laboratory covering professional and military subject matter. Attendance is mandatory for all midshipmen.

**Minor in Naval Science and Leadership**

The minor in Naval Science and Leadership entails an 18-hour program organized and coordinated through the Department of Naval Science. A minimum of 14 of the 18 credit hours must be earned at USF and the student must maintain a 2.0 GPA in the minor. A minimum grade of "C" or better must be maintained in each course. "S" grades will not be accepted. This program is designed to provide the student with an in-depth understanding of Naval leadership doctrine and the fundamental principles by which Navy and Marine Corps leaders act to accomplish their mission. The minor lays out a framework by which the Navy and Marine Corps conduct routine operations and planning and it also provides a foundation in design theory with a practical application to naval platforms and weapon systems. Special emphasis is placed on character development and effective communication skills.

**Required courses:** (Total of 12 Credit Hours)

NSC 1110	Introduction to Naval Science	(3)
NSC 1140	Sea Power and Maritime Affairs	(3)
NSC 2231	Principles of Naval Management I	(3)
NSC 4232	Principles of Naval Management II	(3)

**Other specifications:** combination of 6 credit hours from any of the naval science courses below:

NSC 2121	Naval Ship Systems I	(3)
NSC 2212C	Navigation/Naval Operations I: Navigation	(3)
NSC 2221	Evolution of Warfare	(3)
NSC 3123	Naval Ship Systems II	(3)
NSC 3214C	Navigation/Naval Operations II: Seamanship and Ship Operations	(3)
NSC 4224	Amphibious Warfare	(3)

**Naval Science Faculty**

**Professor:** Martin P. Smith; **Assistant Professors:** Eric Coleman, Matthew Haley, John Kehoe, Matthew Lovitt.

**LEADERSHIP STUDIES MINOR**

The minor in Leadership Studies consists of a minimum of 18 credit hours with a "B" average (3.0). All students shall complete the first courses in the sequence and select four additional courses from the list of approved courses for the program. The series of courses is designed to help students develop personal and organizational leadership skills. The program is interdisciplinary in nature and should be of significant benefit to students in all areas of study.

The seven courses are designed to give students a practical and theoretical grasp of leadership. The basic assumption is that leadership can be learned and, therefore, taught. This program has a unique approach to leadership education that combines practical theories of leadership and learning to provide opportunities for students to study the nature of authority, leadership, social and role dynamics, political processes

and the values that orient their careers. Students learn personal, diagnostic, operational, and tactical skills. In these classes, students are challenged to investigate self, context, and strategy.

**Required Courses (6 hours):**

SLS 2260	Leadership Fundamentals	3
SLS 4272	Survey of Leadership Readings	3

**Elective Courses (12 hours):**

SLS 3930	Selected Topics in Leadership	1-4
SLS 3948	Community Leadership Practicum	3
SLS 4271	Organizational Theories and Processes	3
SLS 4273	Theories of Leadership	3
SLS 4274	Ethics and Power in Leadership	3
SLS 4276	Images of Leadership in Print and Film	3

# COLLEGE OF VISUAL & PERFORMING ARTS

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

The College of Visual and Performing Arts exists in the context of a dynamic, contemporary, urban, research university setting, characterized by its cultural diversity. The College provides opportunities for students to develop their interests and talents to the fullest whether they wish to pursue a creative or performing career, a teaching career, or life-long artistic enrichment.

## Mission

The mission of the USF College of Visual and Performing Arts is to conduct scholarly and creative research and to challenge and inspire students to make significant contributions in the arts.

The College provides a learning environment that is engaged locally and nationally in contemporary issues and initiatives.

## Vision

The USF College of Visual and Performing Arts aspires to achieve national and international recognition as a distinguished center for study, creation, and research in the arts.

The College will provide an innovative environment to prepare the next generation of artists, educators, scholars, and audiences.

The College will support and promote creative research and production in the visual and performing arts.

The College will engage in advancing the cultural vitality of the Tampa Bay region.

The College of Visual and Performing Arts is a unique entity housing the School of Art and Art History, the School of Music, and the School of Theatre and Dance. The Institute for Research in Art includes the Contemporary Art Museum, Graphicstudio, and the program for Public Art. All serve multiple academic purposes within the College of Visual and Performing Arts as well as enrich the cultural environment within the university community. More information about each program is available on the College website at <http://www.arts.usf.edu/>.

## College Activities and Events

The College of Visual and Performing Arts arranges a full schedule of concerts, plays, lectures, films, and workshops featuring students, faculty, and visiting artists and scholars. Events are open to the general public and are presented both during the day and in the evening. Special ticket privileges are available to USF students. For more information, contact the College of Visual and Performing Arts Events Office at (813) 974-2323 or <http://eps.arts.usf.edu/>.

## Visiting Artist and Scholars Program and Artist-in-Residence

The College of Visual and Performing Arts is committed to creating and cultivating an artistic environment to enhance the total learning experience of its students and the community at large. Each year performing groups and internationally recognized visual artists and scholars are invited to the campus for a period of residency. The visiting artists and scholars provide opportunities for students and the community to participate in their teaching, creative, and performing abilities.

## Institute for Research in Art

USF's Institute for Research in Art houses the Contemporary Art Museum, Graphicstudio and the program for Public Art. The IRA is dedicated to an international artists' residency program that brings to the University and Tampa Bay community today's most accomplished and influential artists working in the international arena. Exhibitions, collection development, publication of limited edition graphics and sculpture multiples, commissioned public art works, lectures, symposia, workshops and special events are designed to foster awareness about the role of contemporary artists in shaping our culture and society.

## Contemporary Art Museum

The Contemporary Art Museum presents exhibitions that focus on contemporary art and also showcase the work of faculty, students and alumni. The exhibitions and art collection serve as an integral part of the studio and art history curriculum of the School of Art and Art History. Educational programs are offered to the University and Tampa Bay community. The Contemporary Art Museum houses the USF art collection that is composed of original graphics, drawings, photographs, and African and Pre-Columbian artifacts.

## Graphicstudio

Graphicstudio was founded in 1968 as an experimental, research-oriented collaborative workshop in the College of Fine Arts. Over sixty leading international artists have created more than 400 limited-edition fine art works at Graphicstudio, in intaglio, photogravure, lithography, relief, serigraphy, sculpture, and artist books. Graphicstudio's works are archived at the National Gallery of Art in Washington, D.C., the only university-based workshop so honored. Graphicstudio offers unique opportunities for graduate students to work and learn in a professional environment. Offerings include classes, conferences, internships and graduate assistantships in printmaking, sculpture fabrication, curation, education and arts administration.

## Contemporary Arts Program

In conjunction with the Endowed Chair and program in Contemporary Art History, the College promotes understanding of contemporary art practice and provides opportunities for persons interested in a critical and research oriented engagement with contemporary discourse.

## The British International Theatre Program

The BRIT program provides residencies for major British theatre artists to work from two to eight weeks each year in master classes and Theatre productions. This private/public-endowed partnership creates a rich learning and performing environment for theatre students.

## The John W. Holloway Endowed Chair in Dance and Theatre

The Holloway endowment provides short and long term working residencies for major dance and theatre artists in master classes and on productions in dance and theatre. This program fosters original, contemporary, and traditional dance compositions and theatre works enhanced by visiting artists working in collaboration with faculty and students.

## SYCOM (Systems Complex for the Studio and Performing Arts)

SYCOM offers facilities for all different fields of professional audio, from analog synthesis to MIDI to digital recording. Through a wide range of courses, students learn techniques of the professional recording studio and the skills to record and produce live music, as well as modern digital audio editing and mastering.

## Music Festivals

The School of Music sponsors a variety of Festivals for high school students. Among these are the Festival of Winds which enjoys a tradition of more than 25 years on the USF campus, the Festival of Voices which brings talented high school vocalists to campus to experience choral singing under the direction of USF faculty and guest conductors, and the Festival of Strings that features orchestral and chamber music experiences. All the Festival programs provide an opportunity for participants to experience an intensive and high level musical experience while enjoying the fellowship of other talented musicians in the context of a supportive and educational atmosphere provided by the faculty and students of the School of Music. For details

about each program, contact the Coordinator of Admissions in the School of Music.

## BACCALAUREATE-LEVEL DEGREE PROGRAMS

The College of Visual and Performing Arts offers four undergraduate degrees:

- Bachelor of Arts (B.A.) in Art Studio or Art History, Dance, Music Studies, and Theatre
- Bachelor of Music (B.M.) in Music
- Bachelor of Fine Arts (B.F.A.) in Studio Art, Theatre Design, or Dance Performance
- Bachelor of Science (B.S.) in Music Education

## Undergraduate Admission to the College of Visual and Performing Arts

Admission to the College of Visual and Performing Arts is contingent on acceptance into the university through the USF Office of Admissions. Additionally, students who wish to major or minor in art, dance, music, or theatre should contact the respective School. Admission is open for Theatre majors. Auditions are required for admission to the Dance program and the School of Music and must occur on specific dates as posted by those programs. The School of Art and Art History requires the completion of a core curriculum (ART 2201C, ART 2203C, ARH 2050 or 2051, and ART 2301C) and a satisfactory portfolio review of all candidates seeking admission to the B.A. in Studio Art or the B.F.A. in Studio Art. Specific dates will be posted by the program. Students who have not presented an acceptable portfolio on the posted date prior to orientation and registration will not be admitted into the School. The B.A. in Art History does not require a portfolio review. Please note, however, that Art History majors may take only those studio courses mandated by the state for their degree program. Art History students who wish to take other studio courses, or to double major, must successfully fulfill the requirement for portfolio review at the regularly scheduled time. Transfer students who wish to major in Studio Art must complete the equivalent core curriculum and pass a regularly scheduled portfolio review prior to admission to the School of Art and Art History. All prospective students in the College of Visual and Performing Arts must complete the necessary forms in the Office of Student Services and Advising in FAH 120 in order to be on file as majors or minors.

Although the Theatre program is an open admission programs, transfer students and current USF students who request admission to this program must be placed according to their abilities. Theatre students wishing to concentrate in performance or design must audition or have a portfolio review for acceptance into the upper-division concentration courses. Dance and music students must complete successful auditions prior to Orientation and registration for their home unit's core courses. Art students must successfully complete a scheduled portfolio review prior to Orientation and registration.

Students with previously earned college credit, who request admission to the College of Visual and Performing Arts are required to provide copies of their transcripts to their advisors for the purpose of deciding which credits can apply to their degree program at USF. Copies of catalog pages with course descriptions from previous institutions are needed for each course being transferred for degree requirements. A minimum grade of "C" is usually necessary for courses in the concentration.

## Visual and Performing Arts Advising

The College of Visual and Performing Arts (CVPA) Office of Student Services and Advising, located in the Fine Arts building, offers a comprehensive service to all students in CVPA and advice to non-majors who are interested in taking CVPA courses. The service includes Stampede to Success, registration, academic advising, scholarships, graduation certification,

mentorship programs, and referrals to other university and community-based services and career-related opportunities. Three major-field advisors (art, music, theatre/dance), TAPS Advisor, Advising Assistant Director, and support staff work with students toward their matriculation according to curricular outlines. However, the student must remember that he or she is ultimately responsible for meeting all graduation requirements.

**The goals of the office of Student Services and Advising are to:**

- Help students clarify their life and career goals
- Help students develop their educational plans
- Help students select appropriate courses
- Help students interpret institutional requirements
- Evaluate student progress toward established goals
- Facilitate total student development
- Foster the development of individual student's talent to the fullest

## Advising Office

*Tampa Campus:* College of Visual and Performing Arts (FAH), Room 120, (813) 974-3660.

## Office Hours

Office hours are 8 a.m. - 5 p.m., Monday - Friday.

## General Requirements for B.A. Degrees Within the College of Visual and Performing Arts

1. All degree programs require 120 credit hours.
2. General Education Requirements may be satisfied by (1) completing the university's General Education Requirements, (2) completing the A.A. degree from a Florida Junior or Community College, or (3) completing the general education requirements from another Florida state university. General education courses transferred from other accredited institutions will be evaluated based on USF General Education equivalencies. The A.A. degree is in no way a requirement for acceptance into the College of Visual and Performing Arts (or into any one of its upper-level degree programs), or a requirement for graduation from the university.
3. Students admitted to the College of Visual and Performing Arts with transfer credits, or former students returning with credits dating ten or more years prior to admission (or readmission), will have those credits reviewed by the College and department/school and may be required to take specified competency tests in their major area.
4. In the College of Visual and Performing Arts, at the discretion of the disciplines, must take six fine arts credit hours in a field other than the major discipline (Dance, 3 credits; BA Music Studies, 6 credits; BM Music, 3 credits). Transfer of degree fine arts credits must be evaluated by an advisor. Fine Arts courses for this requirement may be taken as S/U grading at the discretion of the instructor.
5. A maximum number of ROTC credits totaling no more than the maximum allowed in the Free Elective Area for each major may be counted toward all degrees.
6. A maximum of four credit hours of elective Physical Education credits taken at USF may be counted as general elective credit toward all degrees.
7. Students must satisfactorily meet the College Level Academic Skills Test CLAST requirement and the writing and computation course requirement of 6A-10.30 (Gordon Rule).
8. Students applying for a B.A. degree must demonstrate competency in a foreign language as described under Foreign Language Competency Policy of this catalog.
9. For degree programs, see requirements listed under each School.
10. A minimum of 20 credit hours in the major unit must be earned in residence. This requirement, however, may be waived by the school based on examination (e.g., portfolio review, audition). A student must also earn 30 of the last 60

hours of credits in residence at USF. However, any course work to be taken and any credits to be earned outside of the university must have prior approval from the appropriate school and the college in order to apply these credits toward graduation.

Waiver of prerequisite course work totaling no more than 12 credit hours in the major or Visual and Performing Arts College requirements is possible by demonstration of competence. Unless credit is awarded by approved official tests, i.e., A.P., CLEP, the credit hours must be made up according to school or college recommendations. A faculty committee conducts waiver reviews. Specific questions concerning program requirements for all degrees in the College or other related problems should be directed to the College of Visual and Performing Arts Coordinator of Advising.

### College Policy for Academic Progress

The following criteria will serve as the bases for disenrollment from a major in the College of Visual and Performing Arts:

1. Grade point average below 2.0 in the major.
2. Recommendation by major applied (studio) art, dance, music or theatre faculty with approval of respective school director.
3. The school may recommend probationary status (rather than disenrollment) for one semester when academic progress is not maintained.

### Contracts and Permission Procedures

#### Directed Studies Contracts

All Directed Studies and other variable credit courses in the College of Visual and Performing Arts require contracts between students and instructors describing the work to be undertaken by the student and specifying the credit hours. These contracts are to be completed in quadruplicate and appropriately signed. It is the student's responsibility to obtain the necessary signatures and make the required distribution of all copies. *Important:* the student *must* have his/her signed copy of a contract at the time of registration.

#### S/U Grade Contracts

The College of Visual and Performing Arts requires that any S/U grading agreement entered into between student and instructor be formalized by a contract in quadruplicate signed by the student and the instructor and distributed according to instructions.

#### "I" Grade Contracts

Incompletes must be contracted for by mutual agreement between student and instructor, with the contract describing specifically the amount and nature of the work to be completed for the removal of the incomplete grade. This contract additionally clearly specifies the date that the work will be due (within legal limits) for grading. Both the student and the instructor must sign this contract and the four copies must be distributed according to instructions. **A student must not register for a course again to remove an "I" grade.**

#### Permission Procedures

Admission into some courses is possible only by consent of instructor (CI), consent of chairperson (CC), consent of advisor, or by audition or portfolio review. When such special permission is required, it will be the student's responsibility to obtain any required permission prior to registration.

### S/U Grading in the College

1. Non-majors enrolled in courses in the College of Visual and Performing Arts may undertake such courses on an S/U basis with instructor approval. See Contracts and Permission Procedures for information concerning S/U Grade Contracts.
2. Credits earned by a non-major student with an "S" grade will not count toward the student's minimum major course graduation requirement should that student ultimately decide to become a major student in one of the four arts

disciplines in the College. Instead, such credits earned with an "S" grade will be assigned to the student's Free Elective category (with the exception of music, which will become non-countable).

3. Although Visual and Performing Arts majors may take coursework in their major as Free Electives, they are not entitled to the S/U grading option for these courses taken in their major subject area, even when specifically used or intended to be used as Free Electives.
4. In the College of Visual and Performing Arts, the only S/U graded courses available to a major student in his/her major subject area are those curriculum allowable courses designated S/U (that is, S/U only).
5. A maximum of 9 credit hours of S/U credits in non-major courses may apply towards a degree in the College of Visual and Performing Arts.

Please refer to Academic Policies section for more information concerning the university's S/U Grading policy.

### Dean's List Honors

See Academic Policies and Procedures, Programs and Services.

### Interdisciplinary Study

There is no formal interdisciplinary arts degree offered in the College of Visual and Performing Arts. However, it is possible for a student to pursue such a program of study in the College by utilizing free electives allowed in the major program. A student may also choose a double undergraduate major in two units or arts disciplines within the College of Visual and Performing Arts as a means of interdisciplinary study. See the major advisor in the programs of particular interest.

### Minor Programs

The College of Visual and Performing Arts offers minor programs in Art History, Dance, Music, and Theatre. Majors in the College of Visual and Performing Arts may pursue a minor in any certified minors program at USF except within the same arts discipline as the major. The requirements for these programs are located under the school academic program descriptions and also require that a minimum of eight hours be taken at USF. For university minor policy, consult that section in the catalog. Please note that the minor in Studio Art has been temporarily suspended.

## SCHOOLS AND PROGRAMS

### • ART (ART)

The School of Art and Art History offers the Bachelor of Fine Arts degree in Studio Art, the Bachelor of Arts degree in Studio Art, and the Bachelor of Arts degree in Art History. The two studio curricula (BA - studio concentration and BFA) are designed to develop the student's consciousness of aesthetic and ideological aspects of art and its relationship to life and to assist students in the realization of personal ideas and imagery. Many students interested in college teaching, museum or gallery work, fine or commercial studio work pursue the extended discipline and experience offered at the graduate level.

Although the Studio Art programs allow many possible courses of study, most art major students will select one area of emphasis chosen from the course offerings listed.

The major areas of emphasis, available to Tampa campus undergraduate art studio students are Drawing, Painting, Sculpture, Ceramics, Electronic Media (Computer Imaging, Video), Printmaking and Photography. Admission to the School of Art and Art History Studio programs is by portfolio. Applicants should submit the required information by the deadlines for each term as posted on the School of Art and Art History website, [www.art.usf.edu](http://www.art.usf.edu). A BFA concentration in Graphic Design (junior and senior years only) is now available on the USF St. Petersburg campus. This is a limited access program.

Transfer studio credit will be accepted on the basis of portfolio and transcript evaluation. The School of Art and Art History will accept all Florida state programs that are part of the "Common Prerequisites."

The Art History program (BA - Art History) reflects the faculty's belief that strong liberal arts study, supplemented with internships and travel, is the most appropriate preparation for students who desire further study at the graduate level or professional work in the fields of art history research, teaching or galleries and museums. Students who pursue the BA in Art History will acquire a broad, thorough knowledge of art from prehistory to the present.

For additional requirements see Graduation Requirements, College of Visual and Performing Arts.

### Prerequisites (State Mandated Common Prerequisites)

The School of Art and Art History encourages students who wish to transfer from Florida Community Colleges to complete their A.A. prior to transfer. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student 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. Candidates for admission into the two studio programs must successfully complete a portfolio review at a posted review date in order to be admitted. Please note that acceptance into the School of Art and Art History does not mean that you are admitted to U.S.F. and that acceptance by U.S.F. does not mean that you have been accepted by the School of Art and Art History. Each application process is separate and both must be completed for consideration of acceptance into the studio programs.

**Please note:** Enrollment into the School of Art and Art History as a studio major is contingent upon two separate applications and acceptances:

1. Submission of completed USF Admissions application and acceptance into the University of South Florida, and
2. Submission of completed School of Art and Art History application and acceptance into the School of Art and Art History.
3. Application to the BA Art History does not require a separate application to the School of Art and Art History nor a portfolio.

Students may complete the **prerequisite courses** listed below prior to entering the university. Unless stated otherwise, a grade of "C-" is the minimum acceptable grade. The following prerequisite courses will be accepted as meeting lower level requirements.

ART 1201/1202 Design I and Design II or ART 2201  
 ART 1300/1301 Drawing I and Drawing II  
 ART 2050/2051 Art History Survey I and Art History Survey II  
 ART 2XXX Any 2-3 introductory media course, 6-9 semester hours or 12 hours of ART 2XXX

Note: It is recommended that transfer students complete both Design I and Design II prior to transfer. If a student does not complete Design I and Design II prior to transfer they should wait and enroll in ART 2201 (Concepts and Practices I) and ART 2203 (Concepts and Practices II) at USF.

## Requirements for the B.A. Degree in Studio Art

The following courses apply to the B.A. degree in Art Studio:  
**I. Art Preparation** (All coursework in the School of Art and Art History must have a grade of "C-" or better to satisfy program requirements.)

ARH 2050	History of Visual Arts I*	(3)
ARH 2051	History of Visual Arts II*	(3)
ART 2201C	Concepts and Practices I**	(4)
ART 2203C	Concepts and Practices II**	(4)

ART 2301C	Beginning Drawing	(3)
ART 3310C	Intermediate Drawing	(3)

**Total 20 hours**

\*History of Visual Arts I and II must be used to satisfy the General Education Historical Perspectives requirement if the student is to remain within 120 hours for the degree.

\*\*Concepts and Practices I or II must be used to satisfy the General Education Fine Arts requirement if the student is to remain within 120 hours for the degree.

All studio courses, other than those designed as core or beginning studios, require the completion of the following core courses (ART 2201C or equivalent, ART 2203C or equivalent, ARH 2050 or ARH 2051, and ART 2301C or equivalent) and a satisfactory portfolio review. Refer to our web site at [www.art.usf.edu](http://www.art.usf.edu) for the scheduled review date.

### II. Beginning Studio Workshops

A minimum of 12 hours from the following Beginning Studio Workshops is required. These courses may not be repeated. These courses are pre-requisites to the intermediate level Studio Courses. Students must take at least one two-dimensional and one three-dimensional studio course.

ART 2400C	Beginning Printmaking	(3)
ART 2500C	Beginning Painting	(3)
ART 2701C	Beginning Sculpture	(3)
ART 2750C	Beginning Ceramics	(3)
ART 3612C	Beginning Electronic Media	(3)
PGY 2401C	Beginning Photography	(3)

**Total 12 hours**

### III. Intermediate Studio Workshops

A minimum of 6 hours from the following:

3000	Level Studio	(6)
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**Total 6 hours**

B.A. students may take advanced courses if they have the requisite 3.25 Major G.P.A. and course prerequisites. This would represent work in excess of degree requirements.

### IV. Expanded Context Courses

A minimum of 3 hours of your studio work must be from selected expanded context courses. Expanded context courses include ART 4806 Theme Studio, cross-media classes and/or ART 4930 special topics studio classes.

### V. Art History

A minimum of 12 hours in the following history courses:

ARH 4100	Prehistoric & Ancient	(4)
ARH 4170	Greek & Roman	(4)
ARH 4200	Medieval	(4)
ARH 4301	Renaissance	(4)
ARH 4350	Baroque and Rococo	(4)
ARH 4430	19th Century	(4)
ARH 4450	20th Century**	(4)
ARH 4520	African	(4)
ARH 4530	Asian Art	(4)
ARH 4800	Critical Studies	(4)
ARH 4930	Art History: Selected Topics***	(4)

**Total 12 hours**

\*4 hours may be taken in either critical studies seminar ARH 4800 or Directed Reading ART 4900.

\*\*ARH 4450 is required of all majors.

\*\*\*ARH 4930 Art History: Selected Topics may be taken for degree credit only by approval of the academic advisor for the School of Art and Art History.

### VI. Additional Requirements

Extended Studies*	(2)
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**Total 2 hours**

\*Paris Program, Public Art, Museum Internships, Community Art, Artists Internships/Apprenticeships, and London Middlesex Program.

### VII. Recommendations

Students are encouraged to take additional credits in the Studio Workshops and Theme Studio Courses to fulfill art electives.

**Total Art 53 hours**

### Total Semester Hours for the B.A. degree in Art Studio:

Please note under General Education that the Historical Perspectives must be satisfied with History of Visual Arts I, ARH

2050 and History of Visual Arts II, ARH 2051, and that Fine Arts must be satisfied with Concepts and Practices I, ART 2201 or Concepts and Practices II, ART 2203.

General Education*	(27)
Exit Requirements	(9)
Art Requirements	(55)
Free Electives (Maximum Art 9 hours)	(29)

**Total 120 hours**

\*Please note that 9 hours of General Education requirements are satisfied by the Art School curriculum and that the actual total hours in General Education remains 36 as state-mandated.

**Note:** All Students earning a B.A. degree in Studio Art or Art History must complete the Foreign Language Exit Requirement.

## Requirements for the B.F.A. Degree in Studio Art

Admission into the B.F.A. program is contingent upon the student having a 3.25 major GPA, which must be maintained for the degree to be awarded. The accelerated studio experiences provided for students meeting the requirements of the Bachelor of Fine Arts degree will better prepare them for professional participation in the visual arts. Any B.F.A. candidate with a major G.P.A. of less than 3.25 upon completion of 40 hours in the major must change his or her program from B.F.A. to B.A.

All studio courses, other than those designated as core, or beginning studios require the completion of the following core courses (ART 2201C or equivalent, ART 2203C or equivalent, ARH 2050 or ARH 2051, ART 2301C or equivalent, and ART 3310C or equivalent) and a satisfactory portfolio review. Refer to our web site at [www.art.usf.edu](http://www.art.usf.edu) for the scheduled review date.

The B.F.A. program in Studio Art will expose the student to many possibilities in the art-making process. The areas of emphasis in art media on the Tampa campus are painting, drawing, printmaking, photography, sculpture, ceramics and electronic media/video/performance. These options provide access to a comprehensive program of study in art. Students can develop their conceptual and technical skills in a particular art discipline or decide to investigate a specific subject through the use of numerous media and "mixed" forms of art.

The USF School of Art and Art History hosts fully equipped studios in all of these disciplines.

The new B.F.A. program in Graphic Design is limited access and offered only at USF St. Petersburg. (Juniors and seniors only.)

Transfer credit from other institutions is accepted on the basis of portfolio and transcript evaluation. The School of Art and Art History accepts transfer credit from all Florida programs that are part of the "common course prerequisites".

### I. Art Foundations

ARH 2050 History of Visual Arts I*	(3)
ARH 2051 History of Visual Arts II*	(3)
ART 2201C Concepts and Practices I**	(4)
ART 2203C Concepts and Practices II**	(4)
ART 2301C Beginning Drawing	(3)
ART 3310C Intermediate Drawing	(3)

**Total 20 hours**

\*History of Visual Arts I and II must be used to satisfy the General Education Historical Perspectives requirement if the student is to remain within 120 hours for the degree.

\*\*Concepts and Practices I or II must be used to satisfy the General Education Fine Arts requirement if the student is to remain within 120 hours for the degree.

### II. 2000 Level Studio

2000 Level 2-D Studio	(3)
2000 Level 3-D Studio	(3)
2000 Level Specialization	(3)
2000 Level Elective Studio	(3)

**Total 12 hours**

### III. 3000 Level Studio

3000 Level Specialization	(12)
3000 Level Non-Specialization	(3)
3000 Elective Studio	(3)

**\*Total 18 hours**

### IV. 4000 Level Studio

4000 Level Specialization	(6)
3000 or 4000 Level Elective	(3)

**Total 9 hours**

### V. Expanded Context Courses

A minimum of 3 hours of your Studio work must be from selected expanded context courses. Expanded context courses include ART 4806 Theme Studio, cross-media classes and/or ART 4930 special topics studio classes.

**Total 3 hours**

### VI. Art History

ARH 4450 20th Century	(4)
ARH 3454 Contemporary Issues in Art	(4)
4000 Level Period Art History	(4)

**Total 12 hours**

### VII. Additional Requirements

ART 3939 Real World	(3)
ART 4940 Extended Studies*	(3)
ART 4970 Senior Thesis**	(4)

**Total 10 hours**

**Total Art 84 hours**

\*Paris Program, Public Art, Museum Internships, Community Art, Artists Internships/Apprenticeships, London Middlesex Program, Johannesburg Program.

\*\*Must be taken with the second Advanced Studio in the student's specialization.

### Total Semester Hours for the B.F.A. degree in Art Studio:

General Education*	(27)
Exit Requirements	(9)
Art Requirements	(84)

**Total 120 hours**

\*Please note that 9 hours of General Education requirements are satisfied by the Art School curriculum and that the actual total hours in General Education remains 36 as state-mandated.

## Requirements for the B.A. Degree in Art History

The following courses are necessary for completing a B.A. degree in Art History:

**I. Art Preparation** (All coursework in The School of Art and Art History must have a grade of "C-" or better to satisfy program requirements.)

ARH 2050 History of Visual Arts I*	(3)
ARH 2051 History of Visual Arts II*	(3)
ART 2201C Concepts and Practices I	(4)
ART 2301C Beginning Drawing	(3)

**Total 13 hours**

\*History of Visual Arts I and II must be used to satisfy the General Education Historical Perspectives requirement if the student is to remain within 120 hours for the degree.

Plus: Minimum of 24 hours in the following history courses:

### II. Art History Survey

ARH 4100 Prehistoric & Ancient	(4)
ARH 4170 Greek & Roman	(4)
ARH 4200 Medieval	(4)
ARH 4301 Renaissance	(4)
ARH 4350 Baroque and Rococo	(4)
ARH 4430 19th Century	(4)
ARH 4450 20th Century	(4)
ARH 4520 African	(4)
ARH 4530 Asian Art	(4)
ARH 4930 Art History: Selected Topics*	(4)

**Total 24 hours**

\*ARH 4930 Art History selected topics may be taken for degree credit only by approval of the academic advisor for the school of art and art history.

**III. Art History Critical Studies or Directed Reading\*\***

ARH 4800 Critical Studies in Art History and/or  
ART 4900 Directed Reading

**Total 12 hours**

\*\*Students may substitute 4 hours of ARH 4800 Critical Studies for 4 hours of 4000 level art history survey by permission of the instructor.

**IV. Plus**

Extended Studies: required of all majors (2)

(London/Middlesex Program, Paris Program, Public Art, Museum Internships, Community Art, Artists Internship/Apprenticeships, Art History Apprenticeships)

**Total 2 hours****V. Recommendations**

Students are encouraged to take additional credits in Art History critical studies courses and Art History survey courses.

**Total Art History 51 hours****Total semester Hours for the B.A. degree in Art History**

General Education\* (30)

Exit Requirements (9)

Art Requirements (51)

Free Elective (Maximum Art 9 hours) (30)

**Total 120 hours**

\*General Education "Historical Perspectives" will be satisfied by ARH 2050, History of Visual Arts I and ARH 2051, History of Visual Arts II.

*Note:* All Students earning a BA degree in Art History must complete the Foreign Language Exit Requirement.

The Minor in Art (Studio Concentration) is suspended pending further notice. The Minor with a concentration in Art History remains active.

**Requirements for the Minor in Art**

**Studio Concentration:** Total of 26 minimum hours required

**I. Art Area Preparation**

ARH 2050 History of Visual Arts I (3)

ARH 2051 History of Visual Arts II (3)

ART 2201C Concepts and Practices I (4)

ART 2203C Concepts and Practices II (4)

ART 2301C Beginning Drawing (3)

**Total 17 hours****II. Art Studio**

Beginning Studio Workshop (6)

Intermediate Studio Workshop (3)

or

Theme Studio (3)

**Total 9 hours**

**Art History Concentration:** 26 minimum hours required

**I. Art History Preparation**

ARH 2050 History of Visual Arts I (3)

ARH 2051 History of Visual Arts II (3)

ART 2201C Concepts and Practices I (4)

or

ART 2203C Concepts and Practices II (4)

**Total 10 hours****II. Art History**

Art History Survey (16)

**Total 16 hours****VISITING ARTISTS AND SCHOLARS**

The School of Art and Art History is widely known for the consistent level of excellence of its programs. Aside from the contributions of its permanent staff, and to insure the continuing expansion of learning opportunities available to students, the School has brought to the campus internationally known artists and lecturers such as Alice Aycock, Linda Benglis, Jack Burnham, James Casebere, Albert Chong, Robert Colescott, Hal Foster, Edward Fry, Guillermo Gomez-Pena, Adam Gopnik, The Guerrilla Girls, Dave Hickey, Barbara Kruger, Donald Kuspit, Alfred Leslie, Komar and Melamid, Marlon Riggs, Tim

Rollins, Alison Saar, Lorna Simpson, Miriam Shapiro, Robert Stackhouse, Renee Stout, Sidney Tillum, and The Art Guys.

**USF CONTEMPORARY ART MUSEUM**

The USF Contemporary Art Museum (CAM) is recognized as one of the leading cultural institutions in the state by the State of Florida Cultural Institutions Program. The USF CAM brings vital, investigative, and scholarly exhibitions of contemporary art to the university and Tampa Bay Community. Artists include Matt Mullican, Robert Stackhouse, Pat Steir, Tyler Turkle, and Robin Winters, as well as internationally recognized artists from Africa, Europe, and Latin America, such as Leo Copers, Patrick Corillon, Alfredo Jaar, Antonio Martorelli, Pepon Osorio, and Peter Weibel. The Museum also houses the university's art collection with exceptional holdings in graphics, sculpture multiples, and recent photography. The Museum is actively engaged in commissioning architecturally related public art projects designed to enhance the public spaces on the USF campus. Recent projects include works by Dale Elred, Richard Fleischner, Doug Hollis, Nancy Holt, Ned Smyth, and Elyn Zimmerman. USF CAM organizes symposia, lectures, workshops, and visiting artist presentations to engender interest in contemporary art, educate the public, and facilitate the exchange of ideas among artists, museum members, experts in the art field, and the community. The exhibition, educational programs, and art collection serve as an integral part of the studio and art history curriculum of the School of Art and Art History and other liberal studies areas while enhancing the cultural vitality of the campus and Tampa Bay communities.

**GRAPHICSTUDIO**

The Institute for Research in Art/Graphicstudio was founded within the College in 1968 to perform basic research in the visual arts through collaboration with internationally renowned artists in the production of print and multiple editions.

Over the years, Graphicstudio has received many honors including the establishment of a permanent archive at the National Gallery of Art in Washington, D.C., and the achievement of the "Florida Arts Recognition Award" from the Department of State. Work/study programs, directed study, as well as graduate assistantships are available to USF students at Graphicstudio's production facility. Students are able to study completed editions as well as preparatory works in the Graphicstudio Gallery. Graphicstudio also sponsors lectures by invited guests and colloquia on a variety of subjects relating to the visual arts.

- DANCE (DAN)**

The dance program in the School of Theatre & Dance offers professional preparation through a curriculum of study within two degree options: B.F.A. in Dance Performance and B.A. in Dance Studies. There is an expressed commitment to the development and production of original creative works as extensions of studio/classroom experiences, of faculty research, and in interaction with guest artists.

The presentation of dance in concert is essential to the educational mission, and provides students and the community with numerous opportunities for expanding aesthetic experiences.

Through intensive study in dance technique, creative studio studies and dance theory, students are prepared for careers in performance, choreography, and education. Additionally, these degree programs may help prepare students for graduate work in Dance Sciences/Medicine, Dance Therapy, Arts Management, Performance, Choreography, or Interdisciplinary Studies.

Admission to the Dance program is contingent upon acceptance by the university and successful completion of a placement audition. Students must complete the audition prior to Orientation and registration for Dance courses.

Prospective majors must contact the School of Theatre and Dance for audition dates prior to being permitted to register for

classes. Acceptance into major technique classes is by faculty audition. Acceptance into each of the degree programs (B.F.A., B.A.) requires acceptable technical proficiency, academic standards commensurate with USF guidelines, and recommendation of the faculty.

### USF Dance in Paris Program

In May of 2007, the Dance program at USF expanded the parameters of its curriculum by offering its students a program of study in Paris. This annual four-week course will present an opportunity for dance majors to expand their historical, cultural and performance-based knowledge through exposure to the rich tradition of dance in the French capital.

The goal of the USF Dance in Paris Program is to enable students to expand upon information they have already gleaned from several courses required of dance majors: history, choreography, and technique.

Led by USF faculty members, this four-week intensive course in Paris will also feature studio classes taught by Parisian and other European dancers and choreographers of distinction, thereby exposing students to the contemporary Continental dance lexicon.

As Paris is the cradle of western dance civilization, students will visit the sites of some of history's greatest dance events, including The Paris Opera, the Theatre de Chaillot and Versailles. Further, students will be led to reevaluate their notions of traditional dance-making by embarking upon projects involving site-specific work in the city's many museums and music venues as well as those areas unique to the everyday life of the city, such as its cafes and the metro. Students will also attend performances by important dance artists working in Paris or visiting from elsewhere, thereby expanding their performance vocabulary.

### Prerequisites (State Mandated Common Prerequisites)

The College of Visual and Performing Arts 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 a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student 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.

Students are encouraged to complete the following required courses and/or electives (if available) during the program of study at the community college. 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. If students are coming to the university from a community college, the following prerequisite courses will be accepted as meeting lower level requirements. Prerequisites for B.F.A. in Dance Performance and B.A. in Dance Studies:

Any 24 credit hours from the following 30 hours will be accepted toward the major.

- DAN 2610 (3) or DAN 2600 (3)
- DAN 2611 (3) or DAN 2601 (3)
- DAA 2610 (2)
- DAA 2611 (2)
- DAA 2680 (2) - or any lower level Repertory course in the X400-X400 series up to 4 credit hours.
- DAA 2681 (2) - or any lower level Repertory course in the X400-X400 series up to 4 credit hours.
- DAA X200-X209 (8) - Up to 8 credit hours of any lower level Ballet Technique courses within the X200-X209 taxonomy.
- DAA X100-X109 (8) - Up to 8 credit hours of any lower level Modern Technique courses within the X100-X109 taxonomy.

Although credit or elective credit toward the major will be given for these courses, placement in upper level technique classes will continue to be based on individual proficiency. Other technique courses in other styles of dance may be accepted toward the major on a case-by-case basis at the discretion of the university. Transfer dance credits must be evaluated by faculty and dance advisor at time of entrance.

## Requirements for the B.F.A. Degree in Dance

The BFA in Dance Performance (Ballet or Modern emphasis) offers professional preparation, which includes extensive study in Studio Technique, Choreographic Studies and Dance Theory. The focus of this degree is the development of dancers who will enter the professional world of dance/arts as performers and choreographers. Beyond the expectations for continuing opportunities for performance, students selecting the BFA will develop and present solo and group Senior Choreographic Projects.

The BFA is a limited access program. Students must participate in a selective admissions procedure. At the end of their third semester, students will be assessed by Dance faculty to determine eligibility. Dancers must continue to take technique courses throughout their degree program.

### Modern Dance Focus

#### Studio Technique (28 semester hours)

- DAA 3209 Ballet III (6)
- DAA 3109 Modern III (6)
- DAA 4111 Modern IV (8)
- DAA 3394 World Dance (2)
- Elective Dance Technique (6)

#### Creative Studio (17 semester hours)

- DAA 3624 Dance Improvisation (2)
- DAA 3614 Choreography I (2)
- DAA 3615 Choreography II (2)
- DAA 4616 Choreography III (2)
- DAA 4617 Choreography IV (2)
- DAA 3686 Jr. Performance Project\* (1)
- DAA 4685/3654 Performance/Repertory\* (5)
- DAA 4694 Senior Choreographic Project (1)

\*Concurrent enrollment in Dance Technique

#### Dance Theory (27 semester hours)

- DAN 2160 Entry Seminar (2)
- DAN 3584 Practicum in Dance Production (1)
- DAN 3614 Music for Dance I (2)
- DAN 3615 Music for Dance II (2)
- DAN 4404 Laban Movement Analysis (3)
- DAN 3714 Dance Kinesiology (3)
- DAN 4134 Dance History Through the 19th Century (3)
- DAN 4135 20th Century Dance History (3)
- DAE 4340 Dance Pedagogy: Secondary Curriculum and Methods (3)

or

- DAE 4310 Dance Pedagogy: Pre-School to Elem. (3)
- DAN 4181 Dance Senior Seminar (2)
- TPA 2211/2291L Introduction to Technical Theatre II/ Technical Theatre Lab II (4)

Non-Dance Electives: (9)

### Ballet Focus

#### Studio Technique (30 semester hours)

- DAA 3209 Ballet III (6)
- DAA 4211 Ballet IV (8)
- DAA 3294 Ballet Variations/Pointe (2)
- DAA 3109 Modern III (6)
- DAA 3394 World Dance (2)
- Elective Dance Technique: (6)

#### Creative Studio Studies (17 semester hours)

- DAA 3624 Dance Improvisation (2)
- DAA 3614 Choreography I (2)
- DAA 3615 Choreography II (2)
- DAA 4616 Choreography III (2)

DAA 4617	Choreography IV	(2)
DAA 3686	Jr. Performance Project*	(1)
DAA 4685/3654	Performance/Repertory*	(5)
DAA 4694	Senior Choreographic Project	(1)

\*Concurrent enrollment in Dance Technique

#### Dance Theory (27 semester hours)

DAN 2160	Entry Seminar	(2)
DAN 3614	Music for Dance I	(2)
DAN 3615	Music for Dance II	(2)
DAN 4404	Laban Movement Analysis	(3)
DAN 3714	Dance Kinesiology	(3)
DAN 4134	Dance History Through the 19th Century	(3)
DAN 4135	20th Century Dance History	(3)
DAE 4310	Dance Pedagogy: Pre-school and and Elementary Methods	(3)

or

DAE 4340	Dance Pedagogy: Secondary Curriculum and Methods	(3)
DAN 4181	Dance Senior Seminar	(2)
TPA 2211/2291L	Introduction to Technical Theatre II/ Technical Theatre Lab II	(4)
Non-Dance Electives:		(7)

#### Requirements for the B.A. Degree in Dance Studies

The B.A. in Dance Studies is designed to provide students with a comprehensive core of study in Studio Technique, Choreographic Studies, and Dance Theory. The focus of this degree is to encourage the development of an individualized program of study through the selection of general education requirements as well as a focused selection of elective courses. The selection of electives should be designed to provide each student with the maximum value of a liberal arts education within a focused area of study. A student with additional interest in another field (i.e. African Studies, Anthropology, Communications, Education, History, Psychology, Religious Studies, Theatre, Women's Studies, etc.) should complete focused study in that area along with the core of study in dance. Each student is required to develop a final independent project incorporating dance with his or her focused study. Dance students must continue to take at least one technique course each semester. At the end of the third semester faculty will determine if appropriate progression has been made for continuation in the B.A. Dance Studies track.

#### Coursework to be taken at USF

##### Studio Technique (20 semester hours)

DAA 3108	Modern II	(6)
DAA 3208	Ballet II	(6)
DAA 3109	Modern III	(6)
or		
DAA 3209	Ballet III	(6)
DAA 3394	World Dance	(2)

##### Creative Studio Studies (13 semester hours)

DAA 3624	Dance Improvisation	(2)
DAA 3614	Choreography I	(2)
DAA 3615	Choreography II	(2)
DAA 4616	Choreography III	(2)
DAA 4617	Choreography IV	(2)
DAA 3686	Jr. Performance Project*	(1)
DAA 4685/3654	Performance/Repertory*	(1)
DAN 4906	Independent Research Project	(1)

\*Concurrent enrollment in Dance Technique

##### Dance Theory (23 semester hours)

DAN 2160	Entry Seminar	(2)
DAN 3614	Music for Dance I	(2)
DAN 3615	Music for Dance II	(2)
DAN 3714	Dance Kinesiology	(3)
DAN 4134	Dance History Through the 19th Century	(3)
DAN 4135	20th Century Dance History	(3)
DAN 4162	Research in Dance	(2)

DAN 4181	Dance Senior Seminar	(2)
TPA 2211/2291L	Introduction to Technical Theatre II/ Technical Theatre Lab II	(4)
Focused Electives	(15-17 semester hours)	

#### B.S. Degree in Dance Education

The Dance Education Curriculum is currently suspended. See the Director of the School of Theatre & Dance for further information. It is recommended that students seeking to become teachers obtain a B.A. in Dance Studies with specialization in Education.

#### Requirements for the Dance Minor

The Dance Minor is designed to provide students with a scope of experiences in dance that include studio technique, creative studio studies and dance theory. The student selecting a Dance Minor should arrange to meet with the academic advisor in dance prior to enrolling for classes.

##### Studio Technique (10 semester hours)

Select 10 credits from:

DAA 2205	Ballet I	(2)
DAA 3208	Ballet II	(3)
DAA 3209	Ballet III	(3)
DAA 4211	Ballet IV	(4)
DAA 2105	Modern Dance I	(2)
DAA 3108	Modern Dance II	(3)
DAA 3109	Modern Dance III	(3)
DAA 4111	Modern Dance IV	(4)
DAA 2504	Jazz Dance	(2)
DAA 4930	Special Topics in Dance	(2)

(Studio Dance courses may be repeated once toward the Dance Minor.)

##### Creative Studio Studies (4 semester hours)

Select 4 credits from:

DAA 3624	Dance Improvisation	(2)
DAA 3614	Choreography I*	(2)
DAA 3615	Choreography II*	(2)

\*Music for Dance is a pre-requisite for Choreography and instructor approval.

##### Dance Theory (6 semester hours)

Select 6 credits from:

DAN 2100	Introduction to Dance	(3)
DAN 4134	Dance History Through the 19th Century	(3)
DAN 4135	20th Century Dance History	(3)

##### Dance Electives (4 semester hours)

**TOTAL 24**

#### Critiques

1. All students will be evaluated periodically by the faculty and critiqued each semester and will participate in progress conferences with the faculty.
2. If a student evidences deficiency in some area or in continuing progress toward the degree, the student may be placed on probation within the Dance program.
3. Failure to make satisfactory progress after being placed on probation shall constitute grounds for program recommendation to drop and discontinue the major.

#### Minimum Grade for Dance Courses

A student must receive a "C" grade or better in required courses for Dance Majors. Should a student fail to do so, the course(s) in which the student receives "D" or "F" must be repeated and a "C" grade or better earned. Note: The student choosing a Dance Minor must achieve a "C" or better in all courses applied to the minor in dance.

#### Additional Standards

In addition to meeting the specific requirements and standards discussed above, the student and advisor will periodically evaluate the student's general progress. Students are required to meet with the Academic Advisor in Dance each semester. An unsatisfactory rating in one or more of the following areas could place the student on probation. A student

on probation is given a specific amount of time to achieve a satisfactory rating before being dropped from the major program. The criteria include:

1. Appropriate academic progress.
2. Adequate technical skills and adaptability.
3. "B" average in major studio classes.
4. Physical conditioning that includes: nutrition, flexibility, strength, and healthful weight management necessary to facilitate safe technical and artistic expression.
5. Class probation and program probation require review, i.e., reinstatement in good standing or recommendation to drop major.

For other non-major requirements see both Visual and Performing Arts College requirements and the university's General Distribution and graduation requirements.

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

The School of Theatre & Dance believes in the ongoing influence of guest artists as choreographers, teachers for master classes, residencies and performers. The programs provide numerous opportunities to enhance the students' artistic awareness of professional possibilities.

## **• MUSIC (MUS)**

The music curriculum is designed for students gifted in the performance and/or composition of music. Applicants for a major in music are required to pass an entrance audition in their respective performance areas. Composition applicants are required to submit appropriate scores and/or tapes of their compositions for faculty appraisal in addition to passing an entrance audition.

Academic programs offered in the Bachelor of Music degree include the areas of Performance (voice, piano, piano pedagogy, and orchestral instruments), Composition (acoustic and electronic), Electronic Music (including acoustic), and Jazz Studies (composition and performance).

The B.S. degree in Music Education is designed to serve students who wish to develop a high level of musical expertise and have a commitment to help develop musical potentials in other people.

The B.A. degree in Music Studies is a liberal arts degree with a greatly reduced number of credit hours in music. It allows students to pursue a double major and/or a minor in another field. The B.A. is offered with a choice of emphasis in performance, composition, music history, or music theory.

### **Acceptance into the School of Music**

Students must apply for acceptance into the USF School of Music if they are an incoming freshman, transfer student, or part-time student and plan to (1) major in any undergraduate or graduate music degree program; (2) minor in music; or (3) take applied lessons as a non-major for more than one credit hour. Contact the Coordinator of Auditions.

Applying for acceptance by audition into the School of music is a separate procedure from the University admissions process, and is not contingent upon status of the University application process. If a student is accepted into the School of Music but is denied acceptance into the University, he or she may contact the School for assistance in appealing this decision.

### **Auditions**

**Audition Procedure:** All students must audition before a committee consisting of the appropriate music faculty members or must audition directly before a major ensemble conductor and the prospective studio instructor. Campus audition dates are scheduled each year during February and March for Fall admission to the School of Music. Auditions for Spring admission are scheduled during December juries. Taped auditions may be considered, but must be heard by the faculty committee or ensemble director as above. Composition and Electronic Music students must submit a portfolio as well as arrange an

audition. Note that scholarship consideration will be given for live auditions only.

### **Music Theory Placement Examination**

All freshmen and transfer music students are required to take a Music Theory Placement Examination. For placement in the Written and/or Aural Theory sequence, placement tests are given on the first day of classes each semester from 9:00 to 10:30 a.m. in FAH 120. This test is evaluated by the Theory Coordinator and an appropriate score for placement is determined. The results of the exam will indicate the level of theory to which the student will be assigned.

An advanced placement into the second semester of the Theory sequence is available with a score of 4 or 5 on the Advanced Placement Program conducted by the College Entrance Examination Board.

### **Transfer Policy**

USF evaluates and transfers credits from other institutions the student has attended. To insure that transfer credits are properly applied toward the degree program, the issue should be discussed with the music advisor (CVPA advising office, FAH 120). Personal copies of transcripts (in addition to those sent to USF) of all past course work and a copy of a catalog from the institution(s) at which the credits were earned should be shown to the advisor. This will help to credit the maximum application of course work completed at other institutions to a USF degree. Credits applicable to the degree will be transferred only if they have grades of "C-" or better.

All incoming students must audition for acceptance into the School of Music and for placement in the applied music studio. Additionally, they must take placement tests in written theory, aural theory, and keyboard skills in order to receive advice for appropriate registration.

Theory courses taken in Florida public community colleges and the Florida State University System automatically transfer and substitute for the equivalent courses at USF.

Community college students are encouraged 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 a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student 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. This is a non-limited access program with the above courses recommended.

### **Applied Music Requirement Policy**

The following degree requirements must be completed in applied music:

#### **B.M. in Performance (including Jazz Studies and Piano Pedagogy emphasis)**

Minimum of 24 hours, including a minimum of two semesters (6 hours) at the 4000 level.

#### **B.M. in Composition (including Jazz Studies)**

Minimum of 8 hours of applied music principal, including a minimum of two semesters at the 2000 level or higher.

#### **B.S. in Music Education**

Minimum of 12 hours of applied music principal, including a minimum of two semesters at the 3000 level.

First-time-in-college (FTIC) students generally will be placed at the 1000 applied music level; transfer students will be evaluated by the faculty Audition Committee and placed at the appropriate level. All students will be promoted to their next level of instruction upon the recommendation of their applied

music teacher and successful completion of a performance examination (jury) by area applied music faculty. This examination may be scheduled at the conclusion of any semester, but definitely will occur at the end of spring semester.

Where it is appropriate for the degree, the student is required to complete a minimum of one semester, but no more than three semesters at the 2000 or 3000 applied music levels. Failure to complete the 2000 or 3000 applied music level, by the recommendation of the applied teacher and jury members, within the three semester maximum brings automatic dismissal from the music program.

Music Education majors may repeat the 3000 applied music level until the junior recital is given, and performance majors may repeat the 4000 applied music level until the senior recital is given and the necessary amount of applied credits have been earned.

Performance majors may repeat the 4000 applied music level as necessary to fulfill the 24 credit hour degree requirement. No more than two semesters of study at the freshman, sophomore, or junior levels will be counted toward credit hour requirements for an undergraduate degree in performance.

Applied music courses consist of private lessons (time to be arranged between the student and faculty member) as well as scheduled studio meetings. All undergraduate students enrolled in applied music are required to be enrolled concurrently in at least one appropriate major ensemble corresponding to the applied major.

### Piano Proficiency Requirement Policies

All Music Majors (other than Piano Performance and Jazz Studies majors) must demonstrate proficiency on the piano, as established by the syllabi for Keyboard Skills I-IV, in order to graduate. They may do this in one of three ways:

1. A Piano Proficiency Placement Exam, whereby students are expected to demonstrate technical and musical skills through performance of repertoire, scales, arpeggi, harmonization, improvisation and sight-reading. (Sign-up sheets for this exam are posted outside FAH 217 during the first week of classes.) For students who do not pass this exam, the School of music offers four levels of Keyboard Skills courses as electives. Students will be placed in the level indicated by their exam performances. Ultimately, a grade of "C-" or better in Level IV satisfies the Piano Proficiency Requirement.
2. If the music advisor determines that a student does not have a background to be placed beyond Keyboard Skills Level I, they will advise the student to register for Level I and no exam will be necessary.
3. A student who feels that he or she has acquired the necessary skills to meet the Piano Proficiency Requirement (either through accelerated practice or private lessons) may also sign up for the Piano Proficiency Placement Exam the first week of any semester and demonstrate their acquired skills to the Keyboard Skills Coordinator. If a student passes this exam, the Piano Proficiency Requirement will be met.

Jazz Studies majors must satisfy the Jazz Piano Proficiency requirement through a placement test administered by the jazz faculty after completing the Jazz Theory and Improvisation II.

### Recital Attendance Requirement

All music majors and minors are expected to attend recitals throughout the duration of their degree program. Performance (jazz and traditional) majors and composition majors are required to attend a minimum of 80 recitals. Music education majors are required to attend a minimum of 60 recitals. Music minors are required to attend a minimum of 20 recitals. It is recommended that students attend an average of 10 to 15 recitals each term. Transfer students will have the attendance requirement pro-rated according to their studio level placement, allowing for 10 recitals to be credited for every term waived.

Students should sign programs they attend and turn them in to the music office with their name and student I.D. number on each program. The purpose of this requirement is to ensure that music students hear a variety of student, faculty and other professional-level performances. Students should register for MUS 2010, Recital Attendance, in the term in which they expect to complete the requirement. The course is graded S/U and is required for graduation.

### Major Performing Ensembles

To fulfill major ensemble requirements, music majors and minors may use the ensembles listed on the music advising website. All students enrolled in applied music for 2 or 3 hours are required to enroll in a major ensemble appropriate for their performance medium.

A list of approved major ensembles is provided on the music advising website.

Upper division BM voice performance majors may take up to two semesters of opera as a major ensemble.

Upper division voice principals in the BS degree program in Music Education or the BA degree program in Music Studies (applied emphasis) may take up to one semester of opera as a major ensemble.

Students who elect to take applied music beyond their minimal degree requirements will have the option of enrolling in either choral ensembles or in opera.

### Minimum Grade for Music Courses

All music majors and minors must earn at least a "C-" in every music course required for their degree program. Music education students must earn at least "C-" in all required music, music education, and education courses. Registration in required music courses resulting in grades of "D" or "F" must be repeated. Sequel courses may not be taken until prerequisites are satisfied with appropriate grades or waivers.

### Standardized Tests

All music students must complete an appropriate standardized test as a part of their senior seminar experience. Presently, all composition, jazz studies, music education, and performance students take the ETS Major Field Test in Music.

## The B.M. Degree (Performance, Composition and Jazz Studies)

### Prerequisites (State Mandated Common Prerequisites)

Transfer 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 a Florida community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C-" is the minimum acceptable grade. If students are coming to the university from a community college, the following prerequisite courses will be accepted as meeting lower level requirements.

- MUT 1111 Music Theory  
or MUT 1121, 1122, 2126, or 2127
- MUT 1112 Music Theory  
or MUT 1121, 1122, 2126, or 2127
- MUT 2116 Music Theory  
or MUT 1121, 1122, 2126, or 2127
- MUT 2117 Music Theory  
or MUT 1121, 1122, 2126, or 2127
- MUT 1241 Aural Theory  
or MUT 1221, 1222, 2226, 2227, 1261, 1261,  
2266, 2267, 1271, 1272, 2276, or 2277
- MUT 1242 Aural Theory  
or MUT 1221, 1222, 2226, 2227, 1261, 1261,  
2266, 2267, 1271, 1272, 2276, or 2277
- MUT 2246 Advanced Aural Theory  
or MUT 1221, 1222, 2226, 2227, 1261, 1261,  
2266, 2267, 1271, 1272, 2276, or 2277

MUT 2247 Advanced Aural Theory  
 or MUT 1221, 1222, 2226, 2227, 1261, 1261,  
 2266, 2267, 1271, 1272, 2276, or 2277  
 MUNXXXX Chamber Music Ensemble, 4 semester hours  
 MVX1X1X Secondary Applied Music Courses,  
 2-4 semester hours  
 MVX2X2X Secondary Applied Music Courses,  
 2-4 semester hours  
 Secondary Piano Proficiency by Examination  
 or MVK 1111, 1112, and 2122  
 or MVK 1111r, 1112r, 2121r, and 2121r  
 or MVK 1211 and 2221

Electives: Music credits beyond those required may be used as program electives.

### **Core Requirements for all Performance, Composition, and Electronic Music Concentrations**

#### *Music Theory (22)*

MUT 1111 (3)	MUT 2116 (3)	MUT 4571 (3)
MUT 1112 (3)	MUT 2117 (3)	MUT 4411 (3)
MUT 1241 (1)	MUT 2246 (1)	or
MUT 1242 (1)	MUT 2247 (1)	MUT 4421 (3)

#### *Music Literature (3)*

MUL 2111 (3)\*

\*This course also satisfies 3 hours of Historical Perspectives in the Liberal Arts Curriculum.

#### *Music History (8)*

MUH 3301 (3)\* MUH 3302 (3)\*  
 MUH 3300 (2) or MUH 4058 (3)\* or MUH 4801 (3)

\*This course also satisfies 3 hours of Liberal Arts Exit Requirements in Major Works/Major Issues.

#### *Conducting (2)*

MUG 3104

#### *Senior Seminar (1)*

MUS 4935 (1)  
 MUS 2010 Recital Attendance (0)

#### *Ensemble*

Performance Majors (8), Composition (4)

All students enrolled in applied music for 3 or 2 credit hours are required to enroll in a major ensemble appropriate to their performing medium.

*Music Electives* (12-13 hours)

*CVPA Requirement* (3 hours)

Music majors should take one 3-hour CVPA course certified in Historical Perspectives or one 3-hour CVPA course certified in the Fine Arts section of the Liberal Arts Requirements in order to graduate within 120 semester credit hours. These courses must be taken in the Schools of Art and Art History and/or Theatre and Dance, not in the School of Music.

### **Core Requirements for Jazz Studies**

#### *Music Theory (26)*

MUT 1111 (3)	MUT 2116 (3)	MUT 2641 (2)
MUT 1112 (3)	MUT 2117 (3)	MUT 2642 (2)
MUT 1241 (1)	MUT 2246 (1)	MUT 3353 (3)
MUT 1242 (1)	MUT 2247 (1)	MUT 3354 (3)

#### *Music Literature (3)*

MUL 2111 (3)\*

\* This course also satisfies 3 hours of Historical Perspectives in the Liberal Arts Curriculum.

#### *Music History (9)*

MUH 3301 (3)\* MUH 3302 (3)\* MUH 4801 (3)

\* This course also satisfies 3 hours of Liberal Arts Exit Requirements in Major Works/Major Issues.

#### *Conducting (2)*

MUG 3104

#### *Senior Seminar (1)*

MUS 4935 (1)  
 MUS 2010 Recital Attendance (0)

#### *Ensemble:*

Performance (8), Composition (8)

All students enrolled in applied music for 2 or 3 hours are required to enroll in a major ensemble appropriate for their performing medium.

*Music Electives* (12-13 hours)

*CVPA Requirement* (3 hours)

Music majors should take one 3-hour CVPA course certified in Historical Perspectives or one 3-hour CVPA course certified in the Fine Arts section of the Liberal Arts Requirements in order to graduate within 120 semester credit hours. These courses must be taken in the Schools of Art and Art History and/or Theatre and Dance, not in the School of Music.

### **Additional Requirements for Specific Concentrations**

#### **Performance Concentration**

All performance majors are required to take a total of 24 credit hours of applied music major with a minimum of 6 hours to be completed at the 4000 level.

Voice performance majors must enroll in MUS 2201 for a total of 3 credits as part of their Music Electives.

Voice performance majors are required to be competent at the beginning level of French, German, and Italian languages in addition to taking foreign language diction classes offered in the School of Music. Proficiency tests are administered by the Department of World Language Education. If needed, courses 1120 (4 credit hours) and 1120L (lab for 1 credit hour) in each language may be taken in the College of Arts and Sciences for up to 15 credit hours to meet the foreign language proficiency requirement.

Upper division BM voice performance majors may take up to two semesters of opera as a major ensemble. Students who elect to take applied music beyond their minimal degree requirements will have the option of enrolling in either choral ensembles or in opera.

Performance majors in piano are required to enroll in MVK 4640 for 4 credits as a part of the Music Electives.

The following requirements for the piano pedagogy emphasis are to be taken as a part of the Music Electives:

MVK 4640 (4) MVK 4641 (4)

#### **Recital Scheduling Procedures and Policies**

**JUNIOR RECITAL/APPLIED MUSIC:** A public recital, either solo or shared, will be given during the student's junior year. The student should have achieved junior classification as defined by the university and should be enrolled at the 3000 level in applied music, which would normally occur during a student's third year of study. Credit may be granted to transfer students for junior recitals completed at other institutions. This recital should have been completed during the student's junior year at that institution and a request for recognition of that recital should be made in writing to the applied music coordinator. No studio teacher is under any obligation to accept these transfer recitals.

**SENIOR RECITAL/APPLIED MUSIC:** A public recital will be given during a student's senior year. The student should have achieved senior classification as defined by the university and should be enrolled at the 4000 level in applied music, which would normally occur during a student's fourth year of study. A senior recital performed at another institution will not satisfy graduate requirements for USF. The recital must be performed on the USF campus and the student must be enrolled in the studio of a USF faculty member during the term of said recital unless written permission to deviate from this policy is obtained from the School of Music Director.

**GRADUATING RECITAL/MUSIC EDUCATION:** A public recital will be given during the student's last year of applied music study. The student should have achieved junior classification as defined by the university and should be enrolled at the 3000

- EDF X005 Introduction to Education 3
- EDG 2701 Teaching Diverse Populations 3
- EME 2040 Introduction to Educational Technology 3
- Nine (9) semester hours in English to include writing, literature, and speech
- Nine (9) semester hours in science to include earth science, life science, and physical science, with a minimum of one associated laboratory
- Nine (9) semester hours in mathematics to include college algebra or above and geometry
- Twelve (12) semester hours in social sciences to include American history and general psychology
- Six (6) semester hours of courses with an international and/or diversity focus (in addition to EDG 2701). If these courses are taken elsewhere, the institution transferring credit to

USF must certify that the course content satisfies the international/diversity focus requirement.

- Three (3) semester hours in Philosophy
- Three (3) semester hours in Fine Arts

A maximum of 9 credits of "S" grade for non-Gordon courses is allowed for the degree.

MUT x111 Music Theory  
or MUT x121, x122, x126, or x127  
MUT x112 Music Theory  
or MUT x121, x122, x126, or x127  
MUT x116 Music Theory  
or MUT x121, x122, x126, or x127  
MUT x117 Music Theory  
or MUT x121, x122, x126, or x127  
MUT x241 Aural Theory  
or MUT x221, x222, x226, and x227  
or MUT x261, x262, x266, and x267  
or MUT x271, x272, x276, and x277  
MUT x242 Aural Theory  
or MUT x221, x222, x226, and x227  
or MUT x261, x262, x266, and x267  
or MUT x271, x272, x276, and x277  
MUT x246 Advanced Aural Theory  
or MUT x221, x222, x226, and x227  
or MUT x261, x262, x266, and x267  
or MUT x271, x272, x276, and x277  
MUT x247 Advanced Aural Theory  
or MUT x221, x222, x226, and x227  
or MUT x261, x262, x266, and x267  
or MUT x271, x272, x276, and x277  
MUNXXXX 4 semester hours  
MVxX1X1 Secondary Applied Music Courses,  
2-4 semester hours  
MVxX2X2 Secondary Applied Music Courses,  
2-4 semester hours  
Secondary Piano Proficiency by Examination  
or MVK x111, x112, x121 and x122  
or MVK x111r, x112r, x121r  
or MVK x211 and x221

This is an official state teacher education program. All music education students must demonstrate teaching proficiency upon completion of MUE 2090 in order to continue in the program. Students remain coded as pre-music education (MPE) until all degree admission requirements have been met. Among those requirements are the following:

- pass a presentation component upon completion of MUE 2090
- "B-" average in any two aural music theory courses
- overall 3.0 GPA
- favorable recommendation from private instructor on performance potential
- pass State background check for teachers
- Until admission into the program, the following courses cannot be taken:  
MUE 3421 MUE 3422 MUE 3423  
MUE 4311 MUE 4331 MUE 4332  
MUE 4480 MUE 4936 MUE 4940  
MUS 4930

ALL General Education courses, lower-level education courses, and examinations required by the College of Education must be completed for official admission to the BS degree program in music education. The FTCE (Florida Teacher Certification Exam), which includes the GKT (General Knowledge Test), the PEd (Professional Education Exam), and the SAE (Subject Area Examination in Music) must be taken before entering the internship and successfully completed for the degree and for Florida teacher certification. A copy of the GKT results must be given by the student to the College of Education Internship Office immediately upon receipt.

Liberal Arts Exit requirements in Major Works/Major Issues are satisfied by music courses. The Literature & Writing course is waived by USF for teacher education music majors.

Gordon Rule Communication requirements (12 credit hours in ENC 1101, 1102, PHH 2000, and MUL 2111) and Computation requirements (6 credit hours) are satisfied through General Education courses.

The CVPA requirement for a course in art, dance, or theatre is waived for teacher education music majors.

The minimum acceptable grade for music, music education, education, and Gordon courses is "C-." The GPA in both specialization courses (music) and professional courses (music education and education) must be 2.5 in order to graduate.

### **MUSIC (48 credit hours)**

Music Theory	12
MUT 1111, 1112, 2116, 2117 (MUT 1112 is the prerequisite for MUG 3104 and MUL 2111)	
Aural Theory	4
MUT 1241, 1242, 2246, 2247	
Keyboard Skills	0-8
MVK 1111, 1121, 2111, 2121	
Proficiency required by testing or course(s)	
MUG 3104 Basic Conducting	2

### **Music Literature and History**

MUL 2111 Introduction to Music Literature (FA) *	3
MUH 2051 Folk and Traditional Music of World Cultures (ALAMEA) *	3
MUH 3301 Baroque and Classic (MW/MI)	3
MUH 3302 Romantic through Contemporary (MW/MI)	3
Applied Principal (Studio) (2 terms each level)	12
MVx 131X, 232X, 333X (culminating in junior recital)	
MUN 3XXX Major Ensemble	6
concurrent registration with studio	
Upper division voice principals may take up to one semester of opera as a major ensemble.	
MUS 2101 Recital Attendance	0
attendance at minimum 60 programs	

### **MUSIC EDUCATION (37 cr. hrs.) & EDUCATION (12 cr. hrs.)**

Methods courses include (1) curriculum and instruction, (2) human development and learning, (3) classroom management, (4) assessment through measurements, (5) teaching exceptional students with varied learning styles and achievement levels.

MUE 2090 Theoretical Bases of Music Education	3
EDG 2701 Teaching Diverse Populations and Field Experience	3
EME 2040 Introduction to Educational Technology (or course in computer applications in music education)	3
FLE 4365 ESOL Competencies and Strategies	3
RED 4310 Reading and Learning to Read	3
MUS 4930 Selected Topics in Music (see Advisor)	2
MUE 3421 Choral Techniques and Pedagogy (1+1)	2
MUE 3422 Wind Techniques and Pedagogy (2+2)	4
MUE 3423 String Techniques and Pedagogy	2
MUN 3313 University Singers	1
or	
MUN 3343 Chamber Singers (by audition)	
MUS 4931 Selected Studio Topics in Music (See Advisor)	1
or	
MUN 3443 Percussion Ensemble	
MUE 3930 Music Education Forum (1x3)	3
MUE 4311 K-12 General Music Methods and Practicum (includes pre-internship)	4
MUE 4331 Choral Methods in the Secondary School (includes pre-internship)	3
or	
MUE 4332 Instrumental Music in the Secondary School (includes pre-internship)	3

## 206 COLLEGE OF VISUAL AND PERFORMING ARTS

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

MUE 4480 Special Ensemble Methods (may be repeated to enroll in other sections) 001 - Marching Band Methods 002 - Jazz in the Public Schools 003 - World Music Methods	2-6
MUE 4936 Senior Seminar (includes taking the ETS Major Field Test in Music)	2
MUE 4940 Internship	8

### Requirements for the B.A. Degree in Music Studies (MSU)

#### Prerequisites (State Mandated Common Prerequisites)

Transfer 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 a Florida community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C-" is the minimum acceptable grade. If students are coming to the university from a community college, the following prerequisite courses will be accepted as meeting lower level requirements.

MUT x111 Music Theory or MUT x121, x122, x126, or x127	
MUT x112 Music Theory or MUT x121, x122, x126, or x127	
MUT x116 Music Theory or MUT x121, x122, x126, or x127	
MUT x117 Music Theory or MUT x121, x122, x126, or x127	
MUT x241 Aural Theory or MUT x221, x222, x226, x227, x261, x261, x266, x267, x271, x272, x276, or x277	
MUT x242 Aural Theory or MUT x221, x222, x226, x227, x261, x261, x266, x267, x271, x272, x276, or x277	
MUT x246 Advanced Aural Theory or MUT x221, x222, x226, x227, x261, x261, x266, x267, x271, x272, x276, or x277	
MUT x247 Advanced Aural Theory or MUT x221, x222, x226, x227, x261, x261, x266, x267, x271, x272, x276, or x277	
MUNXXXX 4 semester hours	
MVXxX1X Secondary Applied Music Courses, 2-4 semester hours	
MVXxX2X Secondary Applied Music Courses, 2-4 semester hours	
Secondary Piano Proficiency by Examination or MVK x111, x112, and x122 or MVK x111r, x112r, x121r, and x121r or MVK x211 and x221	

#### Core (36 credit hours)

##### APPLIED STUDIES IN MUSIC

Completion of sophomore level in studio (Principal, not Major)	8
Four terms in major ensemble	4
MUG 3104 (conducting) or MUT 2641 (jazz theory & improvisation)	2

##### ACADEMIC STUDIES IN MUSIC

Four terms of theory (written and Aural). Placement Test is required. Written: MUT 1111, 1112, 2116, 2117; Aural: MUT 1241, 1242, 2246, 2247	16
Excluding Rudiments MUT 1001 (must be taken if required)	
Literature and History: MUL 2111, and MUH 3301 or 3302	6

#### MUSIC EMPHASIS (CHOOSE ONE) (9 credit hours)

1. <b>Applied Music</b> Completion of junior level in studio, including junior recital	4
Three additional terms of major ensemble	3

Upper division voice principals may take up to one semester of opera as a major ensemble.

MUG 4302 (conducting) or MUT 2642 (jazz theory & improvisation)	3
2. <b>Music Composition (MUC)</b> Three additional courses: MUC 2221 (twice) and MUC 2301	9
3. <b>Music History (MUH)</b> Three additional courses: MUH 2051 or 2632, MUH 3301 or 3302, and MUH 4058 or 4801	9
4. <b>Music Theory (MUT)</b> Three additional courses of MUT 4421, 4571, and MUC/MUT course	9

#### KEYBOARD SKILLS & OTHER MUSIC ELECTIVES

Excluding non-major music courses 4-6  
Piano proficiency is required and may be demonstrated by testing or by taking levels 1 and 2 of Keyboard Skills as electives in music. Other courses for electives may be selected from applied music (including conducting, ensembles, additional keyboard skills levels, and studio), music composition, music education, music history, music literature, and music theory.

#### RECITAL ATTENDANCE

Students register for Recital Attendance (MUS 2010) only in the semester in which they will complete a minimum total of 60 to receive an "S" grade (0 credit hours). Students keep records in FAH 136 office. 10-15 recitals per term.

#### CVPA Requirement (6 hours)

Music majors should take one 3-hour CVPA course certified in Historical Perspectives and one 3-hour CVPA course certified in the Fine Arts section of the Liberal Arts Requirements in order to graduate within 120 semester credit hours. These courses must be taken in the Schools of Art and Art History and/or Theatre and Dance, not in the School of Music.

### Requirements for a Minor in Music

Students seeking a minor in music may choose from three concentrations, each with a minimum of 19-23 semester hours required: (1) History-Theory-Literature, (2) Applied Medium and (3) Composition. Each of the concentrations will include the same core curriculum consisting of 11 hours. A minimum of 8 hours for the minor must be earned at USF.

1. <b>CORE CURRICULUM</b>	11 hours
Music Theory	(8)
Introduction to Music Literature	(3)
or	
Music History (non-major courses excluded)	(3)
2. <b>OPTIONAL CONCENTRATIONS</b>	
a. History-Theory-Literature	9-10 hours
An audition is not required.	
Music History and/or Theory and/or Literature	(7-8)
Music Ensemble	(2)
MUS 2010 Recital Attendance	(0)
b. Applied Music (Principal)	8-12 hours
Acceptance by audition into the School of Music is required.	
Performance Studio courses which may include up to 2 semester hours of class-studio	(6-8)
Music Ensembles	(2-4)
MUS 2010 Recital Attendance	(0)
Faculty jury recommendations for sophomore-level studio study (minimum)	
c. Composition	9 hours
Acceptance by audition into the School of Music is required.	
Introduction to Electronic Music	(2)
Composition Studio courses which may include one course of orchestration	(6)
Music Ensemble	(1)
MUS 2010 Recital Attendance	(0)
3. <b>Admission</b> to all composition and studio applied music courses is by audition and/or permission of the instructor.	

Studio courses may be repeated for credit as stipulated in the catalog.

## Requirements for a Minor in Electronic Music

Students seeking a minor in electronic music must be proficient in basic music theory. They may establish their proficiency either by taking the Theory Placement Test and placing in Music Theory I, MUT 1111, or by completing Rudiments of Music, MUT 1001, with a minimum grade of "C-". A minimum of 8 hours for the minor must be earned at USF.

### STUDIES IN ELECTRONIC MUSIC (in the following sequence)

MUC 2301 Introduction to Electronic Music	3
MUC 3401 EM: Analog Synthesis I	3
MUC 3402 EM: Analog Synthesis II	3
MUC 3441 EM: Digital Synthesis I	3
MUC 3442 EM: Digital Synthesis II	3

### ELECTIVES IN MUSIC (may be concurrent with EM courses)

Excluding non-major music courses 4-6

*Taken from applied music (including ensembles), music composition, music education, music history, music literature, and music theory.*

### The Faculty

The music faculty is made up of outstanding musicians and scholars whose talents and achievements provide a unique educational resource for all music students. Faculty ensembles such as the Faculty Chamber Players and the Faculty Jazz Combo provide an important musical contribution to campus and Tampa area cultural life, and many music faculty perform in professional music ensembles across west central Florida.

### Student Organizations

The Music organizations of Sigma Alpha Iota, Phi Mu Alpha Sinfonia, and Pi Kappa Lambda, the honorary music organization, maintain active chapters in the School of Music. Additionally, chapters of the College Music Educators National Conference, American Choral Directors Association, Kappa Kappa Psi Band Fraternity and the International Association of Jazz Educators provide an important liaison with other professional musicians and teachers.

### Visiting Scholars, Artists, and Artists-in-Residence

The School of Music utilizes guest composers, conductors, and performing musicians to enhance its offerings in terms of teaching faculty, forum appearances, and the conducting of musical programs, symposia, and clinics. Some prominent musicians and scholars who have appeared in the past are: Norman Dello Joio, Olly Wilson, Randall Thompson, Guarneri String Quartet, Virgil Thompson, Beaux Arts Trio, Walter Trampler, Boris Goldovsky, Fred Hemke, Gregg Smith, Lukas Foss, Norman Luboff, Maurice Andre, Phil Woods, Jean Pierre Rampal, David Baker, Adele Adison, John Cage, Byron Janis, Karel Husa, Louis Bellson, Leslie Bassett, David Samuels, Samuel Adler, Julius Baker, Gunther Schuller, Ransom Wilson, Robert Merrill, T. J. Anderson, Doc Severinsen, Hale Smith, Bethany Beardslee, George Russell, Robert Shaw, Art Blakey, Toshiko Akiyoshi, Andre Watts, Christopher Hogwood, Howard Gardner, Edwin Gordon, Peter Webster, Bennett Reimer, David Elliott, Elliot Eisner, Doreen Rao, Jo-Michael Scheibe, La Camerata Romeu, Libby Larsen, John Faddis, Evan Chambers, Elliot Antokoletz, Benjamin Suchoff, Peter Bartok, and Richard Colwell.

### Financial Aid

#### Scholarship and Talent Award Guidelines

The School of Music offers a variety of financial aid programs to assist talented musicians in their musical studies. Two types of awards – Scholarships and Talent Awards – are in place, each with its own set of criteria. Scholarship awards will

be automatically renewed every year (four years for entering Freshmen or until the anticipated graduation date of transfer students) upon the request of the student and maintenance of the standards (described below) established by the School of Music. Talent Awards must be renewed every semester via approval of the ensemble director. Awards typically are made on the basis of excellence in musicianship and/or personnel needs in a particular performance area. Financial assistance programs include up to four-year scholarship commitments and/or per-semester talent awards. All entering transfer, and returning students intending to participate in a major ensemble are eligible to apply and audition for a financial award.

The audition committees will make recommendations to the appropriate ensemble director. These recommendations may include a suggested award amount and/or simply a designation as to the eligibility level of the student.

Final recommendations on the amount of the award given will be made by the appropriate ensemble director to the Director of the School of Music. These decisions will be based upon a variety of factors including: available budget, proven ability of student, ensemble/school needs, potential to succeed, letters of recommendation, and all academic records.

#### Talent Award

The student must enroll for credit and perform satisfactorily in the ensemble awarding the money. The student is not required to study in an applied studio, to be enrolled for 12 credit hours, to meet minimum academic standards or to be pursuing a music major or minor. All talent award recipients must request renewal directly from the ensemble director granting the award each semester. The director may request the student to re-audition or may choose not to renew the award.

#### Scholarship Award

- Student must be pursuing a music major or minor
- Student must maintain a minimum of 12 semester hours of course load in each semester
- Student must maintain a GPA of 2.5 overall and 3.0 in all music courses
- Student must enroll for credit in an applied music studio appropriate to the performing instrument
- Student must enroll for credit in the ensemble(s) appropriate to the performing instrument
- Students are often required to perform in two ensembles, depending upon the needs of the ensemble program.
- NOTE: All music students on scholarship will be required to perform up to two services per semester in reading/performing student composer projects as part of the expectations to maintain their music financial aid. These two services are not inclusive of rehearsals to prepare the student works should public performance be a part of the required services. The Coordinator of the Composition program or his/her designee will organize administration of the composition program and the student participation in required services.

**Continuing Students Scholarship:** All scholarship students who wish to continue to receive their awards must fill out a Continuing Scholarship Application Form in the Spring semester. Failure to do so may result in the reallocation of the scholarship to other students. Each student must also submit a performance evaluation sheet from their applied teacher and major ensemble director along with their request for renewal.

**Duration of Awards:** Scholarship awards are given to incoming freshmen for eight semesters. Length of award to transfer students will be determined after an evaluation of their transcript has projected a graduation date. Students may not continue to renew their scholarship beyond this point. They may, however, apply to an ensemble director for a talent award after this time. Talent awards may be renewed as many times as are deemed appropriate by the ensemble director.

**Revocation of Awards:** Scholarship awards may be revoked if students

- Fail to maintain full-time status (12 credit hours)
- Fail to maintain required GPA

Fail to participate in appropriate ensembles (as determined by applied teachers and ensemble directors)

Switch major area of study outside of music

Fail to perform satisfactorily in applied lessons or major ensemble(s)

Fail to maintain satisfactory progress in academic studies in music

Repayment of award will be sought from any student who drops out of school, drops out of ensemble/applied music participation, or fails to maintain 12 credit hours during a semester in which they have received an award.

Interning Music Education Students: A student, during his/her interning semester, may continue to receive scholarship monies (even though they may be unable to comply with the ensemble requirement) upon approval by the Director of the School of Music. The Director will, as a matter of course, seek the recommendation of the applied instructor and the Coordinator of Music Education.

## • THEATRE (TAR)

TheatreUSF is fully accredited by the National Association of Schools of Theatre (NAST). Through its curriculum and production program, Theatre offers seriously interested students the opportunity to prepare within a liberal arts atmosphere for a professional career in the theatre or to continue their studies at the graduate level.

For over 30 years, our exclusively undergraduate program has prepared critically aware and skilled theatre practitioners.

The school's mission is to educate students in the art of theatre, to conduct original research, and to present challenging productions to the university and Tampa Bay communities.

Students may graduate with a broad based theatre arts degree, or they may specialize in performance or design.

### Special Features

1. The endowed British International Theatre Program (BRIT) brings three or more professional artists from the UK to work with upper level students for up to 6-8 weeks each spring semester. The BRIT Program is available each spring semester to advanced theatre students by audition. The program consists of master classes and/or production experience with select guest artists from the U.K.
2. The John W. Holloway Endowed Chair in Dance and Theatre provides funds annually for guest artist residencies. The Holloway Program provides classes and production experiences with internationally renowned artists in design, directing, acting, writing, and musical theatre.
3. USF's Theatre program has a formal student Exchange Program with Middlesex University in London, England.
4. The School Honors Program allows small select groups of upper-division students to work on special projects with faculty and guest artists for up to one year. The Honors Program is available to upper level majors who have a 3.5 GPA in the major and a 3.2 overall GPA and who have achieved a comparably high level of artistic or scholarly achievement. A 6-8 credit one-year sequence of courses is offered to students accepted into the Honors Program. The sequence progresses from a reading seminar to a guest artist practicum to a student thesis or project. With approval of director and instructor, the entire Honors sequence may substitute for one of the Theatre History/Literature requirements.

Guest artists have been working professionals from New York, San Francisco, Denver, Los Angeles, Munich, London, Tel Aviv.

### Visiting Artists and Artists-in-Residence

TheatreUSF actively promotes guest artists on campus. A representative list of artists includes Maria Aitken, Peter Barkworth, Bill Bryden, Daniel Chumley, Russel Craig, Matthew Francis, George Froscher, Christopher Fry, John and

Lisel Gale, Patrick Garland, Ronald Harwood, Jeff Jones, Rachel Kavanaugh, Sam Mendes, Bob Moody, Eric Overmyer, Louise Page, Estelle Parsons, Olga Petrovna, Roni Pinkovitch, Denis Quilley, Gerlind Reinshagen, L. Kenneth Richardson, Lord Brian Rix, James Roose-Evans, Dorothy Tutin, Robert Wierzel, and Jose Yglesias. These and others have helped the department develop relationships with: UMO, London's West End, The Royal National Theatre, The Royal Shakespeare Company, The Actors' Studio, Broadway, San Francisco Mime Troupe, Free Theatre of Munich, The Chichester Festival, The Edinburgh Festival, The Spoleto Festival, Yale Repertory Theatre, and Habimah Theatre in Israel.

## Requirements for the B.A. Degree with a Major in Theatre

### Prerequisites (State Mandated Common Prerequisites)

For students transferring from a Community College: Students are encouraged 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 a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student 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. This is a non-limited access program with the courses below recommended.

Students need not have completed a concentration of courses in theatre in order to consider a Theatre major at USF. However, admission to the upper-level Theatre Performance program is by audition and admission to the upper-level Design sequence is by portfolio review. If the student does not succeed in passing the audition or portfolio review certain Theatre program requirements may have to be repeated until successful completion of the audition or portfolio review can be achieved.

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. A "C" average in the major is required for graduation.

If students are coming to the university from a community college, the following prerequisite courses will be accepted as meeting lower level requirements.

THE 2000 Introduction to the Theatre  
or any introductory course from 001-035 at the 1 or 2 level  
THE 2300 Script Analysis, 3 semester hours  
or THE 2305  
TPA 1290 Production Involvement, 1 semester hour  
or THE X925, 1 semester hour  
TPA 2200 Introduction to Technical Theatre I, 3 semester hours or TPA 2210, 3 semester hours  
TPP 1190 Studio Theatre-Cast, 1 semester hour  
or TPP 2190, 1 semester hour  
TPP 2100 Voice-Body-Improvisation, 3 semester hours  
or TPP 2210, 3 semester hours  
PLUS nine hours of any combination of THE, TPA and TPP courses.

The students may choose one of three areas for the B.A. degree: Performance, Design or Theatre Arts. Common to all is the following core, normally taken in the years indicated:

### Core Curriculum (33 hours)

#### First Year (14 hours)

THE 2020	Introduction to Theatre	(3)
TPP 2110	Voice-Body Improvisation	(3)
TPA 2200	Intro to Technical Theatre I	(3)
TPA 2290L	Intro to Technical Theatre Lab I	(1)
TPA 2211	Intro to Technical Theatre II	(3)
TPA 2291L	Intro to Technical Theatre Lab II	(1)

# COLLEGE OF VISUAL AND PERFORMING ARTS 209

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

## Second Year (8 hours)

THE 2305	Script Analysis	(3)
Choice of:		
THE 3110	Theatre History I -XMW or	(3)
THE 3111	Theatre History II -XMW and	(3)
TPA 2292	Production Involvement I	(1)
TPP 2190	Studio Theatre Performance I	(1)

## Third Year (8 hours)

Choice of two Theatre History/Literature:		
THE 3110	Theatre History I - XMW	(3)
THE 3111	Theatre History II -XMW	(3)
THE 4174	New British Theatre and Drama -6A-XMW-XLW	(3)
THE 4180	Theatre Origins -6A -XMW-XLW	(3)
THE 4320	Theatre of Myth and Ritual -6A-XMW-XLW	(3)
THE 4330	Shakespeare for the Theatre -6A-XMW-XLW	(3)
THE 4360	19 <sup>th</sup> Century Theatre Revolution -6A -XLW-XMW	(3)
THE 4401	American Drama -6A -XMW-XLW	(3)
THE 4434	Caribbean Theatre -6A -XMW-XLW	(3)
THE 4435	Theatre of Pluralism -6A -XMW-XLW	(3)
THE 4442	Comedy of Classic & Neoclassic Stage -6A-XLW-XMW	(3)
THE 4480	Drama Special Topics	(3)

Note: By prior agreement between the director and instructor the Honors sequence in its entirety (THE 4593, 4594, 4595) may substitute for one Theatre History/Literature course requirement.

TPA 4293	Production Involvement II	(1)
TPP 4193	Studio Performance II	(1)

## Fourth Year (3 hours)

THE 4562	Contemporary Performance Theory -6A-XMW-XLW	(3)
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Audition and Portfolio Review: All students desiring admittance into the upper level acting courses must audition and those entering the upper level design sequence must present a portfolio. This normally occurs after the completion of the sophomore year.

## REQUIRED COURSES FOR AREAS OF STUDY IN THEATRE

### Theatre Arts Concentration (BA Degree)

The Theatre Arts Concentration is intended for the student who, in consultation with the Theatre Advisor, wishes to construct his/her own degree program from a broad spectrum of theatre courses. In addition to courses in performance and design, areas of study available are Puppetry, Playwriting, Stage Management, Directing, Literature and Criticism.

General Education:	36
Language:	8-10
Exit courses:	9
Theatre core	33
	86 - 88

TPP Courses:	3
THE; TPA; TPP Courses	18
(9 must be at upper level)	
Free Electives	11-13
	32-34

Total Hours	120
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### Performance Concentration (BA Degree)

General Education:	36
Language:	8-10
Exit Courses:	9
Theatre Core:	33
	86-88

TPP 2500	Body Disciplines	3
TPP 3790	Voice Preparation for the Actor	3
TPP 3155	Scene Study	3
TPP 4180	Advanced Scene Study	3
TPP 4140	Styles of Acting	3
Additional TPP Courses		10
Free Electives		8
		33

Total Hours	120
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### Design Concentration (BA Degree)

General Education	36
Language:	8-10
Exit Courses:	

9	Theatre Core:	33
		86-88

TPA 3007	Introduction to Design I	3
TPA 3008	Introduction to Design II	3
TPA 3208	Drafting and CAD I	3

Plus TWO		
TPA 3231	Costume Construction	3
TPA 3221	Lighting Theory and Practice	3
TPA 3251	Drafting and CAD II	3
AND		
THE 4283	Architecture and Decor	3
THE 4264	Costume History	3
TPA 4011	Design Studio I	3
Free Electives		8-10
		32-34

Total Hours	120
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## Requirements for B.F.A. Degree with Theatre Design Concentration

Note: 1) Language requirement not applicable for B.F.A. degree; 2) With careful selection of General Education and Exit Courses the BFA may be achieved in 120 hours. See Advisor.

General Education:	36
Language:	Not Required
Exit Courses:	9
Theatre Core:	33
	78

TPA 3007	Introduction to Design I	3
TPA 3008	Introduction to Design II	3
TPA 3208	Drafting & CAD I	3

TPA 3231	Costume Construction	3
TPA 3221	Lighting Theory and Practice	3
TPA 3251	Drafting and CAD II	3
THE 4283	Architecture and Decor	3
THE 4264	Costume History	3
TPA 4011	Design Studio I	3
TPA 4012	Design Studio II	3
TPA 4013	Design Studio III	3
TPA 3296	Design Practicum	2
TPA 4298	Advanced Design Practicum	3
TPA Electives		2
Advised Other Electives		11
		51

Total Hours	129
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## Requirements for a Minor in Theatre

THE 2020	Introduction to Theatre	3
TPP 2110	Voice and Body Improvisation	3
TPP 2190	Studio Theatre Performance I	1
TPA 2292	Production Involvement I	1

TPA 2200	Intro to Technical Theatre I	3
TPA 2290L	Intro to Technical Theatre Lab I	1
TPA 2291	Intro to Technical Theatre II	3
TPA 2291L	Intro to Technical Theatre Lab II	1

A minimum of 7 credits chosen from THE; TPP; TPA courses with the approval of the advisor. All audition and portfolio requirements apply. A minimum of 12 credits must be taken in the USF School of Theatre & Dance.

## VISUAL & PERFORMING ARTS FACULTY

### Art and Art history

*Director:* W. Wilson; *Distinguished Professor - Dean Emeritus:* D. J. Saff; *Dean Emeritus - Professor Emeritus:* H. W. Covington; *Chair Emeritus-Professor Emeritus:* G. Pappas; *Professors:* C. P. Lyman, L. Marcus, M. A. Miller; *Associate Professors:* R. Boreila, E. A. Fraser, V. Hirt, R. Lawrence, B. Shanks, H. Szepe; *Assistant Professors:* W. Babcox, N. Bender, J. Byrd, E. Condon, G. Green, R. Lawrence, R. Marchi, A. Pollack, N. Schiller, J. Weitz; *Assistant in Media Technologies:* G. Maddison; *Assistant in Student Advising:* R. Olinger.

### Music and Music Education

*Director:* W. Weast; *Associate Director:* D. A. Williams; *Professors Emeriti:* V. A. Bridges, J. Heller, V. S. Jennings, W.D. Owen; *Professors:* V. Fung, S. N. Kluksdahl, R. M. McCormick, C. R. Owen, R. J. Summer, A. J. Wilkins; *Associate Professors:* K. T. Brantley, J. Carmichael, J.C. Coble, W. P. Hayden, W. W. Jaworski, S. H. Lee, K. McCormick, A. Y. Monroe, J. L. S. Moore, J. B. Moorhead, P. Reller, J. M. Reynolds, J. O. Robison, C. Rodriguez, C. E. Stuart, A. V. Summer, W.W. Wiedrich, D.A. Williams, R. Zielinski; *Assistant Professors:* K. Cho, W. Cho, M. Gackle, S. Ivanov, Z. Lang, M. Timpson.

### Theatre and Dance

*Director:* M. Powers; *Emeritus Professor:* P. Massie, N. Cole; *Professors:* D.M. Calandra, P. Finelli, B. W. Lee, C. Steele, G. W. Warren, L. Wimmer; *Associate Professors:* F. Green, S. Robinson, G.B. Stephens, J. Travers, D.K. Williams; *Assistant Professors:* B. Brewer, M. Foley, D. Mann; *Instructor:* D. Frankel, K. Glamsch, J. Winfield; *Lecturer:* J. Parks; *Academic Advisor/Instructor:* M. L. Morris.

# USF Lakeland

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

## USF Lakeland is the western entry to the Florida High Tech Corridor

Located 30 miles east of Tampa and 40 miles west of Orlando, just 10 miles south of the intersection of I-4 and Polk Parkway, the University of South Florida Lakeland (USF Lakeland) anchors the western entry to the emerging Florida High Tech Corridor (FHTC). FHTC is attracting high tech industry in Information Technology, Medical Technologies, Microelectronics, Modeling, Simulation and Training, and Optics and Photonics. USF Lakeland, a leader in the field of Information Technology, brings to the FHTC and you, the benefits of business partnerships, internships, research, and leadership in economic and workforce development.

USF Lakeland offers upper division (junior and senior) undergraduate and Master's degree programs and post-baccalaureate certificate programs. With a focus on the needs of a 21st century workforce, USF Lakeland embraces opportunities to develop new academic and certificate programs responsive to the needs of the emerging Florida High Tech Corridor and area hospitals, businesses, and community agencies. Full and part-time students have opportunities for daytime, evening, and weekend classes delivered in on-campus, off-campus, and online learning environments.

Established in 1986, USF Lakeland serves more than 3,000 students annually. USF Lakeland is dedicated to Excellence, Innovation, and Collaboration. Our faculty are nationally recognized scholars and practitioners who provide an active, engaging, and learner-centered academic environment. Our programs integrate research, inquiry, new technologies, and interdisciplinary perspectives to advance knowledge, promote creative enterprise, and develop highly skilled and globally competitive graduates. Our partnerships with communities, community agencies, schools, businesses, and industry enhance the welfare, vitality, and quality of living in the region and state.

## Education within your reach

USF Lakeland partners with local community colleges including Polk Community College (PCC), South Florida Community College (SFCC), Valencia Community College - Osceola (VCC-Osceola), and Hillsborough Community College - Plant City (HCC-Plant City) to provide a 2+2 educational opportunity allowing you to obtain your first two years (A.A. or A.S.) from the local community college and then complete your baccalaureate degree through USF Lakeland.

USF Lakeland also collaborates with school districts, businesses and industry, and community agencies to provide degree programs and post-baccalaureate certificates in on-site settings.

USF Lakeland is expanding its facilities. The PCC/USF Joint Use Facility provides 125,000 square feet of state-of-the-art teaching, research, and service facilities. Nearly 50,000 square feet are dedicated for use by USF Lakeland for high-tech classrooms, technology and research labs, faculty and staff offices, student services, and student study areas.

A Master Plan for a new primary campus site has been approved. The new USF Lakeland campus will be built at the junction of I-4 and the Polk Parkway and will have the potential at full build-out for providing services to 12,000 students on a 4-year and Master's degree campus.

## List of Majors and Programs

### Undergraduate Programs

- A.S. to B.S.A.S. (Bachelor of Science in Applied Science)
  - General Business
  - Criminal Justice
  - Early Childhood Development

- Industrial Operations
- Information Technology

Criminology (B.A.)

Elementary Education (B.S.)

General Business Administration (B.S.)

Industrial Engineering (B.S.I.E.)

Information Technology (B.S.I.T.)

Interdisciplinary Social Science (B.A.)

Psychology (B.A.)

Social Work (B.S.W.) (new admissions suspended for 2007-2008 academic year)

### Graduate Degrees

Adult Education with Criminology Electives (M.A.)

Counselor Education (M.A.)

Educational Leadership (M.Ed.)

Reading Education (M.A.)

Social Work (M.S.W.)

### Undergraduate Academic Minor Leadership Studies

### Florida Engineering Education Delivery System (FEEDS)

Online, videostream courses applicable to Master's degree programs in Engineering, Electrical Engineering, and Engineering Management

### Certificate Programs

Information Technology Management (15 credit hours)

Information Technology Professional (30 credit hours)

Leadership Studies (9 credit hours)

## Campus Characteristics

### 2006-2007 Enrollment (Unduplicated/Funding Campus)

2,600 students

### Student-Faculty Ratio

17:1

### Average Age

28

### Gender

Female 66%

Male 34%

### Full-Time vs. Part-Time

Full-time 44%

Part-time 56%

### Geographic Diversity

Students come from Polk, Highlands, Hardee, Eastern Hillsborough counties and other surrounding counties within a 100 mile radius of USF Lakeland.

### Points of Pride

- Faculty who are nationally recognized scholars and practitioners
- Programs that integrate research, inquiry, new technologies, and interdisciplinary perspectives
- Innovative A.S. to B.S.A.S. programs
- Department of Information Technology
- Community partnerships
- New PCC/USF Joint-Use Technology Center
- New I-4 and Polk Parkway campus plan
- Alfred Rath Senior Education Center

## Bachelor of Science in Applied Science (APS)

**Location/Phone:** SVC 2002; (813) 974-4051

**Office Hours:** 8 a.m. – 5 p.m., Monday through Friday

**Web Address:** <http://www.ugs.usf.edu/academic/bsas.htm>

Workforce projections for the 21<sup>st</sup> century indicate that there will be an ongoing need for people with specific skills and abilities to fill Florida's growing number of specialized, scientific, industrial and technological positions. Florida's two-year colleges offer many exceptional programs that meet these demands through their Associate in Science (A.S.) degrees. Although these applied and technical degrees provide excellent preparation for students seeking jobs that require specific knowledge, skill and ability, they have not generally transferred very efficiently into four-year Bachelor's degree programs. The Bachelor of Science in Applied Science (BSAS) has been developed by USF under certain provisions of Florida legislation to remove constraints from the transfer process, recognize past course work as transferable credit to the university, and afford exciting new opportunities for A.S. degree holders to pursue and acquire a distinctive USF Bachelor's degree.

The BSAS program is a "capstone" degree offering A.S. degree holders an efficient pathway to a Bachelor's degree. It provides Florida A.S. transfer students with a broad educational experience and a unique academic area of concentration. The various concentrations allow students to somewhat tailor their degree to match their academic interests and career ambitions. To achieve this end, BSAS students will plan their program in ongoing consultation with an academic advisor who will help students design their individualized program of study.

### Requirements for the Major in Bachelor of Science in Applied Science

#### Recommended Prerequisites (State Mandated Common Prerequisites)

This degree program is available ONLY to Associate in Science (A.S.) graduates from a Florida public community/junior college.

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

Students wishing to transfer to USF must complete the A.S. degree with an overall "C" average in all college-level courses accepted for transfer credit to USF. Students are encouraged to complete at least 18 credit hours of the General Education Requirements as part of their A.S. degree, and it is highly recommended that students select Gordon Rule communication and computation courses to fulfill these requirements while at the community college.

The A.S. degree will transfer as a complete "60 credit hour package" to USF (applicable only to the BSAS program). Technical coursework will transfer as a 42 credit hour technical block. The remaining 18 credit hours of General Education coursework from the A.S. will be matched against USF requirements to determine which courses remain outstanding for fulfillment of the university's 36 credit hour General Education Requirement.

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

Community College Block Credit (Transferred from A.S.)	42
Community College General Education (Transferred from A.S.)	18
USF General Education	18
USF Exit Courses	9
USF Area of Concentration*	18
USF Electives**	15
<b>Total BSAS Credit Hours</b>	<b>120</b>

\*Note that all BSAS Areas of Concentration are at least 18 credit hours (some require 21 credit hours).

\*\* Elective credit hours may vary slightly, but will not require students to exceed a total of 120 credit hours for completion of the BSAS degree.

Within the 60 credit hours of USF/upper-level coursework beyond the A.S., BSAS students will complete:

- a minimum of 48 credit hours of upper-level (3000-4999) courses
- at least 30 hours of the last 60 credit hours at USF
- CLAST requirements
- foreign language requirement (can be satisfied by two years of high school foreign language credit or 8 college credit hours in a single foreign language)

### Requirements for Areas of Concentration

#### BSAS - American Sign Language (ASG) Concentration consists of 19 credit hours:

SPA 3612	Basic American Sign Language	(4)
SPA 4613	Intermediate American Sign Language	(4)
SPA 4614	Advanced American Sign Language	(4)
PLUS ONE OF THE FOLLOWING:		
SPA 4930	American Sign Language IV	(4)
SPA 4617	Structure of Sign Language	(4)
PLUS ONE OF THE FOLLOWING:		
SPA 3633	American Deaf Culture	(3)
SPA 4632	Nature and Needs of Deaf and Hard of Hearing	(3)

#### BSAS - Behavioral Healthcare Concentration (ABH) consists of 18 credit hours:

MHS 3411	Multidisciplinary Behavioral Healthcare Services	(3)
MHS 4002	Behavioral Health Systems Delivery	(3)
MHS 4408	Exemplary Practices in Behavioral Healthcare Treatment	(3)
MHS 4425	Field Experience in Behavioral Healthcare	(3)
AND, TWO OF THE FOLLOWING:		
MHS 4931	Selected Topics in Behavioral Healthcare	(3)
MHS 4906	Directed Study/Readings	(3)

#### BSAS - Criminal Justice Concentration (ACJ) consists of 18 credit hours:

Only available at Lakeland or Sarasota campus

CCJ 3610	Theories of Criminal Behavior	(3)
CCJ 4934	Seminar in Criminology (XMW)	(3)
PLUS FOUR OF THE FOLLOWING:		
CJL 3110	Substantive Criminal Law	(3)
CJE 4114	American Law Enforcement Systems	(3)
CCJ 4450	Criminal Justice Administration	(3)
CJC 4010	American Correctional Systems	(3)
CJE 4010	The Juvenile Justice System	(3)
CCJ 3621	Patterns of Criminal Behavior	(3)
CJC 4166	Alternatives to Incarceration	(3)
CJL 4410	Criminal Rights & Procedures	(3)
CJT 4100	Criminal Investigations	(3)
CCJ 4933	Selected Topics in Criminology	(3)
CCJ 4604	Abnormal Behavior & Criminality	(3)
CCJ 3701	Research Methods in Criminal Justice I	(3)

#### BSAS - General Business Concentration (ABU) consists of 18 credit hours:

ACG 3074	Managerial Accounting for Non-Business Majors	(3)
ECO 1000	Basic Economics	(3)
FIN 3403	Principles of Finance	(3)
MAN 3025	Principles of Management	(3)
MAN 4802	Entrepreneurship & Small Business Management	(3)

<b>OR</b>		
GEB 4890	Strategic Management & Decision Making	(3)
MAR 3023	Basic Marketing	(3)

**BSAS – Early Child Development Concentration (AEC) consists of 18 credit hours:**

Only available at Lakeland or Sarasota campus

EDF 4111	Child Growth & Learning	(3)
EDG 4909	Young Children w/ Special Needs	(3)
HSC 3301	Health, Safety, Nutrition & Motor Skills	(3)
EEC 4303	Creative & Affective Experiences	(3)
EEC 4408	Child, Family & Teacher Relations	(3)
PAD 4419	Personnel & Supervision	(3)

**BSAS – Environmental Policy Concentration (AEP) consists of 19-20 credits:**

EVR 2001	Introduction to Environmental Science	(3)
EVR 2001L	Intro. to Environmental Science Lab	(3)
EVR 2861	Introduction to Environmental Policy	(3)

**PLUS THREE OF THE FOLLOWING:**

PUP 4203	Environmental Politics and Policy	(3)
PHI 3640	Environmental Ethics	(3)
ECP 3302	Environmental Economics (PR: ECO 2023 Microeconomics)	(3)
POS 3697	Environmental Law	(3)

**PLUS ONE OF THE FOLLOWING:**

ANT 4147	Environmental Archaeology	(3)
BSC 4057	Environmental Issues	(3)
ECP 3613	Economics of the Urban Environment	(3)
EDF 3228	Human Behavior & Environmental Selection	(3)
EVR 4930	Selected Topics in Environmental Policy	(1-4)
GEO 4340	Natural Hazards	(4)
HIS 4936	Seminar in Environmental History	(4)
IDS 3186	Science and Ethics of Disease	(3)
WST 3225	Women, Environment and Gender	(3)

**BSAS – Gerontology Concentration (AGR) consists of 21 credit hours:**

GEY 2000	Introduction to Gerontology	(3)
or		
GEY 3263	Aging in the 21 <sup>st</sup> Century	(3)
GEY 3601	Physical Changes and Aging	(3)
GEY 3625	Sociocultural Aspects of Aging	(3)
GEY 4612	Psychology of Aging	(3)

**PLUS THREE OF THE FOLLOWING:**

GEY 3323	Community Services of Older Adults	(3)
GEY 4322	Case Management	(3)
GEY 4327	Long-Term Care Administration I	(3)
GEY 4340	Housing for the Elderly	(3)
GEY 4360	Gerontological Counseling	(3)
GEY 4608	Alzheimer's Disease Management	(3)
GEY 4635	Business Management in an Aging Society	(3)
GEY 4641	Death and Dying	(3)
GEY 4647	Ethical and Legal Issues in Aging	(3)

**BSAS – Hospitality Management Concentration (AHG) consists of 18 credit hours:**

Only available through Sarasota campus

**PREREQUISITES - 12 HOURS:**

ACG 2021	Financial Accounting	(3)
ACG 2071	Managerial Accounting	(3)
MAN 3025	Principles of Management	(3)
MAR 3023	Basic Marketing	(3)

**REQUIRED COURSES:**

FSS 3231	Introduction to Food Production & Management	(3)
HFT 3005	Introduction to Hospitality & Tourism	(3)
HFT 3423	Hospitality Information Systems	(3)
HFT 3503	Hotel Marketing and Sales	(3)

HFT 4221	Human Resources Management	(3)
HFT 4253	Lodging Management	(3)

**BSAS – Industrial Operations Concentration (AIO) consists of 18 credit hours:**

Only available through Lakeland campus

**PREREQUISITES - 9 HOURS:**

MAC 1105	College Algebra	(3)
STA 2023	Introductory Statistics	(3)
COP 2510	Programming Concepts	(3)

**REQUIRED COURSES:**

ETG 3612	Operations Management	(3)
ETG 4931	Special Topics in Technology I*	(1-5)
ACG 3074	Accounting for Non-Business Majors	(3)

**OR**

EIN 4352	Engineering Cost Analysis	(3)
EIN 3241	Work Design and Ergonomics I	(3)
EIN 4242	Work Design and Ergonomics II	(3)
ETI 4116	Industrial Quality Control	(3)

\*Please see academic advisor for required special topics course.

**BSAS - Information Technology (ATC) consists of 18 credit hours:**

Only available through Lakeland or Sarasota campus

PAD 3003	Introduction to Public Administration	(3)
COP 2510	Programming Concepts	(3)
CGS 3303	IT Concepts	(3)
CEN 3722	Human Computer Interface	(3)
CTS 3823	IT Web Design	(3)
CTS 3845	Electronic Commerce	(3)
CIS 4412	IT Resource Management	(3)

**BSAS - Public Administration Concentration (APU) consists of 18 credit hours:**

PAD 3003	Introduction to Public Administration	(3)
PAD 4204	Public Financial Administration	(3)
PAD 4419	Personnel and Supervision in Today's Organizations	(3)
PAD 4712	Managing Information Resources in the Public Sector	(3)
POS 3182	Florida Politics and Government	(3)

Plus any one of the following:

PUP 4002	Public Policy	(3)
PAD 5035	Issues in Public Administration and Public Policy	(3)
PAD 5044	Environment of Public Administration	(3)
PAD 5159	Urban Policy Analysis	(3)
PAD 5333	Concepts and Issues in Public Planning	(3)
PAD 5605	Administrative Law and Regulation	(3)
PAD 5700	Research Methods in Public Administration	(3)
PAD 5807	Urban and Local Government Administration	(3)
PAD 5836	Comparative Public Administration	(3)

**BSAS – Public Health Concentration (APL) consists of 18 credit hours:**

HSA 4120	Introduction to Public Health	(3)
HSC 4554	Survey of Human Disease	(3)
HSC 4933	Special Topics in Public Health*	(3)

\*Please see academic advisor for required special topics courses.

**Electives (9 credit hours):**

HSC 3541	Human Structure and Function	(3)
HSC 4504	Foundations of Public Health Immunology	(3)
HSC 4542	Stress, Health and College Life	(3)
HSC 4579	Foundations of Maternal & Child Health	(3)
HSC 4933	Special Topics in Public Health**	(3)
MHS 4002	Behavioral Health System Delivery	(3)

**\*\*AREAS FROM SELECTED SPECIAL TOPICS COURSES SHOULD BE SELECTED IN CONSULTATION WITH YOUR ACADEMIC ADVISOR.**

Selected special topics courses can include the following subjects:

- Behavioral Health System Delivery
- Foundations of Global Health
- Introduction to Environmental Health
- Introduction to Food Safety
- Men's Health and Gender in Society
- Secret History of Death and Disease
- Understanding U.S. Health Care
- Women's Health: A Public Health Perspective

**BSAS – Urban Studies Concentration (AUR) consists of 18-21 credit hours:**

URS 3002	Introduction to Urban Studies	(3)
Plus any of five of the following:		
ARC 4784	The City	(3)
AMS 3700	Racism in American Society	(3)
AMH 3423	Modern History	(4)
IDS 4942	Community Internship	(1-4)
ECP 3613	Economics of Urban Environment	(3)
ISS 3930	ST: Community Studies	(1-4)
SYA 4930	ST: Urban Life	(3)
GEO 3602	Urban Geography	(4)
GEO 4604	Advanced Urban Geography	(4)
PAD 3003	Introduction to Public Administration	(3)
POS 3142	Introduction to Urban Politics and Government	(3)
SOW 3203	American Social Welfare System	(3)
SPC 3710	Communication and Cultural Diversity	(3)
SYD 3700	Racial and Ethnic Relations	(3)
URP 4050	City Planning and Community Development	(3)
URP 4052	Urban and Regional Planning	(4)

Contact the BSAS Program for additional BSAS Concentrations that may have developed since the publication of this catalog.

• **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, juvenile justice 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:

1. Each of the following core courses:  
 CCJ 3024 (3)\* CCJ 3610 (3)\*  
 CCJ 3701 (3)\*\* CCJ 4934 (3)
2. 24 semester hours of electives within the major.

\*Students who plan to continue on to graduate school should also take CCJ 4700 as one of their electives within the major. Students must take CCJ 3610 prior to enrollment in CCJ 3701.

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. A student may take an unlimited amount of CCJ 4933 or 4934 as long as they vary in title.

These residency 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**

A minimum of 18 hours is required of all Undergraduate minors in Criminology including:

1. The following two required courses:  
 CCJ 3024 (3) CCJ 3610 (3)
2. An additional 12 semester hours of electives within Criminology.

Please note! Because all courses are programmed for majors only, each semester students will be required to obtain approval for all criminology courses with the exception of CCJ 3024. This can be accomplished by emailing the USF student ID number and reference numbers to the advising office. Upon receipt of the email, students will be registered for courses. A minimum of 9 semester hours must be completed at USF. Students minoring in Criminology are subject to the Department's "2 D" Rule.

• **ELEMENTARY EDUCATION**

**Requirements for the B.S. Degree (BEE):** In addition to the courses listed below, students must complete "Preliminary Requirements for Students entering Teacher Education Programs."

**Prerequisites (State Mandated Common Prerequisites):** These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

- EDF X005 Introduction to Education (3)
- EDG X701\* Teaching Diverse Populations (3)
- EME X040 Introduction to Educational Technology (3)

\*In addition to EDG X701, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the community college or

university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

**Completion of General Education requirements:** General education courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Community College Counseling Manual. (For USF, see "Academic Policies and Procedures - Liberal Arts Requirements" section of the catalog.)

Students are advised that the Elementary Education specialization will require an enrollment of more than the traditional four semesters of the junior and senior years in order to complete the program specialization courses and the required sequence of internship.

The order in which these courses are to be taken is designated in the program of study.

**Professional Education (32-33 credit hours):**

EDF 3122	Learning and the Developing Child	3
EDF 3604	Social Foundations of Education (Exit)	3
EDF 4430	Measurement for Teachers	3
EEX 4070	Integrating Exceptional Students in the Regular Classroom	2-3
TSL 4080	Curriculum and Pedagogy of ESOL	3
TSL 4081	Literacy Development in English Language Learners	3
TSL 4251	Applying Linguistics to ESOL Teaching and Testing	3
EDE 4940	Internship	10-12

**Specialization (41 credit hours):**

EDE 4301	Classroom Management, School Safety, Ethics, Law, and Elementary Methods	3
EDE 4941	Childhood Education Internship Level I	3
HLP 4722	Health and Physical Education for the Child	2
EDE 4942	Childhood Education Internship Level II	6
LAE 4314	Teaching Writing in the Elementary School	3
LAE 4414	Teaching Literature in the Elementary Schools (Exit)	3
MAE 4310	Teaching Elementary School Mathematics I	3
MAE 4326	Teaching Elementary School Mathematics II	3
RED 4310	Reading and Learning to Read	3
RED 4511	Linking Literacy Assessment to Instruction	3
SCE 4310	Teaching Elementary School Science	3
SSE 4313	Teaching Elementary (K-6) Social Studies	3
EDE 4223	Creative Experiences for the Child	3

• **GENERAL BUSINESS (GBA)**

The General Business major provides students with substantial preparation in two functional areas of business and prepares them for positions in a business world that is increasingly interdisciplinary and values cross-functional abilities.

**Requirements for Admission to the College of Business**

- Students must satisfy the following criteria:
  - Minimum of 60 semester hours of college credit earned.
  - Minimum of 2.5 cumulative grade point average on all college-level work and a minimum of 2.0 on all credit attempted at USF, including any prior to renewal.
  - Completion of the following State Mandated Common Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:

ACG X021 Financial Accounting  
(or ACG X001 & ACG X011)  
ACG X071 Managerial Accounting  
CGS X100 Computers in Business  
(or acceptable substitute i.e., CGS X530, CGS X570, CGS X531, CGS X0000, MAN X812)  
ECO X013 Principles of Macroeconomics  
ECO X023 Principles of Microeconomics  
MAC X233 Elementary Calculus or MAC 2230  
STA X023 Introductory Statistics or QMB X100 (or STAX122 although STA X023 and QMB X100 are preferred).

- In computing entry grade point average all business and economics courses taken for S or U grades will be converted to C or F, respectively.
- Students working toward meeting the limited access criteria will be permitted to enroll in all foundation courses in Business (listed below) except GEB 4890, provided they have completed 60 semester hours, a minimum of 2.3 overall GPA, and have met course prerequisites.
- A minimum score of 550 on paper and pencil or 213 on computerized TOEFL is required, when applicable.
- Students must be admitted to the College of Business at least one term before their anticipated graduation date.

**Requirements for the B.A./B.S. Degree:** Within the 120-semester-hours program as listed in the General Requirement section, students must complete two minors from the following business disciplines: accounting, economics, finance, management, management information systems, or marketing. A minimum of 24 hours of upper-level course work must be earned with a GPA of at least 2.0 in each minor. The requirements for each minor are listed with the description of the major.\* Minors applied to the General Business major will be referred to as concentrations. Concentrations used as part of the General Business Major will not also be subsequently listed as independent minors on the transcript.

**\*One exception:** A minor/concentration in economics must consist of four upper level economics courses, excluding QMB 3200.

**Please note:** Courses used to satisfy a major in accounting, economics, finance, information systems management or marketing may not be used to satisfy either minor or economics concentration requirement for the GBA major. Courses used in the minors or concentrations for the GBA major can not be used for a major.

**Requirements for a Minor in Business Administration (Non-Business Majors Only):** Students are required to process an application for the minor in the College of Business. Students must complete an introductory computer course (with a content similar to CGS 2100 Computers in Business) or obtain a waiver for this requirement from the College of Business by demonstrating competence in the use of computers.

- The course requirements are as follows:

ACG 3074	Managerial Accounting for Non-Business Majors*	3
ECO 1000	Basic Economics**	3
FIN 3403	Principles of Finance	3
MAN 3025	Principles of Management	3
MKT 3023	Basic Marketing	3
MAN 4802	Entrepreneurship & Small Business Management	3
Total		18

- A grade point average of 2.0 or better must be achieved in the minor course work at USF and in all minor courses completed at other institutions.
- At least 12 hours of the required 18 credit hours must be taken in residence at USF.

\*ACG 2021 & ACG 2071 can be substituted for ACG 3074.

\*\*ECO 2013 & ECO 2023 can be substituted for ECO 1000.

## • Industrial and Management Systems Engineering - Four-Year Curriculum

**Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida Community College:** If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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

Students qualify for direct entry to the department if they have completed the following courses at a Community College or University in the Florida State University System (SUS) and meet all other admissions requirements of the University and College.

Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university.

### Communications:

ENC 1101/1102 English I and II (6)

### Humanities & Social Sciences:

Humanities Courses (6)

Social Science Courses (6)

Humanities or Social Sciences (3)

### Mathematics:

#### USF

MAC 2281

MAC 2282

MAC 2283

MAP 2302

#### C/C

MAC 2311\* (4)

MAC 2312\* (4)

MAC 2313\* (4)

MAP 2302 (3)

\*or MAC 2281, MAC 2282, MAC 2283

### Natural Sciences:

#### USF

CHM 2045

CHM 2045L

PHY 2048

PHY 2048L

PHY 2049

PHY 2049L

#### C/C

CHM 1045\* (3)

CHM 1045L\* (1)

PHY 2048 (3)

PHY 2048L (1)

PHY 2049 (3)

PHY 2049L (1)

\*or CHS 1440 Chemistry for Engineers

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

## Industrial Engineering Admissions Requirements

Transfer students must have completed the equivalent USF Engineering Calculus sequence with a 2.0 GPA; must have completed one year of equivalent USF General Physics and Chemistry courses with a minimum of 2.0 GPA; must have a USF and overall GPA of 2.0 or better.

## BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

The schedule that follows indicates how a diligent student who can devote full time to coursework can satisfy requirements in four academic years. Students without a solid foundation or those who cannot devote full time to academics should plan a slower pace. The following sequence is intended to facilitate registration planning and is subject to change based upon course availability. The sequence may also vary based upon individual considerations. Registration assistance will be provided by academic advisors.

### Semester I

CHM 2045	Chemistry I	3
CHM 2045L	Chemistry I Lab	1
EGN 3000	Foundations of Engineering	1
ENC 1101	Composition I	3
MAC 2281	Engineering Calculus I	4
Social Science Elective		3
<b>Total</b>		<b>15</b>

### Semester II

CHM 2046	Chemistry II	3
Historical Perspectives Elective		3
ENC 1102	Composition II	3
MAC 2282	Engineering Calculus II	4
PHY 2048	Physics I	3
PHY 2048L	Physics I Lab	1
<b>Total</b>		<b>17</b>

### Semester III

EGN 3443	Engineering Statistics	3
MAC 2283	Engineering Calculus III	4
PHY 2049	Physics II	3
PHY 2049L	Physics II Lab	1
Historical Perspectives Elective		3
<b>Total</b>		<b>14</b>

### Semester IV

EGN 3311	Statics	3
COP 2510	Programming Concepts	3
EGN 4450	Linear Systems	2
EGN 3433	Modeling & Analysis of Engineering Systems	

#### or

MAP 2302	Differential Equations	3
Fine Arts Elective		3
<b>Total</b>		<b>14</b>

### Summer Term

EGS 1113	Engineering Graphics	3
EGN 3615	Engineering Economy with Social and Global Implications (SS)	3
ALAMEA Elective		3
<b>Total</b>		<b>9</b>

### Semester V

EGN 3365	Materials Engineering I	3
EGN 3373	Introduction to Electrical Systems I	3
EIN 4312C	Work Analysis	3
EIN 4621	Manufacturing Processes	3
ESI 4312	Deterministic OR	3
<b>Total</b>		<b>15</b>

### Semester VI

EGN 3343	Thermodynamics	3
EIN 4333	Production Control	3
ESI 4221	Industrial Statistics/Quality Control	3
ESI 4313	Probabilistic OR	3
Tech Elective	Engineering Science	3
<b>Total</b>		<b>15</b>

### Semester VII

EIN 4364C	Facilities Design	3
EIN 4352	Engineering Cost Analysis	3
ESI 4244	Design of Experiments	3
ESI 4523	Industrial Systems Simulation	3
Tech Elective	Industrial Engineering	2
<b>Total</b>		<b>14</b>

### Semester VIII

EIN 4243C	Human Factors (6A)	3
EIN 4891	Capstone Design (MW/MI)	3
EIN 4601	Automation/Robotics	3

ENC 3246	Communication for Engineers (6A L&W)	3
	Tech Elective Industrial Engineering	3
	Total	15

Gordon Rule (6A) is fully met through the mathematics courses above, ENC 1101, ENC 1102, ENC 3246 and EIN 4313 or by completing an AA degree at a Florida Community College. Exit Requirements in Major Works/Major Issues (MW/MI) and Literature and Writing (L&W) are fully met through ENC 3246 and EIN 4365.

## • Bachelor of Science in Information Technology

The Mission of the Information Technology Program is to provide high quality educational opportunities for students interested in pursuing careers in the broad range of fields that support our computer/information-based society and economy. Additionally to utilize the resources of the program to provide service to society; and to emphasize to students the need for lifelong learning, ethical conduct and an understanding of the diverse social context in which Information Technology is practiced. The program is offered through the Lakeland Campus.

Specifically the program aspires to:

1. Lead to the advancement of Information Technology through nationally recognized education at the undergraduate level, as well as technology transfer to regional industries and businesses;
2. Prepare students for full and ethical participation in a diverse society and encourage lifelong learning;
3. Educate undergraduates in the best practices of the field as well as integrate the latest research and practices into the curriculum;
4. Emphasize the development of problem solving and communication skills as an integral component of the educational process and the later practice of the discipline;
5. Provide quality learning experiences through highly interactive techniques of course delivery that will include the use of electronic support equipment as well as newly developing distance learning technologies.

### Objectives

The Information Technology program graduates will:

1. Have the requisite education and skills to be immediately employable as professionals in our computer/information-based society
2. Be prepared to enter into graduate studies in a number of related graduate programs
3. Be ethical and responsible members of their profession and society as a whole
4. Be well founded in the variety of sub-disciplines that comprise Information Technology which include basic principles of computation, mathematics, science and engineering.

The Information Technology (IT) program is designed to bridge the gap between computer science and management information systems. The emphasis of the program is on knowledge-based computer and information technology, traditional computer science concepts, as well as more practical topics including programming, applications, and networking, systems administration and the management of a variety of computing environments (in an era of rapidly changing technology). IT students will take coursework in computer organization, human-computer interface, data structures, operating systems, networking, databases, and software engineering. Electives can include such application areas as: advanced database, advanced networking, web page design and administration, and e-commerce as well as a variety of other related areas. Through a broad based set of electives, IT students will be able to tailor their program to satisfy individual preferences and strengths.

Students completing the IT program will qualify for a broad range of positions in computer-intensive businesses and industry such as: programmer analyst, systems analyst, database administrator, network administrator, computer resource manager, systems development manager, and information technology management, to name a few.

In addition to the University's graduation requirements, the program has the following policies:

1. Mandatory academic advising of each student each term,
2. Exit interviews as a graduation requirement for all students, and
3. Only grades of C and above in IT courses can be used to fulfill graduation requirements.

**Four-Year Curriculum in Information Technology**  
**Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Community College:** If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

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.

Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university.

PSY	XXXX	Any Psychology Course
STA	X023	Statistics
ECO	X013	Economics (Macroeconomics)
CGS	XXXX	Any Database Course
COP	2XXX	Any Computer Programming Course
COP	2XXX	Any Object-Oriented Computer Programming Course
MAC	XXXX	Pre-Calculus Course
PHY	XXXX	Any Physics Course
M**	XXXX	Discrete Mathematics Course

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

The schedule that follows indicates how a diligent student, who can devote full time to coursework, can satisfy requirements in four academic years. Students without a solid foundation, or those who cannot devote full time to academics, should plan for a slower pace.

### Semester I

CGS 2100	Computers in Bus.	3
ENC 1101	Composition I	3
MAC 1140	Precalculus Algebra	3
Gen. Ed.		6
Total		15

### Semester II

COP 2510	Programming Concepts	3
ENC 1102	Composition II	3
MAD 3100	Discrete Math	3
ECO 2013	Economic Principles (Macro.)	3
PSY 2012	Psychological Science I	3
Total		15

### Semester III

Natural Science		3
COP XXXX	OO Programming (e.g., C++)	3
Electives		9
Total		15

**Semester IV**

STA 2023	Introductory Statistics I	3
PHY 2020	Conceptual Physics	3
Fine Arts		3
Electives		6
Total		15

**Semester V**

COP 3515	Program Design for Information Technology	3
ENC 3246	Communication for Engineers	3
INR 3033	International Political Cultures	3
CGS 3303	IT Concepts	3
CEN 3722	Human Computer Interfaces for IT	3
Total		15

**Semester VI**

CDA 3101	Computer Organization for Information Technology	3
EEL 4782	Computer Information Networks for IT	3
EEL 4782L	Information Networks Lab for IT	1
EEL 4854	Data Structures and Algorithms for IT	3
ENC 4260	Advanced Technical Writing	3
IT Approved Electives		3
Total		16

**Semester VII**

CIS 4703	Database Systems for IT	3
CEN 4031	Software Engineering Concepts for IT	3
COP 4610	Operating Systems for IT	3
COP 4610L	Operating Systems Lab for IT	1
IT Approved Electives		6
Total		16

**Semester VIII**

COP 4930	Information Technology Seminar	1
CIS 4935	Senior Project in IT	3
CIS 4253	Ethical Issues for Information Technology	3
IT Approved Electives		6
Total		13

**INFORMATION TECHNOLOGY (IT) MINOR PROGRAMS**

There are two IT Minor options available.

The **IT General Minor** (15 semester hours) is aimed at providing a good understanding of the concepts underlying Information Technology while enabling the student to choose four elective topics in which to specialize. These elective encompass a wide spectrum of topics such as programming, networking and web design, Human Computer Interface and Security Management. The outcome of this program is to build a solid culture of IT technologies and disciplines from scratch.

The **IT Technical Minor** (24 semester hours) enforces basic scientific pre-requisites and requires interested students to attend three core IT courses meant to provide them with the conceptual and technical basis necessary to successfully dwell in more advanced topics. The elective part of the IT Technical Minor is composed of two electives to be chosen from a larger set of courses including Data Base Systems and Operating System. Successful students are expected to develop a conceptual understanding of the IT field while developing programming skills they may apply to strengthen their major.

**IT GENERAL MINOR****Required Course:**

CGS 3303	IT Concepts	3
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**Electives (choose four from list):**

CDA 3101	Computer Organization for IT	3
CEN 3722	Human Computer Interfaces for IT	3
CIS 4361	IT Security Management	3
CIS 4412	IT Resource Management	3

COP 3515	Program Design for IT	3
EEL 4782	Computer Information Networks for IT	3
EEL 4782L	Information Networks for IT	1
EEL 4854	Data Structures and Algorithms for IT	3
ETG 4931	Special Topics in Technology I	1-5
ETG 4932	Special Topics in Technology II	1-5

**IT TECHNICAL MINOR****Prerequisite Courses:**

COP 2510	Programming Concepts	3
COT 3100	Introduction to Discrete Structures	3
PHY XXXX	Physics	3

**Required Courses:**

CGS 3303	IT Concepts	3
COP 3515	Program Design for IT	3
EEL 4854	Data Structures and Algorithms for IT	3

**Electives (choose four from list):**

CDA 3101	Computer Organization for IT	3
CEN 3722	Human Computer Interfaces for IT	3
CEN 4031	Software Engineering Concepts for IT	3
CIS 4361	IT Security Management	3
CIS 4412	IT Resource Management	3
COP 4610	Operating Systems for IT	3
COP 4610L	Operating Systems Lab for IT	1
COP 4703	Database Systems for IT	3
EEL 4782	Computer Information Networks for IT	3
EEL 4782L	Information Networks for IT	1
ETG 4931	Special Topics in Technology I	1-5
ETG 4932	Special Topics in Technology II	1-5

**POST-BACCALAUREATE CERTIFICATE PROGRAMS IN INFORMATION TECHNOLOGY (IT)**

There are two Post-Baccalaureate Information Technology (IT) Certificates available. Both Certificates are designed for students who hold bachelor's degrees in fields other than IT, but do not seek either a master's degree or a complete undergraduate degree in IT.

The **IT Management Certificate** (15 semester hours) is designed to provide the student an application-oriented managerial background in IT. The typical student pursuing this certificate is not looking to change careers, but rather looking to enhance their technical abilities in their existing job. A four year Bachelor's degree plus some prerequisites are required to enter the IT Management Certificate Program.

The **IT Professional Certificate** (30 semester hours) is designed to help students change careers, i.e. begin a new career as an IT Professional. All classes (15 hours) taken in the IT Management Certificate directly apply toward the IT Professional Certificate. Therefore, each student having completed the IT Management Certificate, will only need 15 additional hours to complete the IT Professional Certificate. However, certain additional prerequisites may be required of the student prior to taking the advanced technically oriented classes contained in the IT Professional Certificate.

Students wanting to enter one of the IT Certificate programs need to fill out an application to apply and have an official transcript sent from the College or University where they completed their undergraduate degree. The transcript is used to first verify that the student completed their undergraduate degree and second to identify if any additional prerequisite classes will be required.

**IT MANAGEMENT CERTIFICATE**

The prerequisites to enter the IT Management Certificate program is a four year undergraduate degree plus the following:

1. MACxxx Pre-Calculus 3 hrs.
2. STA2023 Intro. To Statistics 3 hrs.
3. Any Basic Computer Skills Course 3 hrs.  
(Word Processing, Spreadsheets, Windows, etc.)

NOTE: The course numbers may be different depending on the university. IT advisors will make the determination whether or not the student has satisfied these requirements based on

supportive material (such as catalog descriptions, official letters, etc.) supplied by the student.

After admission to the IT Management Certificate program, the student must complete 15 hours selected from the following:

CEN 3722	Human Computer Interfaces for IT	3
CGS 3823	IT Web Design	3
CGS 3845	Electronic Commerce	3
CIS 4361	IT Security Management	3
CIS 4412	IT Resource Management	3
CIS 4935	Senior Project in Information Technology	3
COP 4930	Information Technology Seminar	1-3
ENC 4260	Advanced Technical Writing	3
ETG 4931	Special Topics in Technology I	1-5
ETG 4932	Special Topics in Technology II	1-5
	IT Current Topics	3
	IT Approved Elective	3

#### IT PROFESSIONAL CERTIFICATE

The prerequisites to enter the IT Professional Certificate program is a four year undergraduate degree plus the following:

1. STA 2023	Intro. To Statistics	3 hrs.
2. CGS xxxx	Any Data Base	3 hrs.
3. COP2xxx	Computer Programming	3 hrs.
4. COP2xxx	OO Programming	3 hrs.
5. MAC xxxx	Pre-Calculus	3 hrs.
6. xxxx	Discrete Mathematics	3 hrs.

NOTE: The course numbers may be different depending on the university. IT advisors will make the determination whether or not the student has satisfied these requirements based on supportive material (such as catalog descriptions, official letters, etc.) supplied by the student.

After admission to the IT Professional Certificate program, the student must complete the following 30 hour program: Required courses for the IT Professional Certificate (13 credit hours):

CDA 3101	Computer Organization for IT	3
COP 3515	IT Program Design	3
COP 4610	Operating Systems for IT	3
COP 4610L	Operating Systems Laboratory for IT	1
EEL 4854	Data Structures and Algorithms for IT	3

Electives (17 credit hours):

CEN 3722	Human Computer Interfaces for IT	3
CEN 4031	Software Engineering Concepts for IT	3
CGS 3823	IT Web Design	3
CGS 3845	Electronic Commerce	3
CIS 4361	IT Security Management	3
CIS 4412	IT Resource Management	3
CIS 4703	Database Systems for IT	3
CIS 4935	Senior Project in IT	3-5
COP 4930	IT Seminar	1-3
EEL 4782	Computer Information Networks for IT	3
EEL 4782L	Information Networks Laboratory for IT	1
ENC 4260	Advanced Technical Writing	3
ETG 4931	Special Topics in Technology I	1-5
	IT Current Topics	3
	IT Approved Elective	3

Total 30

#### Information Technology Faculty

*Chair (Interim):* W. D. Armitage; *Faculty:* P. Bao, A. Ejnoui, F. Fleschute, A. Gaspar, B. Harding, R. Hawat, S. Lodwig, R. Walsh, J. Wiginton.

### • INTERDISCIPLINARY SOCIAL SCIENCES (ISS)

The ISS program is designed to provide an interdisciplinary integration of the social sciences for students who are interested in a broad educational experience. ISS offers a wide choice of courses, and an opportunity to design a quality

program geared toward individual needs and interests. Students plan their program in ongoing consultation with the advisor who approves each individual curriculum contract.

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

Community college courses may be counted toward the ISS degree. These could include General Education credits, Gordon Rule classes, and courses such as the examples listed below. A grade of "C" is the minimum acceptable grade.

AFA 2000	Introduction to the Black Experience [In Africa and Its Diaspora]	(3)
AMH 2010	American History I	(3)
AMH 2020	American History II	(3)
ANT 2000	Introduction to Anthropology	(3)
ECO 2013	Economic Principles (Macroeconomics)	(3)
ECO 2023	Economic Principles (Microeconomics)	(3)
GEA 2000	World Regional Geography	(4)
POS 2041	American National Government	(3)
POS 2112	State and Local Government	(3)
SYG 2000	Introduction to Sociology	(3)
WST X015	Introduction to 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 (STA 2122) 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. In addition, three special electives emphasize cultural diversity.
- 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 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:

Africana Studies, American Studies, Anthropology, Communication Sciences and Disorders, Criminology, Economics, Environmental Science and Policy, Gerontology, Geography, History, Humanities, International Studies, Interpreter Training, Latin American Studies, Library and Information Science, Multidisciplinary Behavioral Healthcare, Political Science, Psychology, Public Administration, Religious Studies, Social Work, Sociology, Woman's Studies.

## • 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 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 state-approved **prerequisite courses** 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. To be admitted to the major in Psychology, a student must complete all of the course prerequisites.

PSY X012 Introduction to Psychology **and** any other lower level Psychology course within the Psychology inventory  
STAXXXX Any level Statistics course (X000 - X099)  
BSCXXXX Any level General Biology course (**or** BSC X200-X209, **or** ZOO X010)

Once admitted to the major, continuation in the major requires successful completion of PSY X012 Introduction to Psychology, PSY 3204 Psychological Statistics (or another approved Statistics course), and PSY 3213 Research Methods

in Psychology, with at least a grade of C (not C-) and have a grade point average for those three courses of 2.5 or higher.

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 3204 (or other qualifying statistics course) 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:

### Requirements for Psychology Majors

- 2000/3000 Level Requirement (6 semester hours)  
PSY 2012 Introduction to Psychological Science (if not already taken at a community college)  
PSY 3204 Psychological Statistics
- Methods Course Requirement (7 semester hours)  
PSY 3213 Research Methods in Psychology  
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.
- 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 4004C Physiological Psychology  
EXP 4304 Motivation  
EXP 4680C Cognitive Psychology

#### Group II

CLP 4143 Abnormal Psychology  
INP 4004 Industrial Psychology  
SOP 4004 Social Psychology  
DEP 4053 Developmental Psychology  
PPE 4003 Personality

and any 3 additional courses numbered at the upper-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.

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 3204 (or other qualifying statistics course) 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 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, and any four upper-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.

## • 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 during enrollment in either SOW 3203 or SOW 3210.

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.

A student must maintain a GPA of 2.75 minimum in social work courses while enrolled in the program and demonstrate behaviors that are congruent with professional standards and values as described above in order to proceed in the major. Any student who fails to maintain at least a 2.75 GPA in the social work major and/or demonstrates behaviors that are incongruent with the standards and values of the profession may not proceed in the major.

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 "C-" grade or below in any SOW core courses, even if the student's GPA is 2.75 or above with the inclusion of the a "C-" grade of below.

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 3203, "Introduction to Social Work" and SOW 3210, "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 may 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.

## 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

- |         |   |     |
|---------|---|-----|
| XXXXXX  | American Government (American National Government or American Government) |     |
|         | or  |     |
|         | Introduction to Public Policy   | (3) |
| XXXXXX  | Biology (Human Biology or Anatomy & Physiology)                           | (3) |
| ECOXXXX | Economics (Microeconomics or Macroeconomics or Introduction to Economics) | (3) |

XXXXXXX	Introductory Psychology	(3)
XXXXXXX	Introductory Sociology/Social Problems	(3)

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 3203 Introduction to Social Work and SOW 3210 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.

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

*Economics:*

ECO 1000	Basic Economics	(3)
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*Psychology:*

PSY 2012	Psychological Science I	(3)
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*Sociology:*

SYG 2000	Introduction to Sociology	(3)
SYG 2010	Contemporary Social Problems	(3)
SYD 4800	Gender and Society	(3)
SYO 3530	Social Inequalities in a Global Society	(3)
SYP 3000	Social Psychology	(3)
SYP 4510	Sociological Aspects of Deviance	(3)

**Foundation Courses (F\*) for 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 [In Africa and Its Diaspora]	(3)
AFA 4333	African Diaspora: Blacks in the Construction of the Americas	(3)
AFA 4335	Black Women in America	(3)
AFS 2250	Culture and Society in Africa	(3)
AMS 3700	Racism in American Society	(3)

*Anthropology:*

ANT 2000	Introduction to Anthropology	(3)
ANT 2410	Cultural Anthropology	(3)
ANT 3005	The Anthropological Perspective	(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:*

AMH 3561	American Women I	(4)
AMH 3562	American Women II	(4)
LIT 3383	The Image of Women in Literature	(3)
PUP 4323	Women and Politics	(3)
SOP 3742	Psychology of Women	(3)
WST 3015	Introduction to Women's Studies	(3)
WST 3311	Issues in Feminism	(3)
WST 4262	Literature by American Women of Color	(3)
WST 4410	Third World Women Writers	(3)

2. Both of the following Social Work courses, earning a "B" or better:  
SOW 3210 American Social Welfare System (3)  
SOW 3203 Introduction to Social Work (3)

**Social Work Core Courses**

1. Human Behavior and Social Environment Courses  
SOW 3101 (4) SOW 3102 (3) SOW 4522 (3)
2. Social Welfare: Policy & Program Course  
SOW 4233 (3)
3. Social Research Course  
SOW 3401 (3)
4. Social Work Practice Courses  
SOW 4341 (5) SOW 4343 (5) SOW 4930 (3)
5. Field Experience  
SOW 4510 (3) SOW 4510L (6)

**Summary:**

Core Courses	29 hours
Field Experience	9 hours
<b>TOTAL</b>	<b>38 hours</b>

**• EXCEPTIONAL CHILD EDUCATION with ESOL Endorsement**

The College of Education offers a full ESOL Endorsement for all Special Education major graduates. The special requirements for ESOL endorsement through infusion are as follows: Successful completion of (1) FLE 4317 and FLE 4316 with a minimum grade of 70% or better on part one and part two of the ESOL Comprehensive Exam administered in the two ESOL courses; (2) a 20-hour early ESOL field experience in FLE 4317; (3) a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over a 10 days; and (4) an ESOL binder, containing all ESOL-related assignments taken in the College of Education and an ESOL-performance Standards Checklist that documents the completion of the necessary number of standards.

**Prerequisites (State Mandated Common Prerequisites):**

These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

- EDF X005 Introduction to Education (3)
- EDG X701\* Teaching Diverse Populations (3)
- EME X040 Introduction to Educational Technology (3)

\*In addition to EDG X701, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

**Completion of General Education requirements:** General education courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Community College Counseling Manual. (For USF, see "Academic Policies and Procedures - Liberal Arts Requirements" section of the catalog.)

**Professional Education Core (31-32 credit hours):**

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

EEEX 4941	Practicum in ESE	6
EDF 3122	Learning and the Developing Child	3
<b>or</b>		
EDF 3214	Human Development and Learning	3
EDF 3604	Social Foundations of Education (Exit)	3
EDF 4430	Measurement for Teachers	3
FLE 4316	Language Principles and Acquisition	2
FLE 4317	Teaching LEP Students K-12	3

EEX 4940	Internship: Exceptional Student Education	1-10
EEX 4936	Senior Seminar in Exceptional Student Education	1

### Area of Specialization

#### **Exceptional Student Education**

Students seeking the B. S. degree with certification in Exceptional Student Education are required to take the following courses:

EEX 4011	Foundations of Special Education	3
EEX 4054	Perspectives on Learning and Behavioral Disorders	3
EEX 4221	Educational Assessment of Exceptional Students	3
EEX 4243	Education of the Exceptional Adolescent and Adult	3
EEX 4604	Behavior Management for Special Needs and at Risk Students	3
EEX 4742	Narrative Perspectives on Exceptionality: Cultural and Ethical Issues (Exit)	3
EEX 4846	Clinical Teaching in Special Education	3
EMR 4011	Mental Retardation and Developmental Disabilities	3
LAE 4314	Teaching Writing	3
MAE 4310	Teaching Elementary School Mathematics I	3
RED 4310	Early Literacy Learning	3
RED 4511	Linking Literature Assessment to Instruction	3

### LEADERSHIP STUDIES MINOR

The minor in Leadership Studies consists of a minimum of 18 credit hours with a "B" average (3.0). All students shall complete the first courses in the sequence and select four additional courses from the list of approved courses for the program. The series of courses is designed to help students develop personal and organizational leadership skills. The program is interdisciplinary in nature and should be of significant benefit to students in all areas of study.

The seven courses are designed to give students a practical and theoretical grasp of leadership. The basic assumption is that leadership can be learned and, therefore, taught. This program has a unique approach to leadership education that combines practical theories of leadership and learning to provide opportunities for students to study the nature of authority, leadership, social and role dynamics, political processes and the values that orient their careers. Students learn personal, diagnostic, operational, and tactical skills. In these classes, students are challenged to investigate self, context, and strategy.

#### Required Courses (6 hours):

SLS 2260	Leadership Fundamentals	3
SLS 4272	Survey of Leadership Readings	3

#### Elective Courses (12 hours):

SLS 3930	Selected Topics in Leadership	1-4
SLS 3948	Community Leadership Practicum	3
SLS 4271	Organizational Theories and Processes	3
SLS 4273	Theories of Leadership	3
SLS 4274	Ethics and Power in Leadership	3
SLS 4276	Images of Leadership in Print and Film	3

# USF Sarasota-Manatee

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

## USF Sarasota-Manatee: A Source of Economic Development and Community Pride

USF's Sarasota-Manatee campus is located on the county line about 60 miles south of Tampa. Situated near the beautiful Sarasota Bay and adjacent to the Sarasota-Bradenton Airport, the campus is a convenient and easily accessible location for students coming from the surrounding counties. USF Sarasota-Manatee's new campus Center opened in the fall of 2006. The 100,000 square foot facility offers 24 classrooms; a 190-seat lecture/exhibition hall; seminar and video-conferencing rooms; computer labs; a daycare center; faculty and staff offices; a technology and learning center; and dining facilities. USF Sarasota-Manatee offers upper-division (junior and senior) undergraduate, graduate, and certificate programs. Full and part-time students are provided with a flexible schedule of daytime, evening, and weekend classes to accommodate commitments to work, family and community.

USF has always been on the forefront of economic development in Sarasota and Manatee counties. Leading in the production of teachers, nurses, accountants, business people and community leaders, USF Sarasota-Manatee is educating a workforce that is tremendously important in this economy and community.

In 1974, USF began offering evening courses in education, business and liberal arts at some of the public schools in Sarasota and Manatee counties. In less than a year, the USF Sarasota-Manatee campus opened on a shared site with New College of Florida, providing courses for upper-level undergraduates, graduates, and continuing education students. Now, 33 years later, USF Sarasota-Manatee attracts more than 3,500 students annually to an expanded and growing schedule of offerings that includes more than 800 courses in 47 academic programs. In recognition of its strategic location and in response to feedback from the local community, USF decided to locate its School of Hotel and Restaurant Management on this campus in 2002.

## A defining moment for USF Sarasota-Manatee:

Many say the reasons for choosing USF Sarasota-Manatee are small class size and a convenient, close-to-home location. USF Sarasota-Manatee has continued to expand its academic and extracurricular offerings, to more effectively serve the needs of the community.

The School of Hotel and Restaurant Management offers the Hospitality Management degree, which is exclusive to the Sarasota-Manatee campus, as well as certificates and minors. Other popular programs include Accounting, Elementary Education, and Psychology at the Undergraduate level, and Reading Education and Educational Leadership at the graduate level. The M. Ed. in Educational Leadership meets the local need for school principals and assistant principals.

## USF Sarasota-Manatee classes offered at MCC Venice:

USF Sarasota-Manatee offers classes at the Venice location of Manatee Community College (MCC Venice). The first class started in 2004, thanks to a private grant given by the Gulfcoast Community Foundation of Venice. The program is now permanently funded by the State of Florida. USF Sarasota-Manatee at MCC Venice offers classes in business, elementary education, interdisciplinary social science, psychology, and criminology, enabling students to take courses toward a bachelor's degree near where they live or work in the south county area.

In 2007, USF Sarasota-Manatee at MCC Venice began offering master's and certificate programs in Educational Leadership.

## List of Majors and Programs: Undergraduate Degrees

### College of Arts and Sciences

- Criminology
- English and American Literature
- History
- Interdisciplinary Social Sciences
- Professional and Technical Writing (English)
- Psychology
- Social Work

### College of Business

- Accounting
- Finance
- General Business Administration
- Information Systems and Decision Sciences
- International Business\* (partial)
- Management\* (partial)
- Marketing

### College of Education

- Early Childhood Education
- Elementary Education
- Secondary English Education\*(partial)
- Secondary Social Science\*(partial)
- Special Education

### College of Nursing

- RN to BS in Nursing

### College of Undergraduate Studies

- School of Hotel and Restaurant Management
  - Hospitality Management
- Information Technology
- Bachelor of Science in Applied Science with concentrations in:
  - General Business
  - Criminal Justice
  - Early Childhood Development
  - Hospitality Management
  - Information Technology
  - Public Administration

## Certificate Programs:

### Undergraduate

- Hotel Management
- Restaurant Management

### Post Baccalaureate

- Information Technology Management

### Graduate

- Post Master's in Education Leadership
- Geographic Information Systems
- Leadership in Developing Human Resources
- Reading Certificate and Endorsement

## Graduate Programs

### College of Arts and Sciences

- Criminal Justice Administration
- Library and Information Science
- Rehabilitation and Mental Health Counseling
- Social Work

### College of Business

- Masters of Business Administration

College of Education  
 Adult Education  
 Educational Leadership  
 Elementary Education  
 MAT Elementary Education  
 Reading Education  
 Special Education

College of Nursing  
 MS Nursing - Clinical  
 Nurse Leader Concentration

### Endorsement:

Reading Education

### 2006-2007 Enrollment

3,546 Students (funding campus)

### Average Age (Mean Age-Fall 2006)

Undergraduate: 30

Graduate: 36

### Full-Time vs. Part-Time (Fall 2006) (Undergraduate)

52 % Full-Time

48 % Part-Time

### Location

Fastest Growing Area on the Southwest Coast of Florida

### Geography Diversity

Students live in Sarasota, Manatee, DeSoto, Charlotte, Lee, southern Hillsborough counties and other surrounding counties.

### Points of Pride:

- USF Sarasota-Manatee is producing a trained workforce of teachers, principals, accountants, nurses, and community leaders.
- Partnerships with local business and economic development councils to remain attuned to community needs.
- Partnership with local community colleges to offer 2+2 admissions, making the transition to obtain baccalaureate degrees easy.
- Mid-Day Learning Community to provide daytime courses convenient for full-time students, parents of school children, and evening-shift workers.

## ACADEMIC DEGREE PROGRAM REQUIREMENTS

## COLLEGE OF ARTS AND SCIENCES

### • 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, juvenile justice 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:

1. Each of the following core courses:

CCJ 3024 (3)*	CCJ 3610 (3)*
CCJ 3701 (3)**	CCJ 4934 (3)

2. 24 semester hours of electives within the major.

\*Students who plan to continue on to graduate school should also take CCJ 4700 as one of their electives within the major. Students must take CCJ 3610 prior to enrollment in CCJ 3701.

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. A student may take an unlimited amount of CCJ 4933 or 4934 as long as they vary in title.

These residency 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

A minimum of 18 hours is required of all Undergraduate minors in Criminology including:

1. The following two required courses:

CCJ 3024 (3)	CCJ 3610 (3)
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2. An additional 12 semester hours of electives within Criminology.

Please note! Because all courses are programmed for majors only, each semester students will be required to obtain

approval for all criminology courses with the exception of CCJ 3024. This can be accomplished by emailing the USF student ID number and reference numbers to the advising office. Upon receipt of the email, students will be registered for courses. A minimum of 9 semester hours must be completed at USF. Students minoring in Criminology are subject to the Department's "2 D" Rule.

## • 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. The English Department does not accept Sign Language as a foreign language.

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 19th Century British Novel

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

LIT 4930 Selected Topics in English Studies

#### 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 3630 U.S. Latino/Latina Literature in English

AML 4261 Literature of the South

AML 4300 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 3031 Survey of Poetry

LIT 3043 Modern Drama

LIT 3093 Contemporary Literature

LIT 3144 Modern European Novel

LIT 3374 Bible as Literature

LIT 3410 Religious and Existential Themes

LIT 3930 Special Topics in English Studies

4. ENG 4013 Literary Criticism (Required for Literature majors)

#### OPTION II: 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 courses (15 hours) as follows:

Five of the following:

ENC 2210 Technical Writing

ENC 3250 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: Seven courses (21 hours) as follows:*

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.

### **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 accepted for the major with AML, CRW, ENC, ENG, ENL, LIN, or LIT prefix.*

### **Professional and Technical Writing Minor (15 hours)**

1. ENC 2210 Technical Writing  
 ENC 4260 Advanced Technical Writing  
*Any two of the following courses:*  
 ENC 3250 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

## **• HISTORY (HTY)**

The discipline of history embraces a diverse world of ideas, peoples, and events. Our faculty seeks 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 our students to move beyond traditional memorization of material to a critical level of thinking, analysis, and synthesis. Accomplished history majors are attractive to all kinds of employers in any number of fields, as well as to graduate and professional schools. USF history alumni can be found in such diverse professions as law, medicine, business, government, foreign service, politics, and education.

### **Requirements for the Major in History**

A minimum of 36 semester hours is required for a major in history. A minimum grade of "C" or better must be attained in each course counted toward the 36-hour requirement. However, grades of "D" or "F" in history coursework will be used in calculating the major GPA unless the course is retaken under the grade forgiveness policy.

#### **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. Specific state mandated common prerequisites for admission

to the major include six (6) hours of introductory history courses with AMH, EUH, LAH, ASH, HIS or WOH prefixes.

#### **Lower-level Course Requirements for the Major**

In addition to the six credits of courses to meet the common prerequisites students must complete a minimum of 12 hours of 2000 level courses, or their equivalent, to meet the lower level requirements of the major. Two of these courses must be sequential. Students may choose from introductory courses in the fields of Ancient, Medieval, Modern European, or American history to fulfill this two-course sequence. The remaining hourly requirements may be filled by taking any of the other 2000 level history courses.

Students at a community college planning to transfer to USF and major in history are encouraged to complete as many of the lower level requirements as possible at the community college level. Courses that fulfill the General Education/Gordon Rule requirement would be especially valuable. The minimum acceptable grade for courses being transferred for history department credit is a "C." If these courses have not been completed satisfactorily upon enrolling at USF, they must be taken before the degree is granted.

#### **Upper-level Course Requirements for the Major**

A minimum of 24 hours of course work from the 3000-4000 level is required to fulfill the 36-hour minimum requirement. Two of these courses, the Pro-Seminar and the Theory of History courses are required for all majors. A GPA of 2.25 in the history major is required before a student can be permitted into either of these courses. Additionally, these courses may only be taken in the last two semesters prior to graduation and may not be taken during the same semester. The remaining 16 hours of credit may be chosen from the department offerings each semester. It is recommended that history majors take ENC 3310, "Expository Writing," SPC 2600, "Public Speaking," and LIS 2937, "Library/Internet Research Skills." Additional hours can be profitably drawn from the following disciplines: African Studies, American Studies, Anthropology, Classics, Economics, Geography, Government and International Affairs, Psychology, Philosophy, Religious Studies, 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 18-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. One lower-level sequence is required, earning 6 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 minor field credit.

## **• 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. Stu-

dents plan their program in ongoing consultation with the advisor who approves each individual curriculum contract.

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

Community college courses may be counted toward the ISS degree. These could include General Education credits, Gordon Rule classes, and courses such as the examples listed below. A grade of "C" is the minimum acceptable grade.

AFA 2000 Introduction to the Black Experience [In Africa and Its Diaspora]	(3)
AMH 2010 American History I	(3)
AMH 2020 American History II	(3)
ANT 2000 Introduction to Anthropology	(3)
ECO 2013 Economic Principles (Macroeconomics)	(3)
ECO 2023 Economic Principles (Microeconomics)	(3)
GEA 2000 World Regional Geography	(4)
POS 2041 American National Government	(3)
POS 2112 State and Local Government	(3)
SYG 2000 Introduction to Sociology	(3)
WST X015 Introduction to 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 (STA 2122) is the third core course required for majors in Interdisciplinary Social Sciences.

### Coursework required for Interdisciplinary Social Sciences Majors

1. 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)
2. The ISS student chooses between two cognate areas and completes twelve hours in each. 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 will automatically count toward the ISS degree.**
4. The completion of 42 approved hours of course work from the College of Arts and Sciences (CAS), with a minimum of 30 hours at the 3000 or above level.
5. Students must maintain a minimum grade point average of 2.0 in ISS to graduate.
6. ISS majors must satisfy two semesters of a foreign language in order to graduate.
7. Other personal curricula may be tailored for those highly motivated students, with a minimum grade point average of 3.2, developed with the approval of the advisor. This course of study will be directed toward the special educational

interests of these students. An in-depth Honors Research Paper will be required of students taking this option.

**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:

Africana Studies, American Studies, Anthropology, Communication Sciences and Disorders, Criminology, Economics, Environmental Science and Policy, Gerontology, Geography, History, Humanities, International Studies, Interpreter Training, Latin American Studies, Library and Information Science, Multidisciplinary Behavioral Healthcare, Political Science, Psychology, Public Administration, Religious Studies, Social Work, Sociology, Woman's Studies.

### • 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 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 state-approved **prerequisite courses** 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. To be admitted to the major in Psychology, a student must complete all of the course prerequisites.

PSY X012 Introduction to Psychology **and** any other lower level Psychology course within the Psychology inventory  
STAXXXX Any level Statistics course (X000 - X099)  
BSCXXXX Any level General Biology course (**or** BSC X200-X209, **or** ZOO X010)

Once admitted to the major, continuation in the major requires successful completion of PSY X012 Introduction to Psychology, PSY 3204 Psychological Statistics (or another approved Statistics course), and PSY 3213 Research Methods in Psychology, with at least a grade of C (not C-) and have a

grade point average for those three courses of 2.5 or higher.

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 3204 (or other qualifying statistics course) 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:

#### Requirements for Psychology Majors

- 2000/3000 Level Requirement (6 semester hours)
  - PSY 2012 Introduction to Psychological Science (if not already taken at a community college)
  - PSY 3204 Psychological Statistics
- Methods Course Requirement (7 semester hours)
  - PSY 3213 Research Methods in Psychology
  - 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.
- 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 4004C Physiological Psychology
- EXP 4304 Motivation
- EXP 4680C Cognitive Psychology

#### Group II

- CLP 4143 Abnormal Psychology
- INP 4004 Industrial Psychology
- SOP 4004 Social Psychology
- DEP 4053 Developmental Psychology
- PPE 4003 Personality

and any 3 additional courses numbered at the upper-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.

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 3204 (or other qualifying statistics course) 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 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, and any four upper-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.

### Psychology Honors Program

The purpose of the Honors Program is to provide a select group of qualified 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.

### • 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 during enrollment in either SOW 3203 or SOW 3210.

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.

A student must maintain a GPA of 2.75 minimum in social work courses while enrolled in the program and demonstrate behaviors that are congruent with professional standards and values as described above in order to proceed in the major. Any student who fails to maintain at least a 2.75 GPA in the social work major and/or demonstrates behaviors that are incongruent with the standards and values of the profession may not proceed in the major.

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 "C-" grade or below in any SOW core courses, even if the student's GPA is 2.75 or above with the inclusion of the a "C-" grade of below.

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 3203, "Introduction to Social Work" and SOW 3210, "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 may 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.

### 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

XXXXXXX	American Government (American National Government or American Government)	
	or	
	Introduction to Public Policy	(3)
XXXXXXX	Biology (Human Biology or Anatomy & Physiology)	(3)
ECOXXXX	Economics (Microeconomics or Macroeconomics or Introduction to Economics)	(3)
XXXXXXX	Introductory Psychology	(3)
XXXXXXX	Introductory Sociology/Social Problems	(3)

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 3203 Introduction to Social Work and SOW 3210 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.

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

<i>American Government</i>		
POS 2041	American National Government	(3)
POS 2112	State and Local Government and Politics	(3)
POS 3182	Florida Politics and Government	(3)
<i>Biology</i>		
BSC 1005	Principles of Biology for Non-majors	(3)
BSC 2022	Biology of Aging	(3)
BSC 2025	Food: Personal & Global Perspectives	(3)
BSC 2035	Sex and Today's World	(3)
WST 2600	Human Sexual Behavior	(3)
<i>Economics:</i>		
ECO 1000	Basic Economics	(3)
<i>Psychology:</i>		
PSY 2012	Psychological Science I	(3)
<i>Sociology:</i>		
SYG 2000	Introduction to Sociology	(3)
SYG 2010	Contemporary Social Problems	(3)
SYD 4800	Gender and Society	(3)
SYO 3530	Social Inequalities in a Global Society	(3)
SYP 3000	Social Psychology	(3)
SYP 4510	Sociological Aspects of Deviance	(3)

### Foundation Courses (F\*) for 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 [In Africa and Its Diaspora]	(3)
AFA 4333	African Diaspora: Blacks in the Construction of the Americas	(3)

- AFA 4335 Black Women in America (3)  
 AFS 2250 Culture and Society in Africa (3)  
 AMS 3700 Racism in American Society (3)
- Anthropology:**  
 ANT 2000 Introduction to Anthropology (3)  
 ANT 2410 Cultural Anthropology (3)  
 ANT 3005 The Anthropological Perspective (3)  
 ANT 4316 Ethnic Diversity in the USA (3)  
 ANT 4432 The Individual and Culture (3)
- Sociology:**  
 SYD 3700 Racial and Ethnic Relations (3)
- Women's Studies:**  
 AMH 3561 American Women I (4)  
 AMH 3562 American Women II (4)  
 LIT 3383 The Image of Women in Literature (3)  
 PUP 4323 Women and Politics (3)  
 SOP 3742 Psychology of Women (3)  
 WST 3015 Introduction to Women's Studies (3)  
 WST 3311 Issues in Feminism (3)  
 WST 4262 Literature by American Women of Color (3)  
 WST 4410 Third World Women Writers (3)
2. Both of the following Social Work courses, earning a "B" or better:  
 SOW 3210 American Social Welfare System (3)  
 SOW 3203 Introduction to Social Work (3)

### Social Work Core Courses

- Human Behavior and Social Environment Courses  
 SOW 3101 (4) SOW 3102 (3) SOW 4522 (3)
  - Social Welfare: Policy & Program Course  
 SOW 4233 (3)
  - Social Research Course  
 SOW 3401 (3)
  - Social Work Practice Courses  
 SOW 4341 (5) SOW 4343 (5) SOW 4930 (3)
  - Field Experience  
 SOW 4510 (3) SOW 4510L (6)
- Summary:**  
 Core Courses 29 hours  
 Field Experience 9 hours  
 TOTAL 38 hours

## COLLEGE OF BUSINESS

### Undergraduate Admission to the College

Admission to the College of Business is based upon availability of faculty and space within each discipline. The College is an upper-level, limited access college, which means that it has admission requirements **in addition to** those of the University in general. Students interested in pursuing a degree in the areas offered by the College of Business must complete the required prerequisites for entering the college in addition to other related criteria listed in 1-4 below.

### Requirements for Admission to the College of Business

- Students must satisfy the following criteria:
  - Minimum of 60 semester hours of college credit earned.
  - Minimum of 2.5 cumulative grade point average on all college-level work and a minimum of 2.0 on all credit attempted at USF, including any prior to renewal.
  - Completion of the following State Mandated Common Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:
    - ACG X021 Financial Accounting  
 (or ACG X001 & ACG X011)
    - ACG X071 Managerial Accounting
    - CGS X100 Computers in Business  
 (or acceptable substitute i.e., CGS X530, CGS X570, CGS X531, CGS X0000, MAN X812)
    - ECO X013 Principles of Macroeconomics
    - ECO X023 Principles of Microeconomics

- MAC X233 Elementary Calculus or MAC 2230  
 STA X023 Introductory Statistics or QMB X100 (or STAX122 although STA X023 and QMB X100 are preferred).
- In computing entry grade point average all business and economics courses taken for S or U grades will be converted to C or F, respectively.
  - Students working toward meeting the limited access criteria will be permitted to enroll in all foundation courses in Business (listed below) except GEB 4890, provided they have completed 60 semester hours, a minimum of 2.3 overall GPA, and have met course prerequisites.
  - A minimum score of 550 on paper and pencil or 213 on computerized TOEFL is required, when applicable.
  - Students must be admitted to the College of Business at least one term before their anticipated graduation date.

### Transfer Students

Transfer credits will be accepted from accredited institutions; however, all hours earned may not be applied toward USF business degree requirements. Individual courses will be evaluated by an academic advisor and appropriately credited toward requirements in the student's program at USF.

Florida public junior/community college students enrolled in an Associate of Arts (AA) program should normally complete the general education requirements and the State Mandated Common Prerequisites at the junior/community college. As a rule, AA students should avoid taking any business courses at the junior/community college that are listed as 3000 and 4000 level courses at USF. Normally, courses in finance, marketing, management, and accounting, as well as other business administration and economics courses, taken at the lower division level that are offered as upper division courses at USF will not be accepted for upper division credit in business administration or economics. In general, business courses taken at the lower level, at technical schools, or as part of professional or military training, are not applicable to the degree programs of the College of Business. Exceptions to this policy will be made only upon proper validation of such courses. Validation consists of successfully completing specified advanced courses in the discipline.

Florida public junior/community college students pursuing an Associate of Science (AS) program in Business Administration are fully admissible to USF. Please see a business advisor to determine the articulation courses, discuss admission to the College of Business and prepare a program plan for degree completion. Students transferring to the College of Business with an A.S. in Business Administration may earn a major in General Business Administration only.

Florida public junior/community college students pursuing an Associate of Science (AS) program in any other discipline should contact the Director of the BSAS program in the Office of Undergraduate Studies, SVC 2002, (813) 974-4051, for information regarding course transferability and degree articulation.

## BACCALAUREATE LEVEL DEGREE PROGRAMS

### General Requirements for B.A./B.S. Degree in Business

Students must satisfactorily complete a minimum of 120 semester hours. Of the minimum 120, at least 60 hours must be business courses, and a minimum of 54 hours must be non-business courses (i.e., all courses not normally offered in the College of Business). Additional electives may be required to reach a minimum of 120 hours and can be either business or non-business.

As a part of the 120-hour requirements for the B.A. or B.S. degree, the following criteria also apply:

**GPA:** A minimum grade-point average of 2.0 must be achieved in the following areas:

- The major and minor fields
- College foundation courses
- All USF coursework
- Overall GPA (USF and all transfer work)

**CLAST and Gordon Rule:** Students must have satisfactorily completed CLAST and the writing and computation course requirements of 6A-10.30 ("Gordon Rule").

**Foreign Language:** For a Bachelor of Arts degree, students must demonstrate competency in a foreign language (refer to the Academic Policies and Procedures section of this catalog). The College of Business does not approve American Sign Language for the Foreign Language Exit Requirement.

**Residency:** College of Business residency requirements for graduation exceed the minimum requirements established for USF. Students are required to complete satisfactorily at USF a minimum of 50 percent (30-33 semester hours depending on major) of required business courses, including 12-18 semester hours in the major field. Normally, independent study and independent research courses do not fulfill this requirement.

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

**No S/U courses in major or minor:** All courses in the major or minor field and all foundation coursework in business must be taken on a graded basis; the S/U option is not available.

## Degree Requirements

### NON-BUSINESS (54 hrs. minimum) Semester Hours

1. General Education Requirements\*
  - a. English Composition 6
  - b. Quantitative Methods (Calculus is required) 6
  - c. Natural Sciences 6
  - d. Social Sciences 6
  - e. Historical Perspectives 6
  - f. Fine Arts 3
  - g. African, Latin American, Middle Eastern, or Asian Perspectives 3**Total** 36
2. Liberal Arts Exit Requirements\*
  - a. Major Works and Major Issues 6
  - b. Literature and Writing 3**Total** 9

\*See Liberal Arts Requirements for more details

3. Speech/Writing Requirements for Business Majors
  - a. SPC 2600 Public Speaking 3
  - or
  - COM 3110 Communication for Business and the Professions
  - b. ENC 3213 Professional Writing 3
  - or
  - ENC 3310 Expository Writing or equivalent**Total** 6

4. Additional elective credits  
Students may or may not need to take additional hours to meet the minimum of 54 non-business credits (see "Electives" heading below for a suggested course)

**Total non-business credit hours** 54

### BUSINESS (60-66 hrs. minimum)

1. Foundation Courses in Business  
Required - a minimum grade of C- in each foundation course with an overall 2.0 GPA
 

ACG 2021 Principles of Financial Accounting	3
ACG 2071 Principles of Managerial Accounting	3
ECO 2013 Economic Principles: Macroeconomics	3
ECO 2023 Economic Principles: Microeconomics	3

QMB 2100 Business & Economic Statistics I	3
BUL 3320 Law and Business I	3
FIN 3403 Principles of Finance	3
ISM 3011 Information Systems in Organizations	3
QMB 3200 Business & Economic Statistics II	3
MAN 3025 Principles of Management	3
MAR 3023 Basic Marketing	3
GEB 4890 Strategic Mgmt/Decision Making	3
<b>Total</b>	<b>36</b>

2. Major Requirements (specific courses for each major are listed in the "Departments and Programs" section below.) 18-24
3. Business Electives:
 

CGS 2100*	3
FIN/MKT/MAN majors only	3
<b>Minimum Business Credits</b>	<b>60-66</b>

### ELECTIVES IN BUSINESS OR NON-BUSINESS

Sufficient elective courses to reach a minimum of 120 hours (ranges from 0-6 credit hours if above requirements are met)

**Minimum total hours** 120

\*Waiver examination administered by the College only may be substituted for CGS 2100. See Advisor for details.

## USF Campuses and Teaching Sites

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

*St. Petersburg:* Accounting, Economics, Finance, General Business Administration, Management, Management Information Systems, and Marketing

*Sarasota:* Accounting, Finance and General Business Administration

*Lakeland:* General Business Administration and Marketing

*North Pinellas Teaching Site (at St. Petersburg College, Clearwater):* offers the General Business Administration program.

Students may need to travel from one USF campus to another in order to finish their particular program within a shorter time period.

## Student Advising and Records

The Office of Undergraduate Advising and Programs (located in Ferguson Hall, BSN 2102) provides the following:

1. Orientation for freshmen and transfer students.
2. Academic advising and program information for:
  - a. pre-business students who have applied to the College of Business and declared business as their intended major.
  - b. students who meet all College of Business admission requirements.
3. Evaluation of undergraduate transcripts for all declared and admitted business transfer students.
4. Maintenance of academic advising records for the Tampa, Lakeland and Sarasota campuses for all declared and admitted business students.
5. Certification of graduation.

### Advising Offices

*Tampa Campus:* BSN 2102, (813) 974-4290 or schedule an advising appointment on-line: <http://www.coba.usf.edu/services/ugrad/index.html>.

*St. Petersburg Campus:* DAV 134, (727) 873-4511

*Sarasota Campus:* SMC-C107, (941) 359-4330

*Lakeland Campus:* LLC 2100, (863) 667-7063

### Office Hours

Tampa Campus: 8am-6pm Monday-Thursday.

8am-4pm on Fridays.

St. Pete Campus: 8am-6pm Monday-Thursday.

8am-5pm on Fridays.

Sarasota Campus: 8am-6pm Monday-Thursday.

8am-5pm on Fridays.

Lakeland Campus: 9am-6pm Monday-Thursday.  
8am-5pm on Fridays.

While the University provides advising services to assist students with academic planning, **the responsibility for ensuring that all graduation requirements are met ultimately rests solely with the student.**

### Academic Dismissal

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

## DEPARTMENTS AND PROGRAMS

### • GENERAL BUSINESS (GBA)

The General Business major provides students with substantial preparation in two functional areas of business and prepares them for positions in a business world that is increasingly interdisciplinary and values cross-functional abilities.

**Requirements for the B.A./B.S. Degree:** Within the 120-semester-hours program as listed in the General Requirement section, students must complete two minors from the following business disciplines: accounting, economics, finance, management, management information systems, or marketing. A minimum of 24 hours of upper-level course work must be earned with a GPA of at least 2.0 in each minor. The requirements for each minor are listed with the description of the major.\* Minors applied to the General Business major will be referred to as concentrations. Concentrations used as part of the General Business Major will not also be subsequently listed as independent minors on the transcript.

**\*One exception:** A minor/concentration in economics must consist of four upper level economics courses, excluding QMB 3200.

**Please note:** Courses used to satisfy a major in accounting, economics, finance, information systems management or marketing may not be used to satisfy either minor or economics concentration requirement for the GBA major. Courses used in the minors or concentrations for the GBA major can not be used for a major.

**Requirements for a Minor in Business Administration (Non-Business Majors Only):** Students are required to process an application for the minor in the College of Business. Students must complete an introductory computer course (with a content similar to CGS 2100 Computers in Business) or obtain a waiver for this requirement from the College of Business by demonstrating competence in the use of computers.

1. The course requirements are as follows:

ACG 3074	Managerial Accounting for Non-Business Majors*	3
ECO 1000	Basic Economics**	3
FIN 3403	Principles of Finance	3
MAN 3025	Principles of Management	3
MKT 3023	Basic Marketing	3
MAN 4802	Entrepreneurship & Small Business Management	3
Total		18

2. A grade point average of 2.0 or better must be achieved in the minor course work at USF and in all minor courses completed at other institutions.

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

\*ACG 2021 & ACG 2071 can be substituted for ACG 3074.

\*\*ECO 2013 & ECO 2023 can be substituted for ECO 1000.

### • ACCOUNTING (ACC)

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

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

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

**Requirements for the B.A./B.S. Degree:** In addition to the non-business and business foundation courses listed in the General Requirements section, students must complete a minimum of 24 hours of upper-level accounting courses, of which 18 credit hours must be taken in residence at USF. In addition to the State Mandated Common Prerequisites for admission to the College of Business (or equivalents) with a grade of C or higher, students admitted to the School of Accountancy must successfully complete (with a grade of C, 2.0 or better) ACG 3103 and ACG 3341 before enrolling in other upper level accounting courses. If the student repeats ACG 3103 and/or ACG 3341, only the first two attempts (W's count as attempts) will be considered for continuation in the major. Those students who fail to meet the requirements to continue in this program will be counseled into other programs either in COBA or other colleges as appropriate. A grade of "C" or higher (not C-) is required in the 24 hour major courses plus a 2.0 GPA in all major course work at USF and an overall 2.0 GPA including transfer work.

#### Required Accounting Courses:

ACG 3103	Intermediate Financial Accounting I	3
ACG 3113	Intermediate Financial Accounting II	3
ACG 3341	Cost Accounting and Control I	3
ACG 3401	Accounting Information Systems	3
ACG 4632	Auditing I	3
TAX 4001	Concepts of Federal Income Taxation	3

#### Electives (6 hours selected from):

ACG 4123	Intermediate Financial Accounting III	3
ACG 4351	Cost Accounting and Control II	3
ACG 4642	Auditing II	3
ACG 4931	Selected Topics	3
ACG 5201	Advanced Financial Accounting	3
ACG 5505	Governmental/Not-for-Profit Accounting	3
ACG 5675	Internal and Operational Auditing	3
TAX 5015	Federal Taxation of Business Entities	3

Total Required Hours 24

The student's program must also include course work taken in behavioral sciences and humanities, such as psychology, anthropology, and sociology, and the political environment of business and society, such as political science, public administration, and ethics. College of Business advisors will recommend courses that will satisfy the program requirements.

Accounting majors can use the forgiveness policy only once in upper-level accounting courses. Accounting courses taken by accounting majors on an S/U basis will not be counted toward the 120-hour graduation requirement. Independent Research, ACG 4911, will not be accepted as credit toward the minimum degree requirements in the accounting concentration.

**Requirements for a Minor in Accounting (for Business Majors Only):** Students majoring in Business may minor in Accounting. The requirements are:

1. ACG 3103	Intermediate Financial Accounting I	3
ACG 3341	Cost Accounting and Control I	3
ACG 3401	Accounting Information Systems	3
TAX 4001	Concepts of Federal Income Taxation	3

- A grade of "C" (not C-) or better must be earned in each of the four upper-level accounting courses taken. A grade point average of 2.0 or higher must be achieved in all minor course work. All attempts will be included in the GPA unless grade forgiveness has been used. Only one grade forgiveness may be used in the minor.
- All 12 credit hours must be taken in residence at USF.

### • FINANCE (FIN)

The Finance major provides a broad-based, analytical program for students anticipating a career in the management of both large and small organizations. Finance provides a good background for students seeking general careers in business. Finance majors can elect to take courses in the following areas that prepare them for entry and advanced careers in

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

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

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

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

**Requirements for the B.A./B.S. Degree:** Within the 120-semester-hour program listed in the General Requirements section, students must complete a minimum of 18 hours of upper-level finance courses beyond FIN 3403. At least 12 hours must be taken in residence at USF. A grade point average of 2.0 or higher must be achieved in all major course work at USF and an overall 2.0 GPA including transfer work.

Required Finance Courses:

FIN 4303	Financial Institutions and Markets	3
FIN 4414	Advanced Corporation Finance	3
FIN 4504	Principles of Investments	3

Additional upper-level Finance electives	9-15
Total	18-24

Finance electives can be selected from among those 3000 and 4000 level classes that have FIN, REE, and RMI prefixes. At least two electives must have an FIN prefix. Independent Study (FIN 4905) and Independent Research (FIN 4915) will not be accepted as credit toward the minimum degree requirements for a major in Finance. The courses listed below are suggested electives that are relevant for students who might want to pursue careers in the following areas:

#### Corporate Financial Management

FIN 3604	International Finance
FIN 4412	Working Capital Management
FIN 4443	Financial Policies and Strategies
FIN 4461	Financial Statements Analysis

#### Management of Financial Institutions

FIN 3233	Money and Banking
FIN 3604	International Finance

FIN 4324	Bank Management
FIN 4412	Working Capital Management
FIN 4443	Financial Policies and Strategies
FIN 4461	Financial Statement Analysis

#### Investments

FIN 3604	International Finance
FIN 4461	Financial Statement Analysis
FIN 4514	Advanced Investment Analysis & Management
FIN 4934	Selected Topics in Finance*

#### Financial Services

FIN 3604	International Finance
FIN 4514	Advanced Investment Analysis & Management
FIN 4934	Selected Topics in Finance*
RMI 3011	Principles of Insurance

\*Please see your academic advisor for the necessary selected topics course.

**Requirements for a Minor in Finance (for Business Majors only):** Students majoring in Business minor in Finance. The requirements are

- FIN 4504 Principles of Investments 3  
FIN 4303 Financial Institutions and Markets 3  
FIN 4414 Advanced Corporation Finance 3  
Another upper-level Finance Elective with an FIN, REE, or RMI prefix 3  
Total Finance Hours 12
- A grade point average of 2.0 or better must be achieved in the minor course work at USF and in all minor courses completed at other institutions.
- At least 9 of the required 12 credit hours must be taken in residence at USF.

### • INFORMATION SYSTEMS AND DECISION SCIENCES (ISM)

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

**Requirements for the B.A./B.S. Degree:** Within the 120-semester-hour program listed in the General Requirements section, students must complete a set of 5 required MIS courses and 3 approved MIS electives. MIS majors must earn a "C" or higher (not C-) in the five required MIS courses and must have a 2.0 or higher GPA in the major; they can use grade forgiveness for only one upper-level MIS course. At least 15 hours must be taken in residence at USF. A grade point average of 2.0 or higher must be achieved in all major course work at USF and an overall 2.0 GPA including transfer work.

Required MIS Courses:

ISM 3232	Business Application Development*	3
ISM 3113	Systems Analysis and Design*	3
ISM 4212	Database Administration	3
ISM 4220	Business Data Communications	3
ISM 4300	Managing Information Resources	3

Plus Approved MIS Electives**	9
Total Hours Required for B.A./B.S. Degree	24

\*ISM 3232 (Business Application Development) is recommended to be taken before, or concurrently with, ISM 3113 (Systems Analysis and Design).

\*\*No more than three hours of ISM 4950 can be counted as MIS electives. (ISM 4905 will not count as an MIS elective.)

**Requirements for a Minor in MIS (for Business majors only):** Students majoring in Business may minor in MIS. The requirements are

- ISM 3113 Systems Analysis and Design 3  
ISM 4212 Database Administration 3  
Approved MIS Elective 6  
Total MIS hours 12

2. A grade point average of 2.0 or better must be achieved in the minor course work at USF and in all minor courses completed at other institutions.
3. At least 9 hours of the required 12 credit hours must be taken in residence at USF.

## • MANAGEMENT AND ORGANIZATION (MAN)

The undergraduate degree in Management prepares students for entry-level positions in general business and management, as well as human resources/organizational development positions and small business management. It also prepares students for graduate study in Business such as the MBA program. Management is a dynamic field that focuses on planning, organizing, and leading in business, non-profit and governmental organizations. Managing people in organizations involves behavioral concepts such as motivation, personality, teamwork, communication and leadership skills. Management is responsible for the triple bottom-line: financial profits, environmental good and social good. With a focus on people in organizations, managers develop the human capital of organizations. Motivating and developing an organization's workforce today requires attention to relationships with people inside and outside the organization, locally and across the world. The curriculum in management covers all aspects of management including: human resources development, organizational behavior theory, leadership, organizational development, negotiation, social issues in management, and strategic planning. Students leave this program knowing how to apply the latest ideas and concepts in management to organizational issues. Analytical skills, communication skills and leadership skills are developed in both classroom and assignment activities throughout the curriculum.

**Requirements for the B.A./B.S. Degree:** Within the 120-semester-hour program listed in the General Requirements section, students must complete 18 hours of management beyond MAN 3025. At least 12 hours must be taken in residence at USF. A grade point average of 2.0 or higher must be achieved in all major course work at USF and an overall 2.0 GPA including transfer work.

Required Management Courses:

MAN 3240 Organizational Behavior Analysis	3
Additional upper-level management courses	15-21
<b>Total</b>	<b>18-24</b>

MAN 4504 and MAN 4507 do not count toward the management major.

**Requirements for a Minor in Management (for Business Majors Only):** Students majoring in Business may minor in Management.

The requirements are:

1. MAN 3240 Organizational Analysis 3  
MAN 3301 Human Resource Management 3  
MAN 4282 Organizational Assessment 3  
MAN 4600 International Management 3  
Total Management hours 12
2. A grade point average of 2.0 or better must be achieved in the minor course work at USF and in all minor courses completed at other institutions.
3. At least 9 hours of the required 12 credit hours must be taken in residence at USF.

## • MARKETING (MKT)

Marketing is a dynamic field with many dimensions, including product selection and planning, product distribution, pricing and promotion. Marketing poses many challenges and yields generous rewards for those who meet these challenges. Marketing operations are carried out domestically and internationally in virtually all business organizations that offer

a product or service. Many marketing concepts are applicable to the operations of non-profit organizations such as governmental, educational, and health care institutions, as well as charitable and political campaigns.

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

The Marketing program at USF prepares students for initial entry and management positions in many areas of marketing with a curriculum that is concerned with:

1. Understanding how to attract and retain customers;
2. Having the ability to find and analyze information;
3. Being able to design, collect, and analyze marketing information to be used in managerial decision making;
4. Using electronic and traditional media to create satisfied loyal customers;
5. Having personal communication skills that businesses demand;
6. Being capable of writing a winning marketing plan;
7. Understanding and being able to apply the latest marketing concepts, including marketing automation.

**Requirements for the B.A./B.S. Degree:** Within the 120-semester-hour program listed in the General Requirements section, students must complete a minimum of 18 hours in marketing beyond MAR 3023. At least 12 hours must be taken in residence at USF. A grade of "C" or higher (not C-) is required in all Marketing Classes plus a 2.0 GPA in all major course work at USF and an overall 2.0 GPA including transfer work.

Required Marketing Courses:

MAR 3823 Marketing Management	3
MAR 3613 Marketing Research	3
MAR 3400 Professional Selling	3
MAR 4333 Electronic/Promotion Management	3
MAR 4824 Marketing Management Problems	3
Additional upper-level marketing courses	3-9
<b>Total</b>	<b>18-24</b>

It is strongly recommended that marketing majors take an internship course as part of their plan of study. It is also recommended that courses in information technology, finance, management, and international business be included in the business electives.

Undergraduate students in the College of Business not majoring in Marketing can greatly enhance their attractiveness to employers by taking a minor in Marketing or taking selected courses from the Marketing curriculum to broaden their backgrounds. Marketing is particularly complementary for College of Business students majoring in Information Systems, Finance, and Management.

**Requirements for a Minor in Marketing (for Business Majors Only):** The requirements are:

1. MAR 3823 Marketing Management 3  
Any 3 upper level Marketing courses with a MAR prefix (excluding MAR 4824) 9  
Total Marketing Hours 12
2. A grade of "C" or higher (NOT C-) is required in all marketing minor coursework.
3. A grade point average of 2.0 or better must be achieved in the minor course work at USF and in all minor courses completed at other institutions.
4. At least 9 hours of the required 12 credit hours must be taken in residence at USF.

## COLLEGE OF EDUCATION

### Admission Requirements for Students Entering Educator Preparation Programs

Students who wish to teach in a particular subject area or field should begin preliminary coursework during their first year in college. However, students are not admitted to the College of Education (and into an educator preparation program) until they finish the university's liberal arts freshman and sophomore requirements and the state-mandated common prerequisites for education, have the appropriate GPA, and have passed the CLAST, PRAXIS, or GKT.

Students may apply for entrance into one of the upper-level educator preparation programs offered by the College of Education after completing prerequisite courses. All students who plan to teach apply for admission to an educator preparation program through the Student Academic Services Office of the College of Education.

Admission to an upper-level educator preparation program is contingent upon meeting the following preliminary college requirements:

1. Completion of a College of Education application form.
2. Completion of General Education requirements. (For USF, see "Academic Policies and Procedures - Liberal Arts Requirements" section of the catalog.) General education courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Community College Counseling Manual. **Note:** Students should attend a pre-education advising session to make certain they are enrolled in courses appropriate to their intended major.
3. Completion of all portions of the CLAST, PRAXIS I, or General Knowledge Test with passing scores. No exemptions or waivers accepted.
4. Although no longer required for admission to the College of Education, students are still encouraged to take the ACT or SAT. Many existing scholarships still require these scores.
5. Completion of State Mandated Common Prerequisites  
**Note:** The following prerequisites are required for all education majors. Students should consult their intended majors (listed under "Departments and Programs," below) for a list of other specific course prerequisites and requirements beyond these listed below:
  - EDF X005 Introduction to Education (3)
  - EDG X701\* Teaching Diverse Populations (3)
  - EME X040 Introduction to Educational Technology (3)

\*In addition to EDG X701, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

**Completion of General Education requirements:** General education courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Community College Counseling Manual. (For USF, see "Academic Policies and Procedures - Liberal Arts Requirements" section of the catalog.)

#### USF International/Diversity Courses Credits

AFA 2000	Introduction to the Black Experience in Africa and Its Diaspora	3
AFS 2250	Culture and Society in Africa	3
AMH 2010	American History I	3
AMH 2020	American History II	3
AMS 2030	Introduction to American Studies	3

ANT 2000	Introduction to Anthropology	3
ANT 2410	Cultural Anthropology	3
ARH 2050	History of Visual Arts I	3
ARH 2051	History of Visual Arts II	3
BSC 2025	Food: Personal and Global Perspectives	3
COM 2000	Introduction to Communication	3
EGN 2031	History of Technology	3
EUH 2011	Ancient History I	3
EUH 2021	Medieval History I	3
EUH 2022	Medieval History II	3
EUH 2030	Modern European History I	3
EUH 2031	Modern European History II	3
FIL 2001	Film: Language of Vision	4
GEO 1930	Geography of Current Events	4
GEO 2371	Introduction to Earth Systems Science	3
INR 1015	World Perspective	3
LAH 2734	Latin American History in Film	3
LIT 2010	Introduction to Fiction	3
LIT 2040	Introduction to Drama	3
MUL 2011	The Enjoyment of Music	3
MUH 2051	Folk and Traditional Music of World Cultures	3
MUH 2632	Music in the United States	3
MUL 2111	Introduction to Music Literature	3
POS 2080	The American Political Tradition	3
REL 2300	Introduction to World Religions	4
REL 2306	Contemporary World Religions	4
REL 3501	History of Christianity	4
SPT 2524	Women Writers of Latin America	3
SYG 2000	Introduction to Sociology	3

6. Minimum GPA: An overall minimum GPA of 2.50 on all attempted hours.

7. Additional criteria as may be established by each program. Credit requirements in each major include courses in the following categories: Professional Education Core, Teaching Specialization Preparation, and Liberal Arts Exit Requirements. For questions concerning General Education and Liberal Arts Exit Requirements, refer to the Liberal Arts Requirements section of the catalog. See specific requirements for each major listed in "Departments and Programs" below.

Some programs accept a limited number of students. Additionally, certain programs admit students only in a specified semester. Students should refer to the specific program descriptions in this catalog for additional admission information and prerequisites. Information regarding admission requirements for programs may also be obtained from Pre-Education Advising (DAC 107).

### Education Advising

Student Academic Services (SAS) is responsible for many of the processes and procedures that support the academic pursuits of students in the College. The department's major areas of responsibility include: Pre-Education Advising, Undergraduate Advising, Graduate Studies, Teacher Certification, and Internship. SAS is committed to serving the University community, particularly students in the College of Education.

Students are ultimately responsible for knowing and fulfilling all university, college, and degree program requirements for graduation. Students are encouraged to make an appointment with an academic advisor in EDU 106 each semester. For additional contact information, please call the SAS office or visit the web site at <http://www.coedu.usf.edu/sas/>.

#### Advising Offices

**Tampa Campus:** For admitted College of Education students, EDU 106, (813) 974-1804. For pre-education students, DAC 107, (813) 974-2979.

**Sarasota Campus:** USS 805D, (941) 359-4331 or 4330.

**Lakeland Campus:** LLC 2100, (800) USF-5636 (in state only), or (863) 667-7023

**Office Hours:** 9 a.m. – 5 p.m. Monday through Friday. The Tampa office is closed on Wednesdays until 10:00 a.m. Generally offices are open 9:00 a.m. - 5:00 p.m. Monday through Friday. Some offices are open before 9 a.m. or until 6, Mondays through Thursdays; call the offices listed above for exact hours and appointment times.

**Application Information:**

(Admitted USF students are eligible.) For general information, call (813) 974-2979. The admission process to the College of Education (COE) is separate and in addition to admission to USF. The deadlines to submit an application are as follows: Fall Semester (July 15<sup>th</sup>), Spring Semester (November 15<sup>th</sup>), and Summer Semester (April 15<sup>th</sup>). Not all majors accept applications for summer entrance. Contact the Pre-Education Advising Office (DAC 107) for those majors that accept summer applicants. Tampa Campus students must register and attend a College of Education orientation after being accepted into the College of Education.

During the College Orientation, students receive information about their degree program, and register for courses for their first semester. Regional campus students should call their appropriate campus for orientation and advising appointments.

### Time Limitations

The College of Education may accept professional education and specialization coursework completed at this University or at other accredited institutions as follows:

1. Courses completed within the last five years may be accepted.
2. Courses completed over five years but less than ten years ago must have the approval of the chairperson from the department in which the equivalent course is taught.
3. Courses completed ten years ago or longer will count as elective credit only.

### Qualifications for Internship Experience in Educator Preparation Programs

The final internship experience involves observing and teaching in an early childhood, elementary, secondary, or exceptional classroom. In most programs internship sites include the entire spectrum of sites available in the various counties served by USF.

Special requirements for enrollment in the final internship and seminar courses are:

1. Admission to the College of Education.
2. Completion of General Education, "Gordon Rule," and all other program prerequisites.
3. Passing scores on all sections of the General Knowledge Test.
4. Completion of an application for the final internship by the deadline noted. Applications for final internship are made through the Student Academic Services website ([www.coedu.usf.edu/sas/](http://www.coedu.usf.edu/sas/)). Application deadline for Fall Semester is January 15<sup>th</sup>. Application deadline for Spring semester is June 15<sup>th</sup>.
5. Completion of fingerprinting and background check as required by the school district in which the student is placed.
6. Elementary, Early Childhood and Physical Education programs require completion of all professional education and specialization course work except for EEX 4070 and Senior Seminar.
7. Special Education programs require completion of all professional education and specialization coursework.
8. Secondary Education Programs require completion of the professional course sequence except for EEX 4070/EDF 4430 and a minimum of two thirds of the specialization coursework.
9. Elementary, Early Childhood, and Physical Education programs require a combined grade point average of 2.50 in professional education and specialization coursework as

well as an overall USF GPA of 2.50. Special Education programs require an overall USF GPA of 2.50. Secondary Education programs require a minimum GPA of 2.50 in professional education and specialization coursework or an overall USF GPA of 2.50.

10. Students must earn a minimum "C-" grade or "S" in their required major courses.

### College Requirements for Graduation from Educator Preparation Programs

To be certified by the College of Education for graduation, a student must have:

1. Earned a minimum of 120-semester hours credit.
2. Successfully complete all program requirements for ESOL.
3. A minimum overall USF grade-point average of 2.50 or a minimum GPA of 2.50 in teaching specialization courses and a minimum GPA of 2.50 in the Professional Education sequence is required for Secondary Education Programs. The Physical Education, Elementary and Early Childhood programs require a combined grade point average of 2.50 in professional education and specialization as well as an overall USF GPA of 2.50.
4. Satisfactory completion of the internship is also required. Must pass the General Knowledge Test prior to the completion of internship.
5. Passing scores on the appropriate FTCE Subject Area and Professional Education subtests. NOTE: English, Math, Science, and Social Science majors must pass the 6-12 subject matter exam.
6. All documents due for graduation (i.e., test scores, final grades, final transcripts) must be submitted to the Director of Undergraduate Programs and Internship (in EDU 106) no later than 5:00 pm on the Friday after the graduation ceremony. If that date is a university holiday, then the said information must be submitted no later than 5:00 pm on the Thursday after the graduation ceremony.
7. Completed the major requirements in a state-approved educator preparation program (which includes general preparation, teaching specialization, and professional preparation).
8. A minimum of 8 credits in professional courses in addition to internship and 12 credits in specialization courses must have been earned at USF.
9. A minimum of 30 hours after admittance to an upper-level program.

Note: Normally, the college will recommend the granting of a Bachelor of Science (BS) degree which includes a minimum of 6 credit hours of exit courses. To obtain a Bachelor of Arts (BA) degree, the student must meet the Foreign Language Competency (see graduation requirements in front of catalog) and complete 9 hours of exit courses, 3 of which must be in Literature and Writing and 3 of which must be offered outside the College of Education.

### Department of Childhood Education

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

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

All of the programs offered on regional campuses may vary in requirements and course offerings. For an accurate schedule of courses and requirements, please check with the campus you plan to attend.

### Early Childhood and Elementary Education Programs

Early Childhood and Elementary majors will be assigned to a specified sequence of courses to be followed throughout the program enrollment. Coursework will include internship and field experience. Students who withdraw from or who have unsatisfactory grades in the field experiences or internships must petition the department Professional Standards Committee before they will be allowed to repeat the internships. Any internship can only be taken twice before removal from program.

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

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

Part-time students in Early Childhood Education must meet with the program coordinator prior to admission to the program. These students also must meet program and internship requirements associated with the programs. The requirements include being available to participate in internships during regular school hours.

### Early Childhood Program

Students may complete a state-approved program to be eligible for licensure in Early Childhood Education Pre-Kindergarten/Primary (age 3 - Grade 3). The current program of studies includes both coursework and extensive field experiences in early childhood settings to enable students to integrate theory with teaching practice. Graduation is dependent upon successful completion of the required courses, Chalk and Wire requirements, associated internships, and a professional portfolio demonstrating the program outcomes and the Florida Educator Accomplished Practices. Early Childhood majors will be eligible for certification in Pre-Kindergarten/Primary (age 3 - Grade 3). Students must pass all Chalk and Wire assignments and upload every assignment to their Chalk and Wire account in order to graduate from the program.

### Early Childhood Education with ESOL Endorsement

The College of Education offers a full ESOL Endorsement for all Early Childhood Education major graduates. The special requirements for ESOL endorsement through infusion are as follows: Successful completion of (1) TSL 4080, TSL 4081, and TSL 4251, with a minimum grade of 70% or better on all three sections of the ESOL Comprehensive Exam administered in the three ESOL courses; (2) a 20-hour early ESOL field experience in TSL 4080; (3) a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over 10 days; and (4) an ESOL folder, containing all assignments and test results from TSL 4080, TSL 4081, and TSL 4251, and all ESOL performance check-off sheets from other ESOL-infused courses that a student has taken.

### Elementary Education Program

Students may complete a state-approved program to be eligible for certification in Elementary Education (Grades K-6). Degree and certification requirements are subject to change in accordance with state mandates. The current program of studies includes both coursework and extensive field experience in elementary school settings to enable students to integrate theory with teaching practice. All elementary education students are required to demonstrate the Accomplished Practices (APs) through core assignments in courses and internships that are submitted to the Chalk and Wire electronic portfolio system. Students must pass all Chalk and Wire assignments and upload every assignment to their Chalk and Wire account in order to graduate from the program.

### Elementary Education with ESOL Endorsement

The College of Education offers a full ESOL Endorsement for all Elementary Education major graduates. The special requirements for ESOL endorsement through infusion are as follows: Successful completion of (1) TSL 4080, TSL 4081, and TSL 4251, with a minimum grade of 70% or better on all three sections of the ESOL Comprehensive Exam administered in the three ESOL courses; (2) a 20-hour early ESOL field experience in TSL 4080; (3) a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over 10 days; and (4) an ESOL folder, containing all assignments and test results from TSL 4080, TSL 4081, and TSL 4251, and all ESOL performance check-off sheets from other ESOL-infused courses that a student has taken.

### • EARLY CHILDHOOD EDUCATION: Pre-Kindergarten/Primary

**Requirements for the B.S. Degree (BEC):** In addition to the courses listed below, students must complete "Preliminary Requirements for Students entering Teacher Education Programs."

**Prerequisites (State Mandated Common Prerequisites):** These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

- EDF X005 Introduction to Education (3)
- EDG X701\* Teaching Diverse Populations (3)
- EME X040 Introduction to Educational Technology (3)

\*In addition to EDG X701, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

**Completion of General Education requirements:** General education courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Community College Counseling Manual. (For USF, see "Academic Policies and Procedures - Liberal Arts Requirements" section of the catalog.)

### Professional Education Core (39 cr. hrs.):

EDF 4111	Child Growth and Learning	3
EEC 4940	Senior Internship	10
EEC 4941	Field Experience I	3
EEC 4936	Senior Seminar in Elementary Early Childhood Education	2
EEC 4942	Field Experience II	3
EEC 4943	Field Experience III	3
EDG 4909	Directed Studies*	1-4
TSL 4080	Curriculum and Pedagogy of ESOL	3
TSL 4081	Literacy Development in English Language Learners	3
TSL 4251	Applying Linguistics to ESOL Teaching and Testing	3

\*Please see academic advisor for required Directed Studies courses.

### Specialization (30 cr. hrs.):

EEC 4008	Literature in Early Childhood Education (Exit)	3
<b>OR</b>		
LAE 4414	Children's Literature	3
EEC 4203	Programs for Young Children	3
EEC 4211	Integrated Curriculum: Science and Mathematics	3

EEC 4212	Integrated Curriculum: Social Sciences/Humanities & Art	3
EEC 4303	Creative and Affective Experiences for Young Children	3
EEC 4307	Cognitive Experiences for Young Children	3
EEC 4408	Child, Family & Teacher Relations	3
EEC 4706	Language and Emerging Literacy	3
HSC 3301	Health, Safety, Nutrition and Motor Skills for the Young Child	3
RED 4310	Early Literacy Learning	3
RED 4511	Linking Literacy Assessment to Instruction	3

The order in which these courses are to be taken is spelled out in the program of study.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

NOTE: In order to satisfy the 6 hour rule for Exit requirements, Early Childhood students must pass an exit requirement course (in addition to EEC 4008) outside of the Early Childhood program.

## • ELEMENTARY EDUCATION

**Requirements for the B.S. Degree (BEE):** In addition to the courses listed below, students must complete "Preliminary Requirements for Students entering Teacher Education Programs."

**Prerequisites (State Mandated Common Prerequisites):** These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

- EDF X005 Introduction to Education (3)
  - EDG X701\* Teaching Diverse Populations (3)
  - EME X040 Introduction to Educational Technology (3)
- \*In addition to EDG X701, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

**Completion of General Education requirements:** General education courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Community College Counseling Manual. (For USF, see "Academic Policies and Procedures - Liberal Arts Requirements" section of the catalog.)

Students are advised that the Elementary Education specialization will require an enrollment of more than the traditional four semesters of the junior and senior years in order to complete the program specialization courses and the required sequence of internship.

The order in which these courses are to be taken is designated in the program of study.

## Professional Education (32-33 credit hours):

EDF 3122	Learning and the Developing Child	3
EDF 3604	Social Foundations of Education (Exit)	3
EDF 4430	Measurement for Teachers	3
EEX 4070	Integrating Exceptional Students in the Regular Classroom	2-3
TSL 4080	Curriculum and Pedagogy of ESOL	3
TSL 4081	Literacy Development in English Language Learners	3

TSL 4251	Applying Linguistics to ESOL Teaching and Testing	3
EDE 4940	Internship	10-12

## Specialization (41 credit hours):

EDE 4301	Classroom Management, School Safety, Ethics, Law, and Elementary Methods	3
EDE 4941	Childhood Education Internship Level I	3
HLP 4722	Health and Physical Education for the Child	2
EDE 4942	Childhood Education Internship Level II	6
LAE 4314	Teaching Writing in the Elementary School	3
LAE 4414	Teaching Literature in the Elementary Schools (Exit)	3
MAE 4310	Teaching Elementary School Mathematics I	3
MAE 4326	Teaching Elementary School Mathematics II	3
RED 4310	Reading and Learning to Read	3
RED 4511	Linking Literacy Assessment to Instruction	3
SCE 4310	Teaching Elementary School Science	3
SSE 4313	Teaching Elementary (K-6) Social Studies	3
EDE 4223	Creative Experiences for the Child	3

## Department of Secondary Education

The following programs are housed in the Department of Secondary Education:

- English Education with ESOL Endorsement
- Social Science Education

The undergraduate programs offered by the department are designed to prepare students to meet Florida teacher certification requirements and to become highly competent secondary teachers. Specialized courses in the teaching of mathematics, science, and social science are also offered for students majoring in elementary, early childhood, and special education.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

## • ENGLISH EDUCATION with ESOL Endorsement

**Requirements for the B.S. Degree (BEN):** In addition to the courses listed below, students must complete "Preliminary Requirements for Students entering Teacher Education Programs."

The College of Education offers a full ESOL Endorsement for all English Education major graduates. The special requirements for ESOL endorsement through infusion are as follows: Successful completion of (1) FLE 4317 and FLE 4316 with a minimum grade of 70% or better on part one and part two of the ESOL Comprehensive Exam administered in the two ESOL courses; (2) a 20-hour early ESOL field experience in FLE 4317; (3) a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over 10 days; and (4) an ESOL binder, containing all ESOL-related assignments taken in the College of Education and an ESOL-performance Standards Checklist that documents the completion of the necessary number of standards.

**Prerequisites (State Mandated Common Prerequisites):** These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

- EDF X005 Introduction to Education (3)
- EDG X701\* Teaching Diverse Populations (3)
- EME X040 Introduction to Educational Technology (3)
- Other program prerequisites: \*\*  
SPC X600 Public Speaking (3)  
Literature course (3)  
Electives in English (3)  
\*In addition to EDG X701, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.  
\*\*Courses specified in this category may apply to general education coursework.

**Completion of General Education requirements:** General education courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Community College Counseling Manual. (For USF, see "Academic Policies and Procedures - Liberal Arts Requirements" section of the catalog.)

**Recommended Courses:**  
Literature Course (3 hours) - select from LIT, AML, ENL (LIT 2000 or ENL 3323 recommended)  
English Electives (9 hours) - to include advanced composition and mediacy  
(CRW 2100 or CRW X111 and MMC 2100 or ENC X310 and LIT 2046 or LIT X301 recommended)

**Professional Education (23 credit hours):**

EDF 3604	Social Foundations of Education (Exit)	3
EDF 3214	Human Development and Learning	3
EDF 4430	Measurement for Teachers	3
EEX 4070	Integrating Exceptional Students in the Regular Classroom	2
FLE 4317	Teaching LEP Students K-12	3
FLE 4316	Language Principles and Acquisition	3
	Literacy Course	3
ESE 4322	Classroom Management	3

**Specialization (21 credit hours):**

ENC 3310	Expository Writing	3
<b>One of the following:</b>		
LIT 3103	Great Literature of the World (Exit)	3
WST 4410	Third World Women Writers (Exit)	3
LAE 4469	Teaching World Literature to Middle and Secondary Students	3
<b>One of the following:</b>		
AML 3031	American Literature to 1860	3
AML 3032	American Literature 1860-1912	3
AML 3051	American Literature 1912-1945	3
<b>One of the following:</b>		
ENL 3015	British Literature to 1616	3
ENL 3230	British Literature 1616-1780	3
ENL 3251	British Literature 1780-1900	3
ENL 3273	British Literature 1900-1945	3
<b>One of the following:</b>		
LIT 3383	The Image of Women in Literature	3
LIT 4386	British and American Literature by Women (Exit)	3
<b>One of the following:</b>		
LIN 3010	Introduction to Linguistics	3
ENG 4060	History of the English Language	3
<b>One of the following:</b>		
LIN 3670	English Grammar and Usage	3
LIN 4680	Structure of American English	3

**Additional Specialization (24 credit hours):**

LAE 4464	Adolescent Literature for Middle and Secondary Students (Exit)	3
LAE 4323	Methods of Teaching English: Middle School (Fall Semester Only)	3
LAE 4530	Methods of Teaching English: Practicum (Fall Semester Only)	3
LAE 4335	Methods of Teaching English: High School (Spring Semester Only)	3
LAE 4936	Senior Seminar in English Education	2
LAE 4940	Internship: English Education	10

**• SOCIAL SCIENCE EDUCATION**

**Requirements for the B.S. Degree (BSS):** In addition to the courses listed below, students must complete "Preliminary Requirements for Students entering Teacher Education Programs." It is recommended that students pursue a double major in Social Science Education with History or one of the Social Sciences.

**Prerequisites (State Mandated Common Prerequisites):**

These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

- EDF X005 Introduction to Education (3)
- EDG X701\* Teaching Diverse Populations (3)
- EME X040 Introduction to Educational Technology (3)
- Other program prerequisites\*\*:  
American Government (3)  
Select four of the six areas for a total of 12 credit hours: Anthropology (3), Cultural Geography (3), Economics (3), History (3), Psychology (3), Sociology (3)  
\*In addition to EDG X701, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.  
\*\* Courses specified in this category may apply to general education coursework.

**Completion of General Education requirements:** General education courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Community College Counseling Manual. (For USF, see "Academic Policies and Procedures - Liberal Arts Requirements" section of the catalog.)

The following are the courses recommended by the Social Science Education program to fulfill the State Mandated Common Prerequisites:

- 1 POS 2041 American National Government  
**or**
- 2 POS 2080 American Political Tradition
- 3 ANT 2000 Introduction to Anthropology  
**or**
- 4 ANT 2410 Cultural Anthropology
- 5 GEA 2000 Global Geography  
**or**
- 6 ECO 1000 Basic Economics  
**or**
- 7 ECO 2013 Macroeconomics  
**or**
- 8 SYG 2000 Introduction to Sociology  
**or**
- 9 SYG 2010 Contemporary Sociology

**Professional Education Core (17 credit hours):**

EDF 3214	Human Development and Learning	3
EDF 3604	Social Foundations of Education (Exit)	3

EDF 4430	Measurement for Teachers	3
EEX 4070	Integrating Exceptional Students in the Regular Classroom	2
TSL 4324	ESOL Competencies and Strategies	3
ESE 4322	Classroom Management	3

**Social Sciences Specialization (44-45 credit hours):**

AMH 2010	American History I	3
AMH 2020	American History II	3
AMH 3421	Early Florida	4
AMH 3423	Modern Florida	4
GEA 2000	World Regional Geography	3
HUM 2210	Studies in Culture: Classical through Medieval	3
HUM 2230	Studies in Culture: Renaissance through the 20 <sup>th</sup> Century	3
INR 3018	World Ideologies	3
POS 2112	State and Local Government	3
Any 3000/4000 level Social Science course		3/4
Any course from African, Asian, or Latin American, or Middle Eastern History		3
<b>One of the following:</b>		
ANT 2000	Introduction to Anthropology	3
ANT 2410	Cultural Anthropology	3
<b>One of the following:</b>		
ECO 1000	Basic Economics	3
ECO 2013	Macroeconomics	3
<b>One of the following:</b>		
SYG 2000	Introduction to Sociology	3
SYG 2010	Contemporary Problems	3
<b>One of the following:</b>		
POS 2041	American National Government	3
POS 2080	The American Political Tradition	3

**Social Science Education (27 credit hours):**

SSE 4333	Teaching Middle Grades Social Science	3
SSE 4334	Teaching Secondary Grades Social Science	3
SSE 4335	Teaching Social Science Themes*	3
SSE 4600	Reading and Basic Skills in the Social Sciences	3
SSE 4936	Senior Seminar in Social Sciences Education	2
SSE 4940	Internship: Social Science Education**	10

\*SSE 4333 must be successfully completed prior to SSE 4335.

\*\*Only SSE 4936 can be taken at the same time as SSE 4940.

## Department of Special Education

The Department of Special Education prepares teachers to work with children who have emotional and behavioral disabilities, mental retardation, and specific learning disabilities. The undergraduate program is a state-approved program that leads to certification in Exceptional Student Education (ESE).

Students are required to meet University and College of Education entrance requirements prior to enrollment in the Department. Upon admission, students affiliate with the campus on which they wish to take their program of studies. Students may not register for courses on other campuses without permission. On the Tampa Campus, students are assigned to teams. All courses are taken with the assigned team. The program sequence includes three semesters of part-time field experience and one semester of full-day internship. All part-time field experiences must be successfully completed as a member of a team concurrently enrolled in a specified course in designated local schools. Final internships are assigned only to designated school districts where partnerships exist. Field experiences begin during the first semester of a student's enrollment with increasing involvement throughout the program. Students are responsible for providing transportation to their experience sites.

In some instances students may pursue a part-time program (9 hours or less a semester). This requires that students be available to participate in field experiences and concurrent classes during regular school hours.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

## • EXCEPTIONAL CHILD EDUCATION with ESOL Endorsement

The College of Education offers a full ESOL Endorsement for all Special Education major graduates. The special requirements for ESOL endorsement through infusion are as follows: Successful completion of (1) FLE 4317 and FLE 4316 with a minimum grade of 70% or better on part one and part two of the ESOL Comprehensive Exam administered in the two ESOL courses; (2) a 20-hour early ESOL field experience in FLE 4317; (3) a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over a 10 days; and (4) an ESOL binder, containing all ESOL-related assignments taken in the College of Education and an ESOL-performance Standards Checklist that documents the completion of the necessary number of standards.

**Prerequisites (State Mandated Common Prerequisites):** These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

- EDF X005 Introduction to Education (3)
  - EDG X701\* Teaching Diverse Populations (3)
  - EME X040 Introduction to Educational Technology (3)
- \*In addition to EDG X701, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

**Completion of General Education requirements:** General education courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Community College Counseling Manual. (For USF, see "Academic Policies and Procedures - Liberal Arts Requirements" section of the catalog.)

**Professional Education Core (31-32 credit hours):**

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

EEX 4941	Practicum in ESE	6
EDF 3122	Learning and the Developing Child	3
<b>or</b>		
EDF 3214	Human Development and Learning	3
EDF 3604	Social Foundations of Education (Exit)	3
EDF 4430	Measurement for Teachers	3
FLE 4316	Language Principles and Acquisition	2
FLE 4317	Teaching LEP Students K-12	3
EEX 4940	Internship: Exceptional Student Education	1-10
EEX 4936	Senior Seminar in Exceptional Student Education	1

## Area of Specialization

### Exceptional Student Education

Students seeking the B. S. degree with certification in Exceptional Student Education are required to take the following courses:

EEX 4011	Foundations of Special Education	3
EEX 4054	Perspectives on Learning and Behavioral Disorders	3
EEX 4221	Educational Assessment of Exceptional Students	3
EEX 4243	Education of the Exceptional Adolescent and Adult	3
EEX 4604	Behavior Management for Special Needs and at Risk Students	3
EEX 4742	Narrative Perspectives on Exceptionality: Cultural and Ethical Issues (Exit)	3
EEX 4846	Clinical Teaching in Special Education	3
EMR 4011	Mental Retardation and Developmental Disabilities	3
LAE 4314	Teaching Writing	3
MAE 4310	Teaching Elementary School Mathematics I	3
RED 4310	Early Literacy Learning	3
RED 4511	Linking Literature Assessment to Instruction	3

## COLLEGE OF NURSING

### Undergraduate Nursing Program General Information

The program is accredited by the National League for Nursing Accrediting Commission, 61 Broadway, New York, NY 10006, (212) 363-555 ext.153, the Commission on Collegiate Nursing Education, One Dupont Circle, NW Suite 530, Washington, DC, 20036, (202) 887-6791, and approved by the Florida State Board of Nursing. Graduates of the Upper Division and Accelerated programs are eligible to sit for the National Council Licensure Examination (NCLEX) Registered Nurse qualifying exam. Graduates may apply for licensure in Florida or other states, and successful undergraduates have the educational background necessary for graduate study in nursing.

The College of Nursing encourages applications from qualified applicants of both sexes and from all cultural, racial, religions, ethnic, and age groups. The College of Nursing uses selective criteria for the admission of students. Admissions are determined on the basis of availability of sufficient qualified faculty, laboratory and classroom facilities, and clinical teaching resources.

The College of Nursing is a limited access program. Any student who applies to any undergraduate program at the College of Nursing is initially coded as "pre-nursing" prior to official acceptance to the College of Nursing. No undergraduate nursing courses will be transferred from any institution.

1. The **RN to BS** program is for students currently licensed to practice as a Registered Nurse by the Florida Board of Nursing. The RN to BS option allows an RN with a diploma or an Associate's degree in nursing to earn a Bachelor of Science degree with a major in nursing.

### Nursing Advising

The College of Nursing Office of Student Services offers a comprehensive service for all College of Nursing students as well as information sessions and general information for prospective students. These services include information sessions, registration, academic advising, scholarships, graduation certification, and other services. However, the student must remember that he or she is ultimately responsible for meeting all graduation requirements.

The goals of the office of Student Affairs are to

- Facilitate the application and acceptance process for students

- Assist students as they develop their educational plans
- Guide students to select appropriate courses
- Help students interpret institutional requirements
- Advise students to facilitate progression in their course of study
- Facilitate graduation process for students

**Location and Phone Number:** The College of Nursing (MDN) building is located near Bruce B. Downs Blvd. and west Holly Drive on the northwest corner of campus. The mailing address is 12901 Bruce B. Downs Blvd, MDC 22, Tampa, FL 33612-4766. The College telephone number is (813) 974-9305.

**Advising Offices:** To schedule an advising appointment at a location where the College of Nursing offers courses, call the College of Nursing Office of Student Services at (813) 974-9305 or toll-free at (888) 974-9488 or <http://health.usf.edu/nocms/nursing/>.

**Office Hours:** 8 a.m. - 5 p.m., Monday through Friday.

## NURSING PROGRAM

### • RN to Bachelors Program

#### Admissions Requirements:

- Admission to the University of South Florida
- Application to the College of Nursing prior to the published deadline for the intended term of entry
- Current Florida RN licensure and Associate's degree or diploma in Nursing (Those individuals with an Associate's degree in Nursing may apply contingent on passage of NCLEX exam during first semester of study in the College of Nursing)
- Minimum 2.5 cumulative GPA on all undergraduate work
- Completion of the College Level Academic Skills Test (CLAST) or equivalent

#### Prerequisite Requirements:

Nursing Prerequisite courses - These courses can be completed while in the RN to BS program. However, if a letter grade of less than 'C' is received prior to application to the College of Nursing, the course(s) must be repeated prior to application:

BSC X085C Human Anatomy & Physiology I or any Human Anatomy & Physiology I course, 3-4 semester hours  
 BSC X086C Human Anatomy & Physiology II or any Human Anatomy & Physiology II course, 3-4 semester hours  
 CHM XXXX Comprehensive General Chemistry (CHM 1032 or higher), 4-6 semester hours  
 DEP X004 Human Growth & Development or any Human Growth & Development course, 3 semester hours  
 HUN X201 Human Nutrition or any Human Nutrition course, 3 semester hours, **OR**  
 NUR 1192  
 MCB X010C Microbiology or Any Microbiology course, 4 semester hours  
 PSY X012 Introduction to Psychology or any General Psychology course, 3 semester hours  
 STA X014 Statistics or any Statistics course, 3 semester hours  
 SYG X000 Introduction to Sociology or any Introduction to Sociology course, 3 semester hours

#### Liberal Arts Requirements:

- Completion of the following courses prior to the application deadline for the intended term of entry; a grade of 'C' or better is required:
- |  |                        |   |
|--|------------------------|---|
| ENC 1101                                 | English Composition I  | 3 |
| ENC 1102                                 | English Composition II | 3 |
| Quantitative Methods                     |                        |   |
| College Algebra or Finite Math preferred |                        | 3 |

Fine Arts	3
Historical Perspectives	6
African, Latin America, Middle Eastern or Asian Perspective (ALAMEA)	3
• Completion of the University Foreign Language requirement for the awarding of the Bachelor of Science degree	
• Completion of all other University Baccalaureate degree requirements	
• Additional coursework may be required to meet the USF graduation credit hour requirement.	

**RN to BS Course of Study:**

A letter grade of "C" or better is required in all Nursing (NUR) courses.

NUR 3805	Educational Transitions for Registered Nurses	(3)
NUR 3066	Physical Exam & Assessment	(2)
NUR 3066L	Clinical Experience in Health Assessment for RNs	(1)
NUR 3145	Pharmacology in Nursing Practice	(3)
NUR 3125	Pathophysiology for Nursing Practice	(4)
NUR 3826	Ethical Legal Aspects of Nursing & Health Care	(3)
NUR 4165	Nursing Inquiry	(3)
NUR 4636	Community/Public Health: Population-focused Nursing	(3)
NUR 4636L	Community/Health Nursing Clinical for the RN	(3)
NUR 4838	Leadership & Management in Prof Nursing Practice	(3)
NUR XXXX	Nursing Elective	(3)
Total:		31

**UNDERGRADUATE STUDIES****Bachelor of Science in Applied Science (APS)**

**Location/Phone:** SVC 2002; (813) 974-4051

**Office Hours:** 8 a.m. – 5 p.m., Monday through Friday

**Web Address:** <http://www.ugs.usf.edu/academic/bsas.htm>

Workforce projections for the 21<sup>st</sup> century indicate that there will be an ongoing need for people with specific skills and abilities to fill Florida's growing number of specialized, scientific, industrial and technological positions. Florida's two-year colleges offer many exceptional programs that meet these demands through their Associate in Science (A.S.) degrees. Although these applied and technical degrees provide excellent preparation for students seeking jobs that require specific knowledge, skill and ability, they have not generally transferred very efficiently into four-year Bachelor's degree programs. The Bachelor of Science in Applied Science (BSAS) has been developed by USF under certain provisions of Florida legislation to remove constraints from the transfer process, recognize past course work as transferable credit to the university, and afford exciting new opportunities for A.S. degree holders to pursue and acquire a distinctive USF Bachelor's degree.

The BSAS program is a "capstone" degree offering A.S. degree holders an efficient pathway to a Bachelor's degree. It provides Florida A.S. transfer students with a broad educational experience and a unique academic area of concentration. The various concentrations allow students to somewhat tailor their degree to match their academic interests and career ambitions. To achieve this end, BSAS students will plan their program in ongoing consultation with an academic advisor who will help students design their individualized program of study.

**Requirements for the Major in Bachelor of Science in Applied Science Recommended Prerequisites (State Mandated Common Prerequisites)**

This degree program is available ONLY to Associate in Science (A.S.) graduates from a Florida public community/junior college.

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

Students wishing to transfer to USF must complete the A.S. degree with an overall "C" average in all college-level courses accepted for transfer credit to USF. Students are encouraged to complete at least 18 credit hours of the General Education Requirements as part of their A.S. degree, and it is highly recommended that students select Gordon Rule communication and computation courses to fulfill these requirements while at the community college.

The A.S. degree will transfer as a complete "60 credit hour package" to USF (applicable only to the BSAS program). Technical coursework will transfer as a 42 credit hour technical block. The remaining 18 credit hours of General Education coursework from the A.S. will be matched against USF requirements to determine which courses remain outstanding for fulfillment of the university's 36 credit hour General Education Requirement.

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

Community College Block Credit (Transferred from A.S.)	42
Community College General Education (Transferred from A.S.)	18
USF General Education	18
USF Exit Courses	9
USF Area of Concentration*	18
USF Electives**	15
Total BSAS Credit Hours	120

\*Note that all BSAS Areas of Concentration are at least 18 credit hours (some require 21 credit hours).

\*\* Elective credit hours may vary slightly, but will not require students to exceed a total of 120 credit hours for completion of the BSAS degree.

Within the 60 credit hours of USF/upper-level coursework beyond the A.S., BSAS students will complete:

- a minimum of 48 credit hours of upper-level (3000-4999) courses
- at least 30 hours of the last 60 credit hours at USF
- CLAST requirements
- foreign language requirement (can be satisfied by two years of high school foreign language credit or 8 college credit hours in a single foreign language)

**Requirements for Areas of Concentration****BSAS – Criminal Justice Concentration (ACJ) consists of 18 credit hours:**

Only available at Lakeland or Sarasota campus

CCJ 3610 - Theories of Criminal Behavior	(3)
CCJ 4934 - Seminar in Criminology (XMW)	(3)

**PLUS FOUR OF THE FOLLOWING:**

CJL 3110 - Substantive Criminal Law	(3)
CJE 4114 - American Law Enforcement Systems	(3)
CCJ 4450 - Criminal Justice Administration	(3)
CJC 4010 - American Correctional Systems	(3)
CJE 4010 - The Juvenile Justice System	(3)
CCJ 3621 - Patterns of Criminal Behavior	(3)
CJC 4166 - Alternatives to Incarceration	(3)
CJL 4410 - Criminal Rights & Procedures	(3)

CJT 4100 - Criminal Investigations	(3)
CCJ 4933 - Selected Topics in Criminology	(3)
CCJ 4604 - Abnormal Behavior & Criminality	(3)
CCJ 3701 - Research Methods in Criminal Justice I	(3)

**BSAS - General Business Concentration (ABU) consists of 18 credit hours:**

ACG 3074 Managerial Accounting for Non-Business Majors	(3)
ECO 1000 Basic Economics	(3)
FIN 3403 Principles of Finance	(3)
MAN 3025 Principles of Management	(3)
MAN 4802 Entrepreneurship & Small Business Management	(3)
<b>OR</b>	
GEB 4890 Strategic Management & Decision Making	(3)
MAR 3023 Basic Marketing	(3)

**BSAS - Early Child Development Concentration (AEC) consists of 18 credit hours:**

Only available at Lakeland or Sarasota campus	
EDF 4111 Child Growth & Learning	(3)
EDG 4909 Young Children w/ Special Needs	(3)
HSC 3301 Health, Safety, Nutrition & Motor Skills	(3)
EEC 4303 Creative & Affective Experiences	(3)
EEC 4408 Child, Family & Teacher Relations	(3)
PAD 4419 Personnel & Supervision	(3)

**BSAS - Hospitality Management Concentration (AHG) consists of 18 credit hours:**

Only available through Sarasota campus

**PREREQUISITES - 12 HOURS:**

ACG 2021 Financial Accounting	(3)
ACG 2071 Managerial Accounting	(3)
MAN 3025 Principles of Management	(3)
MAR 3023 Basic Marketing	(3)

**REQUIRED COURSES:**

FSS 3231 Introduction to Food Production & Management	(3)
HFT 3005 Introduction to Hospitality & Tourism	(3)
HFT 3423 Hospitality Information Systems	(3)
HFT 3503 Hotel Marketing and Sales	(3)
HFT 4221 Human Resources Management	(3)
HFT 4253 Lodging Management	(3)

**BSAS - Information Technology (ATC) consists of 18 credit hours:**

Only available through Lakeland or Sarasota campus

PAD 3003 Introduction to Public Administration	(3)
COP 2510 Programming Concepts	(3)
CGS 3303 IT Concepts	(3)
CEN 3722 Human Computer Interface	(3)
CTS 3823 IT Web Design	(3)
CTS 3845 Electronic Commerce	(3)
CIS 4412 IT Resource Management	(3)

**BSAS - Public Administration Concentration (APU) consists of 18 credit hours:**

PAD 3003 Introduction to Public Administration	(3)
PAD 4204 Public Financial Administration	(3)
PAD 4419 Personnel and Supervision in Today's Organizations	(3)
PAD 4712 Managing Information Resources in the Public Sector	(3)
POS 3182 Florida Politics and Government	(3)

Plus any one of the following:

PUP 4002 Public Policy	(3)
PAD 5035 Issues in Public Administration and Public Policy	(3)
PAD 5044 Environment of Public Administration	(3)
PAD 5159 Urban Policy Analysis	(3)
PAD 5333 Concepts and Issues in Public Planning	(3)

PAD 5605 Administrative Law and Regulation	(3)
PAD 5700 Research Methods in Public Administration	(3)
PAD 5807 Urban and Local Government Administration	(3)
PAD 5836 Comparative Public Administration	(3)

Contact the BSAS Program for additional BSAS Concentrations that may have developed since the publication of this catalog.

**Bachelor of Science in Hospitality Management****Program Email:** [hospitality@sar.usf.edu](mailto:hospitality@sar.usf.edu)**Location:** USF Sarasota-Manatee, SMC-B221**Academic Advising:** Office of Student Services, SMC-C107, (941) 359-4330**Web address:** <http://www.sarasota.usf.edu/hospitality>

The mission of the School of Hotel and Restaurant Management at the University of South Florida is to provide excellence in teaching, research and service to all persons and to build foundations for lifelong learning. The School of Hotel and Restaurant Management prepares individuals for industry management and leadership roles in a global economy and interfaces with stakeholders to deliver hospitality professionals that add to the financial, intellectual, environmental, ethical and social growth of Florida and the Nation.

The Bachelor of Science Degree in Hospitality Management prepares outstanding individuals to be service-oriented professionals. The School of Hotel and Restaurant Management educates students to succeed at entry-level management and supervisory level positions in the hospitality industry. A general business foundation with specialized hotel and restaurant management courses equips the students to approach problem solving in a disciplined and systematic manner. An advisory board composed of leaders from major hospitality-related corporations and organizations that are directly involved in the review of the curriculum, school development/programming and prepares students for future career challenges.

Students should have 60 transferable hours from a regionally accredited institution and an overall GPA of 2.0 prior to admission to the University of South Florida Sarasota-Manatee.

**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. (*no grade lower than a C-*):

- ACG X021 Principles of Financial Accounting or ACG X001 and ACG X011
- ACG X071 Principles of Managerial Accounting
- ECO X013 Macroeconomics
- ECO X023 Microeconomics

**Admission to the School of Hotel and Restaurant Management**

Admission to the School of Hotel and Restaurant Management is open to all students who have been accepted to the University

of South Florida and declare the major of Hospitality Management. Students should contact the Office of Student Services, SMC-C107 (941) 359-4330 for assistance. Students who have credits from other institutions may need to provide copies of course descriptions from the catalog for purposes of determining credit towards the Hospitality Management major requirements at USF.

#### General Requirements for a B.S. Degree in Hospitality Management

1. The Hospitality Management major requires at least 120 credit hours.
2. General Education Requirements can be satisfied by completing the university's general education requirements or completing the AA degree from a Florida public community college.
3. All transfer work will be reviewed by the advising office and the Director of the School of Hotel and Restaurant Management.
4. Students must satisfactorily meet the College Level Academic Skills Test (CLAST) along with the writing and computation course requirements of 6A-10.30 (Gordon Rule).
5. Students must complete the Foreign Language Entrance Requirement as mandated by the university catalog.
6. Nine hours of exit courses must be taken at USF as defined in the university catalog.
7. Students must earn at least a 2.0 overall GPA, USF GPA, and in the major to be certified for graduation.
8. The university provides advising tools and services to assist the student, however, it is the responsibility of the student to meet all graduation requirements and deadlines of the university.
9. Students must comply with all university academic policies and procedures in order to meet all requirements set forth by the University of South Florida.

#### Major requirements for the B. S. Degree In Hospitality Management are as follows:

Business Courses (12 Credits) with no grade lower than C-:

- FIN 3403 Principles of Finance
- ISM 3011 Information Systems in Organizations
- MAN 3025 Principles of Management
- MAR 3023 Basic Marketing

Hospitality Courses (36 Credits) with no grade lower than C- and 2.0 GPA:

- FSS 3231 Introductory Food Preparation Management\*
- HFT 3003 Introduction to Hospitality and Tourism
- HFT 3263 Restaurant and Catering Management\*
- HFT 3423 Hospitality Information Systems
- HFT 3424 Cost Control in Hospitality Operations
- HFT 3503 Hotel Marketing and Sales
- HFT 3603 Law and Security for the Hospitality Industry
- HFT 4323 Facilities Mgmt for the Hospitality Industry
- HFT 4221 Human Resource Management
- HFT 4253 Lodging Management
- HFT 4471 Mgmt Accounting & Finance for the Hospitality Industry
- HFT 4945 Advanced Internship (300 hours)  
(In final academic semester with departmental approval)

Communications Courses (6 Credits)

- COM 3110 Communication for Business and the Professions

or

- SPC 2600 Public Speaking

and

- ENC 3310 Expository Writing

or

- ENC 3250 Professional Writing

#### Non-Credit Major Requirement

In addition to completion of HFT 4945, students must complete an additional 700 documented working hours in the hospitality industry before graduation.

\*FSS 3231 and HFT 3263 require a lab fee.

### Other Hospitality Programs Available

#### Certificate Programs

The Certificate Programs are designed for industry professionals currently working in hotels and restaurants to enhance their professional knowledge. The student must be currently employed in the hospitality field and satisfactorily complete the five required courses (15 credit hours in residence at USF) in hotel management or restaurant management. The certificate will be issued when a student has earned at least a 2.0 GPA and receive no less than a grade of C- in any of the five classes in their concentrated certificate program. Contact the department for further information.

### Minor Programs

#### Minor in Restaurant Management & Minor in Hotel Management

Both programs are 18-credit hours. The minor program is a valuable addition to any major. Both minor programs provide the general information that will allow students to pursue hospitality related careers that they might otherwise not be qualified or credentialed to pursue. Majors of other disciplines will find this minor interesting and rewarding. Either minor program may open the door to a myriad of management positions in the hospitality industry. Contact the advising office for further information at (941) 359-4330.

#### Minor in Hotel Management

##### Required Courses:

- HFT 3003 Introduction to Hospitality and Tourism
- HFT 3503 Hospitality Marketing and Sales\*
- HFT 3603 Law and Security for the Hospitality Industry\*
- HFT 4221 Human Resources Management
- HFT 4253 Lodging Management
- HFT 4471 Management Accounting and Finance  
Hospitality Industry
- HFT 4936 Hotel Management Seminar  
(only taught on the USF Tampa Campus)

\*Students are required to choose one of the two listed classes. Students must achieve a grade point average of 2.0 or higher in the minor course work for certification of the minor for graduation. At least 9 credit hours must be taken in residence at USF.

#### Minor in Restaurant Management

##### Required Courses:

- HFT 3003 Introduction to Hospitality and Tourism
- HFT 3263 Restaurant and Catering Management
- HFT 3424 Cost Control in Hospitality Operations
- HFT 3503 Hospitality Marketing and Sales\*
- HFT 3603 Law and Security for the Hospitality Industry\*
- HFT 4221 Human Resources Management
- HFT 4853 Restaurant Trends and Challenges  
(only taught on the USF Tampa Campus)

\*Students are required to choose one of the two listed classes. Students must achieve a grade point average of 2.0 or higher in the minor course work for certification of the minor for graduation. At least 9 credit hours must be taken in residence at USF.

NOTE: Both minor programs are taught on the USF Tampa Campus. See our webpage for course descriptions, [www.sarasota.usf.edu/hospitality](http://www.sarasota.usf.edu/hospitality).

**Bachelor of Science in Applied Science with concentration in Hospitality**

Students who have earned an A.S. degree from a Florida public community college should refer to the "Undergraduate Studies, Bachelor of Science in Applied Science" section of this catalog.

**Exchange Programs**

Students who are interested in an International educational experience should contact the School of Hotel and Restaurant Management for updated information.

**School of Hotel and Restaurant Management Faculty**

*Director:* Jay R. Schrock; *Professor & McKibbin Chair:* John R. Walker; *Assistant Professor:* Katerina D. Annaraud, Gregory E. Dunn; *Associate Professor:* "David" Yao-Jen Chang; *Academic Services Administrator:* Amanda M. Kulaw; *Academic Program Specialist:* Lindsey R. Matro  
Program Email: [hospitality@sar.usf.edu](mailto:hospitality@sar.usf.edu) Location: Sarasota/Manatee Campus, SMC-B221.

**Bachelor of Science in Information Technology**

The Mission of the Information Technology Program is to provide high quality educational opportunities for students interested in pursuing careers in the broad range of fields that support our computer/information-based society and economy. Additionally to utilize the resources of the program to provide service to society; and to emphasize to students the need for lifelong learning, ethical conduct and an understanding of the diverse social context in which Information Technology is practiced. The program is offered through the Lakeland Campus.

Specifically the program aspires to:

1. Lead to the advancement of Information Technology through nationally recognized education at the undergraduate level, as well as technology transfer to regional industries and businesses;
2. Prepare students for full and ethical participation in a diverse society and encourage lifelong learning;
3. Educate undergraduates in the best practices of the field as well as integrate the latest research and practices into the curriculum;
4. Emphasize the development of problem solving and communication skills as an integral component of the educational process and the later practice of the discipline;
5. Provide quality learning experiences through highly interactive techniques of course delivery that will include the use of electronic support equipment as well as newly developing distance learning technologies.

**Objectives**

The Information Technology program graduates will:

1. Have the requisite education and skills to be immediately employable as professionals in our computer/information-based society
2. Be prepared to enter into graduate studies in a number of related graduate programs
3. Be ethical and responsible members of their profession and society as a whole
4. Be well founded in the variety of sub-disciplines that comprise Information Technology which include basic principles of computation, mathematics, science and engineering.

The Information Technology (IT) program is designed to bridge the gap between computer science and management information systems. The emphasis of the program is on knowledge-based computer and information technology, traditional computer science concepts, as well as more practical topics including programming, applications, and networking, systems administration and the management of a variety of

computing environments (in an era of rapidly changing technology). IT students will take coursework in computer organization, human-computer interface, data structures, operating systems, networking, databases, and software engineering. Electives can include such application areas as: advanced database, advanced networking, web page design and administration, and e-commerce as well as a variety of other related areas. Through a broad based set of electives, IT students will be able to tailor their program to satisfy individual preferences and strengths.

Students completing the IT program will qualify for a broad range of positions in computer-intensive businesses and industry such as: programmer analyst, systems analyst, database administrator, network administrator, computer resource manager, systems development manager, and information technology management, to name a few.

In addition to the University's graduation requirements, the program has the following policies:

1. Mandatory academic advising of each student each term,
2. Exit interviews as a graduation requirement for all students, and
3. Only grades of C and above in IT courses can be used to fulfill graduation requirements.

**Four-Year Curriculum in Information Technology Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Community College:**

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

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.

Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university.

PSY XXXX	Any Psychology Course
STA X023	Statistics
ECO X013	Economics (Macroeconomics)
CGS XXXX	Any Database Course
COP 2XXX	Any Computer Programming Course
COP 2XXX	Any Object-Oriented Computer Programming Course
MAC XXXX	Pre-Calculus Course
PHY XXXX	Any Physics Course
M** XXXX	Discrete Mathematics Course

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

The schedule that follows indicates how a diligent student, who can devote full time to coursework, can satisfy requirements in four academic years. Students without a solid foundation, or those who cannot devote full time to academics, should plan for a slower pace.

**Semester I**

CGS 2100	Computers in Bus.	3
ENC 1101	Composition I	3
MAC 1140	Precalculus Algebra	3
Gen. Ed.		6
Total		15

**Semester II**

COP 2510	Programming Concepts	3
ENC 1102	Composition II	3
MAD 3100	Discrete Math	3
ECO 2013	Economic Principles (Macro.)	3
PSY 2012	Psychological Science I	3
Total		15

**Semester II**

Natural Science	3
COP XXXX OO Programming (e.g., C++)	3
Electives	9
Total	15

**Semester IV**

STA 2023 Introductory Statistics I	3
PHY 2020 Conceptual Physics	3
Fine Arts	3
Electives	6
Total	15

**Semester V**

COP 3515 Program Design for Information Technology	3
ENC 3246 Communication for Engineers	3
INR 3033 International Political Cultures	3
CGS 3303 IT Concepts	3
CEN 3722 Human Computer Interfaces for IT	3
Total	15

**Semester VI**

CDA 3101 Computer Organization for Information Technology	3
EEL 4782 Computer Information Networks for IT	3
EEL 4782L Information Networks Lab for IT	1
EEL 4854 Data Structures and Algorithms for IT	3
ENC 4260 Advanced Technical Writing	3
IT Approved Electives	3
Total	16

**Semester VII**

CIS 4703 Database Systems for IT	3
CEN 4031 Software Engineering Concepts for IT	3
COP 4610 Operating Systems for IT	3
COP 4610L Operating Systems Lab for IT	1
IT Approved Electives	6
Total	16

**Semester VIII**

COP 4930 Information Technology Seminar	1
CIS 4935 Senior Project in IT	3
CIS 4253 Ethical Issues for Information Technology	3
IT Approved Electives	6
Total	13

**INFORMATION TECHNOLOGY (IT) MINOR PROGRAMS**

There are two IT Minor options available.

The **IT General Minor** (15 semester hours) is aimed at providing a good understanding of the concepts underlying Information Technology while enabling the student to choose four elective topics in which to specialize. These elective encompass a wide spectrum of topics such as programming, networking and web design, Human Computer Interface and Security Management. The outcome of this program is to build a solid culture of IT technologies and disciplines from scratch.

The **IT Technical Minor** (24 semester hours) enforces basic scientific pre-requisites and requires interested students to attend three core IT courses meant to provide them with the conceptual and technical basis necessary to successfully dwell in more advanced topics. The elective part of the IT Technical Minor is composed of two electives to be chosen from a larger set of courses including Data Base Systems and Operating System. Successful students are expected to develop a conceptual understanding of the IT field while developing programming skills they may apply to strengthen their major.

**IT GENERAL MINOR****Required Course:**

CGS 3303 IT Concepts	3
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**Electives (choose four from list):**

CDA 3101 Computer Organization for IT	3
CEN 3722 Human Computer Interfaces for IT	3
CIS 4361 IT Security Management	3
CIS 4412 IT Resource Management	3
COP 3515 Program Design for IT	3
EEL 4782 Computer Information Networks for IT	3
EEL 4782L Information Networks for IT	1
EEL 4854 Data Structures and Algorithms for IT	3
ETG 4931 Special Topics in Technology I	1-5
ETG 4932 Special Topics in Technology II	1-5

**IT TECHNICAL MINOR****Prerequisite Courses:**

COP 2510 Programming Concepts	3
COT 3100 Introduction to Discrete Structures	3
PHY XXXX Physics	3

**Required Courses:**

CGS 3303 IT Concepts	3
COP 3515 Program Design for IT	3
EEL 4854 Data Structures and Algorithms for IT	3

**Electives (choose four from list):**

CDA 3101 Computer Organization for IT	3
CEN 3722 Human Computer Interfaces for IT	3
CEN 4031 Software Engineering Concepts for IT	3
CIS 4361 IT Security Management	3
CIS 4412 IT Resource Management	3
COP 4610 Operating Systems for IT	3
COP 4610L Operating Systems Lab for IT	1
COP 4703 Database Systems for IT	3
EEL 4782 Computer Information Networks for IT	3
EEL 4782L Information Networks for IT	1
ETG 4931 Special Topics in Technology I	1-5
ETG 4932 Special Topics in Technology II	1-5

**POST-BACCALAUREATE CERTIFICATE PROGRAMS IN INFORMATION TECHNOLOGY (IT)**

There are two Post-Baccalaureate Information Technology (IT) Certificates available. Both Certificates are designed for students who hold bachelor's degrees in fields other than IT, but do not seek either a master's degree or a complete undergraduate degree in IT.

The **IT Management Certificate** (15 semester hours) is designed to provide the student an application-oriented managerial background in IT. The typical student pursuing this certificate is not looking to change careers, but rather looking to enhance their technical abilities in their existing job. A four year Bachelor's degree plus some prerequisites are required to enter the IT Management Certificate Program.

The **IT Professional Certificate** (30 semester hours) is designed to help students change careers, i.e. begin a new career as an IT Professional. All classes (15 hours) taken in the IT Management Certificate directly apply toward the IT Professional Certificate. Therefore, each student having completed the IT Management Certificate, will only need 15 additional hours to complete the IT Professional Certificate. However, certain additional prerequisites may be required of the student prior to taking the advanced technically oriented classes contained in the IT Professional Certificate.

Students wanting to enter one of the IT Certificate programs need to fill out an application to apply and have an official transcript sent from the College or University where they completed their undergraduate degree. The transcript is used to first verify that the student completed their undergraduate degree and second to identify if any additional prerequisite classes will be required.

# IT MANAGEMENT CERTIFICATE

The prerequisites to enter the IT Management Certificate program is a four year undergraduate degree plus the following:

1. MACxxx Pre-Calculus  
3 hrs.
2. STA2023 Intro. To Statistics  
3 hrs.
3. Any Basic Computer Skills Course  
3 hrs.

(Word Processing, Spreadsheets, Windows, etc.)

NOTE: The course numbers may be different depending on the university. IT advisors will make the determination whether or not the student has satisfied these requirements based on supportive material (such as catalog descriptions, official letters, etc.) supplied by the student.

After admission to the IT Management Certificate program, the student must complete 15 hours selected from the following:

CEN 3722	Human Computer Interfaces for IT	3
CGS 3823	IT Web Design	3
CGS 3845	Electronic Commerce	3
CIS 4361	IT Security Management	3
CIS 4412	IT Resource Management	3
CIS 4935	Senior Project in Information Technology	3
COP 4930	Information Technology Seminar	1-3
ENC 4260	Advanced Technical Writing	3
ETG 4931	Special Topics in Technology I	1-5
ETG 4932	Special Topics in Technology II	1-5
	IT Current Topics	3
	IT Approved Elective	3

# USF St. Petersburg

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UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

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USF St. Petersburg offers distinctive graduate and undergraduate programs in the arts and sciences, business, and education within a close knit, student-centered learning community that welcomes individuals from the region, state, nation and world. We conduct wide-ranging, collaborative research to meet society's needs and engage in service projects and partnerships to enhance the university and community's social, economic and intellectual life. As an integral and complementary part of a multi-campus university, USF St. Petersburg retains a separate identity and mission while contributing to and benefiting from the associations, cooperation, and shared resources of a premier national research university.

The 2008-2009 USF St. Petersburg Undergraduate Catalog is found at

<http://http://www.stpete.usf.edu/portals/academics.htm>.

USF St. Petersburg  
140 Seventh Avenue South  
St. Petersburg, Florida 33701  
Telephone: (727) 553-4873  
<http://www.stpt.usf.edu/>

# GENERAL COURSE INFORMATION

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

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

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

Credits separated by commas indicate unified courses offered in different semesters:

**AMH 2010, 2020 AMERICAN HISTORY I, II (4,4)**

Credits separated by a hyphen indicate variable credit:

**HUM 4905 DIRECTED RESEARCH (1-5)**

The abbreviation "var." also indicates variable credit:

**MAT 7912 DIRECTED RESEARCH (var.)**

The following abbreviations are utilized in various course descriptions:

PR	Prerequisite
CI	With the consent of the instructor
CC	With the consent of the chairperson of the department or program
CP	Co-prerequisite
CR	Corequisite
DPR	Departmental Permit Required
GS	Graduate Standing
GR	Graduate Standing
ML	Master's Level
S/U	S/U Grade System
Lec.	Lecture
Lab.	Laboratory
Dem.	Demonstration
Pro.	Problem
Dis.	Discussion

## SPECIAL INFORMATION COURSE CODES

<b>6A</b>	Courses to satisfy Rule 6A-10.30 (Gordon Rule)
<b>EC</b>	Course fulfills part of the Liberal Arts General Education Requirement for English Composition
<b>FA</b>	Course fulfills part of the Liberal Arts General Education Requirement for Fine Arts
<b>HP</b>	Course fulfills part of the Liberal Arts General Education Requirement for Historical Perspectives
<b>NS</b>	Course fulfills part of the Liberal Arts General Education Requirement for Natural Sciences
<b>AF</b>	Course fulfills part of the Liberal Arts General Education Requirement for African, Latin American, Middle Eastern, or Asian Perspectives
<b>QM</b>	Course fulfills part of the Liberal Arts General Education Requirement for Qualitative Methods
<b>SS</b>	Course fulfills part of the Liberal Arts General Education Requirement for Social Sciences
<b>LW</b>	Course fulfills part of the Liberal Arts Exit Requirement for Literature and Writing
<b>MW</b>	Course fulfills part of the Liberal Arts Exit Requirement for Major Works and Major Issues

## Five Year Course Deletion Rule

In compliance with State of Florida Department of Education ruled 6A-10.0331, USF undergraduate courses not taught for five years, or fewer if desired, are deleted from the Undergraduate Catalog.

**The University reserves the right to substitute, not offer, or add courses that are listed in this catalog.**

**Alphabetical Listing of Departments and Programs**  
Course descriptions are listed by college under the following department and program headings:

Department/Program	College
Accounting	Business
Administration/Supervision	Education
Adult Education	Education
Africana Studies	Arts and Sciences

Air Force ROTC	Undergraduate Studies
American Studies	Arts and Sciences
Ancient Studies (Religious Studies)	Arts and Sciences
Anthropology	Arts and Sciences
Arabic (Language)	Arts and Sciences
Army ROTC	Undergraduate Studies
Art	Visual and Performing Arts
Art Education	Visual and Performing Arts
Astronomy	Arts and Sciences
Athletic Training	Medicine
Basic and Interdisciplinary	
Engineering	Engineering
Biology	Arts and Sciences
Business and Office Education	Education
Chemistry	Arts and Sciences
Chemical & Biomedical	
Engineering	Engineering
Chinese (Language)	Arts and Sciences
Civil and Environmental	
Engineering	Engineering
Classics	Arts and Sciences
Common Body of Knowledge	Business
Communication	Arts and Sciences
Communication Sciences and	
Disorders	Arts and Sciences
Community Experiential Learning	Arts and Sciences
Computers in Education	Education
Computer Science and	
Engineering	Engineering
Computer Service Courses	Engineering
Cooperative Education	Undergraduate Studies
Criminology	Arts and Sciences
Dance	Visual and Performing Arts
Early Childhood Education	Education
Economics	Business
Electrical Engineering	Engineering
Elementary Education	Education
English	Arts and Sciences
English Education	Education
Environmental Science & Policy	Arts and Sciences
Finance	Business
Fine Arts Interdisciplinary	Visual and Performing Arts
Foreign Language Education	Education
French (Language)	Arts and Sciences
General Business Administration	Business
General Foreign Languages	Arts and Sciences
Geography	Arts and Sciences
Geology	Arts and Sciences
Gerontology	Arts and Sciences
German (Language)	Arts and Sciences
Government & International Affairs	Arts and Sciences
Greek (Classics)	Arts and Sciences
Hebrew (Language)	Arts and Sciences
Higher Education	Education
History	Arts and Sciences
Honors	Honors College
Hospitality and Restaurant	
Management	Undergraduate Studies
Humanities	Arts and Sciences
Human Services	Arts and Sciences
Industrial and Management	
Systems	Engineering
Information Systems & Decision	
Sciences	Business
Information Technology	Undergraduate Studies
Interdisciplinary Studies	Arts and Sciences
International Studies	Arts and Sciences
Italian (Language)	Arts and Sciences
Japanese (Language)	Arts and Sciences
Languages	Arts and Sciences
Latin (Classics)	Arts and Sciences
Liberal Studies	Arts and Sciences

Library & Information Science	Arts and Sciences	Environmental Science & Policy	EVR
Linguistics	Arts and Sciences	Geography	GEA, GEO, MET, URF
Management	Business	Geology	GLY, OCE, OCG
Marine Science	Marine Science	Gerontology	GEY, HUS
Marketing	Business	Government & International Affairs	
Mass Communications	Arts and Sciences	International Studies	AFA, ASN, EUS, INR, LAS,
Mathematics	Arts and Sciences		WST
Mathematics Education	Education	Political Science	CPO, INR, POS, POT,
Measurement and Research	Education		PUP, URP
Mechanical Engineering	Engineering	Public Administration	PAD
Medical Technology	Arts and Sciences	History	AFH, AMH, ASH, EUH,
Military Science (Army ROTC)	Undergraduate Studies		HIS, LAH, WST
Music	Visual and Performing Arts	Humanities	HUM
Music Education	Visual and Performing Arts	Interdisciplinary Sciences	ISC
Naval Science (Navy ROTC)	Undergraduate Studies	Interdisciplinary Social Sciences	ISS, STA
Nursing	Nursing	Language - General	
Philosophy	Arts and Sciences	Foreign Languages	ENS, FLE, FOL, FOW,
Physical Education - Elective	Education		LIN, TSL
Physical Education - Professional	Education	Arabic	ARA
Physics	Arts and Sciences	Chinese	CHI
Polish (Language)	Arts and Sciences	French	FRE, FRT, FRW
Political Science	Arts and Sciences	German	GER, GET, GEW
Portuguese (Language)	Arts and Sciences	Greek	GRK
Psychological and Social		Hebrew	HBR
Foundations of Education	Education	Italian	ITA, ITT, ITW
Psychology	Arts and Sciences	Japanese	JPN
Public Administration	Arts and Sciences	Polish	POL
Public & Community Health		Portuguese	POR
Education	Public Health	Russian	RUS, RUT
Reading	Undergraduate Studies	Spanish	SPN, SPT, SPW
Reading Education	Education	Yoruba	YOR
Rehabilitation Counseling	Arts and Sciences	Liberal Studies	IDS
Religious Studies	Arts and Sciences	Library & Information Science	LIS
Russian (Language)	Arts and Sciences	Linguistics	ENS, LIN, TSL
Social Science Education	Education	Mass Communications	ADV, FIL, JOU, MMC,
Social Sciences, Interdisciplinary	Arts and Sciences		PGY, PUR, RTV, VIC
Social Work	Arts and Sciences	Marine Science	OCB, OCC, OCE, OCG,
Sociology	Arts and Sciences		OCF
Spanish (Language)	Arts and Sciences	Mathematics	CGS, COP, MAA, MAC,
Special Education	Education		MAD, MAE, MAP, MAS,
Theatre	Visual and Performing Arts		MAT, MGF, MHF, MTG,
Women's Studies	Arts and Sciences	Medical Technology	MLS
Yoruba (Language)	Arts and Sciences	Microbiology	MCB
		Philosophy	PHH, PHI, PHM, PHP,
			WST
		Physics	PHY, PHZ
		Psychology	CBH, CLP, DEP, EXP,
			INP, PPE, PSB, PSY, SOP
		Rehabilitation Counseling	RCS
		Religious Studies	CLA, GRE, HEB, REL
		Ancient Studies	CLA, HEB
		Science Education	SCE*
		Social Science Education	SSE*
		Social Work	SOW
		Sociology	SYA, SYD, SYG, SYO,
		SYP	
		Women's Studies	AFA, AMH, AMS, ANT,
			COM, LIT, PHI, PHM,
			POS, PUP, REL, SOP,
			SPT, SYD, WST
		<b>College of Business</b>	
		Accounting	ACG, TAX
		Common Body of Knowledge	GEB
		Economics	ECO, ECP, ECS
		Finance	FIN, REE, RMI
		General Business	BUL, GEB, MAN
		Information Systems & Decision	
		Sciences	CGS, GEB, ISM, QMB
		Management	MAN
		Marketing	MAR
		<b>College of Education</b>	
		Computers in Education	EME

## 252 GENERAL COURSE INFORMATION

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

Content Specializations	ARE, FLE, MAE, SCE, SED, SSE	AFA	Africana Studies, International Studies, Women's Studies
Elementary Education	EDE, EDG, EDS, LAE, MAE, RED, SCE, SSE	AFH	Africana Studies, History
English Education	LAE	AFR	Aerospace Studies (Air Force ROTC)
Foreign Language Education	FLE	AFS	Africana Studies
Higher Education	EDH	AMH	Africana Studies, History, Women's Studies
Humanities Education	HUM Measurement-	AML	Africana Studies, English
Research	EDF	AMS	Africana Studies, American Studies, Women's Studies
Physical Education - Elective	HLP, PEL, PEM, PEN, PEQ, PET	ANG	Anthropology
Physical Education - Professional	HLP, HSC, PEP, PEQ, PET	ANT	Africana Studies, Anthropology, Women's Studies
Psychological & Social Foundations of Education	EDF, IDS, MHS, SDS, SLS, SPS	ARA	Arabic (Language)
Reading Education	RED	ARC	Architecture
Science Education	SCE	ARE	Art Education, Elementary Education
Social Science Education	SSE	ARH	Art History
Special Education	EDG, EED, EEX, EGI, ELD, EMR, EPH	ART	Art
<b>College of Engineering</b>		ASH	History
Basic and Interdisciplinary Engineering	EGN	ASN	International Studies
Chemical Engineering	ECH	AST	Astronomy
Civil and Environmental Engineering	CEG, CES, CGN, CWR, EMA, ENV, TTE	BCC	Medical Sciences
Computer Science & Engineering	CAP, CDA, CEN, CIS, COP, COT, EEL, ESI	BCH	Chemistry
Computer Service Courses	CGS, COP, ETG, ETI	BME	Biomedical Engineering
Electrical Engineering	EEL, ELR	BMS	Medicine, Medical Sciences
Industrial and Management Systems	EIN, ESI	BOT	Biology
Mechanical Engineering	EAS, EML	BSC	Biology
<b>Honors College</b>		BTE	Business & Office Education
Honors College	IDH	BUL	General Business Administration
<b>College of Nursing</b>		CAP	Computer Science & Engineering
Nursing	BSC, HUN, MCB, NUR	CAS	Communication Sciences & Disorders
<b>College of Public Health</b>		CBH	Psychology
Public Health	HSC	CCE	Civil & Environmental Engineering
<b>Undergraduate Studies</b>		CCJ	Criminology
Aerospace Studies (Air Force ROTC)	AFR	CDA	Computer Science & Engineering, Information Technology
Cooperative Education	IDS	CEG	Civil & Environmental Engineering
Hospitality and Restaurant Management	FSS, HFT	CEN	Computer Science & Engineering, Information Technology
Information Technology	CDA, CEN, CIS, COP, EEL	CES	Civil & Environmental Engineering
Military Science (Army ROTC)	MSL	CGN	Civil & Environmental Engineering
Naval Science (Navy ROTC)	NSC	CGS	Computer Service Courses, Mathematics, Mathematics Education
Reading	REA	CHI	Chinese
Student Leadership	STL	CHM	Chemistry
<b>College of Visual and Performing Arts</b>		CHS	Chemistry
Art	ARH, ART, FIL, GRA, PGY	CIS	Computer Science & Engineering, Information Technology
Art Education	ARE, EDG	CJC	Criminology
Dance	DAA, DAE, DAN	CJE	Criminology
Fine Arts Interdisciplinary	IDS	CJJ	Criminology
Music	MUC, MUE, MUG, MUH, MUL, MUN, MUO, MUS, MUT, MVB, MVJ, MVK, MVP, MVS, MVV, MVW	CJL	Criminology
Music Education	MUE	CJT	Criminology
Theatre	THE, TPA, TPP	CLA	Classics, Religious Studies
		CLP	Psychology
		CLT	Classics
		COM	Communication, Women's Studies
		COP	Computer Service Courses, Computer Science & Engineering, Information Technology, Mathematics
		COT	Computer Science & Engineering
		CPO	Africana Studies, Political Science
		CRW	English
		CWR	Civil & Environmental Engineering
		DAA	Dance
		DAE	Dance
		DAN	Dance
		DEC	Distributive & Marketing Education
		DEP	Psychology
		EAB	Psychology
		EAP	World Language Education
		EAS	Mechanical Engineering
		ECH	Mechanical Engineering
		ECO	Economics
		ECP	Economics

### Listing Departments/Programs Alphabetically by Prefix

Course Prefix	Department/Programs
ACG	Accounting
ADE	Adult Education
ADV	Mass Communications

ECS	Economics	HLP	Elementary Education, Physical Education - Elective
EDA	Educational Leadership	HSC	Public Health
EDE	Elementary Education	HUM	Africana Studies, Humanities
EDF	Psychological & Social Foundations, Measurement- Research	HUN	Nursing
EDG	Curriculum & Instruction, Education - General, Educational Leadership, Elementary Education, Theatre Education	HUS	Gerontology
EDH	Higher Education	IDH	Honors College
EDM	Middle Grades Education	IDS	Community Experiential Learning Program, Coopera- tive Education, Fine Arts Interdisciplinary, Honors Program, Liberal Studies
EDS	Educational Leadership	INP	Psychology
EEC	Early Childhood Education	INR	Africana Studies, International Studies, Political Sci- ence
EED	Special Education	ISC	Interdisciplinary Sciences
EEL	Computer Science & Engineering, Electrical Engineer- ing, Information Technology	ISM	Information Systems & Decision Sciences
EEX	Special Education	ISS	Africana Studies, International Studies, Interdiscipli- nary Social Sciences
EGI	Special Education	ITA	Italian (Language)
EGM	Civil & Environmental Engineering	ITT	Italian Translation
EGN	Basic & Interdisciplinary Engineering	ITW	Italian (Language)
EGS	Interdisciplinary Engineering	JOU	Mass Communications
EIA	Industrial & Technical Education	JPN	Japanese (Language)
EIN	Industrial & Management Systems Engineering	LAE	Elementary Education, English Education
EIT	Information Technology	LAH	History
EIV	Industrial & Technical Education	LAS	International Studies
ELD	Special Education	LAT	Latin (Classics)
ELR	Electrical Engineering	LIN	Linguistics
EMA	Civil & Environmental Engineering	LIS	Library and Information Science
EME	Industrial & Technical Education	LIT	English, Women's Studies
EML	Mechanical Engineering	LNW	Latin (Classics)
EMR	Special Education	MAA	Mathematics
ENC	English	MAC	Mathematics
ENG	English	MAD	Mathematics
ENL	English	MAE	Elementary Education, Mathematics, Mathematics Edu- cation
ENV	Civil Engineering and Mechanics	MAN	General Business Administration, Management
ENY	Biology	MAP	Mathematics
EPH	Special Education	MAR	Marketing
ESE	Secondary Education	MAS	Mathematics
ESI	Industrial & Management Systems Engineering	MAT	Mathematics
ETG	Computer Service Courses	MCB	Biology
ETI	Computer Service Courses	MEL	Medical Sciences
EUH	History	MET	Geography
EUS	International Studies Program	MGF	Mathematics
EVR	Environmental Science & Policy	MHF	Mathematics
EVT	Industrial & Technical Education	MHS	Psychological & Social Foundations of Education
EXP	Psychology	MLS	Medical Technology
FIL	Art, Mass Communications	MMC	Mass Communications
FIN	Finance	MSL	Military Science (Army ROTC)
FLE	Foreign Language Education, French (Language)	MTG	Mathematics
FOL	General Foreign Languages	MUC	Music
FOW	French (Language)	MUE	Elementary Education, Music Education
FRE	French (Language)	MUG	Music
FRT	French (Language)	MUH	Music
FRW	French (Language)	MUL	Music
FSS	Hospitality and Restaurant Management	MUN	Music
GEA	Geography	MUO	Music
GEB	Common Body of Knowledge, General Business Ad- ministration	MUS	Music
GEO	Geography	MUT	Music
GER	German (Language)	MVB	Music
GET	German (Language)	MVJ	Music
GEW	German (Language)	MVK	Music
GEY	Gerontology, Psychology	MVP	Music
GLY	Geology	MVS	Music
GMS	Medical Sciences, Medicine	MVV	Music
GRA	Art	MVW	Music
GRE	Greek (Classics), Religious Studies	NGR	Nursing
GRK	Greek (Language)	NSC	Naval Science (Navy ROTC)
GRW	Greek (Classics)	NUR	Nursing
HBR	Hebrew (Language)	OCB	Marine Science
HEB	Religious Studies	OCC	Marine Science
HFT	Hospitality and Restaurant Management	OCE	Geology, Marine Science
HIS	History	OCG	Geology, Marine Science

## 254 GENERAL COURSE INFORMATION

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

OCP	Marine Science
ORI	Communication
PAD	Public Administration
PCB	Biology
PEL	Physical Education - Elective
PEM	Physical Education - Elective
PEN	Physical Education - Elective
PET	Physical Education - Elective, Physical Education - Professional
PGY	American Studies, Art, Mass Communications
PHC	Public Health
PHH	Philosophy
PHI	Africana Studies, Philosophy, Women's Studies
PHM	Africana Studies, Philosophy, Women's Studies
PHP	Philosophy
PHT	Physical Therapy
PHY	Physics
PHZ	Physics
POL	Polish (Language)
POR	Portuguese (Language)
POS	Political Science, Women's Studies
POT	Political Science
PPE	Psychology
PSB	Psychology
PSC	Physical Sciences
PSY	Psychology
PUP	Africana Studies, Political Science, Women's Studies
PUR	Mass Communications
QMB	Information Systems & Decision Sciences
RCS	Rehabilitative Counseling
REA	Reading
RED	Elementary Education, Reading Education
REE	Finance
REL	Religious Studies, Women's Studies
RMI	Finance
RTV	Mass Communications
RUS	Russian (Language)
RUT	Russian (Language)
SCE	Elementary Education, Science Education
SDS	Psychological & Social Foundations of Education
SED	Speech Education
SLA	Second Language Acquisition
SLS	Psychological & Social Foundations of Education
SOP	Psychology, Women's Studies
SOW	Social Work
SPA	Communication Sciences & Disorders
SPC	Africana Studies, Communication
SPN	Spanish (Language)
SPS	Psychological & Social Foundations
SPT	Spanish (Language), Women's Studies
SPW	Spanish (Language)
SSE	Elementary Education, Social Science Education
STA	Mathematics, Interdisciplinary Social Sciences
SUR	Civil & Environmental Engineering
SYA	Sociology
SYD	Sociology, Women's Studies
SYG	Sociology
SYO	Sociology
SYP	Sociology
TAX	Accounting
THE	Theatre
TPA	Theatre
TPP	Theatre
TSL	Linguistics
TTE	Civil & Environmental Engineering
URP	Geography, Political Science
URS	Urban & Regional Studies
VIC	Mass Communications
WOH	World History
WST	History, International Studies, Women's Studies
YOR	Yoruba (Language)
ZOO	Biology

### COURSE LEVEL DEFINITION

Lower Level	0000-1999 Freshman Level 2000-2999 Sophomore Level
Upper Level	3000-3999 Junior Level 4000-4999 Senior Level
Graduate Level	5000-5999 Senior/Graduate Level 6000-Up Graduate Level

### Florida's Statewide Course Numbering System

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System. This numbering system is used by all public postsecondary institutions in Florida and 33 participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions.

Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have a meaning in the Statewide Course Numbering System (SCNS). The list of course prefixes and numbers, along with their generic titles, is referred to as the "SCNS taxonomy." Descriptions of the content of courses are referred to as "course equivalency profiles."

### General Rule for Course Equivalencies

Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions. (Exceptions are listed below.)

For example, a survey course in social problems is offered by 35 different postsecondary institutions. Each institution uses "SYG 010" to identify its social problems course. The level code is the first digit and represents the year in which students normally take the course at a specific institution. In the SCNS taxonomy, "SYG" means "Sociology, General," the century digit "0" represents "Entry-level General Sociology," the decade digit "1" represents "Survey Course," and the unit digit "0" represents "Social Problems."

In science and other areas, a "C" or "L" after the course number is known as a lab indicator. The "C" represents a combined lecture and laboratory course that meets in the same place at the same time. The "L" represents a laboratory course or the laboratory part of a course, having the same prefix and course number without a lab indicator, which meets at a different time or place.

Transfer of any successfully completed course from one institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, SYG 1010 is offered at a community college. The same course is offered at a state university as SYG 2010. A student who has successfully complete SYG 1010 at the community college is guaranteed to receive transfer credit

for SYG 2010 at the state university if the student transfers. The student cannot be required to take SYG 2010 again since SYG 1010 is equivalent to SYG 2010. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent.

### The Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or subcategory of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the prefix designation.

### Authority for Acceptance of Equivalent Courses

Section 1007.24(7), Florida Statutes, states:

Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students.

### Exceptions to the General Rule for Equivalency

The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution:

- A. Courses in the 900-999 series (e.g., ART 2905)
- B. Internships, practica, clinical experiences, and study abroad courses
- C. Performance or studio courses in Art, Dance, Theater, and Music
- D. Skills courses in Criminal Justice
- E. Graduate courses
- F. Courses not offered by the receiving institution

College preparatory and vocational preparatory course may not be used to meet degree requirements and are not transferable.

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to the Office of the Dean, Undergraduate Studies in SVC 2002 at the University of South Florida or the Florida Department of Education, Office of Articulation, 1401 Turlington Building, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling telephone number (850) 245-0427 or SunCom 205-0427.

## 256 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

### **ACG 2021 Principles of Financial Accounting (3) BA ACC**

Study of basic accounting principles including the recording and reporting of financial activity. The preparation and interpretation of financial statements.

### **ACG 2071 Principles of Managerial Accounting (3) BA ACC**

PR: ACG 2021 with a grade of "C-" or better. A study of the accountant's role in assisting management in the planning and controlling of business activities.

### **ACG 3074 Managerial Accounting for Non-Business Majors (3) BA ACC**

Does not count towards major or CPA requirements. Not available for credit for Business majors. The study of the uses of accounting data internally by managers in planning and controlling the affairs of organizations.

### **ACG 3103 Intermediate Financial Accounting I (3) BA ACC**

PR: ACG 2071 with a grade of "C" or better; ACG 2021 with a grade of "C" or better. Theory and methodology underlying financial reporting, including the FASB's conceptual framework, the accounting process, financial statements, accounting changes, present value applications, and current assets.

### **ACG 3113 Intermediate Financial Accounting II (3) BA ACC**

PR: ACG 3103 and ACG 3341 with a grade of "C" or better (not C-). Continuation of ACG 3103. Topics covered include property, plant and equipment, intangibles, current liabilities, long-term debt, stockholders' equity, earnings per share computations, and investments.

### **ACG 3341 Cost Accounting and Control I (3) BA ACC**

PR: ACG 2071 with a grade of "C" or better; ACG 2021 with a grade of "C" or better. Deals with cost accounting systems for different entities, cost behavior patterns, cost-volume-profit analysis, relevant information for decision making, and budgets and standard costs for planning and control.

### **ACG 3401 Accounting Information Systems (3) BA ACC**

PR: ACG 3103 and ACG 3341 with a grade of "C" or better (not C-). This course provides students with a basic understanding of well-controlled information systems in a variety of technological environments with added emphasis on the collection, processing, and reporting of accounting information.

### **ACG 4123 Intermediate Financial Accounting III (3) BA ACC**

PR: ACG 3113 with a grade of "C" or better (not C-). Theory and practice underlying revenue recognition, income tax allocation, leases, post-retirement benefits, error analysis, statement of cash flows, full disclosure, and other current accounting topics.

### **ACG 4351 Cost Accounting And Control II (3) BA ACC**

PR: ACG 3103 and ACG 3341 with a grade of "C" or better (not C-). Application of the material covered in ACG 3341 with specific emphasis on cost allocations, performance measurements, analysis of current cost accounting systems and accounting in today's environment (giving consideration to the influences of the international environment).

### **ACG 4632 Auditing I (3) BA ACC**

PR: ACG 3113 and ACG 3401. This course provides a sound conceptual foundation of basic auditing process from the perspective of the public accounting profession. Professional standards, ethics, legal responsibilities, and the utilization of technology are addressed.

### **ACG 4642 Auditing II (3) BA ACC**

PR: ACG 4632 with a grade of "C" or better (not C-). Further development of material covered in ACG 4632, with special emphasis on additional reporting topics and audit techniques not previously addressed.

### **ACG 4901 Independent Study (1-3) BA ACC**

PR: Consent of Director. S/U only. Specialized independent study determined by the students' needs and interests.

### **ACG 4911 Independent Research (1-4) BA ACC**

PR: Consent of Director. Individual study contract with instructor and director required. The research project will be mutually determined by the student and instructor.

### **ACG 4931 Selected Topics In Accounting (1-4) BA ACC**

The course content will depend on student demand and instructor's interest.

### **ACG 5205 Advanced Financial Accounting (3) BA ACC**

PR: ACG 4123 Accounting for business combinations, preparation of consolidated financial statements, home office/branch relationships, foreign operations and transactions, partnerships.

### **ACG 5505 Governmental/Not-For-Profit Accounting (3) BA ACC**

PR: ACG 4123. CR: ACG 4632. Application of financial and managerial accounting, and auditing, principles and theory to both governmental and not-for-profit entities.

### **ACG 5675 Internal and Operational Auditing (3) BA ACC**

PR: ACG 3113 and ACG 3401. CR: ACG 4632. The objective of Internal and Operational Auditing is to provide students with an opportunity to learn about the theory and practice of internal and operational auditing and to apply relevant audit principles and techniques to selected audit problems.

### **ADE 4384 Working With the Adult Learner (3) ED EDV**

An investigation of the needs of the adult learner. Identification of principles of adult learning; physiological, psychological, and social characteristics of adult learners, and corresponding implications are explored.

### **ADV 3008 Introduction to Advertising (3) AS COM**

PR: MMC 2100 and MMC 3602. A study of the structures, functions, and persuasive language of advertising in mass media with attention to social, political, economic, and legal aspects.

### **ADV 3101 Advertising Creativity (3) AS COM**

PR: ADV 3008 and ECO 1000. Study of copywriting and art direction in the creation of advertising messages for alternative media platforms. Restricted to majors only.

### **ADV 3103 Radio-Television Advertising (3) AS COM**

PR: ADV 3008. An intensive study and analysis of radio and television for advertising purposes, including copywriting, script and storyboard preparation, time buying and selling techniques, audience research methods, and basic production concepts.

### **ADV 3200 Advertising Design (3) AS COM**

PR: ADV 3008 (for advertising sequence majors) or VIC 3001 (for other Mass Comm majors). Application of graphic design principles to various areas of advertising. Combining visual and verbal elements effectively.

### **ADV 3300 Advertising Media Strategy (3) AS COM**

PR: ADV 3008 and ECO 1000. Problems, techniques, strategy of media research, planning, budgeting and effective utilization in advertising.

### **ADV 3500 Advertising Research (3) AS COM**

PR: ADV 3008. Overview of scientific research methods as used in advertising. Emphasis on the acquisition, analysis, and evaluation of primary and secondary data, and the principles of survey and experimental research.

### **ADV 3700 Retail Advertising Planning and Execution (3) AS COM**

PR: ADV 3008 and ADV 3101. A study of retail advertising, including management decisions, processes, procedures, media planning, production techniques, and problems affecting the development of advertising to fulfill retail objectives.

### **ADV 4204 Advanced Advertising Creativity (3) AS COM**

PR: ADV 3101, ADV 3300, ADV 3500, ADV 4600, ECO 1000, MAR 3023. Focused on producing advertising messages, the curriculum integrates: ethics, branding, consumer insight, message strategy, conceiving, persuasion, copywriting, design, and presentations. Students learn to execute effective advertising messages.

### **ADV 4301 Advanced Media Strategy (3) AS COM**

PR: ADV 3101, ADV 3300, ADV 3500, ADV 4600, ECO 1000, MAR 3023. Emphasizing decision making and critical thinking, this advanced course prepares students for the complexities of advertising media planning, implementation, and evaluation.

### **ADV 4310 Digital Media (3) AS COM**

PR: ADV 3101, ADV 3300, ADV 3500, ADV 4600, ECO 1000, MAR 3023. This course focuses on the impact of new communication technologies on consumer behavior and advertising practice. Students will learn the nature of digital media options and how to incorporate them into advertising planning.

### **ADV 4600 Advertising Management (3) AS COM**

PR: ADV 3008, ADV 3101, ADV 3300. Application of analytical planning concepts to advertising planning and decision-making. Case study method used to explore advertising and promotional programs; media and creative strategies; consumer, retail, industrial, and public service applications.

### **ADV 4710 Portfolio Building (3) AS COM**

PR: ADV 3101, ADV 3300, ADV 3500, ADV 4600, ECO 1000, MAR 3023. This course goes beyond the basics of copy and layout to develop a broader understanding of the creative advertising process. It stresses creativity and organizational ability in portfolio building, along with technical skills in portfolio production.

### **ADV 4800 Advertising Campaigns (3) AS COM**

PR: ADV 3101, ADV 3300, ADV 3500, ECO 1000, and MAR 3023. Advanced advertising course requiring planning and production of complete general advertising campaign, including research, production methods, budgeting, and media schedules.

### **ADV 4940 Advertising Practicum (1) AS COM**

PR: CI. For advertising sequence majors. S/U only. Practical experience outside the classroom where the student works for

academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.

**AFA 2000 Introduction to the Black Experience [In Africa and Its Diaspora] 6A AF (3) AS AFA**

Fundamental perspectives on the nature and significance of the Black Experience in Africa and black communities in the Americas.

**AFA 4150 Africa and the United States 6A SS HP AF (3) AS INT**

An examination of the historical and current political, economic, and cultural relations between the United States and Africa.

**AFA 4313 Black English MW (3) AS AFA**

PR: Junior or Senior standing. This course focuses on linguistic patterns among African Americans in the U.S., South and Central America, and the Caribbean. It examines language in relation to issues of domination, social stratification, economics and political empowerment.

**AFA 4331 Social Institutions and the African American Community (3) AS AFA**

A study of social institutions as they relate to the African American community, with emphasis on social systems operating within and on the African American community.

**AFA 4333 The African Diaspora: Blacks in the Construction of the Americas MW (3) AS AFA**

PR: Junior or Senior standing. This course will examine the historical and geographical distribution of Africans in the diaspora and the political and economic roles they have played in the development of the Western world, with a focus on America. The course takes an interdisciplinary approach. The course is not restricted to majors and is not repeatable for credit.

**AFA 4335 Black Women in America 6A MW (3) AS AFA**

An interdisciplinary survey of the contemporary experience of black women in America, including the African roots, myths, and realities surrounding that experience.

**AFA 4350 African American Community Research MW (3) AS AFA**

This interactive, field experience course introduces students to active and applied research methodologies and the uses of this research in Black urban communities.

**AFA 4500 Slavery in the Americas and the Caribbean MW (3) AS AFA**

This course examines the institution of enslavement in North, South, and Central America, and the Caribbean. It takes an interdisciplinary approach in exploring the social, political, and economic underpinnings of slavery.

**AFA 4502 Middle Passage MW AF HP (3) AS AFA**

The Middle Passage focuses on the trafficking of African peoples from Africa to destinations in the Americas and Europe. Emphasis is placed on the capture, detention, and transport of Africans, and their response to the experience.

**AFA 4900 Directed Readings (2-3) AS AFA**

PR: CI. Independent readings in a particular area of African and African American Studies, selected by student and instructor.

**AFA 4931 Selected Topics in Africana Studies (3) AS AFA**

Topics offered are selected to reflect student needs and faculty interests. In depth study in such areas as the Black Student and the American Educational Process; the Black Experience in the Americas; European Expansion in Africa to 19th century; Contemporary Economic Problems in Africa.

**AFA 5935 Issues in Africana Studies (1-4) AS AFA**

Variable topics course focusing on the history, culture, and lived experiences of Africans, African American, and/or other peoples of African descent worldwide. Rpt. Up to 12 hours as topics vary.

**AFH 3100 African History to 1850 HP AF (3) AS HTY**

An outline survey of pre-colonial African history including a prefatory introduction to the use of primary sources (such as archaeology, oral tradition, cultural anthropology, comparative linguistics, documents) in reconstructing the African past.

**AFH 3200 African History since 1850 HP AF (3) AS HTY**

Survey of the Colonial and post-colonial history of Africa. Emphasis on the impact of European and other alien influences on the continent, emergence of independent African states, and post-independence problems of nation building and economic development.

**AFR 1101 The Foundation of the United States Air Force Pt 1 (1) US AFR**

Intro Air Force Reserve Officer Training Corps (AFROTC) & US Air Force (USAF) includes lessons in officership/professionalism and an intro to communication skills. AFR 2001 Lead Lab augments course providing followership and leadership experiences.

**AFR 1120 The Foundations of the United States Air Force Pt 2 (1) US AFR**

A study of Air Force installations, Core Values, Leadership, Team Building, and Diversity within Armed Forces. AFR 2001 Lead Lab augments course providing followership and leadership experiences, utilizing leadership and management principles.

**AFR 1903 Directed Independent Studies (1-4) US AFR**

PR: DPR Directed Independent Study.

**AFR 2000 Enhanced Physical Fitness Training (0) US AFR**

Required of all students in AFR 2000-, 3000-, and 4000-level classes. It meets twice per week for 1 and 1/2 hours. Concentrates on motivational physical fitness, healthy lifestyle and cadet esprit.

**AFR 2001 Air Force ROTC Leadership Laboratory (0) US AFR**

Leadership Laboratory is required for each of the Aerospace Studies courses. It meets one hour and 45 minutes per week. Instruction is conducted within the framework of an organized cadet corps with a progression of experiences designed to develop each student's leadership potential. Leadership Laboratory involves a study of Air Force customs and courtesies; drill and ceremonies; career opportunities in the Air Force; and the life and work of an Air Force junior officer. Students develop their leadership potential in a practical laboratory, which typically includes field trips to Air Force installations.

**AFR 2130 The Evolution of USAF Aerospace Power Part I (1) USAFR**

CR: AFR 2000, AFR 2001. A study of air power from balloons and dirigibles through the jet age. Emphasis is on the employment of air power in WWI and WWII and how it affected the evolution of air power concepts and doctrine.

**AFR 2140 The Evolution of USAF Aerospace Power Part 2 (1) USAFR**

CR: AFR 2000, AFR 2001. A historical review of air power employment in military and nonmilitary operations in support of national objectives. Emphasis is on the period from post WWII to present.

**AFR 3220 Air Force Leadership and Management - I (3) US AFR**

CR: AFR 2000, AFR 2001. An integrated management course emphasizing the individual as a manager in an Air Force milieu. The individual motivational and behavioral processes, leadership, communication, and group dynamics are covered to provide a foundation for the development of the junior officer's professional skills as an Air Force officer (officership). The basic managerial processes involving decision making, utilization of analytic aids in planning, organizing, and controlling in a changing environment are emphasized as necessary professional concepts.

**AFR 3231 Air Force Leadership and Management - II (3) US AFR**

CR: AFR 2000, AFR 2001. A continuation of the study of Air Force advancement and leadership. Concentration is on organizational and personal values, management of forces in change, organizational power, politics, and managerial strategy and tactics are discussed within the context of the military organization. Actual Air Force cases are used to enhance the learning and communication processes.

**AFR 4201 National Security Affairs & Preparation for Active Duty I (3) US AFR**

CR: AFR 2000, AFR 2001. Examines natl sec proc, regional studies, adv leadership ethics, AF doctrine with concentration on military as profession, communication/officership/mil justice/civil control of mil/prep for actv duty, current issues affecting military professionalism.

**AFR 4211 National Security Affairs & Preparation for Active Duty II (3) US AFR**

CR: AFR 2000, AFR 2001. Cont study natl sec proc, reg studies, adv leader ethics, & AF doct. Spec topics incl reg stud Europe, Mid East, Russia (fmr Soviet Republics), perform feedback, efvc perf report writing, enl/off eval sys, ops risk mngmt to prep students for active duty.

**AFS 2250 Culture and Society in Africa 6A AF (3) AS AFA**

Topics include: African religion, value systems, art and the aesthetics, family and life-cycle, impact of Islam and Christianity and conflict of cultures.

**AFS 3153 African Literature Survey 6A LW (3) AS AFA**

PR: Junior or Senior standing. Explore the socio-historical, philosophical and political dynamics of African cultures through the study of African oral literature and the reading of African literary texts of various genres.

**AFS 3251 Environmental - Cultural Study in Africa SS FA AF (3) AS AFA**

PR: AFS 2250 or CI. Study tour. A study of traditional African society and culture, the relationship between life and the environment, and the impact of modernization on the culture and the environment.

## 258 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

### AFS 4910 Individual Research (1-3) AS AFA

PR: CI, Department approval. 2000 level introductory course. Course consists of advanced undergraduate research on Africana Studies topic selected by student and professor. Topics vary. The course allows students to develop research skills and independent work discipline.

### AMH 2010 American History I HP (3) AS HTY

A history of the United States with attention given to relevant developments in the Western Hemisphere from European origins to 1877.

### AMH 2020 American History II HP (3) AS HTY

A history of the United States with attention given to relevant developments in the Western Hemisphere from 1877 to present.

### AMH 3110 American Colonial History to 1750 (4) AS HTY

A study of the evolution of American society from the Age of Reconnaissance to 1750. Attention is given to the transformation from colonies to provinces with emphasis on ethnocultural conflict, religion, labor systems, and political culture.

### AMH 3130 The American Revolutionary Era (4) AS HTY

Emphasis on the causes of the American revolution, the nature of Constitution-making, and the establishment of the federal system. Also examines the significance of loyalism, violence, and slavery in American society from 1750-1789.

### AMH 3140 The Age of Jefferson (4) AS HTY

A comprehensive study of American society and political culture from 1789-1828. Focuses on demographic trends, party systems, expansionism, Indian policy, labor, and ethno-cultural conflicts.

### AMH 3160 The Age of Jackson (4) AS HTY

The United States from 1828-1850, with emphasis on social and political conflict. Consideration of evangelicalism, reform, labor movements, urbanization, and political activity in the antebellum era.

### AMH 3170 The Civil War and Reconstruction (4) AS HTY

An examination of political, social, and economic climate of the 1850's that led to the American Civil War. The course does focus upon the war itself in its military, diplomatic, and political consequences through the end of the Reconstruction (1877).

### AMH 3201 The United States, 1877-1914 (4) AS HTY

A study of America from the end of Reconstruction to World War I. Ranging over political, social, and international developments, the course covers industrialization, immigration, unions, reform, feminism, race relations and imperialism.

### AMH 3231 The United States, 1914-1945 (4) AS HTY

The United States from World War I to the end of World War II. Covering political, social and international developments, the course examines the lives of Americans, including minorities and women, during war, prosperity, and the Great Depression.

### AMH 3270 The United States since 1945 (4) AS HTY

A study of America's role in the Cold War, in Vietnam, and in the post-Cold War era. Also examines domestic developments, such as the consumer culture, protest movements, and abuses of political power.

### AMH 3403 The South since 1865 (4) AS HTY

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

### AMH 3421 Early Florida (4) AS HTY

A history of colonial Florida under the Spanish and English. Florida as an area of discovery, colonization, and imperial conflict; the emergence of Florida within the regional setting.

### AMH 3423 Modern Florida (4) AS HTY

An historical survey of Florida from the territorial period to the modern era. An examination of the social, political, and economic changes occurring in Florida between 1821 and the 1980s.

### AMH 3500 American Labor History (4) AS HTY

A study of American workers from the colonial period to the present. Examines the changing nature of work, its effects on workers (including minorities and women), and their responses as expressed in strikes, unions, and political action.

### AMH 3510 U.S. Diplomatic History to 1898 6A (4) AS HTY

The development of American Foreign Relations in the Agricultural era.

### AMH 3511 U.S. Diplomatic History in the 20th Century (4) AS HTY

A history of American Foreign Relations in the Industrial era.

### AMH 3530 Immigration History (4) AS HTY

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

### AMH 3540 United States Military History (4) AS HTY

A study of American military policy and practices from colonial days to the present. Attention is given both to tactics and to strategy in the unfolding formulation and development of American armed might.

### AMH 3545 War and American Empire (4) AS HTY

The U.S. evolved in 200 years from 13 colonies to the number one power in the world. To achieve this goal we utilized war to achieve empire. This course will examine the link between American War and empire from the Revolution through Viet Nam.

### AMH 3561 American Women I (4) AS HTY

A study of women in the evolution of American society from European origins to 1877. Women's roles in the family, economy, politics, wars, and reform movements will be examined.

### AMH 3562 American Women II (4) AS HTY

A study of women in the evolution of American society from 1877 to the present. Women's roles in the family, economy, politics, immigration, wars, religion and reform movements will be examined.

### AMH 3571 African American History to 1865 HP (3) AS AFA

A survey of African American history, with an emphasis on North America to 1865. Topics include pre-colonial Africa, transatlantic slave trade, slavery, and the Civil War.

### AMH 3572 African American History since 1865 HP (3) AS AFA

A survey of African American history, with an emphasis on North America, from 1865 to the present. Topics include reconstruction, World War I, World War II, and the Civil Rights Movement.

### AMH 4601 Early American History and Archaeology (6) AS HTY

This course is a five week long summer practicum in early American historical archaeology. The class brings together historical research, material culture studies, and historical archaeology methods within a professional historical archaeology setting.

### AML 3031 American Literature From the Beginnings to 1860 (3) AS ENG

A study of representative works from the period of early settlement through American Romanticism, with emphasis on such writers as Cooper, Irving, Bryant, Hawthorne, Emerson, Melville, Thoreau, and Poe, among others.

### AML 3032 American Literature From 1860 to 1912 (3) AS ENG

A study of representative works of selected American Realists and early Naturalists, among them Whitman, Dickinson, Twain, James, Howells, Crane, Dreiser, Wharton, Robinson, Dunbar, and Johnson.

### AML 3051 American Literature From 1912-1945 (3) AS ENG

A study of poetry, drama, and fiction by such writers as Pound, Stein, Fitzgerald, Hemingway, Faulkner, Porter, Toomer, Cummings, Williams, Anderson, Steinbeck, Wright, West, Stevens, Henry Miller, and others.

### AML 3413 Historical Perspectives in Early American Literature HP (3) AS ENG

Examines American literature from the Colonial Period to the Civil War as a manifestation of geographical, political, social, and intellectual forces. Will not be counted toward the English major.

### AML 3604 African American Literature 6A LW (3) AS ENG

A study of African American literature from the nineteenth century to the present, including the works of such writers as W.E.B. DuBois, Jean Toomer, Langston Hughes, Richard Wright, Ralph Ellison, LeRoi Jones, and Nikki Giovanni.

### AML 3630 U.S. Latino/Latina Literature in English (3) AS AFA

PR: ENC 1101 and ENC 1102. This 3000-level literature course surveys American English literature by Latino/Latina writers (with Spanish American ancestry). Authors may include Piri Thomas, Sandra Cisneros, Esmeralda Santiago, Luis Valdéz, Tomás Rivera, Oscar Hijuelos, etc.

### AML 4111 Nineteenth-Century American Novel (3) AS ENG

A study of the American novel from its beginnings through 1900, including such novelists as Cooper, Hawthorne, Melville, James, Twain, Crane, and Dreiser, among others.

### AML 4121 Twentieth-Century American Novel (3) AS ENG

A study of major trends and influences in American prose fiction from 1900 to the present, including works by such writers as Hemingway, London, Wharton, Fitzgerald, Faulkner, West, Mailer, Bellow, Ellison, Donleavy, Updike, Vonnegut, and others.

### AML 4261 Literature of the South (3) AS ENG

A study of the major writers of the Southern Renaissance, including writers such as Faulkner, Wolfe, Caldwell, Hellman, McCullers, O'Connor, Warren, Styron, Tate, Davidson, and Dickey.

### AML 4300 Selected American Authors (3) AS ENG

The study of two or three related major authors in American literature. The course may include such writers as Melville and Hawthorne, Hemingway and Faulkner, James and Twain, Pound

- and Eliot, Stevens and Lowell, etc. Specific topics will vary. May be taken twice for credit with different topics.
- AML 4303 Zora Neale Hurston: Major Works 6A MW LW (3) AS AFA**  
PR: Junior or Senior standing. The course focuses on the life, works, and times of Zora Neale Hurston as a major Harlem Renaissance figure and a renowned Florida writer.
- AML 4624 Black Women Writers 6A LW (3) AS AFA**  
Black women writers focuses on the literature of women of Africa and the African Diaspora. It examines the social, historical, artistic, political, economic, and spiritual lives of African women in context of a global community.
- AMS 2030 Introduction to American Studies SS HP (3) AS AMS**  
An overview of American Studies, the interdisciplinary study of American culture. Analysis of the arts and literature, including music; social issues; popular culture; material culture; cultural diversity; and social change. These approaches will be applied to a specific cultural era.
- AMS 2201 Colonial American Culture HP (3) AS AMS**  
An examination of cultural patterns in America as they developed between 1600 and 1780 with an emphasis on the texture of everyday life.
- AMS 2212 Nineteenth-century American Culture HP (3) AS AMS**  
An examination of cultural patterns in America from 1776 to 1900 with an emphasis on the texture of everyday life.
- AMS 2270 Twentieth-century American Culture HP (3) AS AMS**  
An examination of cultural patterns in America from 1900 to the present with emphasis on the texture of everyday life.
- AMS 2363 Issues in American Civilization (1-4) AS AMS**  
An examination of selected topics such as natural environment and the quality of life, sports and American society, popular music, American communities, vigilante tradition, jazz music, role of the family, American success myth, youth in America. Topic varies.
- AMS 3001 American Culture 1880-1915 6A HP (4) AS AMS**  
Integration of major aspects of American life between the 1880s and World War I.
- AMS 3210 Regions of America HP (4) AS AMS**  
The pattern of American culture as revealed through an examination of selected writings and other pertinent materials dealing with selected American regions. Topic varies.
- AMS 3230 America During the 20s and 30s (3-4) AS AMS**  
Selected interdisciplinary materials are used to examine the relationships among regionalism, nationalism and internationalism during the twenties and thirties. Emphasis is placed on the measure of cultural nationalism attained by the United States during this period.
- AMS 3260 American Culture, 1830-1860 6A HP (4) AS AMS**  
Examines the patterns of American culture in the years leading up to the Civil War. Topics include religion and social reform, race relations, and the impact of industrialization.
- AMS 3302 Architecture and the American Environment (3) AS AMS**  
By means of slides, lectures and discussion, this course examines 350 years of American architectural history. Architectural styles, aesthetics and the relation between a building and its social environment are stressed.
- AMS 3370 Southern Women: Myth and Reality 6A HP (3) AS AMS**  
This course will identify the myths surrounding Southern Women, discern their sources and purposes, and contrast them with history.
- AMS 3601 Material Culture and American Society SS HP (3) AS AMS**  
By means of slides, lectures and student projects, examines connections between artifacts and American cultural attitudes from 17th century to present. Topics include: architecture, furniture, gravestones, toys, and the material subcultures of women, African-Americans and communal societies.
- AMS 3700 Racism in American Society SS HP (3) AS AMS**  
An introduction into the causes and effects of racism in American history, literature, art, the media, and folklore. Related concepts of ethnocentrism and class conflict will also be studied.
- AMS 3930 Selected Topics in American Studies (1-4) AS AMS**  
Offerings include Cultural Darwinism in America, America Through Foreign Eyes, and The Female Hero in American Culture.
- AMS 4152 Film in American Culture (3) AS AMS**  
Surveys the contributions to American culture of major films, studios, directors, stars, theaters, and controversies from the perspectives of genres and styles, critical methodologies and theories. Variable topics such as: series on a region, director, performer, subject, or period of time.
- AMS 4804 Major Ideas in America MW (3) AS AMS**  
Investigates the role of one or more influential ideas in American culture, for example: individualism, identity, community, dissent, reform, utopianism, democracy. Emphasizes the critical analysis of a variety of primary texts. Topic varies.
- AMS 4910 Individual Research (1-4) AS AMS**  
The content of the course will be governed by student demand and instructor interest. Instructor approval required prior to registration.
- AMS 4930 Selected Topics in American Studies (1-4) AS AMS**  
PR: Senior in American Studies or CI. Offerings include the social implications of American painting, Technology in Twentieth Century America, American Environmental Problems, Popular Culture in America, American Military Experience, and Labor in America.
- AMS 4935 Senior Seminar in American Studies (4) AS AMS**  
PR: Senior in American Studies or CI.
- AMS 4940 Internship in American Studies (1-2) AS AMS**  
A structured, out-of-class learning experience designed to provide first-hand, practical training in careers related to American Studies. Restricted to American Studies majors. Repeatable up to 4 credit hours.
- ANG 5395 Visual Anthropology (3) AS ANT**  
PR: Graduate standing. This class will examine the major dimensions of visual anthropology with an emphasis on the visual means of presenting anthropology to the discipline and general public. The course will focus on visual documentation and study of visual images.
- ANG 5486 Quantitative Methods in Anthropology (3) AS ANT**  
PR: Graduate Standing. This course is an introduction to quantitative methods for the anthropologist covering both classical statistical approaches and exploratory data analysis, using computers with statistical software.
- ANG 5901 Directed Reading (1-4) AS ANT**  
PR: DPR. S/U. Individual guidance in concentrated reading on a selected topic in Anthropology. Contract required prior to registration.
- ANG 5910 Individual Research (2-4) AS ANT**  
PR: DPR. Contract required prior to registration. S/U. Individual guidance in selected research project.
- ANG 5937 Seminar In Anthropology (2-4) AS ANT**  
PR: Senior or GS. Topics to be chosen by students and instructor.
- ANT 2000 Introduction to Anthropology SS AF (4) AS ANT**  
The cross-cultural study of the human species in biological and social perspective. Surveys the four major branches of anthropology: physical anthropology (human biology), archaeology (the analysis of the prehistoric and historic remains of human cultures), anthropological linguistics (the analysis of language in its cultural context), and cultural anthropology (the cross-cultural study of peoples living in the world today, be they in tribal, peasant, or urban societies).
- ANT 2410 Cultural Anthropology SS AF (3) AS ANT**  
Discussion of major methods of and orientations to the cross-cultural study of the world's peoples. Representative case studies are used to demonstrate variations in human adaptations and to encourage an appreciation of diverse values and lifestyles.
- ANT 2511 Biological Anthropology NS (3) AS ANT**  
CR: ANT 2511L. Non-human primates, the fossil record and the biology of races are surveyed in order to understand the human animal as a product of biosocial phenomena. Anatomy, genetics, culture and evolution are emphasized.
- ANT 2511L Biological Anthropology Laboratory NS (1) AS ANT**  
CR: ANT 2511 This is a lab companion to an overview of biological anthropology. The students will be doing laboratories which are relevant to the class topics covered in the lecture hall in ANT 2511.
- ANT 3005 The Anthropological Perspective AF (3) AS ANT**  
For non-anthropology majors only. May not be counted for credit toward an anthropology major. Presents the basic concepts of anthropology as they are relevant to contemporary life. Aims at enabling the student to understand the anthropologist's cross-cultural view of the human species as adapting through biosocial means to life on this planet.
- ANT 3101 Archaeology SS (3) AS ANT**  
The cross-cultural study of humankind from its beginnings up to and including the historic period through the recovery, description, and analysis of the remains of past cultures and societies.
- ANT 3610 Anthropological Linguistics SS (3) AS ANT**  
The comparative study of language in its cultural context, especially emphasizing the role of language in the cultural interpretation of physical and social reality.
- ANT 4034 Theories of Culture (3) AS ANT**  
PR: DPR. Senior standing with major in anthropology. The major concepts that form the anthropological view of humanity are

viewed in historical perspective. Basic ideas of the western philosophical tradition are analyzed from the Greeks to the 19th century when they became incorporated into the new discipline of anthropology. 20th century anthropological developments on these themes are considered.

**ANT 4142 Old World Archaeology (3) AS ANT**

PR: ANT 3101 or DPR. The archaeology of Europe, Asia and Africa, from the earliest humans through the emergence of state-level societies in many parts of the Old World. The course will focus on comparative aspects of economic, social, political, and religious organization in the prehistoric Near East, Egypt, China, the Aegean, Europe and Africa.

**ANT 4143 European Archaeology (3) AS ANT**

PR: ANT 3101 or DPR. The archaeology of Europe, from the first Palaeolithic inhabitants to the fall of Roman civilization. The course will focus on ancient material culture while emphasizing social and economic questions such as the emergence of modern humans, the adoption of agriculture, the development of complex societies, and the rise of civilization.

**ANT 4147 Environmental Archaeology (3) AS ANT**

PR: ANT 3101 or DPR. This course examines environmental constraints on ancient human societies, and how human activities have impacted the environment in the last several thousand years. Presentation of the methods used to reconstruct prehistoric environments will be followed by case studies from Florida, Central and South America, Easter Island, the Mediterranean and the Near East.

**ANT 4149 Fantastic Archaeology MW (3) AS ANT**

PR: Junior standing or above. Mysteries including the Lost Continent of Atlantis, Ancient Astronauts, Piltdown Man, Psychic Archaeology, Noah's Ark, and the Shroud of Turin will be examined, while emphasizing skills in critical thinking that have much wider practical applications.

**ANT 4153 North American Archaeology (3) AS ANT**

PR: ANT 3101 or DPR. An examination of the evidence regarding the human settlement of North America from its beginnings through the development of aboriginal culture to the period of European conquest. Emphasis on the comparative study of material culture at selected sites from all time periods. No field work is involved.

**ANT 4158 Florida Archaeology (4) AS ANT**

PR: ANT 3101, DPR. Culture history and culture process over 10,000 years from the time of the first people in Florida (Paleo-Indians) through the elaborate Weeden Island and Safety Harbor burial and temple mound cultures to the Spanish entrada and consequences of European conquest. Review of temporal and spatial relationships within the entire eastern U.S. and elsewhere. May be part of a summer (or other semester) field school, combined with Field Methods in Archaeology and Laboratory Methods in Archaeology.

**ANT 4163 Mesoamerican Archaeology (3) AS ANT**

PR: ANT 3101 or DPR. The chronological sequence from its beginnings through Protohistoric development is described and analyzed. Cultures such as the Maya, Aztec, Mixtec, Zapotec, Olmec, and Toltec are included, with emphasis on the environmental setting and the relationship between cultural ecology and the growth of civilization.

**ANT 4165 South American Archaeology (3) AS ANT**

PR: ANT 3101 or DPR. Describes and analyzes the sequence of cultural development in prehistoric South America. Cultures such as the Inca, Chavin, Mochica, Wari, Chimú are included. Emphasis on the environmental setting and the relationship between cultural ecology and the growth of civilization.

**ANT 4172 Historical Archaeology MW (3) AS ANT**

PR: ANT 3101 or DPR. A survey and analysis of archaeology focused on the historic period. Laboratory research with data recovered from historic sites in addition to classwork.

**ANT 4180 Laboratory Methods in Archaeology (2-4) AS ANT**

PR: ANT 3101, DPR. Data and materials recovered from archaeological survey and excavation are processed in the laboratory; includes artifact cleaning, cataloguing, identification, and analysis; soil flotation; reconstruction and conservation of artifacts, mapmaking, etc. May be offered as part of a summer (or other semester) field session. May be combined with Florida Archaeology and Field Methods in Archaeology.

**ANT 4181 Museum Methods (4) AS ANT**

PR: ANT 3101 and DPR. Design, preparation and installation of exhibits in the Department of Anthropology Teaching Exhibit Gallery. Emphasis on theory, research, design, and construction. Discussion of museum-related issues such as administration and curation.

**ANT 4183C Archaeological Science (4) AS ANT**

PR: ANT 3101 or DPR. This course focuses on the application of scientific methods of analysis to archaeological materials including bone, stone, pottery, and metal. Methods include absolute dating, remote sensing, optical and SEM microscopy, elemental and isotope analysis. Laboratory sections provide hands-on experience with a variety of archaeological materials and analytical methods.

**ANT 4231 Folklore 6A (3) AS ANT**

PR: ANT 2410 or DPR. Focuses on cross-cultural methods and techniques regarding the collection, classification, and analysis of such materials as myths, jokes, games, and items of material culture. African (or African-derived), Oceanic and Native American societies are surveyed.

**ANT 4241 Anthropology of Religion 6A MW (3) AS ANT**

PR: ANT 2410 or DPR. The cross-cultural study of the social and cultural aspects of religion. Religious activities in traditional and modern societies will be discussed. Ritual behavior, religious practitioners and symbols of belief will be considered in light of their impact on the social, political or economic aspects of peoples' lives.

**ANT 4285 Oral History (3) AS ANT**

PR: ANT 2410 or DPR. A survey of the history, methods, and current applications of oral history research, primarily in the anthropological study of culture, but with reference to allied disciplines. Students will become familiar with oral history through intensive analysis of selected case studies as well as guided field projects.

**ANT 4302 Gender in Cross-Cultural Perspective MW (3) AS ANT**

PR: ANT 2410 or DPR. Focuses on various theories, models and beliefs about male-female behaviors and interactions in human cultures throughout history and in various societies in the world today.

**ANT 4312 North American Indians (3) AS ANT**

PR: ANT 2410 or DPR. An examination of the evidence for the origin and antiquity of human beings in North America and of patterns of regional development until the period of contact with European colonists. Emphasis on varieties of ecological adaptation, social, political and religious systems, enculturation and worldview, folklore and visual art.

**ANT 4316 Ethnic Diversity in the United States MW (3) AS ANT**

PR: ANT 2410 or DPR. Special concerns include ethnic diversity in American society, historical and contemporary diversity in values, experiences, and lifestyles, and an examination of policies and problems affecting ethnic groups in the United States.

**ANT 4323 Mexico and Central America (3) AS ANT**

PR: ANT 2410. Restricted to Anthropology majors, LACS certificate students, juniors and seniors only. Focuses on the history, contemporary values and interpersonal relationships, and patterns of rural and urban life in Mesoamerica. Guatemala and Mexico are emphasized.

**ANT 4340 The Caribbean 6A MW (3) AS ANT**

PR: ANT 2410 or DPR. Restricted to junior and senior CAS majors. Main themes include: the depopulation of the aboriginal population and the resettlement of the area via slavery, indenture, and migration; contemporary ethnic heterogeneity; economic problems of Third World microstates; development of a modern social and political consciousness. Religious diversity, music, the graphic arts, and the literature of the contemporary Caribbean will also be surveyed.

**ANT 4390 Visual Anthropology (3) AS ANT**

PR: ANT 2410 and DPR. The use of photographic techniques for the crosscultural recording and analysis of human activities. The study of ethnographic photography as both art and science, and the production of an anthropological study that expresses the goal of "visual literacy." Review and evaluation of the uses of visual techniques and the evidence they provide to the social scientist.

**ANT 4401 Exploring Cross-Cultural Diversity MW (3) AS ANT**

For non-Anthropology majors only. This course will introduce students to anthropological perspectives which are useful in understanding the implications of cultural diversity related to changing demographic patterns within our country as well as to increasing globalization.

**ANT 4432 The Individual and Culture 6A MW (3) AS ANT**

PR: ANT 2410 or DPR. The relationship between the individual and society is studied cross-culturally. Main themes include child-rearing practices, psychosomatic illness and curing. Discussion of theories and models of personality development with special reference to their applicability to the emerging field of cross-cultural mental health planning.

## ANT 4442 Urban Life and Culture (3) AS ANT

PR: ANT 2410 or DPR. The cross-cultural study of urbanization, urbanism and human problems associated with metropolitan environments. Emphasis on the ethnography of city life and its relationship to the practical applications of urban research.

## ANT 4462 Health, Illness, and Culture (3) AS ANT

PR: ANT 2410 or DPR. The study of health and human behavior in cross-cultural perspective. Main themes include: the impact of disease on the development of human culture; comparative studies of curing practices; medical systems in their relationship to ideology. Emphasis on understanding the role of medicine, and the behavior of both practitioners and patients in modern societies.

## ANT 4495 Methods in Cultural Research (3) AS ANT

PR: DPR. Restricted to juniors and seniors. The stages in the development and execution of ethnological research are discussed and practiced. Literature search, hypothesis formation, selection of data collection techniques, elicitation of information, data analysis, and report presentation are stressed. Research design models from the case literature are studied and supervised research in the local community is designed and carried out.

## ANT 4520C Forensic Anthropology (4) AS ANT

PR: ANT 2511 or DPR. This course is designed to familiarize students with forensic anthropology through lectures and lab work. Students will learn human skeletal biology for personal identification and cause of death. This course is restricted to majors and is not repeatable.

## ANT 4586 Prehistoric Human Evolution NS (3) AS ANT

PR: ANT 2511 or DPR. A survey of the fossil record from the early primates through the ascent of Homo sapiens sapiens, focusing on the human lineage. Biosocial patterns and cultures of the past are also covered.

## ANT 4587 Human Variation (3) AS ANT

PR: ANT 2511 or DPR. An overview of evolution and biological variations of human races. Anatomical, morphological, and physiological patterns are surveyed geographically. Cultural influences on racial biology are explored.

## ANT 4620 Language and Culture 6A (3) AS ANT

PR: ANT 3610 or DPR. Examines the relationships between language and culture in cross-cultural perspective. Explores the extent to which languages shape the world views of their speakers. Emphasis on the nature and degree of fit between linguistics and other cultural systems of knowledge.

## ANT 4701 Applied Anthropology (3) AS ANT

PR: ANT 2410 or DPR. A review of approaches applying the anthropological perspective to contemporary human problems. Particular emphasis placed on public policy issues in United States society. Discussion of the historical development of applied anthropology, problems of economic development of the Third World, and the ethics of applied research and intervention.

## ANT 4750 Language and Social Interaction 6A (3) AS ANT

PR: ANT 3610 or DPR. Examines the role of language and other modes of communication in the social settings of speech communities. Student field projects focus on the cross-cultural description and analysis of patterns of communication in ethnographic contexts.

## ANT 4824 Archaeological Field Methods (4-12) AS ANT

PR: ANT 3101, DPR. Offered as all or part of a summer (or other semester) field session. May or may not be combined with Florida Archaeology and Laboratory Methods in Archaeology. Students learn appropriate methods of archaeological survey, excavation, data and materials recovery, recording, and processing.

## ANT 4901 Directed Reading (1-4) AS ANT

PR: DPR. S/U only. Individual guidance in concentrated reading on a selected topic in anthropology. Contract required prior to registration.

## ANT 4905 Individual Research (2-4) AS ANT

PR: DPR. S/U only. Individual guidance in a selected research project. Contract required prior to registration.

## ANT 4930 Special Topics in Anthropology (2-4) AS ANT

PR: Variable depending on topic or DPR. Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

## ANT 4932 Honors Seminar (4) AS ANT

PR: Admission to the honors program in anthropology and DPR. Seminar designed to provide the honors student with an opportunity to present, discuss and defend his/her own research and to explore in-depth topics in several areas of anthropology.

## ANT 4935 Rethinking Anthropology 6A (3) AS ANT

PR: Senior standing with major in anthropology. Through discussion of readings and student papers, students rethink and reevaluate anthropology as a discipline and the integration of its branches and

specialty fields. Students develop and articulate their current images of anthropology.

## ANT 4940 Directed Internship Including Practicum (2-4) AS ANT

PR: DPR. Individual guidance in a selected internship. Contract required prior to registration. S/U only. Majors and non-majors. May be repeated for credit; max 6 total hours.

## ANT 4970 Honors Thesis (3) AS ANT

PR: Admission to the honors program, completion of the honors seminar and DPR. S/U only. The student under the supervision of a faculty member will formalize, conduct, analyze, and report in writing a research project in anthropology.

## ARA 1120 Modern Arabic I (4) AS WLE

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

## ARA 1120L Modern Arabic I Laboratory (1) AS WLE

CR: ARA 1120. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously.

## ARA 1121 Modern Arabic II (4) AS WLE

PR: ARA 1120 or its equivalent. CR: ARA 1120L. A continuation of ARA 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

## ARA 1121L Modern Arabic II Laboratory (1) AS WLE

CR: ARA 1121. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

## ARA 2220 Modern Arabic III (4) AS WLE

PR: ARA 1121 or the equivalent. For language students who intend to attain basic proficiency.

## ARA 2221 Modern Arabic IV (4) AS WLE

PR: ARA2220 or the equivalent. Continuation of ARA2220. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

## ARA 4905 Directed Study (1-5) AS WLE

Departmental approval required. S/U only. Permits study options in Arabic not available in regularly scheduled curriculum at departmental discretion.

## ARA 4930 Selected Topics (1-5) AS WLE

Departmental approval required. Course permits classes in Arabic not available in the regularly scheduled curriculum at departmental discretion.

## ARC 2131 Introduction to Architectural Design and Graphics FA (4) AR ARC

An introduction to fundamental "critical thinking" and graphic communication skills in architecture.

## ARC 2211 Introduction to Architecture HP FA (3) AR ARC

An introduction to the analysis and interpretation of the architecture and urban design of various cultures.

## ARC 2701 Architectural History I HP FA (3) AR ARC

Overview of the built environment from prehistory through the Middle Ages. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological and economic context.

## ARC 2702 Architectural History II HP FA (3) AR ARC

Overview of the built environment from the Middle Ages to the present. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological and economic context.

## ARC 2932 Selected Topics (1-4) AR ARC

Selected topics will include architectural diagramming, freehand drawing, model making, photography, and computer graphics. Courses are intended for nonmajors and are repeatable.

## ARC 4784 The City 6A MW (3) AR ARC

This course examines the history of the city, as both idea and reality, with a particular focus on Western cities, and the 20th century. The course is open to undergraduates and students in the Graduate Architecture Program.

## ARC 4931 Selected Topics in Architecture and Community Design (2-4) AR ARC

Variable topics will be offered for pre-professional studies for students in the Liberal Studies Major/ALA Degree Program and as electives for other undergraduates.

## ARC 5175 Computer Technology (3) AR ARC

PR: CC. Introduction to the application of computer technology in current architectural practice. The exploration of available software, programs, and computer services for word processing, information handling, specification writing, feasibility analysis, cost estimating, economic performance and life cycle cost analysis, project management (network programming and analysis), computer graphics, computer aided design and drafting.

## 262 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

### **ARC 5216 The Building Arts (3) AR ARC**

PR: CC. Introduction to the man-made environment. The study and profession of architecture. The various facets of the process of shaping the built environment as it manifests itself in the different roles and specialization of the experts involved in the process, and in the various academic courses that prepare the architect for practice.

### **ARC 5256 Design Theory (3) AR ARC**

PR: DPR. Survey of major schools of thought in design theory, methods of design and problem-solving, and design research. The nature of the design activity and its recurring difficulties. The nature and different types of problems. Traditional approaches to problem-solving and design in architecture; recent systematic as well as intuitive approaches to problem-solving based on developments in other fields. Scientific method; the systems approach and design.

### **ARC 5361 Core Design I (9) AR ARC**

PR: CC. First of two semester Design Fundamentals/Design Graphics sequence focusing on design abstractions and analysis of the factors influencing conceptual design. Emphasis is placed on ordering principles, pattern recognition and utilization, and figure-ground relationships. Development of craftsmanship, drawing as a means to design, and perceptual acuity are stressed.

### **ARC 5362 Core Design II (9) AR ARC**

PR: ARC 5361, CC. Second of two semester Design Fundamentals/Design Graphics sequence focusing on synthesis of design concepts and application of ordering principles in architectural design. Emphasis is placed on developing an understanding and awareness of architectural elements and compositions. Students examine the work of significant architects and use it as a basis for design exploration. Graphic documentation, diagramming, and model studies are stressed.

### **ARC 5363 Core Design III (6) AR ARC**

PR: ARC 5362, ARC 5467, ARC 5587, ARC 5731. CO: ARC 5689. Study of the various phases of the building delivery and design process, and of different approaches to ordering that process in a systematic fashion. The student will use one such systematic approach in the investigation and development of design solutions for a project of moderate scale and complexity. Studies of built form ordering principles, mass/void relationships, scale and proportion, color, texture, contextual relationships, meaning/imagery, and building technology (awareness of structural organization, services networks, construction processes and materials). Aspects of human behavior as design determinants.

### **ARC 5364 Advanced Design A (6) AR ARC**

PR: ARC 5363. CP: ARC 5588, ARC 5467. Application of orderly design processes to building projects of moderate complexity and scale. Continued investigation of the relationship between human behavior and the environment. Analysis and integration of site relationships into the development of design solutions. Legal aspects of zoning, building codes, and regulations regarding access for accessibility, fire escape, etc.

### **ARC 5365 Advanced Design B (6) AR ARC**

PR: ARC 5363. CP: ARC 5588, ARC 5467. Investigation of the interaction between user requirements, environmental determinants, site and urban context conditions, technological factors, and design intentions in the development of design solutions for projects of medium scale and complexity. The analysis, design, and coordination of the various resulting systems, including structural, circulation, service networks, space zoning and use, environmental control systems at the interface between interior and exterior of a building. Representation of these relationships and systems in diagrams and models, and their manifestation in design and construction details.

### **ARC 5366 Advanced Design C (6) AR ARC**

PR: ARC 5363. CP: ARC 5588, ARC 5467. Design of multi-purpose buildings of medium to large scale and complexity. Issues of community and neighborhood design as they relate to the design of buildings. Restoration and adaptive re-use of existing historic buildings. Focus on thinking through as well as documenting the complete building system and process.

### **ARC 5467 Materials and Methods of Construction (3) AR ARC**

PR: ARC 5470, CC. Overview of properties of primary construction materials and systems that make up building structures and enclosures. Emphasis on elements and assemblies relative to various climates, technologies, costs, building codes, and craftsmanship.

### **ARC 5470 Introduction to Technology (3) AR ARC**

Introduction to architectural technology, including structures, materials and methods of construction, and environmental controls. Overview of building systems and components and their integration into architectural design projects.

### **ARC 5587 Structures I (3) AR ARC**

PR: Calculus, Physics, and ARC 5470, CC. Review of static and mechanical principles of materials. Analysis and evaluation for appropriate selection of structural systems and elements. Analysis and design of timber and steel structures, based on moment, shear, and deflection. Fundamentals of wind and seismic design as they apply to wood and steel construction. Truss analysis, beam and column behavior.

### **ARC 5588 Structures II (3) AR ARC**

PR: ARC 5587, CC. Introduction to the concepts and theories of structural analysis and design of reinforced concrete systems and elements, including practical application in building construction. Prestressing, post-tensioning, hybrid assemblies. Fundamentals of wind and seismic design. Formwork, placement, and assembly techniques.

### **ARC 5689 Environmental Technology (3) AR ARC**

PR: ARC 5467 and ARC 5470. Comprehensive overview of mechanical systems for buildings including: water and waste: fire protection and suppression; heating, cooling and controls; electric power distribution and illumination; communications; transportation systems, and acoustics.

### **ARC 5731 Architectural History I (3) AR ARC**

Overview of the built environment from prehistory through the Middle Ages. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological and economic context. Varieties of methodological approaches to the analysis of historical architecture. The focus will be on the built environment of Europe and the Mediterranean basin.

### **ARC 5732 Architectural History II (3) AR ARC**

Overview of the built environment from the Renaissance to the present. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological, and economic context. Study of various methodological approaches to the analysis of historic architecture, and development of student's own approach. Emphasis will be on the built environment of Europe and America.

### **ARC 5789 Modern Architecture History (3) AR ARC**

PR: CC, CI. Exploration of the philosophic, economic, aesthetic, social, historical and moral imperatives used by modern architects and historians in their attempt to design the appropriate physical environment for a new social order. The course will investigate the writings and works of the proponents of the modern style of architecture and study the "New Architecture" as defined by those who broke tradition and expressed the new era using modern construction materials and techniques.

### **ARC 5793 History Abroad (3) AR ARC**

PR: CC. Summer study abroad. Location and description varies from year to year.

### **ARC 5794 Florida Architectural History (3) AR ARC**

An examination of the environmental, sociological, technological, political, economic, cultural, and other factors that influenced the discovery, growth, and urbanization of Florida as manifested by its architecture.

### **ARC 5920 Architectural Design Studio Abroad (5) AR ARC**

PR: CC. Summer study abroad. Location and description varies from year to year.

### **ARC 5931 Special Studies in Architecture (1-5) AR ARC**

PR: CC. Variable titles offered on topics of special interest.

### **ARE 3044 Experiential Basis of Artistic Mind (3) VP ART**

Designed to awaken the language of image and metaphor, with emphasis on the internal and expressive aspects of art as well as their application in the schools and the community.

### **ARE 3354 Art Teaching Strategies I (3) VP ART**

PR: ARE 3044. A combination of theory, philosophy and practice in both public and private learning centers to provide the student with a variety of teaching concepts and media exploration in art education and to further enable the student to understand stages of young people, three to eighteen.

### **ARE 4313 Art For the Child and You (2) VP ART**

Art and the intellectual, creative, emotional, and aesthetic growth of children.

### **ARE 4341 Art Teaching Strategies II (3) VP ART**

Media and the learning process will be explored through photographic arts, cinematography and video systems. Teaching strategies and media criticism for application at elementary and secondary levels.

### **ARE 4443 Crafts Workshop in Art Education (3) VP ART**

PR: ARE 3044. The study and practice of processes and media involved with the exploration and expression of cultural traditions and individual ideas through crafts.

### **ARE 4642 Community Arts (3) VP ART**

PR: ARE 3044. Explores the arts as infrastructure through identification, Exploration and experimentation of/with unique

community spaces, populations and new environments for and learning in the arts.

**ARE 4909 Directed Study: Art Education (1-3) VP ART**

PR: Senior standing. Directed study contract required. Designed to extend teaching competencies in the field of art education.

**ARE 4936 Senior Seminar in Art Education (2) VP ART**

PR: Senior standing. CR: ARE 4940. Synthesis of teacher candidate's courses in complete college program.

**ARE 4940 Internship: Art Education (1-12) VP ART**

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

**ARH 2050 History of Visual Arts I HP FA (3) VP ART**

PR: DPR. A survey of World Art to AD 1300. Students are introduced to problems of analyzing and interpreting the art of various cultures without making the Western perspective a privileged one. Open to non-majors.

**ARH 2051 History of Visual Arts II HP FA (3) VP ART**

PR: DPR. A survey of World Art since 1300. Students are introduced to problems of analyzing and interpreting the art of various cultures without making the Western perspective a privileged one. Open to non-majors.

**ARH 3001 Introduction To Art HP FA (4) VP ART**

An expanded introductory treatment of basic concepts. For non-art majors.

**ARH 3475C Contemporary Issues in Art HP FA MW (4) VP ART**

PR: DPR. Focuses upon the productions, themes and processes of artists working in the present time. This course will investigate the relationship of materials and media used by contemporary artists to the subject and content of artists' productions/products as well as conceptual processes.

**ARH 4115 Ancient Egyptian and Near Eastern Art (4) VP ART**

PR: ARH 2050 recommended but not required. A study of the art and cultures of ancient Egypt and the Near East, from the prehistoric period through the conquests of Alexander the Great.

**ARH 4130 Greek Art (4) VP ART**

PR: ARH 2050 or EUH 2011 recommended but not required. A comprehensive study of ancient Greek sculpture, painting, architecture, and other artistic media from the Bronze Age through the Hellenistic period.

**ARH 4151 Roman Art (4) VP ART**

PR: ARH 2050 or EUH 2011 recommended but not required. A comprehensive study of ancient Roman sculpture, painting, architecture, and other artistic media from the founding of Rome through the reign of Constantine.

**ARH 4170 Greek and Roman Art (4) VP ART**

A comprehensive study of Aegean, Mycenaean, Etruscan, Greek and Roman painting, sculpture and architecture.

**ARH 4200 Medieval Art (4) VP ART**

PR: DPR. A comprehensive study of early Christian, Byzantine and Medieval painting, sculpture, architecture and manuscript illumination.

**ARH 4301 Renaissance Art (4) VP ART**

PR: DPR. A comprehensive study of Renaissance and Mannerist painting, sculpture and architecture in Italy and Northern Europe.

**ARH 4318 Venetian Art (4) VP ART**

PR: DPR. Major monuments of Venetian art are examined to elucidate the importance of Venice as the crossroads of cultural exchange between Islam, Byzantium, and the West, and the importance of Venetian art to the history of art and art criticism.

**ARH 4350 Baroque and Rococo Art (4) VP ART**

PR: DPR. A comprehensive study of the painting, sculpture and architecture in France, Italy, Spain and the Netherlands in the seventeenth and early eighteenth centuries.

**ARH 4430 Nineteenth Century Art (4) VP ART**

PR: ARH 2051. A comprehensive study of nineteenth century painting, sculpture and architecture in America and Europe. Gender/multicultural issues and methodologies in 19th century art are emphasized.

**ARH 4450 Twentieth Century Art (4) VP ART**

PR: ARH 2051. A comprehensive study of painting, sculpture and architecture from Cezanne to the present in Europe and the United States. Required of all art majors.

**ARH 4455 Modern Political Iconography MW (4) VP ART**

PR: DPR. The course explores art in which political themes are considered to be the source and determinant of aesthetic decisions. The dominant iconographic theme is the iconography of revolution, rebellion, and other forms of political struggle in 20th Century art and film.

**ARH 4520 African Art (4) VP ART**

PR: DPR. A combination of survey, comparative study and in-depth analysis of African sculpture, mainly from West and Central Africa. Emphasis on diversity of forms and contexts, functions, symbolism and meanings.

**ARH 4530 Asian Art (4) VP ART**

PR: Departmental Approval. An introduction to concepts of the arts of China, Japan and other Far Eastern countries.

**ARH 4547 Buddhist Art (4) VP ART**

PR: DPR. This course examines one important aspect of Asian artistic production. Buddhist Art begins in India and travels via the Himalayas and Southeast Asia to East Asia, touching on artistic expression of major principles and practices, changes in art as the religion comes in contact with pre-existing cultures, and modern artistic practice.

**ARH 4557 Chinese Art (4) VP ART**

PR: DPR. Chinese Art proceeds chronologically, from the Neolithic era up to the contemporary art world. The course considers cultural, linguistic, technical, philosophic, political and religious influences on the art works produced by this ancient society.

**ARH 4710 History of Photography 6A MW (4) VP ART**

PR: ARH 2051. Comprehensive overview of the history of photography from its inception to the present day with an emphasis on the relationship of photography to the visual arts and popular culture.

**ARH 4721C History of Printmaking 6A (3) VP ART**

The history of Western printmaking from the Middle Ages to contemporary times, with an emphasis on artmaking technology and research, cultural perspectives and theoretical/critical analytical capabilities. The course is open to majors and non-majors. It is not repeatable for credit.

**ARH 4724 History of Graphic Design 6A (4) VP ART**

This course surveys the design profession and the graphic design discipline. Students will explore graphic styles from the turn of the century to contemporary works, highlighting the innovations of influential designers throughout history.

**ARH 4744 Selected Topics In The History of Film (4) VP ART**

In-depth investigation of a selected period, development, or school in the history of film as art.

**ARH 4800 Critical Studies In Art History 6A (4) VP ART**

PR: Two advanced Art Histories. Specialized intensive studies in art history. Specific subject matter varies. To be announced at each course offering.

**ARH 4890 Paris Art History (4) VP ART**

PR: Minimum 8 hours of art history at the undergraduate level or equivalent. CI. This course will explore issues central to the history and criticism of art through the rich visual culture of Paris. Themes will include art and national identity, orientalism, the avant-garde and the role of the museum in the evolution of modern art.

**ARH 4930 Art History: Selected Topics (2-4) VP ART**

Lecture/discussion course designed to offer areas of expertise of visiting scholars or specific interests of resident faculty.

**ARH 4937 Seminar In The History Of Art History (4) VP ART**

PR: Four courses in Art History at the 4000 level, DPR. An examination of the origins of Art History as a discipline and changing nature of Art History from Vasari to the present.

**ARH 5451 Cultural and Intellectual History of Modern Art (4) VP ART**

PR: CI. A course in which theories of modern artists and of critics and historians of Modernism are treated as a part of general cultural and intellectual history.

**ARH 5813 Methods of Art History (4) VP ART**

Must be taken during the student's first two semesters in the M.A. program. This course introduces students to various methods which art historians have used to analyze the form and content of individual works of art, and to various modes of historical explanation.

**ARH 5836 Collection and Exhibition Management (3) VP ART**

PR: Art Advisor's Approval. This class will introduce students to the basic principles of collections care and management and to the intellectual and practical tasks of preparing an exhibition. Sessions will include art handling, registration and condition reporting, preparing works of art for transit, environmental standards for collections storage and exhibition, and the professional responsibilities of the curator.

**ART 2201C Concepts and Practices I FA (3-4) VP ART**

An introduction to basic visual art studio concepts. Topics include the nature of art, the visual language of its form, modes of representation, and visual art theory. Studio problems supplemented by lecture and discussion. Emphasis on images of implied time and space.

**ART 2203C Concepts and Practices II FA (3-4) VP ART**

PR: ART 2201C (for majors). No prerequisites for non-majors. This course will synthesize and expand on the groundwork laid in Fabrications I, which is pre-requisite for majors, but not for non-majors. Fabrications II will focus on the significance of meaning and how it is constructed visually by researching 3 phases; I - the personal in images, We - images of cultural ideas, and They - images produced through collaboration.

**ART 2301C Beginning Drawing (3) VP ART**

PR: Majors Only. Projects exploring the methods, media, and concepts of drawing.

**ART 2400C Beginning Printmaking (3) VP ART**

PR: Majors Only. This course is designed as an introduction to the medium of printmaking. It concentrates on the technical production of various print media including: intaglio, relief, monoprint and serigraphy (screen printing).

**ART 2500C Beginning Painting (3) VP ART**

PR: Majors Only. Projects in painting with emphasis on the exploration of methods and media and the development of individual concepts.

**ART 2701C Beginning Sculpture (3) VP ART**

PR: Majors Only. Projects in sculpture with emphasis on contemporary theory and issues, the development of individual concepts and the exploration of materials, tools and processes.

**ART 2750C Beginning Ceramics (3) VP ART**

PR: Majors Only. An introduction to the use of ceramic materials as a means of self expression and critical exploration.

**ART 2930 Selected Topics in Art (2-4) VP ART**

PR: Majors Only. The content of this course will be determined by student demand and instructor interest. Open University offerings under this number may not be counted for degree credit for art majors.

**ART 3310C Intermediate Drawing (3) VP ART**

PR: ART 2301C. Permit required. Majors Only. An extension of the skills and concepts introduced in Beginning Drawing with an emphasis on individual experimentation and the development of advanced critical and technical skills in the discipline. Repeatable up to 15 hours.

**ART 3380C Selected Topics in Drawing (3) VP ART**

PR: ART2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C. Majors Only. Selected Topics in Drawing is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

**ART 3401C Intermediate Printmaking (3) VP ART**

PR: ART 2201C, ART 2203C, ART 2301C, ART 2400C, ART 3310C, ARH 2050, ARH 2051. This course concentrates on developing intermediate skills in printmaking with particular emphasis on conceptual topics. The course is intended for majors. Repeatable up to 15 hours.

**ART 3461C Selected Topics in Printmaking (3) VP ART**

PR: ART2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ART 2400C, ART 3401C. Majors Only. Selected Topics in Printmaking is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

**ART 3465 Digital Printmaking (3) VP ART**

PR: ART 3612C or ART 2400C. Majors Only. An investigation of printmaking using the computer as a design interface between electronic and traditional printmaking processes. Repeatable up to 9 hours.

**ART 3513C Selected Topics in Painting (3) VP ART**

PR: ART2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ART 2500C, ART 3530C. Majors Only. Selected Topics in Painting is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

**ART 3530C Intermediate Painting (3) VP ART**

PR: ART 2201C, ART 2203C, ART 2301C, ART 2500C, ART 3310C, ARH 2050, ARH 2051. An extension of the skills and concepts introduced in Beginning Painting with an emphasis on individual experimentation and the development of advanced critical and technical skills in the discipline. Repeatable up to 15 hours.

**ART 3612C Beginning Electronic Media (3) VP ART**

PR: Majors Only. An Introductory exploration of the issues and practices involved in the creation of experimental computer art. The course focuses on an interdisciplinary approach to electronic media.

**ART 3613C Intermediate Electronic Media (3) VP ART**

PR: ART 2201C, ART 2203C, ART 2301C, ART 3310C, ART 3612C, ARH 2050, ARH 2051. An intermediate exploration of the issues and practices involved in the creation of experimental computer art. The course focuses on an interdisciplinary approach to electronic media while developing individual creative growth. Repeatable up to 15 hours.

**ART 3635 Selected Topics in Electronic Media (3) VP ART**

PR: ART2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ART 3612, ART3613C. Majors Only. Selected Topics in Electronic Media is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

**ART 3704C Intermediate Sculpture (3) VP ART**

PR: ART 2201C, ART 2203C, ART 2301C, ART 2701C, ART 3310C, ARH 2050, ARH 2051. This course expands upon the principles and processes introduced in Beginning Sculpture, developing a higher level of technical competence and critical sophistication. Repeatable up to 15 hours.

**ART 3712C Multiples, Molds, and Bronzecasting (3) VP ART**

PR: ART 2701C and ART 3704C. Majors Only. Continued studies and projects in sculpture with an emphasis on the nature of multiples explored through advanced mold making and bronzecasting. This course may not be repeated for credit. The conceptual implications of the multiple will be taught through reading, lecture, discussion and demonstration.

**ART 3735 Selected Topics in Sculpture (3) VP ART**

PR: ART2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ART 2701C, ART 3704C. Majors Only. Selected Topics in Sculpture is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Repeatable up to 15 hours.

**ART 3761C Intermediate Ceramics (3) VP ART**

PR: ART 2201C, ART 2203C, ART 2301C, ART 2750C, ART 3310C, ARH 2050, ARH 2051. Intermediate problems in ceramics and emphasis on the exploration of methods and media and the development of individual concepts. Repeatable up to 15 hours.

**ART 3781C Selected Topics in Ceramics (3) VP ART**

PR: ART2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ART 2750C, ART 3761C. Selected Topics in Ceramics is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

**ART 3843C Site, Installation, and Performance (3) VP ART**

PR: ART 2701C and ART 3704C. Majors Only. Continued studies and projects in sculpture with an emphasis on site-specific sculpture, installation and performance. A critical and cultural awareness of contemporary issues and media in sculpture will be developed through studio projects assigned readings, discussions, critiques and demonstrations. The course may not be repeated for credit.

**ART 3935 Studio Techniques: Selected Projects (2) VP ART**

PR: DPR. Concentration in specialized technical data and process. Repeatable.

**ART 3939 The Real World (3) VP ART**

Restricted to studio majors. Offers studio students the opportunity to analyze their experiences as art majors and explore options available to visual artists upon completion of their degree.

**ART 4320C Advanced Drawing (3) VP ART**

PR: 9 hours of Intermediate courses in the discipline and a 3.25 major GPA or DPR. Majors Only. Continued projects in drawing. Repeatable.

**ART 4402C Advanced Printmaking (3) VP ART**

PR: 9 hours of Intermediate courses in the discipline and a 3.25 major GPA or DPR. Majors Only. This course is designed as an advanced printmaking studio and emphasizes content and meaning in visual imagery. The student is encouraged to work in a specific printmaking medium (intaglio, relief, lithography or screen printing) and develop a cohesive series of images. Repeatable.

**ART 4520C Advanced Painting (3) VP ART**

PR: 9 hours of Intermediate courses in the discipline and a 3.25 major GPA or DPR. Majors Only. Continued projects in painting. Repeatable.

**ART 4614C Advanced Electronic Media (3) VP ART**

PR: 9 hours of Intermediate courses in the discipline and a 3.25 major GPA or DPR. Majors Only. Advanced exploration of issues and practices involved in the creation of experimental computer art. The course continues as interdisciplinary approach to electronic media with a focus on individual and group projects. Repeatable.

## ART 4616 Computer Animation (4) VP ART

Exploration of issues and practices involved in the creation of computer animations, focused on individual creative growth.

## ART 4634C Visual Design for the Internet (3) VP ART

Restricted to majors. This upper level course builds upon the concepts students encountered in the introductory level graphic design courses and focuses upon web content creation and animation techniques.

## ART 4710C Advanced Sculpture (3) VP ART

PR: ART 3704C, ART 3843C, ART 3712C and a 3.25 major GPA. Majors Only. Continued problems in sculpture. Repeatable.

## ART 4782C Advanced Ceramics (3) VP ART

PR: 9 hours of Intermediate courses in the discipline and a 3.25 major GPA or DPR. Majors Only. Continued problems in ceramics. Repeatable.

## ART 4806 Theme Studio (3) VP ART

PR: Majors Only. All preparation courses plus course in Studio Workshop I.

## ART 4814 Paris Art Studio (3) VP ART

PR: ART 2201C or equivalent. This course will explore contemporary and historic Paris as a subject and source for artmaking, drawing upon a range of concepts and strategies that emphasize imaginative encounters with its space, streets, museums, architecture and people.

## ART 4900 Directed Reading (1-4) VP ART

PR: CI. Registration by contract only. A course of reading and study in an area of special concern governed by student demand, instructor interest and/or department requirements. Registration is by contract only. Repeatable.

## ART 4905 Directed Study (1-4) VP ART

PR: CI, DPR. Registration by contract only. Independent studies in the various areas of Visual Arts. Course of study and credits must be assigned prior to registration. Repeatable.

## ART 4925 Media Workshop: Design Production (3) VP ART

PR: Graphic design majors only. This upper level technology course will develop in-depth understanding of graphic software and print production techniques. Students will review software programs, file preparation requirements, and print production standards.

## ART 4930 Selected Topics In Art (2-4) VP ART

PR: DPR. The content of this course will be determined by student demand and instructor interest. Open University offerings under this number may not be counted for degree credit for art majors. Repeatable.

## ART 4940 Extended Studies (1-4) VP ART

Extended Studies requires students to engage in art-related activities that expand upon their traditional academic experience. It is by contract and may involve internship and/or foreign studies. The course is restricted to majors. Not repeatable.

## ART 4970C Senior Thesis (4) VP ART

PR: DPR, CI. The creation of a coherent body of advanced level artwork that is supported by a written document describing processes working procedures, research, context and content of the artwork itself. The course is restricted to majors, and is required of all B.F.A. candidates.

## ART 5390C Drawing (4) VP ART

PR: ART 4320C, CI, DPR. Advanced problems in various drawing techniques. Emphasis on individual creative expression. Repeatable.

## ART 5422C Lithography (4) VP ART

PR: ART 4402C, CI, DPR. Advanced problems in various lithographic techniques. Emphasis on individual creative expression. Repeatable.

## ART 5448C Intaglio (4) VP ART

PR: CI. Registration by contract only. Investigations into more complex intaglio processes including photoengraving and color printing procedures. Emphasis on personal conceptual development in graphic media.

## ART 5580C Painting (4) VP ART

PR: CI. Registration by contract only. Research in painting

## ART 5740C Sculpture (4) VP ART

PR: ART 2701C, DPR. Advanced problems in the various techniques of sculpture. Emphasis on individual creative expression. Repeatable.

## ART 5790C Ceramics (4) VP ART

PR: ART 2750C, DPR. Advanced problems in the various ceramic techniques, including throwing and glaze calculation. Repeatable.

## ART 5910 Research (1-4) VP ART

PR: CI, DPR. Registration by contract only. Repeatable.

## ART 5936 Studio Techniques: Selected Projects (2) VP ART

PR: DPR. Concentration in specialized media or processes. Repeatable.

## ASH 2270 Southeast Asian History HP AF (3) AS HTY

This course examines the origins and development of the major Southeast Asian cultures over the past two millennia, focusing particularly on the transformation of small communities into modern states and the factors that facilitated this process.

## ASH 3404 Modern China SS HP AF (4) AS HTY

Political, economic, and social history of China from the time of the first major Western contacts (17th-18th Centuries) through the consolidation of socialism in the late 1950's, and the Great Leap Forward.

## ASN 3012 Japan Today SS (3) AS INT

Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic, anthropological, and sociological analysis in dealing with salient features and current problems.

## ASN 3014 China Today AF (3) AS INT

Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic, anthropological, and sociological analysis in dealing with salient features and current problems.

## ASN 3030 The Middle East AF (3) AS INT

Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic, anthropological, and sociological analysis in dealing with salient features and current problems.

## AST 2003 Astronomy of the Solar System NS (4) AS AST

Introduction to the Astronomy of the Solar System. No Physics background assumed. Topics covered include properties of light, stellar coordinates, timekeeping, eclipses, formation and dynamics of the solar system, properties of the sun and planets, space exploration of planets and the moon, life on other worlds. This course is complementary to but independent of AST 2004. Either may be taken before the other or taken by itself.

## AST 2004 Stellar Astronomy and Cosmology NS (4) AS AST

An introduction to Astrophysics and the structure of the universe. No Physics background assumed. Topics covered include properties of light, stellar coordinates, measurement of the physical properties of stars, formation, structure and evolution of stars, normal and peculiar galaxies, cosmology. This course is complementary to but independent of AST 2003. Either may be taken before the other or taken by itself.

## AST 2032C Illustrative Astronomy (3) AS AST

Constellations, use of small telescopes, etc., apparent motions of celestial objects, comets and meteors, seasons, weather. Current events in the space program. Planetarium and open sky demonstrations.

## AST 3033 Contemporary Thinking in Astronomy NS (3) AS AST

PR: Junior or Senior Standing or CI. Seminar designed to assist the layman, with no scientific background, in comprehending contemporary developments in Astronomy. Necessary background material is provided by the instructor and a text. Topics covered in recent years include the space program, pulsars, x-ray astronomy, black holes, extra-terrestrial life, interacting galaxies, cosmology.

## AST 3044 Archaeoastronomy (3) AS AST

PR: Jr. or Sr. Standing or CI. Astronomical concepts and observational techniques used by prehistoric/ancient peoples for detecting change of seasons, constructing calendars, predicting eclipses, etc. Particular attention is given to Stonehenge, and to works of N.A. Indians, the Maya and Aztecs, and the Egyptians. Lec.-Lab.

## AST 3652 Navigation (3) AS AST

PR: Some knowledge of geometry, algebra, and trigonometry. Timekeeping, use of sextant, constellations, celestial navigation with minimum equipment, spherical astronomy.

## AST 3930 Selected Topics in Astronomy (1-4) AS AST

PR: CI. Course content will depend upon the interest of the faculty member and student demand.

## AST 5506 Introduction to Celestial Mechanics (3) AS AST

PR: MAC 2313 or MAC 2283 and some knowledge of differential equations, or CI. The two-body problem, introduction to Hamiltonian systems and canonical variables, equilibrium solutions and stability, elements of perturbation theory.

## AST 5932 Selected Topics in Astronomy (1-5) AS AST

PR: Senior or advanced junior standing or CI. Intensive coverage of special topics to suit needs of advanced students.

**BCH 3023 Introductory Biochemistry (3) AS CHM**

PR: CHM 2200 or CHM 2211 and BSC 2010. Introduction to the chemistry and intermediary metabolism of biologically important substances. Lec.

**BCH 3023L Basic Biochemistry Laboratory (2) AS CHM**

CR: BCH 3023. Practical work in determination and characterization of important biomolecules. Lec.-lab.

**BCH 4034 Advanced Biochemistry (3) AS CHM**

PR: BCH 3023. An advanced undergraduate course emphasizing such topics as metabolic regulation, DNA and RNA structure and function, receptors, channels, antibodies, and contraction.

**BCH 5045 Biochemistry Core Course (3) AS CHM**

PR: Either CHM 2211, CHM 2211L, and CHM 3400 or CHM 4410 or graduate standing. A one-semester survey course in biochemistry for graduate students in chemistry, biology, and other appropriate fields and for particularly well-qualified undergraduates. Lec.

**BCH 5105 Biochemistry Laboratory Rotations (1-3) AS CHM**

A course in which first year graduate students rotate through selected professor's laboratories to learn techniques, become familiar with ongoing research in the Department and facilitate the selection of a mentor.

**BME 4406 Engineering of Biological Systems (3) EN ECH**

PR: CHM 2210 (majors) or Consent of Instructor (non-majors). This course is designed to convey the basics of biological systems and the roles that engineers play in industrial biology to engineering students (primarily) and to students that are majoring in other sciences. Not repeatable for credit. For majors and nonmajors.

**BME 5040 Pharmaceutical Engineering (2) EN ECH**

PR: Senior or graduate standing in engineering or CI. Introduction to pharmaceutical engineering, including dosage forms (tablets, capsules, powders, liquids, topical forms, and aerosols), excipients, regulatory issues, clinical studies, and good manufacturing practices.

**BME 5320 Theory and Design of Bioprocesses (3) EN ECH**

PR: Senior standing in engineering or CI. Open to majors and non-majors with CI. Introduction to biotechnology, including applied microbiology, enzyme technology, biomass production, bioreactor design, and transport processes in biosystems.

**BME 5748 Selected Topics in Biomedical Engineering (1-3) EN ECH**

Selected topics in biomedical engineering, including biomedical engineering, biomedical materials, biodynamics of circulation, separation processes in biomedical systems, and artificial organ systems.

**BME 5910 Directed Research in Bioengineering (1-3) EN ECH**

PR: CI. Directed research in an area of biomedical engineering or engineering biotechnology.

**BME 5937 Selected Topics in Biomedical Engineering (1-3) EN ECH**

PR: Senior or GS standing in Engineering or CI. Open to non-engineering students with CI. Selected topics in biomedical engineering, including biomedical engineering, biomedical materials, biodynamics of circulation, separation processes in biomedical systems, and artificial organ systems. May be taken by non-engineering students with CI. Repeatable as subjects vary.

**BMS 4402 Principles of Human Pharmacology NS (3) ME MSG**

Not available on S/U basis. Pharmacodynamics (effects), pharmacokinetics (absorption, distribution, metabolism, excretion) and side effects/toxicity of drugs. Designed to provide basic understanding of mechanism of drug action resulting from modifying biologic processes.

**BMS 5005 Professions of Medicine: Foundations of Doctoring (1-19) ME MSG**

This three-week course placed at the beginning of the medical school curriculum will introduce the students to principles that will be used through the entire medical school education and beyond. Basic scientists and clinicians present information in an integrated approach. Topical areas include: use of information resources (library/computer), the medical article, intro to evidence based medicine, effective study techniques, intro to the physical exam, cultural diversity, ethics and professionalism, and state of the art presentation. The course will use both large and small group learning techniques and students will demonstrate achievement of knowledge.

**BMS 5015 Clinical Diagnosis and Reasoning (var.) ME MSG**

This course aims to provide the student with the opportunity to "think like a physician." It will provide the venue to integrate clin diagnosis/reasoning strategies with complementary aspects of clin problem solving/phys diagnosis/evidence based medicine.

**BMS 5190 Anatomy by Diagnostic Testing (1-20) ME MSG**

Describing normal human anatomy in three dimensions (frontal, coronal, and axial), using contrast medical and imaging modalities

available for diagnostic radiologists. Course will be oriented to organ systems describing anatomy of the organ and its vasculature and topographic anatomy. It will include didactic lecture series and a standing display of images for self-studies. Plain radiographs, contrast studies of gastrointestinal and urinary tract, arteriograms, computed tomograms, magnetic resonance, and ultrasound scans of body organs will be displayed.

**BOT 3373C Vascular Plants: Form and Function (4) AS BIO**

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L. Introduction to morphology, physiology and evolution of vascular plants, integrating form and function to understand diversity. Lec.-lab.

**BOT 3850 Medical Botany (3) AS BIO**

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2210, MAC 1105 or higher-level MAC course or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712. Study of agents that are produced by plants and that are toxic or psychoactive in human beings or are useful as remedies. Lecture only.

**BOT 4152C Field Botany (3) AS BIO**

PR: BOT 3373C. Identification and classification of native and naturalized flowering plants of Florida including historical, climatic and floristic aspects of plant communities. Conducted largely in the field.

**BOT 4223C Plant Anatomy (3) AS BIO**

PR: BOT 3373C and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 & CHM 2211. Comparative studies of tissue and organ systems of fossil and present-day vascular plants. Functional and phylogenetic aspects stressed. Lec.-lab.

**BOT 4434C Mycology (3) AS BIO**

PR: BOT 3373C or MCB 3020C and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211. A survey of the fungi with emphasis on their taxonomy, morphology, physiology and economic importance. Lec.-lab.

**BOT 4503 Plant Physiology (3) AS BIO**

PR: BOT 3373C and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and PHY 2053. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 & CHM 2211. Fundamental activities of plants; absorption, translocation, transpiration, metabolism, growth and related phenomena. Lecture only.

**BOT 4503L Plant Physiology Laboratory (1) AS BIO**

CP: BOT 4503. Laboratory portion of Plant Physiology.

**BOT 4810C Economic Botany (3) AS BIO**

PR: BOT 3373C. Study of the uses of plants by man for food, chemicals, fibers, and medicines.

**BOT 5185C Marine Botany (4) AS BIO**

PR: BOT 3373C, PCB 3043 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and CI. CP: CHM 2211. A field course in marine plants with emphasis on ecology and functional morphology. Fieldwork will stress the ecological aspects of plants in the subtropical marine environment of Florida. Fieldwork required. Lecture and Laboratory.

**BOT 5725C Evolution of Flowering Plants (3) AS BIO**

PR: BOT 3373C and BOT 4152C or CI. A study of the evolution and phylogeny of the Angiosperms; the origin and nature of early angiosperms, "primitive" angiosperms today; evolutionary processes leading to the origin of genera, families and orders, trends of specialization in the angiosperms; phylogenetic analysis, cladistics, traditional approaches, new approaches; readings from the current and historical literature. Lec/Lab.

**BSC 1005 Principles of Biology For Non-Majors NS (3) AS BIO**

No credit for Biology majors. Lectures and demonstrations of selected biological principles, usually taught by television.

**BSC 1020 The Biology of Humans NS (3) AS BIO**

[This non-science majors] course deals with the principles and applications of human biology. Topics include: scientific literacy, cell structure and function, anatomy and physiology, genetics, infectious diseases, and biotechnology.

**BSC 2010 Biology I - Cellular Processes NS (3) AS BIO**

CR: BSC 2010L. CP: CHM 2045. An analysis of biological systems at the cellular and subcellular levels: cell structure and function, respiration, photosynthesis, mitosis and meiosis, genetics and gene expression.

**BSC 2010L Biology I Cellular Processes Laboratory (1) AS BIO**

CR: BSC 2010. Laboratory portion of Biology I Cellular Processes relating to cellular and subcellular structure and function. Mitosis, meiosis, and Mendelian genetics will be stressed.

**BSC 2011 Biology II - Diversity NS (3) AS BIO**

PR: BSC 2010, BSC 2010L, CHM 2045. CR: BSC 2011L. An analysis of biological systems at the organismal level: evolution, speciation, history of life, and ecology. Lecture only.

**BSC 2011L Biology II Diversity Laboratory (1) AS BIO**

CR: BSC 2011. Laboratory portion of Biology II Diversity relating to organismal structure and function. Microscopy, as well as, plant and animal development will be stressed.

**BSC 2022 Biology of Aging NS (3) AS BIO**

An introduction to the basic biology of aging. Emphasis will be placed on understanding basic principles of biology relevant to time and the aging process which begins at birth. May be taken by majors for free elective credit.

**BSC 2025 Food: Personal and Global Perspectives NS (3) AS BIO**

May be taken by biology majors for free elective credit. The application of basic biological principles to human nutritional problems; to learn how various cultures achieve adequate nutrition and how environmental changes impact both personal and global nutrition.

**BSC 2030 Save The Planet: Environmental Sciences NS (3) AS BIO**

Credit will be given for BSC 2030 or BSC 2050, but not both. An introduction to environmental sciences using mass communications and independent study. Emphasis will be placed on understanding basic principles of ecology relevant to problems and topics of the earth's environment. May be taken by majors for free elective credit.

**BSC 2035 Sex and Today's World NS (3) AS BIO**

The application of basic biological principles to female and male sexual behavior and reproduction; current social problems are treated from a biological perspective. May be taken by majors for free elective credit.

**BSC 2050 Environment NS (3) AS BIO**

Credit will be given for BSC 2030 or BSC 2050, but not both. The application of basic scientific principles to global environmental problems; how human activities impact the environment. May be taken by majors for free elective credit.

**BSC 2085 Anatomy and Physiology I for Nursing and other Healthcare Professionals NS (3) NU NUR**

CR: BSC 2085L. Introduction to the normal structure, function and selected pathological conditions for physiologic systems. Focus on understanding how the body functions in preparing for careers in nursing or health-related professions.

**BSC 2085L Anatomy and Physiology Lab I for Nursing and other Healthcare Professionals (1) NU NUR**

CR: BSC 2085. Laboratory exercises and virtual dissections linked to the basic content of Anatomy & Physiology I for Health Professionals.

**BSC 2086 Anatomy and Physiology II for Nursing and other Healthcare Professionals NS (3) NU NUR**

PR: BSC 2085 and BSC 2085L. CR: BSC 2086L. Introduction of normal structure, function and selected pathological conditions for physiologic systems. Focus on understanding how the body functions in preparing for careers in nursing or health-related professions.

**BSC 2086L Anatomy and Physiology Lab II for Nursing and other Healthcare Professionals (1) NU NUR**

PR: BSC 2085 and BSC 2085L. CR: BSC 2086. Laboratory exercises and virtual dissections linked to the basic content of Anatomy & Physiology II for Health Professionals.

**BSC 2093C Human Anatomy and Physiology I (4) AS BIO**

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L and CHM 2045. May be taken by majors for free elective credit only. Basic biochemistry, cell structure and function, tissues, anatomical terminology, anatomy and physiology of the integumentary, skeletal, muscular, and nervous systems. Lecture and Laboratory.

**BSC 2094C Human Anatomy and Physiology II (4) AS BIO**

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, BSC 2093C, and CHM 2045. May be taken by majors for free elective credit only. Anatomy and physiology of the autonomic nervous, endocrine, circulatory, lymphatic, immune, respiratory, digestive, excretory, and reproductive systems. Lecture and Laboratory.

**BSC 2932 Selected Topics in Biology (1-4) AS BIO**

The course content will depend on student demand and instructor's interest.

**BSC 2933 Honors Seminar II: Philosophy and Ethics of Science (3) AS BIO**

PR: BSC 2011, BSC 2011L, BSC 2932, & CHM 2045 & CI. Enrollment is limited to Department of Biology Honors Students. Introduction to the nature of science. Historical perspectives, modes of reasoning, science vs. pseudoscience, science as an intellectual process, ethics, and resolving dilemmas.

**BSC 2934 Honors Seminar III: Scientific Approaches (3) AS BIO**

PR: BSC 2933, CI. Enrollment is limited to Department of Biology Honors Students. The course will begin to familiarize students with the process of conducting scientific research.

**BSC 2938 Honors Seminar I (1) AS BIO**

PR: BSC 2010, BSC 2010L & CHM 2045. CR: BSC 2011, BSC 2011L. Enrollment is limited to Department of Biology Honors students. Course is designed to introduce Honors students to various research fields and current research in the Department. Faculty members present research seminars and discuss their work.

**BSC 3312 Marine Biology (3) AS BIO**

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course, or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712. A survey of the marine environment, the types of organisms found inhabiting a variety of marine habitats, and the adaptations of the organisms to those habitats. Emphasis is placed on shallow water Florida environments. Lecture only.

**BSC 4057 Environmental Issues MW (3) AS BIO**

Not for major's credit. Study of biological, economic, ethical, legal, political and social issues relating to current environmental problems.

**BSC 4313C Advanced Marine Biology (4) AS BIO**

PR: BSC 3312C A detailed analysis of marine environment in the Tampa Bay or surrounding area. Field and laboratory work will provide direct experience with the system.

**BSC 4905 Independent Study (1-3) AS BIO**

PR: CI. S/U only. May be taken by majors for free elective credit. Specialized independent study determined by the student's needs and interests. The written contract required by the Department of Biology specifies the regulations governing independent study.

**BSC 4910 Undergraduate Research (1-4) AS BIO**

PR: CHM 2210 and MAC 1105 or higher MAC course or STA 2023 or CI. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211. S/U only. Junior standing and 3.0 GPA required. Individual investigation with faculty supervision. Written contract by Department is necessary prior to registration.

**BSC 4932 Honors Seminar IV (1) AS BIO**

PR: BSC 2934 and BSC 4910 or MCB 4910; CI. CP: CHM 2211. The course serves as a formal introduction to the presentation of scientific research. It is taken in the semester prior to completion of a student's own research project and the writing of the Biology Honors Thesis.

**BSC 4933 Selected Topics in Biology (1-4) AS BIO**

PR: CI. The course content will depend on student demand and instructor's interest.

**BSC 4937 Seminar in Marine Biology (2) AS BIO**

PR: BSC 3312C and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211. Course focuses on developing the student's understanding of contemporary research in the field of Marine. Background information presented and assigned reading will vary according to instructor.

**BSC 4970 Biology Honors Thesis (1-3) AS BIO**

PR: BSC 2934 and either BSC 4931 or BSC 4932. Enrollment is limited to Biology Department Honors students. S/U only. A thesis based on independent research carried out by the student.

**BSC 5931 Selected Topics in Biology (1-4) AS BIO**

PR: CI.

**BTE 4401 Special Teaching Methods: Business Education (4) EDEDV**

PR: Successful completion of BE competencies. Methods, techniques, and materials for skill development.

**BTE 4909 Directed Study: Business Education (1-3) ED EDV**

PR: Senior standing. To extend competency in teaching field.

**BTE 4936 Senior Seminar in Business and Office Education (2) EDEDV**

PR: Senior standing; CR: BTE 4940. Synthesis of teacher candidate's courses in complete college program.

**BTE 4940 Internship: Business Education (1-12) ED EDV**

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

**BTE 4948 Field-Based Seminar in Business Education (3) ED EDV**

S/U only. Supervised field experience and orientation to broad field business education. Specifically designed to be preparatory for the internship.

## 268 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

### **BTE 5171 Curriculum Construction: Business Education (3) ED EDV**

Curriculum scope, the process of planning and organizing instructional programs with emphasis on task analysis and process evaluation.

### **BUL 3320 Law And Business I (3) BA GBA**

This course covers the nature of legal and societal institutions and environments, and major aspects of public, private, UCC and related business law.

### **BUL 3321 Law And Business II (3) BA GBA**

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

### **BUL 5332 Law and the Accountant (3) BA GBA**

PR: BUL 3320 or CI. A comprehensive study of commercial law as it affects the practice of accounting.

### **CAP 4034 Computer Animation Fundamentals (3) EN ESB**

PR: EEL 4851C. This course is about computer animation. Topics include storyboarding, camera control, hierarchical character modeling, inverse kinematics, keyframing, motion capture, dynamic simulation, and facial animation.

### **CAP 4401 Image Processing Fundamentals (3) EN ESB**

PR: EEL 4851C. Practical introduction to a range of fundamental image processing algorithms. Use of the C language in algorithm construction. Extensive programming, with emphasis on image analysis and transformation techniques. Image transformation and manipulation.

### **CAP 4410 Computer Vision (3) EN ESB**

PR: EEL 4851C. Introduction to topics such as image formation, segmentation, feature extraction, matching, shape recovery, texture analysis, object recognition, and dynamic scene analysis. Non-majors by special permission and demonstration of required skills.

### **CAP 4660 AI Robotics (3) EN ESB**

PR: EEL 4851C; CR: COT 4400 A.I. methods for mobile robots (ground/aerial/underwater). Understand:(1)3 paradigms of AI robotics;(2)major ways to organize and combine behaviors in behavior-based systems;(3)major path planning;(4)simultaneous localization and mapping (SLAM) algorithms.

### **CAP 5400 Digital Image Processing (3) EN ESB**

PR: EEL 4851C or GS. Image formation, sources of image degradation, image enhancement techniques, edge detection operators and threshold selection, low-level processing algorithms for vision, image data compression.

### **CAP 5625 Introduction to Artificial Intelligence (3) EN ESB**

PR: EEL 4851C or GS. Basic concepts, tools, and techniques used to produce and study intelligent behavior. Organizing knowledge, exploiting constraints, searching spaces, understanding natural languages, and problem solving strategies.

### **CAP 5682 Expert And Intelligent Systems (3) EN ESB**

PR: EEL 4851C or GS. Basic concepts, techniques and tools for the design and implementation of expert and intelligent systems. Knowledge representation, inference methods, knowledge acquisition methods, and some advanced concepts. Tools to facilitate construction of expert and intelligent systems.

### **CAP 5771 Data Mining (3) EN ESB**

PR: Undergraduate Statistics. An introductory course to mining information from data. Scalable supervised and unsupervised machine learning methods are discussed. Methods to visualize and extract heuristic rules from large databases with minimal supervision is discussed.

### **CBH 4004 Comparative Psychology (3) AS PSY**

PR: PSY 3213 with a grade of C or better or CI. The study of the evolution of behavior, similarities, and differences in capacities for environmental adjustment and for behavioral organization among important types of living beings.

### **CCE 4031 Construction Management (3) EN EGX**

PR: EGN 3613C. Fundamentals of construction management. Topics include: general definitions, organizational roles, types of contracts, analysis of labor and equipment, cost estimating, contractor cash flow analysis, planning and scheduling, project control, construction administration, quality and safety management, and use of computer software in construction management.

### **CCE 5035 Construction Management & Planning (3) EN EGX**

PR: EGN 3613C. Fundamentals of construction management. Topics include: general definitions, organizational roles, types of contracts, analysis of labor and equipment, cost estimating, contractor cash flow analysis, planning and scheduling, project control, construction administration, quality and safety management, and use of computer software in construction management.

### **CCJ 3003 Crime and Justice in America SS (4) AS CJP**

May be taken by both majors and non-majors for credit. This course is a non-technical survey of the nature of crime in the United States and the ways in which our society seeks to deal with criminal offenders and victims of crime.

### **CCJ 3024 Survey of the Criminal Justice System SS (3) AS CJP**

An introduction to the structure and operation of law enforcement, prosecution, the courts, and corrections. Also includes brief coverage of major reported crimes.

### **CCJ 3610 Theories of Criminal Behavior (3) AS CJP**

PR: Junior standing, CCJ 3024 or CI. Provides a basic understanding of the complex factors related to crime, with concentration on principal theoretical approaches to the explanation of crime.

### **CCJ 3621 Patterns of Criminal Behavior (3) AS CJP**

PR: Junior standing. Reviews the nature and extent of the crime problem. The course will concentrate on major patterns of offender behavior including crimes against the person, property crimes, violent crimes, economic/white collar offense, syndicated (organized) crimes, consensual crimes, female crime, political crime, and will examine criminal career data.

### **CCJ 3701 Research Methods in Criminal Justice I (3) AS CJP**

PR: Junior standing, CCJ 3024 or CCJ 3610 or CI. Introduces the student to some of the fundamentals of knowledge-generating processes in criminal justice.

### **CCJ 3706 Applied Statistics in Crime (3) AS CJP**

This course is designed as a beginning undergraduate level statistics course for criminology majors. In addition to learning how and when to apply appropriate statistical tests, students will learn a number of basic statistical concepts. Majors Only.

### **CCJ 4450 Criminal Justice Administration (3) AS CJP**

PR: Junior standing, CJE 4114 or CJT 4100 or CI. This course is designed to provide an in-depth examination of both the practical and theoretical aspects of the administration of criminal justice agencies. The major focus will be on law enforcement and correctional agencies.

### **CCJ 4604 Abnormal Behavior and Criminality (3) AS CJP**

PR: Junior standing, CCJ 3610 or CI. A systematic introduction to the relationship between mental illness and criminality, with focus on psychiatric labeling of deviant behavior and its implications for the handling of the criminal offender.

### **CCJ 4700 Statistical Research Methods in Criminal Justice II (3) AS CJP**

PR: Junior standing, CCJ 3024 or CCJ 3610 or CI. Beginning with the scientific method, the tools commonly used to analyze criminal justice data will be emphasized. Recommended for students who intend to continue their education beyond the B.A. Required of students attending the MA program in CCJ at USF.

### **CCJ 4900 Directed Readings (1-3) AS CJP**

PR: Junior standing, CCJ 3024, CCJ 3610, CCJ 3621, CI. S/U only. (a) Students wishing to enroll must make arrangements with a faculty member during the semester prior to actually taking the course.(b) A minimum of four 4 CCJ courses must have been completed satisfactorily prior to enrollment.(c) First consideration will be given to Criminology majors.(d) Individual faculty members may add additional requirements at their discretion. No more than six hours of CCJ 4900, CCJ 4910 or any combination of the two will be accepted toward the minimum number of hours required for the major. This course is specifically designed to enable advanced students the opportunity to do in-depth independent work in the area of criminal justice. Each student will be under the close supervision of a faculty member of the program.

### **CCJ 4910 Directed Research (1-3) AS CJP**

PR: Junior standing, CCJ 3024, CCJ 3610, CCJ 3621, CI. S/U only. (a) Students wishing to enroll must make arrangements with a faculty member during the semester prior to actually taking the course.(b) A minimum of four 4 CCJ courses must have been completed satisfactorily prior to enrollment.(c) First consideration will be given to Criminology majors.(d) Individual faculty members may add additional requirements at their discretion. No more than six hours of CCJ 4900, CCJ 4910 or any combination of the two will be accepted toward the minimum number of hours required for the major. This course is designed to provide students with a research experience in which they will work closely with faculty on the development and implementation of research projects in the area of criminal justice.

### **CCJ 4930 Critical Issues in Policing (3) AS CJP**

PR: Junior standing, CCJ 3024 or CJE 4114 or CI. Focuses on some of the most critical issues in law enforcement today including: understanding and controlling police use of deadly force; police deviance; police prejudice and discrimination; violence-prone police officers; substance abuse by police officers; and administrative review of alleged police brutality.

## CCJ 4933 Selected Topics in Criminology (3) AS CJP

PR: Junior standing, CCJ 3024, CCJ 3621, CCJ 3610 or CI. Lecture course. Topic varies and is designed to address a wide variety of issues in criminology and criminal justice. Open to non-majors with CI.

## CCJ 4934 Seminar in Criminology MW (3) AS CJP

PR: Senior standing, CCJ 3024, CCJ 3621, CCJ 3610 and CI. These variable topic seminars are used for the in-depth study and discussion of the relationships among culture, gender, ethics, age, society, and criminal behavior. Such examinations may include the options the criminal justice does (or does not) have to deal with these interactions, and the ethics and efficacy of the system's response. Open to non-majors with CI.

## CCJ 4940 Internship For Criminal Justice Majors (3) AS CJP

PR: Senior standing, CCJ 3024, CCJ 3610, CCJ 3621. S/U only. No more than 9 hours of CCJ 4940 will be accepted toward the elective hours required for the major. The internship will consist of placement with one or more of the agencies comprising the criminal justice system. This course will enable the students to gain meaningful field experience related to their future careers. The three-hour block of credit will require a minimum of ten hours of work per week during a fall or spring term, fifteen hours per week in summer, within the host agencies in addition to any written work or reading assignments. See requirements for the B.A. degree in Criminology for the number of hours required.

## CCJ 4970 Honors Thesis (3) AS CJP

PR: CCJ 4934 (honors section), CCJ 4910 The student, under the direction of a faculty member, will formalize, conduct, analyze, and report in writing a research project in the Department of Criminology. The course is not repeatable. Majors only.

## CDA 3101 Computer Organization for Information Technology (3) US EIT

PR: Any Physics course and CGS 3303, or CI. Elements of the computer are discussed in terms of the physical and conceptual design of memory, processors, busses and I/O elements. Organization of the system is cast in a meta-language that captures the logical and physical nature of the computer.

## CDA 3103 Computer Organization (3) EN ESB

PR: PHY 2049 or PHY 2054 and DPR. Introduction to computer hardware, logic elements and Boolean algebra, computer arithmetic, the central processing unit, assembly language programming, input/output, and memory.

## CDA 3201 Computer Logic and Design (3) EN ESB

PR: CDA 3103, COP 3514; CR: CDA 3201L and Degree Program Admission. CS&E and EE majors. Others by special permission. Advanced coverage of Boolean Algebra, introduction to minimization of combinational logic circuits, analysis and synthesis of sequential circuits, testing of logic circuits and programmable logic devices.

## CDA 3201L Computer Logic Design Lab (1) EN ESB

CR: CDA 3201.

## CDA 4100 Computer Organization and Architecture (3) EN ESB

PR: EEL 4705. Elements of computer systems; processors, memories and switches. Register transfer representation of a computer. ALUs and their implementation. The control unit. Memory and I/O. Hardware support of operation system functions.

## CDA 4203 Computer System Design (3) EN ESB

PR: CDA 3201, CDA 3201L. Design Methods, Top-Down design, Building Blocks, Instruction and addressing models, minicomputer design, interfacing.

## CDA 4203L Computer System Design Lab (1) EN ESB

CR: CDA 4203. This lab introduces the student to the concept of system design. Several projects are given including building timing circuits, memory-based and communication circuits, and microcomputer-based designs.

## CDA 4205 Computer Architecture (3) EN ESB

PR: CDA 3201, CDA 3201L. Principles of the design of computer systems, processors, memories, and switches. Consideration of the register transfer representation of a computer, ALU's and their implementation, control units, memory and I/O, and the hardware support of operation systems.

## CDA 4213 CMOS-VLSI Design (3) EN ESB

PR: CDA 3201, CDA 3201L. Covers analysis and design of CMOS processing technology, CMOS logic and circuit design, layout timing and delay, and power and thermal issues. CMOS transistor theory. VLSI system design, case studies and rapid prototype chip design.

## CDA 4213L CMOS-VLSI Design Lab (1) EN ESB

PR: CDA 3201, CDA 3201L. CR: CDA 4213. Scalable CMOS layout design, circuit extraction, transistor-level and lay-out level simulation, SPICE parameters/modeling, transistor sizing, standard and macro-cell based layout, static/dynamic CMOS, combinational/sequential block layout, memory I/O design.

## CDA 4253 Field Programmable Gate Array System Design and Analysis (3) EN ESB

PR: CDA 3201, CDA 3201L. Covers analysis and design of digital systems using VHDL simulation. Provides experience with field programmable logic gates and gate arrays. Introduces the requirements for field programmable systems; testing of circuitry, and analysis of system design.

## CDA 5416 Introduction to Computer-Aided Verification (3) EN ESB

PR: CDA 3201, COT 3100, COT 4400, EEL 4851C. This course introduces basic concepts of formal verification. Topics include formal specification, algorithms, and methodologies for scalable verification. It is only for CSE majors or non-majors with permission from the instructor, not repeatable.

## CEG 4011 Geotechnical Engineering I (3) EN EGX

PR: EGN 3353, EGN 3331. Fundamental and experimental concepts in soil mechanics with emphasis on soil properties, soil moisture, soil structure, and shearing strength.

## CEG 4011L Geotechnical/Transportation Laboratory (1) EN EGX

CR: TTE 4004. Demonstrates and experiments verifying theoretical bases of Geotechnical and Transportation Engineering. One hour lecture and two laboratory hours per week.

## CEG 4012 Geotechnical Engineering II (3) EN EGX

PR: CEG 4011. Design of retaining walls, earth slopes, foundations to control settlement, soil stabilization and foundations subjected to dynamic loads. Computer applications to soil mechanics will be covered.

## CEG 4850 Capstone Geotechnical/Transportation Design MW (4) EN EGX

PR: CEG 4055, TTE 4004. CR: CEG 4012, CGN 4851, TTE 4005 A capstone geotechnical/transportation design experience for seniors in Civil and Environmental Engineering. Design of embankment and pavement bases. Comprehensive surface streets, open highway intersection and site design involving functional design, facility sizing, complete alignments and coordination, plan preparation, site layout and design, quantity summarization, bid tab planning and specification preparation.

## CEG 5115 Foundation Engineering (3) EN EGX

PR: CEG 4011 or CI. Design of shallow foundations, cantilevered and anchored retaining walls, piling, drilled piers and special foundations. Computer applications to geotechnical engineering are covered.

## CEG 5205 Laboratory Testing for Geotechnical Engineers (3) EN EGX

PR: CEG 4011 or CI. Both routine and advanced forms of soil testing are covered. Emphasis is placed on procedures and application of results to design.

## CEN 3722 Human Computer Interfaces for Information Technology (3) US EIT

Human-Computer Interface is the study of people, computer technology and the ways these influence each other. The basic foundations of HCI in terms of psychology, computer systems and their integration into design practice are discussed in the course.

## CEN 4020 Software Engineering (3) EN ESB

PR: EEL 4851C. An overview of software engineering techniques for producing high quality software. Student will participate in a software development team.

## CEN 4023 Software System Development (3) EN ESB

PR: EEL 4851C. Consideration of object methodology and object oriented programming. Team analysis, design, and development of complex software systems using software development tools.

## CEN 4031 Software Engineering Concepts for Information Technology (3) US EIT

PR: EEL 4854 or CI. Concepts associated with production of high quality software through the use of software engineering concepts and practices are covered. In addition to conceptual presentations, students are required to participate in software development team projects.

## CEN 4721 User Interface Design (3) EN ESB

PR: EEL 4851C. An examination of factors influencing the usability of a computer system. Topics include input and output devices, graphic and multi-media interfaces, formats for interaction/communication between computer and user, and the evaluation of usability.

## CES 3102 Structures I (3) EN EGX

PR: EGN 3331. Analysis of simple structural systems, both determinate and indeterminate. Moment area theorems; influence lines; introduction to steel design.

## CES 4141 Finite Element Analysis I (3) EN EGX

PR: CES 3102. Introduction to the finite element method. Application of the method to one-dimensional structural problems. Virtual work

## 270 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

- principles. Analysis of trusses and frames using the displacement method and the force method. Energy principles. Matrix methods for computer analysis. Programming methods for finite elements implementation.
- CES 4561 Computer Aided Structural Design (3) EN EGX**  
PR: CES 4141. Computer aided structural analysis and design using existing finite element program, static dynamic loading.
- CES 4605 Concepts of Steel Design (3) EN EGX**  
PR: CES 3102. Introduction to steel design and AISC Manual of Steel Construction: Design of tension members; compression members; beams; beam columns; and bolted, welded, and riveted connections.
- CES 4702 Concepts of Concrete Design (3) EN EGX**  
PR: CES 3102. Introduction to concrete design and the ACI Building Code Requirements for reinforced concrete: Design of flexural reinforcement in beams and slabs, design of shear reinforcement, design of concrete columns.
- CES 4704 Capstone Structural/Materials Design (3) EN EGX**  
PR: EGN 3365, CES 4605, CES 4702. A Capstone Materials design experience for seniors in Civil and Environmental Engineering. This course will provide students with a focused design experience aimed to design for durability and reliability.
- CES 4742 Concepts of Structural Design (3) EN EGX**  
PR: CES 3102. Introduction to concrete design and the ACI Building Code Requirements for reinforced concrete; design of flexural reinforcement in beams and slabs, design of shear reinforcement, design of concrete columns, and design of steel beams.
- CES 4750 Capstone Structural/Geotechnical/ Material Design MW (4) EN EGX**  
PR: EGN 3365, CES 4605, CES 4702, CEG 4011. CR: CEG 4012, CGN 4851, TTE 4005 A capstone structural/geotechnical/materials design experience for seniors in Civil and Environmental Engineering. Design of structures and foundations made of steel and reinforced concrete.
- CES 4820C Timber and Masonry Design (3) EN EGX**  
PR: CES 3102, CES 4702. Fundamentals of timber design including beams, columns, connections and formwork. Introduction to masonry design including design of beams, walls, columns, and pilasters.
- CES 5105C Advanced Mechanics of Materials I (3) EN EGX**  
PR: EGN 3331, MAP 2302 Analytical study of the mechanical behavior of deformable solids. Basic concepts, stress and strain transformations, special topics in beams, theory of elasticity, criteria of failure, beams on elastic foundation.
- CES 5209 Structural Dynamics (3) EN EGX**  
PR: CES 3102, EGN 3321. Behavior of structural components and systems when subjected to periodic dynamic loads.
- CES 5715C Prestressed Concrete (3) EN EGX**  
PR: CI, majors only. Fundamental principles of prestressing; calculation of losses; stress analysis and design of simple beams for flexure and shear. Examples of pressures applications.
- CGN 3021L Civil Engineering Laboratory (2) EN EGX**  
PR: CES 3102, EGN 3353, EGN 3365. A laboratory experience in departmental facilities including the subject areas of materials, fluids, environmental engineering, and computer assisted data acquisition.
- CGN 4122 Professional and Ethical Issues in Engineering MW (3) EN EGX**  
The professional and ethical responsibility of engineers. The legal and ethical responsibilities of engineers in the preparation of contracts and specification. The ethics of engineer-client agreements.
- CGN 4851 Concrete Construction Materials (3) EN EGX**  
PR: EGN 3365. Classifications and production of cements. Design and testing of concrete mixes to produce desired properties.
- CGN 4905 Independent Study (1-5) EN EGX**  
PR: CC, S/U only. Specialized independent study determined by the students' needs and interests.
- CGN 4911 Research in Civil Engineering and Environmental Engineering (1-4) EN EGX**  
PR: CC. Research course in civil and environmental engineering concepts.
- CGN 4914 Senior Project (2-5) EN EGX**  
PR: CI. Problem-solving experience and training for seniors in research and/or design projects. Written final reports are required.
- CGN 4933 Special Topics in Civil and Environmental Engineering (1-5) EN EGX**  
PR: CI. New technical topics of interest to civil engineering students.
- CGN 5933 Special Topics in Civil Engineering and Mechanics (1-5) EN EGX**  
PR: CI. New technical topics of interest to civil engineering students.

- CGS 2034 Computers and Impact on Society SS (3) EN ESB**  
This course surveys current technology, and its application to various other disciplines. The course includes technical descriptions and protocols for computers. The course compares interdisciplinary applications between fields using technology.
- CGS 2060 SC Introduction to Computers and Programming in Basic 6A (3) EN ESB**  
No credit for Engineering Majors. An overview of computer systems and their role in society. Survey of the evolution of computer software and hardware technology with emphasis on current applications. Introduction to programming using the BASIC language.
- CGS 2062 Computers And Society (3) EN ESB**  
No credit for Engineering Majors. For non-engineering majors only. This computer literacy course covers the fundamentals of hardware, software, and programming languages, presents a broad overview of data processing concepts, problems and applications for students with little or no computing background.
- CGS 2094 CyberEthics AF SS (3) EN ESB**  
Many ethical issues, e.g. privacy, freedom of speech, security, intellectual property, and workplace globalization, are impacted by computing and related technology. These issues are examined from theoretical, cultural, and geopolitical perspectives.
- CGS 2100 Computers In Business (3) BA QMB**  
A study of the use and impact of computers in all areas of business organizations. Course includes hands-on experience and the use of software packages for business analysis.
- CGS 2935 Special Topics in General Computer Studies (1-3) EN ESB**  
Courses are one-time topics in general computer studies, applicable to all students. Specific course titles will be specified when the course is posted on the schedule.
- CGS 3303 IT Concepts (3) US EIT**  
PR: Any PHY course. A lecture and problem solving course which deals with subjects related to computers and information technology. A broad range of conceptual and practical topics in IT are covered.
- CGS 3823 IT Web Design (3) US EIT**  
PR: COP 2510 or equivalent. An overview of how the Internet and the WWW evolved, and how Electronic Commerce is supported by web pages. The student will do exercises relative to HTML, and how browsers show that code. The student will also learn to use web page development packages.
- CGS 3845 Electronic Commerce (3) US EIT**  
PR: COP 2510 or equivalent. An overview of how E-Commerce evolved, what EC is; how it is being conducted and managed; its major opportunities, issues, and risks. Discussions include: The Internet, intranets, firewalls, etc. Exercises will use various Web and software and packages.
- CGS 5765 Introduction to Unix and C (3) EN ESB**  
No credit for Department of Computer Science & Engineering majors. Unix operating system. Internet resources. Netscape, WWW and HTML. ANSI C language, syntax. Arrays and pointers. Iterations and recursions. Header files and macros. C libraries. Structuring data. File I/O.
- CHI 1120 Modern Chinese I (4) AS WLE**  
CR: CHI 1120L. Mandarin. An intensive study of basic skills: pronunciation, listening, comprehension, speaking, and some composition.
- CHI 1120L Modern Chinese I Laboratory (1) AS WLE**  
CR: CHI 1120. S/U only. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. A laboratory designed to offer additional practice using various instructional technologies and media.
- CHI 1121 Modern Chinese II (4) AS WLE**  
CR: CHI 1121L. Mandarin. PR: CHI 1120 or equivalent. A continuation of CHI 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.
- CHI 1121L Modern Chinese II Laboratory (1) AS WLE**  
CR: CHI 1121. S/U only. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. A laboratory designed to offer additional practice using various instructional technologies and media.
- CHI 2220 Modern Chinese III (4) AS WLE**  
PR: CHI 1121 or the equivalent. For language students who intend to attain basic proficiency.
- CHI 2221 Modern Chinese IV (4) AS WLE**  
PR: CHI 2220 or the equivalent. Continuation of CHI 2220. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.
- CHI 4905 Directed Study (1-5) AS WLE**  
Departmental approval required. S/U only. Permits study options in Modern Chinese not available in the regularly scheduled curriculum at departmental discretion.

**CHM 2023 Chemistry for Today NS (4) AS CHM**

PR: High school chemistry and mathematics including algebra are recommended. No credit for science majors. An introduction to the principles and applications of modern chemistry including the properties of matter, structural view of matter and reactions, quantitative relations in chemical reactions, technological aspects and societal impact.

**CHM 2032 Introduction to General, Organic and Biochemistry I (4) AS CHM**

No credit for science majors. Fundamental concepts of general, organic, and biological chemistry.

**CHM 2045 General Chemistry I NS (3) AS CHM**

PR: 530 SAT Quantitative score or completion of MAC 1105 College Algebra with a C or better AND one year of high school chemistry or completion of CHM 2023 with a grade of C or better. Principles and applications of chemistry including properties of substances and reactions, thermochemistry, atomic-molecular structure and bonding, periodic properties of elements and compounds.

**CHM 2045L General Chemistry I Laboratory (1) AS CHM**

CP: CHM 2045. Laboratory portion of General Chemistry I. Introduction to laboratory techniques; study of properties of elements and compounds; synthesis and analysis of natural and commercial materials.

**CHM 2046 General Chemistry II NS (3) AS CHM**

PR: CHM 2045 or CHM 2045L or equivalent. Continuation of General Chemistry. Lec.-dis.

**CHM 2046L General Chemistry II Laboratory (1) AS CHM**

PR: CHM 2045L. Laboratory portion of General Chemistry II. Continuation of chemistry laboratory.

**CHM 2200 Organic Chemistry (4) AS CHM**

PR: CHM 2046 or equivalent. Fundamental organic chemistry principles. Structure, nomenclature, properties, preparation, reactions of hydrocarbons, alkyl halides, alcohol, phenols, ethers, sulfur analogs and other compounds. A one-semester course.

**CHM 2210 Organic Chemistry I (3) AS CHM**

PR: CHM 2046, CHM 2046L. Fundamental principles of organic chemistry. Lecture.

**CHM 2210L Organic Chemistry Laboratory I (2) AS CHM**

CP: CHM 2200 or CHM 2210. Laboratory portion of Organic Chemistry I. Introduction of organic laboratory principles and techniques.

**CHM 2211 Organic Chemistry II (3) AS CHM**

PR: CHM 2210 or equivalent. Continuation of organic chemistry. Lecture.

**CHM 2211L Organic Chemistry Laboratory II (2) AS CHM**

PR: CHM 2210L, CR: CHM 2211. Continuation of organic chemistry laboratory.

**CHM 2932 Selected Topics in Chemistry (1-3) AS CHM**

Topics of interest to students relating to chemistry and other sciences.

**CHM 3120C Elementary Analytical Chemistry (4) AS CHM**

PR: CHM 2046, CHM 2046L. Fundamentals of gravimetric, volumetric, spectrophotometric analysis. Lec.-lab.

**CHM 3400 Elementary Physical Chemistry I (3) AS CHM**

PR: CHM 2046, CHM 2046L, MAC 2281 or MAC 2311, PHY 2054, PHY 2054L. Introduction to thermodynamics. Properties of solutions with emphasis on biological applications.

**CHM 3610 Intermediate Inorganic Chemistry (3) AS CHM**

PR: CHM 2046, CHM 2046L. Fundamental principles of inorganic chemistry including atomic structure, bonding theories and structural consequences, transition metal chemistry and illustrative laboratory work. Lec.-lab.

**CHM 3610L Intermediate Inorganic Chemistry Laboratory (1) AS CHM**

PR: Two semesters of general chemistry lecture and lab. CR: CHM 3610. Illustrative laboratory work concerning the fundamental principles of inorganic chemistry including atomic structure, bonding, transition metal chemistry, structural consequences and spectroscopic methods.

**CHM 4060 Use of the Chemical Literature (1) AS CHM**

PR: CHM 2045, CHM 2046, CHM 2210, CHM 2211. Discussions and assignments using abstracts, bibliographies, indices, encyclopedias, journals, patent files, electronic databases, and other information sources to obtain chemical and technical material and including written and oral presentations. Career information and opportunities also discussed.

**CHM 4070 Historical Perspectives in Chemistry 6A MW (3) AS CHM**

PR: One year of college chemistry; or senior standing and CI. A study in depth of the historical and philosophical aspects of outstanding chemical discoveries and theories. Lec.-dis.

**CHM 4130C Methods of Chemical Investigation I (4) AS CHM**

PR: CHM 3120C, CHM 2211, CHM 2211L, CHM 4060, CHM 4410. Theory and applications of instrumental methods in chemical research, chemical synthesis and analysis; electrochemical and calorimetric techniques, separation methods, spectroscopy, statistical analysis of data, computer data handling, and individual projects.

**CHM 4131C Methods of Chemical Investigation II (4) AS CHM**

PR: CHM 4130C. Continuation of CHM 4130C.

**CHM 4300 Biomolecules I (3) AS CHM**

PR: CHM 2211. Nature, structure, elucidation, synthesis and (in selected cases) organic chemical mechanisms of biochemical involvement of the major classes of organic compounds found in living systems. Lec.

**CHM 4410 Physical Chemistry I (4) AS CHM**

PR: CHM 2046, MAC 2242 or MAC 2282 or MAC 2312, and PHY 2054 or PHY 2049. Thermodynamics, the state of matter and solutions are presented. The course includes a recitation.

**CHM 4410L Physical Chemistry Laboratory (1) AS CHM**

PR: CHM 4410. A physical chemistry laboratory with emphasis on modern techniques and instruments. Lab.

**CHM 4411 Physical Chemistry II (4) AS CHM**

PR: CHM 2046, MAC 2242 or MAC 2282 or MAC 2312, and PHY 2054 or PHY 2049. Introduction to quantum mechanics and molecular spectroscopy. Chemical Kinetics and statistical mechanics are also presented.

**CHM 4412 Physical Chemistry III (3) AS CHM**

PR: CHM 4410. Electrochemistry, kinetic theory of gases, chemical kinetics, surface and nuclear chemistry. Lec.

**CHM 4413 Biophysical Chemistry (3) AS CHM**

PR: CHM 2046, MAC 2242 or MAC 2282 or MAC 2312, and PHY 2054 or PHY 2049. This course will cover spectroscopy, bonding and kinetics with emphasis placed on biological molecules and biochemical reactions.

**CHM 4611 Advanced Inorganic Chemistry (3) AS CHM**

PR: CHM 3610C and CHM 4410 or CI. An advanced descriptive and theoretical treatment of inorganic compounds. Lec.

**CHM 4905 Independent Study (1-3) AS CHM**

PR: CI. S/U only. Specialized independent study determined by the student's needs and interests. The written contract required by the College of Arts and Sciences specifies the regulations governing independent study.

**CHM 4932 Selected Topics in Chemistry (1-3) AS CHM**

PR: CI. The course content will depend on the interest of faculty members and student demand.

**CHM 4970 Undergraduate Research (1-3) AS CHM**

PR: CI. S/U only.

**CHM 5225 Intermediate Organic Chemistry I (3) AS CHM**

PR: CHM 2211, CHM 2211L, or equivalent or CI or GS. This course will extend organic chemistry beyond the undergraduate level and will emphasize concepts of stereochemistry and reaction mechanisms.

**CHM 5226 Intermediate Organic Chemistry II (3) AS CHM**

PR: CHM 5225 or CI. An introduction to synthetic organic chemistry for graduate students and advanced undergraduates. Lec. Semester II.

**CHM 5425 Applications in Physical Chemistry (3) AS CHM**

PR: CHM 4412 and CHM 4410 or CI or GS. Applications of chemical theory to chemical systems.

**CHM 5452 Polymer Chemistry (3) AS CHM**

PR: Either CHM 2211, CHM 2211L, and CHM 3400 or CHM 4410 or graduate standing. Fundamentals of polymer synthesis, structure, properties, and characterization.

**CHM 5621 Principles of Inorganic Chemistry (3) AS CHM**

PR: CHM 4411, CHM 4610 or CI or GS. Chemical forces, reactivity, periodicity, and literature in organic chemistry; basic core course. Lec.

**CHM 5931 Selected Topics in Chemistry (1-3) AS CHM**

PR: CI. The following courses are representative of those that are taught under this title: Natural Products, Stereochemistry, Reactive Intermediates, Photochemistry, Instrumental Electronics, Advanced Lab Techniques, Heterocyclic Chemistry, etc.

**CHS 4300 Fundamentals of Clinical Chemistry (3) AS CHM**

PR: BCH 3023. Theoretical and practical aspects of the analysis of various body fluids, with emphasis on the medical significance. Lec.

**CHS 4301L Clinical Laboratory (2) AS CHM**

PR: BCH 3023 and CI, CHM 3120C. Laboratory experience in some of the most important clinical determinations. Lec.-Lab.

**CIS 3360 Principles of Information Security (3) US EIT**

PR: Admission to BSAS Concentration. Board review of Information Security and related elements. Includes terminology, history of the

## 272 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

- discipline, overview of information security program management. Suitable for IS, criminal justice, political science, accounting information systems students
- CIS 3362 Cryptography and Information Security (3) US EIT**  
PR: MAD 2104 or permission of instructor. This course examines classical cryptography, entropy, stream and block ciphers, public key versus symmetric cryptography, one-way and trap-door functions, plus other specific tools and techniques in popular use.
- CIS 3367 Architecting Operating System Security (3) US EIT**  
PR: CIS 3360 or permission of instructor. This course examines tools and techniques for securing Windows and Linux operating systems. Students will acquire knowledge and skills to perform audit assessments and implement enterprise-wide operating system security.
- CIS 3932 Special Topics for Information Technology (1-4) US EIT**  
Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.
- CIS 4250 Ethical Issues And Professional Conduct 6A MW (3) ENESB**  
PR: Senior standing in the Department of Computer Science and Engineering. An introduction to ethical issues arising in the computer sciences, through written analysis and oral presentations of technical situations which involve ethical conflicts.
- CIS 4253 IT Ethics 6A MW (3) US EIT**  
PR: Basic computer skills. This course will cover issues that arise from the world of online communication and its impact on our daily lives through education, processes, and information. Class discussions cover various technologies and issues that are shaping our society.
- CIS 4361 Information Technology Security Management (3) US EIT**  
PR: Junior standing or above. An overview of information security management techniques and concerns is presented. Topics include: Access control systems, telecommunications and network security, security management practices, application and systems development security, cryptography, disaster recovery planning, legal and ethical issues, and physical security.
- CIS 4364 Cryptology and Information Security (3) EN ESB**  
PR: EEL 4851C. CP: COP 4600. Covers the fundamentals of computer security. The following topics are addressed: Network Security, Cryptography, Access Control, Security Architecture and Models, Applications and Systems Development, Vulnerability Assessment.
- CIS 4365 Computer Security Policies and Disaster Preparedness (3) US EIT**  
PR: CIS 3360. When an organization's functioning is interrupted by disasters, accidents, or natural events, a loss of data and/or productivity may occur. The impact on the organization is determined by how prepared it is for dealing with these disruptions.
- CIS 4412 Information Technology Resource Management (3) US EIT**  
PR: Junior standing or above. An overview of the information resource management function, with emphasis on information systems management, is covered. Topics include planning, organizing and controlling user services, managing information system development process, and the fundamentals of EDP auditing.
- CIS 4510 I.T. Project Management (3) US EIT**  
PR: CI. This course covers the general aspects of project management and emphasizes the important, special considerations which apply to information technology projects. Supporting software is used extensively.
- CIS 4900 Independent Study In Computer Science (1-5) EN ESB**  
PR: EEL 4851C or CDA 3201 and CI. S/U only. Specialized independent study determined by the needs and interests of the student.
- CIS 4910 Computer Science Project (2) EN ESB**  
PR: EEL 4851C. Projects intended to develop individual interests and abilities in computer science involving either computer hardware or software aspects of a well defined proposal.
- CIS 4930 Special Topics in Computer Science I (1-4) EN ESB**  
PR: EEL 4851C or CDA 3201 and CI.
- CIS 4932 Special Topics for Information Technology (1-4) US EIT**  
Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.
- CIS 4935 Senior Project in Information Technology (3-5) US EIT**  
PR: Senior Standing in Information Technology. Graduates of the IT program must complete a major project dealing with a sub-domain of IT. Projects are supervised by a faculty member, or an approved industrial mentor. Projects range from design to programming, to implementations associated with IT.
- CJC 4010 American Correctional Systems (3) AS CJP**  
PR: Junior standing, CCJ 3024 or CCJ 3610 or CI. Analysis of the different treatment philosophies and techniques currently in use in the field, with special attention to experimental and demonstration programs.
- CJC 4166 Alternatives to Incarceration (3) AS CJP**  
PR: Junior standing, CCJ 3024 or CCJ 3610 or CI. This course explores a variety of alternatives to imprisoning the offender, including probation, parole, diversion, and other community-based intervention and treatment approaches.
- CJE 3444 Crime Prevention (3) AS CJP**  
PR: CCJ 3024, CCJ 3610. The aim of this course is to introduce students to the theories and constructs of crime prevention and reduction, as well as techniques and policies used currently worldwide that would enhance US response to crime and justice. No restriction, not repeatable.
- CJE 3641 Introduction to Forensic Science (3) AS CJP**  
This course provides students an appreciation of 'real life' forensic science and its role in the justice system. The class introduces students to the scientific techniques employed by the forensic science community. Not restricted or repeatable.
- CJE 3656 Introduction to Crime Analysis (3) AS CJP**  
PR: CCJ 3701, CJE 3444, CCJ 3706. An introduction to the field of crime analysis; the use of Geographic Information Systems (GIS); crime mapping techniques. Not restricted. Not repeatable.
- CJE 4010 Juvenile Justice System (3) AS CJP**  
PR: Junior standing, CCJ 3024 or CCJ 3610 or CI. Provides coverage of the juvenile and family courts, their clientele, and the complex of human services agencies and facilities that contribute to efforts at juvenile correctional intervention.
- CJE 4144 Private Security Systems (3) AS CJP**  
PR: Junior standing plus CJE 4114, CCJ 3024, CCJ 3610, CCJ 3621 or CI. Examines some of the principal methods and techniques currently used to reduce or prevent losses due to theft and casualty.
- CJL 3110 Substantive Criminal Law (3) AS CJP**  
PR: Junior standing, CCJ 3024, CCJ 3610, or CI. Examines the historical basis of the American criminal law system, the substantive elements of the crime, and court procedures.
- CJL 3502 Introduction to Courts (3) AS CJP**  
Offers understanding of process & functions of US court system. Define & identify different aspects of law & crime; examine aspects of Federal & State court systems; trial process; examine roles of court workers; sentencing. Not restricted or repeatable.
- CJL 4115 Environmental Law and Crime (3) AS CJP**  
PR: Junior standing, CCJ 3024 or CI. The course provides students with an introduction to issues in the area of environmental crime and environmental law.
- CJL 4410 Criminal Rights and Procedures (3) AS CJP**  
PR: Junior standing, CCJ 3024 or CI. Emphasizes the Constitutional issues and rules that are applied and enforced by the courts while processing criminal cases.
- CJT 4100 Criminal Investigation (3) AS CJP**  
PR: CCJ 3024 or CCJ 3610 or CI. Covers the major components of criminal investigation, with special attention to the scientific aspects of criminal investigation and the management of major cases.
- CLA 3103 Greek Civilization HP (3) AS WLE**  
Study of Greek Civilization from its beginning to the Roman period, with emphasis on social customs, political institutions, and daily life.
- CLA 3124 Roman Civilization HP (3) AS WLE**  
Study of Ancient Roman Civilization with emphasis on social customs, political institutions, and daily life.
- CLA 3501 Women in Antiquity 6A LW (3) AS WLE**  
The life of women in the ancient Greek and Roman world, through lecture, video, and slide presentations. The course is not restricted to majors and cannot be repeated for credit.
- CLA 3930 Selected Topics (3) AS WLE**  
An examination of various aspects of Greek and Roman Culture, based on ancient sources, literary and archaeological. Repeatable as topics vary.
- CLA 4930 Selected Topics (1-4) AS WLE**  
Course content depends on student demand and instructor's interest and may range over the whole field of ancient languages, literatures and civilizations. Offerings on a semi-regular basis include Tongues of the Bible and the Bible as History.
- CLP 2001 Psychology of Adjustment SS (3) AS PSY**  
Genetic, organic, and learned factors involved in the processes of personal adjustment; applications of mental health principles to everyday living.

**CLP 4143 Abnormal Psychology (3) AS PSY**

PR: PSY 3213 with a grade of C or better or CI. Descriptions, theoretical explanations, research evidence, and treatment of maladaptive behavior.

**CLP 4414 Behavior Modification (3) AS PSY**

PR: PSY 3213 with a grade of C or better or CI. Introduction to behavior analysis, and application of learning principles, behavioral measurement, research designs, and interventions in treatment settings.

**CLP 4433 Psychological Tests and Measurement (3) AS PSY**

PR: PSY 3213 with a grade of C or better or CI. Students may not receive credit for both CLP 4433 and EDF 4430. A consideration of the instruments for intellectual and personality assessment including their applications, development, and potential abuses.

**CLP 4941 Community Practicum in Selected Topics (1-9) AS PSY**

PR: C or better in PSY 4931, junior standing and at least 6 hours in Psychology. Service-learning for student to apply psychological principles learned in the classroom to volunteer experiences. Community is defined at the local, national and international level. Free-standing practicum or with a corequisite course.

**CLT 2043 Wordpower from Latin and Greek (3) AS WLE**

Study of Greek/Latin elements as a means of building English vocabulary. Examination of Greek/Latin-based terminology from various scientific fields, its adoption into English and current usage. Attention given to Greek/Latin stems, prefixes, suffixes.

**CLT 3040 Scientific and Medical Terminology (3) AS WLE**

A course in the Greek and Latin word elements used in science and technology.

**CLT 3103 Greek Literature in Translation 6A MW (3) AS WLE**

Reading and discussion of major works in Greek literature. Special emphasis on the Iliad, the dramatists Aeschylus, Sophocles, Euripides and Aristophanes. Some attention is given to the social and political background of the works. All readings are in English.

**CLT 3123 Roman Literature in Translation 6A MW (3) AS WLE**

Reading and discussion of major works in Roman literature. Special emphasis is placed on the Aeneid, comedy and satire. Some attention is given to the political background of the works. All readings are in English.

**CLT 3370 Classical Mythology HP (3) AS WLE**

Study of Greek and Roman myths embodied in classical literature and of their impact on Western civilization. All readings are in English.

**CNT 3403 Network Security and Firewalls (3) US EIT**

PR: EEL 4782. This course surveys network security standards and emphasizes applications that are widely used on the Internet and for corporate networks. This course also examines Firewalls and related tools used to provide both network and perimeter security.

**COM 2000 Introduction to Communication SS (3) AS SPE**

Introduction to the roles, contexts, and issues in contemporary human communication. Required of Communication majors.

**COM 3014 Communication, Gender and Identity (3) AS SPE**

PR: COM 2000 with C or above or consent of instructor (CI). Examines the communicative origins and implications of gender roles.

**COM 3110 Communication For Business and the Professions (3) AS SPE**

For non-majors only. Identification of communication situations specific to business and the professions. Analysis of variables related to communication objectives and preparation of oral presentations in the form of informational reports, conference management, persuasive communications, interviews, and public hearing.

**COM 3120 Organizational Communication (3) AS SPE**

PR: COM 2000 with C or above or consent of instructor (CI). A survey of communication concepts which impact upon organizational effectiveness.

**COM 3122 Interview Communication (3) AS SPE**

A study of communication theory relative to persuasive interviewing with an emphasis on career interview situations.

**COM 3413 Communication and Visual Culture (3) AS SPE**

PR: COM 2000. Examines the nature and practices of seeing as fundamental to communication with special emphasis on cultural and rhetorical implications of visual practices in aesthetic, political, and social arenas.

**COM 4016 Public Memory (3) AS SPE**

PR: COM 2000, SPC 2541. Exploration of collective memory as public communication. Examines public memory as created and communicated in memorials, museums, mediated history, nostalgia, and story. For majors; nonmajors by permit. Not repeatable for credit.

**COM 4020 Communicating Illness, Grief, and Loss 6A (3) AS SPE**

PR: COM 2000 with C or above or consent of instructor (CI). Focus on stories of illness, grief, and loss to make sense of these experiences; to understand the cultural and rhetorical influences on how stories are told; and to explore the context of everyday life, romantic relationship, families, institutions, and culture in which they occur.

**COM 4021 Family Communication and the End of Life (3) AS SPE**

PR: COM 2000, SPC 3301. Explores theories and practices of family communication at end-of-life through language, relationships, bioethics, and case analysis techniques. For majors; nonmajors by permit only. May not be repeated for credit.

**COM 4022 Health Communication (3) AS SPE**

PR: COM 2000 with C or above or consent of instructor (CI). Application of communication theory and research to the health context including provider-patient communication, health information campaigns, and health beliefs and behavior. Special attention to the value issues in health communication.

**COM 4030 Women and Communication 6A MW (3) AS SPE**

Examines women's patterns of communication in a variety of contexts. Also offered under Women's Studies.

**COM 4050 Globalization and Democratic Discourse (3) AS SPE**

PR: COM 2000, SPC 2541. Examines rhetoric of globalization and democracy from communication perspectives, especially the discourses of war, terrorism, nationalism, and security. For majors; nonmajors by permit only. Not repeatable for credit.

**COM 4104 Communication, Tourism, and Travel (3) AS SPE**

PR: COM 2000, ORI 2000. Focuses on cultural, experiential, and performative practices and meanings of travel and tourism as sites of communication inquiry. Majors only; nonmajors by permit. Not repeatable for credit.

**COM 4124 Communication and Organizational Change (3) AS SPE**

PR: COM 2000 with C or above and COM 3120 or consent of instructor (CI). An advanced course covering current issues in organizational transformation (e.g., organizational dialogue, learning organizations, reengineering, work teams), and the role communication processes play in such changes.

**COM 4702 Communication, Language, and Mental Illness (3) AS SPE**

PR: COM 2000, SPC 3301. Explores intersection of mental illness and communication as language, talk-in-interaction, and discourse as social practice. For majors; nonmajors by permit. May not be repeated for credit.

**COM 4710 Writing Lives 6A (3) AS SPE**

PR: Junior/Senior standing or CI. Emphasizes writing stories about our lives and the lives of others as a way to understand, cope with and communicate social experiences.

**COM 4942 Communication Intern Seminar (3) AS SPE**

PR: Communication major, minimum GPA 3.0, 75 hours completed, 15 hours of core requirements and 9 elective hours completed, and CI. Seminar provides students with an opportunity to put into practice concepts and skills acquired in their study of communication. Weekly seminar sessions augment intern experience. Application for seminar must be submitted one semester prior to seminar offering.

**COM 5930 Topics in Communication Studies (3) AS SPE**

Topical issues in communication.

**COP 1930 Special Topics for Information Technology (1-3) US EIT**

Special topics course.

**COP 2120 SC Cobol Programming I (3) EN ESB**

Analysis of ANSI Standard COBOL language elements. Development of file structures and commercially oriented applications.

**COP 2121 SC Cobol Programming II (3) EN ESB**

PR: COP 2120. Advanced applications of ANSI Standard COBOL. Development of subroutines, relative I-O and data base applications as used in a comprehensive data processing environment.

**COP 2270 Programming in C for Engineers (3) EN ESB**

PR: MAC 2281, MAC 2311 or MAC 2241. This class prepares students to use the C programming language and the MATLAB environment to develop solutions to small scale scientific and engineering problems.

**COP 2510 Programming Concepts (3) EN ESB**

PR: MAC 2281 or equivalent. An examination of a modern programming language emphasizing programming concepts and design methodology.

## 274 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

### **COP 2930 Special Topics for Information Technology (1-3) US EIT**

Special topics course.

### **COP 2931 Special Topics for Information Technology (1-3) US EIT**

Special topics course.

### **COP 3173 Visual Basic for Experienced Programmers (3) EN ESB**

PR: COP 3514. Program design and development using the Visual Basic language and application development tools. Application development using advanced programming techniques where visual presentation is a priority element.

### **COP 3257 JAVA for Experienced Programmers (3) EN ESB**

PR: COP 3514 or equivalent. Program design and development using the JAVA programming language. Comparison of program design in a procedural language (C recommended) versus design in the JAVA language. Application development using advanced programming techniques.

### **COP 3331 Object Oriented Software Design (3) EN ESB**

PR: COP 3514 Design of a computer program using an Object-Oriented programming language. Extension of programming knowledge from a procedural language to an object-oriented language. Analysis of program requirements.

### **COP 3514 Program Design (3) EN ESB**

PR: COP 2510 or comparable introductory programming course and DPR. The class extends students' programming knowledge by systematically considering the concepts involved in program design and creation. Students will also build upon their previous programming experience by learning to use the C programming language in a networked environment.

### **COP 3515 Program Design for Information Technology (3) US EIT**

PR: COP 2510 or CI. Concepts associated with the design and implementation of computer programs are studied, with emphasis on creation of programs to be developed and maintained in a variety of environments from small to large information technology organizations.

### **COP 3931 Special Topics for Information Technology (1-4) US EIT**

Topics to be chosen by students and instructor permitting newly developing interdisciplinary special interests to be explored.

### **COP 4020 Programming Languages (3) EN ESB**

PR: EEL 4851C. An introduction to programming languages, survey of language types and design of translators and interpreters.

### **COP 4313 Symbolic Computations in Mathematics 6A (3) AS MTH**

PR: MAS 3105 and MAP 2302. Students will write programs to solve problems in various areas of mathematics including calculus and linear algebra with symbolic programming systems such as Maple, Mathematica, or Macsyma.

### **COP 4600 Operating Systems (3) EN ESB**

PR: EEL 4851C. Introduction to systems programming. Design of operating systems. Concurrent processing, synchronization, and storage management policies.

### **COP 4610 Operating Systems for Information Technology (3) US EIT**

PR: EEL 4854 or CI. Introduction to concepts and practices of modern operating systems. Topics include process, parallelism, memory management, resource allocation and file systems. Algorithms are used to understand many of the concepts associated with operating systems.

### **COP 4610L Operating Systems Laboratory for Information Technology (1) US EIT**

PR: EEL 4854 or CI. Implementation and evaluation of models discussed in the lecture part of the course. Students implement operating system algorithms in stand-alone mode, and modify real operating system code. Students implement and test algorithms in a lab environment.

### **COP 4703 Database Systems for Information Technology (3) US EIT**

CR: EEL 4854 or CI. Fundamentals of database management systems are presented, covering relational, CODASYL, network, hierarchical, and object-oriented models. Topics include basic design concepts, analysis of efficiency as well as actual implementations of such systems.

### **COP 4814 Web Services (3) US EIT**

PR: CI. The Web services model, based on the Open Standards of SOAP, WSDL, and UDDI, is studied and applied.

### **COP 4816 XML Applications (3) US EIT**

PR: CI. Completion of prerequisites for admission to IT program. This course introduces eXtensible Markup Language (XML), a

technology for exchanging structured information over the Internet, and examines a sampling of its many applications.

### **COP 4834 Data-Driven Web Sites (3) US EIT**

PR: CI. Completion of prerequisites for admission to IT program. Junior standing or above. This course builds on students' knowledge of Web development and databases by adding server-side scripting using the PHP language to interact with the MySQL database system to build transaction processing and report generating systems over the Internet.

### **COP 4835 Web Development Tools (3) US EIT**

PR: CI. This course builds on web design concepts and extends them to build and maintain complete Web Sites using the current de facto industry-standard integrated web site development environment/applications.

### **COP 4930 Information Technology Seminar (1-3) US EIT**

PR: Senior standing in Information Technology. A survey of current Information Technology topics are covered to keep the IT student abreast of the variety of domains associated with their major. Speakers with a wide variety of IT experience will give seminars to senior IT students.

### **COP 4931 Special Topics for Information Technology (1-4) US EIT**

Topics to be chosen by students and instructor permitting newly developing interdisciplinary special interests to be explored.

### **COT 3100 Introduction to Discrete Structures (3) EN ESB**

PR: MAC 2281 or equivalent. Introduction to set algebra, propositional calculus and finite algebraic structures as they apply to computer systems.

### **COT 4115 Advanced Discrete Structures with Cryptology (3) EN ESB**

PR: EEL 4851C, COT 3100. Advanced topics in discrete mathematics: number theory, groups, rings and fields, finite fields, and combinatorics, as applied to computer systems. Theoretical application of mathematic concepts to coding theory and cryptology.

### **COT 4210 Automata Theory and Formal Languages (3) EN ESB**

PR: COT 3100, EEL 4851C. Introduction to the theory and application of various types of computing devices and the languages they recognize.

### **COT 4400 Analysis Of Algorithms (3) EN ESB**

PR: COT 3100, EEL 4851C. Design principles and analysis techniques applicable to various classes of computer algorithms frequently used in practice.

### **CPO 2002 Introduction to Comparative Politics SS (3) AS POL**

Comparison and analysis of representative European and non-Western political systems.

### **CPO 4034 Politics of the Developing Areas SS AF (3) AS POL**

An analysis of the ideologies, governmental structures, and political processes of selected nations of the non-Western world.

### **CPO 4204 Government and Politics of Africa SS AF (3) AS AFA**

Designed to provide the information and analytical tools necessary to interpret current Sub-Saharan African politics. Survey of political organization in traditional African societies; politics under colonial rule; the struggle for independence, and post-independence politics.

### **CPO 4930 Comparative Government and Politics of Selected Countries or Areas (3) AS POL**

Studies political systems with common elements. Structure, process, domestic and foreign politics, and regional roles are considered.

### **CPO 5934 Selected Topics in Comparative Politics (3) AS POL**

Sr./GS. Studies specific substantive areas in Comparative Politics, such as political economy or the politics of specific countries or regions.

### **CRW 2100 Narration and Description 6A (3) AS ENG**

A study of narrative and descriptive techniques in prose. By making the student sensitive to language usage, the course is designed to bridge the gap between expository writing and imaginative writing.

### **CRW 3111 Form and Technique of Fiction 6A (3) AS ENG**

A study of short narrative forms such as the anecdote, tale, character sketch, incident, monologue, epistolary story, and short story as they have been used in the development of fiction and as they exist today.

### **CRW 3112 Fiction I 6A (3) AS ENG**

PR: CRW 2100 or CRW 3111. An introduction to fiction writing, beginning with a practical study of the various elements of fiction and proceeding through the many processes of revision to arrive at a completed work of art.

### **CRW 3121 Fiction II 6A (3) AS ENG**

PR: CRW 2100 or CRW 3111, CRW 3112. A fiction workshop which provides individual and peer guidance for the student's writing and which encourages the development of critical skills.

## CRW 3311 Form and Technique of Poetry (3) AS ENG

An examination of the techniques employed in fixed forms from the couplet through the sonnet to such various forms as the rondel, ballad, villanelle, sestina, etc. Principles in the narrative, dramatic, and lyric modes are also explored.

## CRW 3312 Poetry I (3) AS ENG

PR: CRW 3311. An introduction to poetry writing utilizing writing exercises employing poetic language and devices; the exercises progress to the writing of both rhymed and unrhymed metrical and non-metrical forms.

## CRW 3321 Poetry II (3) AS ENG

PR: CRW 3311, CRW 3312. A poetry workshop which provides individual and peer guidance for the student's writing and which encourages the development of critical skills.

## CRW 4120 Fiction III (3) AS ENG

PR: CRW 2100 or CRW 3111, CRW 3112, CRW 3121. An advanced fiction workshop in which works may be carried over from CRW 3121 or longer forms such as the novel may be begun.

## CRW 4320 Poetry III (3) AS ENG

PR: CRW 3311, CRW 3312, CRW 3321. An advanced poetry workshop in which students are expected to create works exhibiting a firm knowledge of the principles explored in the preceding courses.

## CRW 4930 Selected Topics in Creative Writing (1-4) AS ENG

PR: 12 hours of CRW courses or CI. The focus of the course will be governed by student demand and instructor interest. Topics to be covered may include writing the literary essay, writing in mixed genres, and utilizing popular conventions in serious works. May be taken twice for credit with different topics.

## CWR 4202 Hydraulics (3) EN EGX

PR: EGN 3353. Fundamental and applied aspects of pipe flow, free surface flow, and unsteady flow for hydraulic systems.

## CWR 4540 Water Resources Engineering I (3) EN EGX

PR: CWR 4202. A study of the engineering principles involved in sustaining and managing the quantity and quality of water available for human activities with particular emphasis on surface water and ground water hydrology.

## CWR 4541 Water Resources Engineering II (3) EN EGX

PR: EGN 3353, CWR 4202. The course is intended to be a technical elective for students specializing in water resources or environmental engineering. Material in the course covers subsurface hydrology including both soil vadose zone processes and the ground water flow.

## CWR 4812 Capstone Water Resources/Environmental Design MW (4) EN EGX

PR: CWR 4540, ENV 4001. CR: ENV 4417, CWR 4202, CEG 4012 or TTE 4405. A capstone water resources design experience for seniors in Civil and Environmental Engineering. A design oriented course to design both industrial and domestic water treatment, and water transport systems and hydraulic systems, including drainage, water supply, and flood control.

## DAA 2100 Fundamentals Of Modern Dance (2) VP DAN

A studio class for students with a serious interest in concert modern dance. Emphasis upon correct alignment, development of strength, rhythmic and dynamic activity, as well as spatial and locomotor patterns. May be repeated up to six credit hours.

## DAA 2104 Modern Dance I (2) VP DAN

PR: Admission by placement audition. A studio class for students with a serious interest in concert modern dance. Further emphasis on correct alignment, development of strength, rhythmic and dynamic activity as well as spatial and locomotor patterns. May be repeated up to 8 credit hours.

## DAA 2200 Fundamentals Of Ballet (2) VP DAN

A studio class for students with a serious interest in Ballet. Emphasis on correct alignment of the body and a progressive development of positions and barre exercises as well as the application of combinations in center work using classical Ballet vocabulary (French terms). May be repeated.

## DAA 2204 Ballet I (2) VP DAN

PR: Admission by placement audition. A studio class for students with a serious interest in Ballet. Further emphasis on correct alignment of the body and a progressive development of positions and barre exercises as well as the application of combinations in center work using classical Ballet vocabulary (French terms). May be repeated.

## DAA 2500 Fundamentals Of Jazz Dance (2) VP DAN

A basic movement course in Jazz Dance involving dance vocabulary, alignment, styles and simple rhythmic patterns. May be repeated up to 6 credits.

## DAA 2504 Jazz Dance (2) VP DAN

PR: Admission by placement audition and DAA 2500. A technique class for the intermediate level dancer to become acquainted with

the dance styles and forms of musical theatre and concert jazz dance. Emphasis is on highly stylized movement with a strong rhythmic base. May be repeated.

## DAA 2540 Theatre Dance Styles (2) VP DAN

PR: DAA 2500 or DAA 2504 or CI. Development of technical skills in social and historical dance forms frequently stylized for use by dance choreographers. Forms to be studied will include polka, clogging, waltz, folk, tap dancing, etc. May be repeated up to 6 credits.

## DAA 2570 Jazz Theatre Dance (3) VP DAN

PR: Admission by placement audition and DAA 2504. Further emphasis on projection, phrasing, rhythmic patterns and dynamics. Solo and ensemble studies leading to performance. May be repeated up to 6 credits.

## DAA 3108 Modern Dance II (3) VP DAN

PR: Admission by placement audition. Study of principles of modern dance technique. Practical work in exercises and movement phrases, utilizing changing rhythms and dynamics. Concert and performance attendance required. May be repeated.

## DAA 3109 Modern Dance III (2-3) VP DAN

PR: Admission by placement audition. Continuation of DAA 3108. Further emphasis on style and phrasing. Work on projecting mood and quality by dancing and rehearsing in more advanced choreography, leading to performance. May be repeated.

## DAA 3208 Ballet II (3) VP DAN

PR: Admission by placement audition. Positions and barre exercises. Emphasis on correct alignment of the body and the application of simple step combinations in centre work. The use of ballet vocabulary (French terms). Material is covered almost totally as practical work in class with a few outside projects. Concert and performance attendance required. May be repeated.

## DAA 3209 Ballet III (2-3) VP DAN

PR: Admission by placement audition. Continuation of DAA 3208. Intensification of barre exercises for the development of strength and form. Application of phrasing and movement. Material covered as practical work in class for concerts and performances. May be repeated.

## DAA 3294 Ballet Variations (1) VP DAN

PR: DAA 3209. This course provides instruction in various forms of ballet. Semester courses include: Pointe technique, Men's Class, Character Dance, Spanish Dance and Partnering. BFA Ballet concentration students are required to complete two semester hours. May be repeated.

## DAA 3395 World Dance Topics (1) VP DAN

Students will experience fundamental knowledge of dance representing various world cultures. In addition to a dance/movement component, a connection will be made to historical, spiritual/religious, ethnological and environmental indigenous aspects of people involved in dance as a cultural experience. May be repeated.

## DAA 3614 Choreography I (2) VP DAN

PR: DAN 3614. CR: DAA 3108. BFA students must be concurrently enrolled in Modern III/IV and Ballet III. Study and execution of basic principles of composition. Preparation of studies in theme and variations, breath phrases and metric phrases.

## DAA 3615 Choreography II (2) VP DAN

PR: DAA 3614. Preparation of studies in rhythm, dynamics, form and motivation.

## DAA 3624 Dance Improvisation (2) VP DAN

For majors and non-majors. Exploring various methods of spontaneously creating dance movement in individual and group situations. Structured and unstructured approaches will be explored. May be repeated.

## DAA 3654 Repertory I (1) VP DAN

PR: Admission by audition. The development and performance of solo and/or group dances.

## DAA 3684 Repertory II (1) VP DAN

PR: Admission by audition. The development and performance of solo and/or group dances.

## DAA 3686 Junior Performance Project (1) VP DAN

PR: Admission by audition. Required for junior dance majors. Involves rehearsal and performance of work presented by a senior dance major in the dance program. Open to all university students proficient in dance techniques and concurrently enrolled in technique courses. Repeatable.

## DAA 4110 Modern Dance IV (3-4) VP DAN

PR: Admission by placement audition. Intense work on the growth of personal performance styles. Equal emphasis will be given to training the body in the development of technical excellence. May be repeated.

## 276 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

### **DAA 4211 Ballet IV (3-4) VP DAN**

PR: Admission by placement audition or CI. Perfecting the execution of barre work. Intensification of centre work. More stress on aesthetic quality of movement and phrasing. Students expected to be proficient in pointe work. Outside projects, concerts, and performances are required. May be repeated.

### **DAA 4616 Choreography III (2) VP DAN**

PR: DAA 3615. CR: DAA 3109 or above. Work directed toward duets and group dances. The students will submit choreographic ideas for instructor's approval, then proceed with rehearsals. Lec-lab., reading. Rehearsal hours to be arranged.

### **DAA 4617 Choreography IV (2) VP DAN**

PR: DAA 4616. The student will prepare studies based on free form, minimal art, and chance methods. Lec-lab., reading.

### **DAA 4685 Performance (1-3) VP DAN**

PR: Admission by audition. Open to all university students proficient in dance techniques and concurrently enrolled in Technique. Involves rehearsal and performance of works presented by the department. May be repeated.

### **DAA 4687 Performance (1-2) VP DAN**

PR: Admission by audition. Open to all university students proficient in dance techniques and concurrently enrolled in Technique. Involves rehearsal and performance of works presented by the department. May be repeated.

### **DAA 4694 Senior Choreography Project (1-5) VP DAN**

PR: Dance majors with senior standing. The creation of an original group work and solo within the senior's major concentration-ballet or modern. To be performed and presented with the concurrence of a faculty advisor.

### **DAA 4920 Dance Studies (1-4) VP DAN**

PR: CI and CC. Dance Major status. Individual study to extended competency in technique and performance of Dance through participation in special workshops.

### **DAE 3351 Ethnic/Folk Dance (2) VP DAN**

An exploration of ethnic and folk dance forms in various cultures of the eastern and western hemispheres. Students will investigate ways of doing, making, and teaching dances through studio work, videos, performances, and readings.

### **DAE 4300 Dance Pedagogy: Theory and Practice (3) VP DAN**

PR: CI, CC. Designed to provide prospective teachers with opportunities to develop concepts of pedagogy based on principles of teaching/learning dance. Specific sections will focus on Secondary Curriculum and Methods and on Pre-K and Elementary Methods.

### **DAE 4310 Dance Pedagogy: Pre-School to Elementary (3) VP DAN**

This course is designed to meet the needs of students in Dance Education to understand the scope and sequence of dance curriculum design and teaching methods appropriate to Pre-K and elementary students.

### **DAE 4340 Dance Pedagogy: Secondary Curriculum (3) VP DAN**

This course is designed to meet the needs of students in Dance Education to understand the scope and sequence of dance curriculum design and teaching methods appropriate to the secondary student.

### **DAE 4397 Special Studies Dance Education (3) VP DAN**

PR: CI and CC. PR: CI and CC. For majors and non-majors. Designed to provide prospective dance teachers with opportunities to develop concepts of pedagogy based on principles of teaching-learning in dance techniques and choreography. May be repeated up to 9 credit hours.

### **DAE 4936 Senior Seminar in Dance Education (2) VP DAN**

CR: DAE 4940 This course represents a synthesis of the teacher Candidate's courses and is required concurrently with the internship.

### **DAE 4940 Internship in Dance Education (1-12) VP DAN**

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

### **DAN 2100 Introduction To Dance 6A FA (3) VP DAN**

For majors and non-dance majors, a study of the art and language of dance through lectures, discussions, concert attendance, and studio practice. Designed to develop awareness and insight of this art form through discussion, observation, writing, and movement experience.

### **DAN 2160 Entry Seminar (2) VP DAN**

This is a study of dance-related career opportunities through lectures, assigned reading and video viewing. This course will aid majors in understanding dance as an aesthetic art form through discussion and critical evaluation.

### **DAN 3584 Practicum In Dance Production (2) VP DAN**

A practicum in mounting dance concerts with shop work and backstage participation. Intended for students working in costuming, set preparation, light presentation, stage management and production crew. Dance majors must have 4 credits. May be repeated.

### **DAN 3614 Music For Dance (2) VP DAN**

PR: Designed for majors and non-majors. Development of musical skills in movement studies. Continued study of the inter-relationship of music and dance through movement experiences, observations, video, and writing.

### **DAN 3615 Music For Dance II (2) VP DAN**

PR: DAN 3614. Development of practical music skills in relation to dance. Continued problems in rhythmic materials and the relationship of music forms to dance. Elements within historical context.

### **DAN 3714 Dance Kinesiology (3) VP DAN**

This course will give the student an understanding of basic human anatomy and how it functions in relation to movement, injury prevention, teaching and performance. Individual structural differences and how these affect movement potential will also be studied. There will be an emphasis on the kinesiological analysis of movement with the goal of increased efficiency, enhanced performance and injury prevention.

### **DAN 4134 Dance History Through the 19th Century 6A LW (3) VP DAN**

Designed for majors and non-majors, this course will present a comprehensive view of the evolution of dance as an art form from its origins through the 19th Century. It is designed to develop awareness and insight through lecture, discussion, video, observation and writing.

### **DAN 4135 20th Century Dance MW (3) VP DAN**

Designed for majors and non-majors, this course will trace the development of dance as an art form in the 20th Century. It is designed to develop awareness and insight through lecture, discussion, video, observation and writing. Students will be required to attend at least two dance performances.

### **DAN 4162 Research in Dance (2) VP DAN**

PR: Dance major with Junior standing, and completion of two courses in secondary area. Course will introduce basic research methodologies for conducting research in the dance genre, and will serve the student in preparing for future research based study in the field of dance. Students will conduct library, internet, and field research.

### **DAN 4180 Dance Senior Seminar (2) VP DAN**

PR: Dance major with senior status. A study of career opportunities in performance, teaching, research, design, and choreography. To aid majors in self-appraisal as artists and develop methods to further their potential in the professional world. Discussion, critical evaluation and projects.

### **DAN 4404 Laban Movement Analysis (3) VP DAN**

Specialized study in movement theories, body alignment, and movement patterns focusing on the scientific and analytical basis of movement in dance with consideration for developmental processes, technique, creative expression, and performance.

### **DAN 4906 Directed Study (1-5) VP DAN**

PR: CI, CC. Independent studies in the various areas of Dance. Must receive approval prior to registration. May be repeated.

### **DAN 4930 Selected Topics In Dance (1-5) VP DAN**

PR: CI and CC. The content of the course will be governed by student and instructor interest. May be repeated by majors.

### **DEC 4161 Program Management of Distributive and Marketing Education (3) ED EDV**

The study of the purposes, processes, organization, planning, directing, coordinating and evaluation of Distributive and Marketing Education Cooperative Programs.

### **DEC 4941 Supervised Field Experience: Distance Education (1-6) ED EDV**

Planned supervised functions in the area of specialization and coordinated with selected schools, government offices, social agencies, businesses and industries on site.

### **DEP 2004 The Life Cycle (3) AS GEY**

An examination of individuals and the physical, cognitive, personality, and social changes which occur throughout the entire life span.

### **DEP 3103 Child Psychology SS (3) AS PSY**

Not for major credit. Developmental and psychosocial aspects of childhood, including hereditary, maturational, psychological, and social determinants of child behavior.

### **DEP 4053 Developmental Psychology (3) AS PSY**

PR: PSY 3213 with a grade of C or better or CI. Survey of methods, empirical findings, and theoretical interpretations in the study of human development.

**DEP 4135 Psychology of Language Development (3) AS PSY**  
PR: PSY 3213 with a grade of C or better or CI. Available both to majors and non-majors. Surveys the course of and processes underlying normal language development. Presents data and theory on phonological, semantic, syntactic, and pragmatic development.

**EAB 4715 Supervised Practicum and Field Experience in Applied Behavior Analysis (1-6) AS PSY**  
PR: PSY 4933 with a grade of B or better. Does not count toward major credit. (S/U only). Field experience in Behavior Analysis in applied settings. Under the supervision, involves the design, implementation and evaluation of behavior analysis methods in applied settings. Includes both field practicum and didactic components. May be repeated for a maximum of 6 hours.

**EAP 1850 English for Foreign Students I (3) AS WLE**  
A special course for students learning English as a second language. Intensive study and drill in American English pronunciation and listening comprehension.

**EAP 1851 English for Foreign Students II (3) AS WLE**  
PR: EAP 1850 or CI. A continuation of EAP 1850. Emphasis on reading and composition.

**EAS 4121 Hydro and Aerodynamics (3) EN EGR**  
PR: EML 3701, MAP 2302. Advanced fluid dynamics, ideal and viscous flows, applications to flow around immersed bodies.

**ECH 3023C Material and Energy Balances (4) EN ECH**  
PR: PHY 2049, MAC 2283, CHM 2046. CP: EGN 3343. Integration of previous knowledge into the definition of reactors and separation processes, through the hierarchical use of material balance, phenomenological and energy balance equations. Representation of streams as arrows and processes as black boxes in Box Flow Diagrams, BFD. Application of degree of freedom analysis.

**ECH 3242L Chemical Engineering Lab I (1) EN ECH**  
PR: ECH 3023C, ENC 3246, EGN 3443 The theory and application of chemical engineering instrumental measurement methods: density, temperature, flow, pressure, viscosity, refractive index, humidity, gaseous and liquid composition, and pH/ion selective electrodes (ISE) analysis.

**ECH 3702 Instrument Systems I (3) EN ECH**  
PR: MAP 2302 or EGN 3433, EGN 3343 and ECH 3023C or CI. Basic concepts of electric circuits and their applications. Resistors, capacitors, inductors, logic operations, junction devices. Programmable Logic controllers, ladder diagrams.

**ECH 4123 Chemical Engineering Thermodynamics (3) EN ECH**  
PR: ECH 3023, EGN 3343, MAP 2302 or EGN 3433. Correlation of thermodynamic properties of real systems and solutions. Description of multicomponent, multiphase systems in equilibrium. Applications to separation processes and reactor design.

**ECH 4243L Chemical Engineering Lab II (1) EN ECH**  
PR: ECH 4265C, ECH 3242L. Chemical Engineering processes laboratory experiments: fluid flow, heat transfer, phase and chemical equilibria, reacting systems, and process control.

**ECH 4244L Chemical Engineering Lab III (1) EN ECH**  
PR: ECH 4415C, ECH 4243L. Chemical Engineering Processes laboratory experiments: fluid flow, heat transfer, reacting systems, and process control. Majors only. Not repeatable for credit.

**ECH 4264 Transport Phenomena (4) EN ECH**  
PR: MAP 2302, EGN 3343. Mathematical description and solution of fundamental problems in heat, mass and momentum transfer. Estimation of transport coefficients. Application in fluid flow and heat exchange.

**ECH 4265C Mass Transfer Operations (4) EN ECH**  
PR: ECH 4845, ECH 4264, ECH 4123. Integration of phase equilibria with the principles of fluid mechanics, heat and mass transfer in the description of separation processes. Selection of the number of stages and limiting operating conditions in cascades — NTU and HTU. Sizing of partial condensers and pressure differential in columns. Transfer to single particles.

**ECH 4323C Process Dynamics and Control (3) EN ECH**  
PR: ECH 3702, ECH 4265C and CI. Modeling of process dynamics. Simulation of dynamic systems. Analysis and synthesis of feedback control systems. Stability. Design of feedback control systems. Concepts of advanced control systems.

**ECH 4415C Reaction Engineering (4) EN ECH**  
PR: CHM 2210, ECH 4265C. Integration of chemical equilibrium and kinetics, heat transfer and fluid mechanics into the hierarchical description of reacting systems. Analysis and selection of operating conditions and contacting models. Sizing. Restricted to department majors.

**ECH 4605 Product and Process Systems Engineering (3) EN ECH**  
PR: ECH 4264, ECH 4265C, ECH 4845 or CI. Methods of process and product cost estimation, profitability analysis, selection among

alternatives, and optimization. Uncertainty and risk analysis. Safety. Batch process design and operation. Introduction to process synthesis and product design.

**ECH 4615 Product and Process Design MW (3) EN ECH**  
PR: ECH 4415C, ECH 4605; CP: ECH 4323C. Synthesis and analysis of economically feasible and environmentally acceptable chemical processing routes; Design of safe chemical production and treatment facilities; Chemical product design; Computer Aided-Design; Case studies and Design Project

**ECH 4845 Numerical Methods in Chemical Engineering (4) EN ECH**  
PR: ECH 3023C, ECH 3343, EGN 3433 or MAP 2302. Computer usage in chemical engineering. Use of computer methods to solve chemical engineering problems. Solution of linear and nonlinear algebraic and differential equations that arise in chemical engineering. Optimization methods.

**ECH 4905 Independent Study (1-4) EN ECH**  
PR: CI. Specialized independent study determined by the student's needs and interests. Students must have contract with instructor.

**ECH 4930 Special Topics in Chemical Engineering I (1-4) EN ECH**  
PR: CC.

**ECH 4931 Special Topics in Chemical Engineering II (1-4) EN ECH**  
PR: CI.

**ECH 4936 Undergraduate Seminar (1) EN ECH**  
CP: ECH 3023C. Introduction to the profession. Career development. Information sources for Chemical Engineers. Professional organizations. Ethics in the profession. Safety and Chemical Engineering. Lifelong learning. Leadership in the profession. Legal issues.

**ECH 5320 Chemical Process Engineering I (4) EN ECH**  
PR: Bachelors degree in science, math, or engineering. The course presents the principles of mass balances, classical thermodynamics, phase equilibria, energy balances, and psychrometrics. The student will learn by doing many case studies. Computer software will be used to obtain solutions to many problems.

**ECH 5321 Chemical Process Engineering II (4) EN ECH**  
PR: Bachelors degree in science, math, or engineering. Basic concepts of fluid mechanics, including viscous fluids, pipe flow with minor losses, simple fluid machinery, momentum and external flow. Steady state conductive and convective heat transfer. Not available for chemical engineering students.

**ECH 5322 Chemical Process Engineering III (4) EN ECH**  
PR: Bachelors degree in science, math, or engineering. Basic concepts of fluid phase equilibrium, chemical equilibrium, separation processes, and chemical reactors. Not available for chemical engineering students.

**ECH 5324 Automatic Process Control II (3) EN ECH**  
PR: ECH 4323C or CI, majors only / 2 hrs lec., 3 hrs. lab/week. The course covers the root locus and frequency response methods to study stability of control loops. The techniques of ratio, cascade, feed forward, selective, override, and multi-variable control techniques are discussed in detail and shown how to utilize to design control systems, z-transforms and discrete controllers including PID, Dahlin and deadline compensation.

**ECH 5327 Chemical Process Control (4) EN ECH**  
PR: Bachelors degree in science, math, or engineering. Basic concepts of feedback control, process dynamics, process controllers (PID) including tuning, control loop stability, cascade, ratio, selective, override, feedforward, and multivariable control. Not available for chemical engineering students.

**ECH 5740 Theory and Design of Bioprocesses (3) EN ECH**  
Introduction to biotechnology, including applied microbiology, enzyme technology, biomass production, bioreactor design, and transport processes in biosystems.

**ECH 5747C Selected Topics in Chemical Engineering Biotechnology (1-3) EN ECH**  
PR: Senior or GS standing in engineering or CI. Open to majors and non-majors with CI. Selected topics in engineering in biotechnology, including cell separation technology, immobilized enzymes and cells, food engineering, biohazardous waste, and bioseparations.

**ECH 5748 Selected Topics in Biomedical Engineering (1-3) EN ECH**  
Selected topics in biomedical engineering, including biomedical engineering, biomedical materials, biodynamics of circulation, separation processes in biomedical systems, and artificial organ systems.

**ECH 5820 Product Development (2) EN ECH**  
PR: Senior or GS in Engineering or CI. Introduction to the development of consumer products, including the history of innovation, creativity

## 278 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

development, the product development environment, and a detailed examination of several product areas.

**ECH 5930 Special Topics III (1-4) EN ECH**  
PR: CI.

**ECH 5931 Special Topics IV (1-4) EN ECH**  
PR: CI.

**ECO 1000 Basic Economics SS (3) BA ECN**  
No credit after completing either ECO 2023 or ECO 2013. Survey of economic principles and issues. Scarcity, choice, markets, prices, the monetary system, unemployment, inflation, international trade and finance.

**ECO 2013 Economic Principles (Macroeconomics) SS (3) BA ECN**  
Introduction to the theory of income determination with emphasis on monetary and fiscal policies. Objectives of full employment, price stability, economic growth and balance of payments stability.

**ECO 2023 Economic Principles (Microeconomics) SS (3) BA ECN**  
Introduction to the theory of price determination. How an economy decides what to produce, how to produce, and how to distribute goods and services.

**ECO 2935 Selected Topics in Economics (1-3) BA ECN**  
Not available for credit to upper-level students admitted to the College of Business. Topics selected by department. May be repeated if topics vary.

**ECO 3101 Intermediate Price Theory (3) BA ECN**  
PR: ECO 2023. The price system and allocation of scarce resources between competing uses. May not receive credit for both ECP 3703 and ECO 3101.

**ECO 3203 Intermediate Macroeconomics (3) BA ECN**  
PR: ECO 2013 and ECP 3703 or ECO 3101 with a grade of "C" or better. Determination of income, employment, prices, and interest rates. Aggregate demand and aggregate supply.

**ECO 3622 American Economic History (3) BA ECN**  
PR: ECO 2013 and ECO 2023. Growth and evolution of American economic institutions from Colonial times to the present.

**ECO 3703 International Economics MW (3) BA ECN**  
PR: ECO 2013 and ECO 2023. Role of international trade in the U.S. economy. Gains from trade, balance of payments, exchange rate determination, balance of payments stability, and international commercial policy.

**ECO 4105 Advanced Price Theory (3) BA ECN**  
PR: ECP 3703 or ECO 3101 with a grade of "B" or better. An advanced survey of special topics in microeconomics: borrowing and saving, decision making under uncertainty, markets for capital and labor, game theory, production and exchange efficiency, social welfare, and efficiency consequences of market and non-market allocation.

**ECO 4201 Advanced Macroeconomic Theory (3) BA ECN**  
PR: ECO 3203 with a grade of "B" or better. An advanced analysis of a particular topic or topics in macroeconomics. Areas of study include the theories of money, growth, and business cycles. Discussions of how such theories accord with the data are also presented.

**ECO 4270 Economic Growth (3) BA ECN**  
PR: ECO 3101 or ECP 3703. This course provides an introduction to the theory of economic growth, the process whereby the level of real output per capita increases over time. Emphasis is on the role of factor accumulation and productivity growth and their underlying fundamentals.

**ECO 4303 History Of Economic Thought (3) BA ECN**  
PR: ECO 2013 and ECO 2023. Development of economic thought from Plato to Marshall.

**ECO 4323 Radical Political Economy MW (3) BA ECN**  
PR: ECO 1000 or ECO 2013 or ECO 2023 or CI. The radical (left) and Marxist schools of thought in economics. Application of radical theory to problems of advanced capitalist and socialist societies.

**ECO 4401 Introduction to Mathematical Economics (3) BA ECN**  
PR: ECP 3703 or ECO 3101, and MAC 2241 or MAC 2233 or CI. Mathematical models of optimizing behavior and economic equilibrium.

**ECO 4421 Introduction to Econometrics (3) BA ECN**  
PR: ECP 3703 or ECO 3101, and QMB 3200 with a grade of "B" or better or CI. Survey of basic econometric techniques. Regression analysis employed to estimate consumption, investment, demand, cost, and production functions. Examines problems of autocorrelation, heteroscedasticity, multicollinearity, and specification errors.

**ECO 4504 Public Finance (3) BA ECN**  
PR: ECP 3703 or ECO 3101 with a grade of "C" or better. The public sector and its contribution to economic welfare. Government

expenditures and revenues. Resource allocation, income distribution, stabilization, and economic growth.

### **ECO 4704 International Trade and Policy (3) BA ECN**

PR: ECP 3703 or ECO 3101 with a grade of "C-" or better. Advanced analysis of international trade theory and commercial policy, international economic integration, multinational enterprise.

### **ECO 4713 International Macroeconomics (3) BA ECN**

PR: ECP 3703 or ECO 3101 with a grade of "C-" or better. Advanced analysis of international macroeconomic relationships. Foreign exchange market, international monetary system balance of payments.

### **ECO 4905 Independent Study (1-3) BA ECN**

PR: CI. S/U only. Specialized independent study determined by the student's needs and interests. May be repeated up to 6 hours.

### **ECO 4914 Independent Research (1-3) BA ECN**

PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 6 hours.

### **ECO 4935 Selected Topics in Economics (1-3) BA ECN**

Topics to be selected by the instructor or instructors on pertinent economic issues.

### **ECP 3201 Economics of Women and Work MW (3) BA ECN**

PR: ECO 1000 or ECO 2013 and ECO 2023. Survey of research on women, men and work in the labor market and the household. Focuses on the economic status of women. Includes historical perspective, examination of the family as an economic unit, changing work roles, and gender differences in occupation and earnings.

### **ECP 3203 Labor Economics (3) BA ECN**

PR: ECP 3703 or ECO 3101 with a grade of "C-" or better. Determinants of wage and employment levels; occupational, industrial and geographical wage differentials; union and public policy effects on labor markets; the economics of discrimination; inflation, and unemployment.

### **ECP 3302 Environmental Economics MW (3) BA ECN**

PR: ECO 2023. An economic analysis of environmental issues. The economics of resource use and pollution control are examined using the concepts of externalities, cost-benefit analysis, public goods, and property rights.

### **ECP 3413 Economics of Regulation and Antitrust (3) BA ECN**

PR: ECO 2013 and ECO 2023. Economic analysis of the rationale and performance of government regulation and antitrust policy. Examination of antitrust issues such as price fixing, mergers, and monopolization, and issues regulating electric utilities, airlines, trucking, consumer product safety, product quality, and the environment.

### **ECP 3530 Economics of Health (3) BA ECN**

PR: ECP 3703 or ECO 3101 with a grade of "C-" or better. Application of economic methods to health care topics such as demand for medical care, public and private health insurance, physician and hospital supply of medical care, government regulations, and national healthcare systems.

### **ECP 3613 Economics of the Urban Environment MW (3) BA ECN**

PR: ECO 1000 or ECO 2013 or ECO 2023 or CI. Economic analysis of cities and urban social problems. Poverty, discrimination, housing, transportation, pollution, crime, and fiscal considerations.

### **ECP 3703 Managerial Economics (3) BA ECN**

PR: ECO 2023. Application of microeconomic theory to problems in business decision making with a special focus on price determination. May not receive credit for both ECP 3703 and ECO 3101. Formerly ECO 3100.

### **ECP 4006 Economics of Sports (3) BA ECN**

PR: ECO 3101 or ECP 3703. This course teaches economics using sports as a backdrop. Topics covered include the economics of labor markets, exploitation, discrimination, monopoly, monopsony, game theory, bargaining, and cartels. No particular knowledge of sports is required.

### **ECP 4232 Collective Bargaining and Public Policy (3) BA ECN**

PR: ECO 2023 or CI. Administration of labor management agreements. Impact of the government role in collective bargaining and labor relations.

### **ECP 4451 Law and Economics (3) BA ECN**

PR: ECO 2013 and ECO 2023. Advanced analysis of the economic impact of tort, criminal, property, and contract law as well as in the formation and adjudication of law.

### **ECP 4505 Economics of Crime (3) BA ECN**

PR: ECO 2013 and ECO 2023. Application of economic theory to the analyses of criminal behavior, crime prevention, law enforcement, sanctions, and corrections.

## ECP 4708 Economics of Business Strategy (3) BA ECN

PR: ECO 3101 or ECP 3703. This course examines strategies businesses can employ to improve their abilities to compete profitably. Employs game theory to examine horizontal and vertical boundaries of firm, strategic diversification, pricing, and entry deterrence.

## ECS 3013 Economic Development (3) BA ECN

PR: ECO 2013 and ECO 2023. Economic development in emerging nations.

## ECS 4003 Comparative Economic Systems MW (3) BA ECN

PR: ECO 1000 or ECO 2013 or ECO 2023 or CI. The major economic systems: traditional, capitalism, democratic socialism, communism and fascism.

## ECS 4430 Economics of Latin America AF MW (3) BA ECN

PR: ECO 1000, or BOTH ECO 2013 and ECO 2023. The course examines key aspects of economic reform efforts in Latin America and the Caribbean and the challenges facing the region at the beginning of the 21st century.

## EDE 4223 Creative Experiences for the Child (3) ED EDE

PR: Acceptance into College of Education. Provides students with critical understanding of visual arts, music, movement, and drama in K-6 curriculum. Students will develop knowledge and strategies to incorporate creative expression into integrated curriculum. Restricted to majors. Not repeatable.

## EDE 4301 Classroom Management, School Safety, Ethics, Law and Elementary Methods (3) ED EDE

PR: Admission to the program in the Department of Childhood Education. This course examines the legal issues affecting classroom/school management, school safety, professional ethics and elementary school methods. The course explores the current knowledge of best practices of a variety of teaching and management strategies and methods deemed appropriate for a diverse elementary classroom setting including ESOL students and other exceptionalities.

## EDE 4905 Independent Study: Elementary Education (1-4) ED EDE

S/U only. Specialized independent study determined by the student's needs and interests.

## EDE 4909 Directed Study: Elementary Education (1-3) ED EDE

PR: Senior standing. To extend competency in teaching field.

## EDE 4940 Internship: Elementary Education (10-12) ED EDE

PR: EDE 4941 and EDE 4942; CR: EDE 4936. S/U only. Teacher candidate is required to demonstrate professional competencies during one semester of full day internship in a public or private elementary school.

## EDE 4941 Childhood Education Internship Level I (3) ED EDE

PR: Admission to the Elementary Education. CR: RED 4310, EDG 4620. Concurrent enrollment in EDG 4620-Elementary section. S/U only. Students spend six hours per week in a supervised in-school experience and attend weekly seminar.

## EDE 4942 Childhood Education Internship Level II (6) ED EDE

PR: EDE 4941, RED 4310, EDG 4620, EDF 3122, LAE 4314, EDE 4301, MAE 4310, SCE 4310, LAE 4414, SSE 4313, EME 2040. S/U only. Students spend 12 hours per week in a supervised internship experience in classroom settings and attend a weekly seminar.

## EDF 2005 Introduction to Education and Field Experience (3) ED EDC

Introductory survey course required for admission into the College of Education. A broad overview of the history, sociology and philosophy of education in the United States focuses on education as a field of study and teaching as a profession. Includes lecture and field experience.

## EDF 3122 Learning and the Developing Child (3) ED EDF

PR: General psychology and admission to College of Education. Preadolescent child growth and development, learning theory, and behavioral analysis applied to instruction and to the organization and management of classroom.

## EDF 3214 Human Development And Learning (3) ED EDF

PR: General psychology and admission to College of Education. Application of respondent and operant learning principles to classroom learning, teaching models for different instructional goals, analysis of teacher behavior, micro-teaching.

## EDF 3228 Human Behavior and Environmental Selection 6A MW (3) EDEDF

Learning principles, behavior analysis applied to global environmental and social issues. Requires elementary computer word processing skills.

## EDF 3514 History of Education in the United States HP MW (3) EDEDF

PR: Upper-division standing. History of childhood, education, and schooling in the U.S. from early European and African contact to the present.

## EDF 3604 Social Foundations of Education MW (3) ED EDF

PR: Upper level standing. Social, economic and political context within which schools function and the values which provide direction for our schools.

## EDF 4111 Child Growth and Learning (3) ED EDF

An introduction to child development and learning from an educational and psychological perspective. Emphasis is on the application of relevant constructs as they would reflect developmentally appropriate practices in early childhood learning settings.

## EDF 4131 Learning And The Developing Adolescent (3) ED EDF

PR: General psychology and admission to College of Education. Adolescent growth and development, learning theory, and behavioral analysis applied to instruction and to the organization and management of the classroom.

## EDF 4430 Measurement For Teachers (3) ED EDQ

PR: Upper level standing. Concepts and skills related to designing and developing classroom tests; evaluating tests, instruction, and student progress; and communicating student achievement. Including application of performance assessment techniques and computer applications for measuring and assessing pupil progress.

## EDF 4490 Studies in Research Design (3) ED EDQ

Studies in Research Design introduces students to the logic and dynamics of the research process.

## EDF 4905 Independent Study: Educational Foundations (1-4) EDEDF

PR: DPR. S/U only. Specialized independent study determined by the student's needs and interests.

## EDF 4909 Directed Study: Educational Foundations (1-3) ED EDF

PR: Senior Standing. Offered only as a scheduled class. To extend competency in teaching field.

## EDF 5607 Trends in the Social-Political Foundations of Schooling in the US (3) ED EDF

Current debates re: purpose and practice of formal schooling in the U.S. with historical and sociological perspectives. Satisfies social foundations requirements for Fla. Teacher certification and ESL competency in knowledge of intercultural issues in education.

## EDG 2701 Teaching Diverse Populations and Field Experience (3) ED EDC

Introductory survey course required for admission into the College of Education. Places schools and teaching within the context of the U.S. as a pluralistic society. Topics include: the demographics of diversity; prejudice; elements of culture; American heritage of diversity and its value; and barriers to cultural understanding. Includes lecture and field experience.

## EDG 4012 Standards Based Education (1) ED EDE

PR: FLE 4317 for undergraduate, FLE 5345 for graduate students. This course is designed to introduce students to standards-based education, linking program outcomes for student learning with the relevant state and national educational standards. The course is restricted to majors and is not repeatable for credit.

## EDG 4320 Introduction to Creative Drama (3) VP EDD

This course for classroom teachers introduces the theory and practice of creative drama as it applies to use by elementary, middle school and secondary school teachers. Beginning with a study of dramatic play as it relates to human development, the course includes basic strategies when using pantomime, voice improvisation, theatre games, and role playing and story dramatization.

## EDG 4620 Curriculum and Instruction (3) ED EDC

An introduction to the field of curriculum and instruction. Emphasis is placed on principles of curriculum development and use of instructional strategies. Students will develop, implement, and evaluate a variety of lesson plans.

## EDG 4909 Directed Studies (1-4) ED EDC

PR: Senior standing. Offered only as a scheduled class. Department permit required. To extend competency in teaching field.

## EEC 2000 Introduction to Early Childhood Education (3) ED EDU

An overview of early childhood education with emphasis on its historical development, current theories, and practices.

## EEC 4008 Literature in Early Childhood Education 6A LW (3) ED EDU

Jr./Sr. Standing. Emphasis is placed on developing knowledge of literature for younger children (0-8 yrs.) and methodologies and strategies for utilizing literature to teach literacy in content areas of the curriculum.

## EEC 4203 Programs for Young Children (3) ED EDU

PR: Admission to College of Education. Early Childhood majors only. Develops students' understanding of historical and social foundations of early childhood education, establishing professional beliefs regarding teaching young children, and developing an appropriate learning environment.

**EEC 4211 Integrated Curriculum: Science and Mathematics (3) EDEDU**

PR: Admission to College of Education, EDF 4111. Early Childhood majors only. Develops an understanding of science and mathematical concepts for the appropriate stages of cognitive development of young children. Emphasis will be placed on how science and mathematics are integrated throughout the curriculum and become valued functional tools.

**EEC 4212 Integrated Curriculum: Social Sciences/Humanities & Art (3) ED EDEU**

PR: Admission to College of Education, EDF 4111. Early Childhood majors only. Develops an understanding of appropriate curriculum experiences in social science, humanities, and arts for kindergarten and primary grades with an emphasis on integrated experiences, and sociological influences such as culture, ethnicity, language and gender impact understandings, values, and learning.

**EEC 4303 Creative and Affective Experiences for Young Children (3) ED EDEU**

PR: Admission to College of Education. Early Childhood majors only. Develops students' understandings of young children's creative expression through art, music, movement, play and drama. Emphasizes how to plan, implement, and evaluate appropriate learning experiences as well as selection of appropriate instructional materials.

**EEC 4307 Cognitive Experiences for Young Children (3) ED EDEU**

PR: Admission to College of Education, EDF 4111. Early Childhood majors only. Emphasizes theoretical and practical aspects of cognitive development for children ages 3 through 6 with focus on planning integrated experiences and content in science, mathematics, and social sciences.

**EEC 4408 Child, Family & Teacher Relations (3) ED EDEU**

PR: Admission to College of Education, EDF 4111. Early Childhood majors only. Focuses on developing an understanding of traditional and non-traditional families, structural and life style variations and parenting in diverse cultures and at-risk families. Implications from these understandings will guide development of a parent involvement plan that includes effective ways to communicate with parents, conference with parents, and plan parent meetings and home visits.

**EEC 4706 Language and Emerging Literacy (3) ED EDEU**

PR: Admission to College of Education, EDF 4111. Early Childhood majors only. Provides knowledge of language development and emerging literacy for typical and atypical development in children from birth to third grade, including ESOL children.

**EEC 4905 Independent Study: Early Childhood Education (1-4) EDEDU**

PR: S/U only. Early Childhood majors only. Specialized independent study determined by the student's needs and interests.

**EEC 4909 Directed Study: Early Childhood Education (1-3) ED EDEU**

PR: Senior standing. To extend knowledge in teaching field.

**EEC 4936 Senior Seminar in Elementary Early Childhood Education (2) ED EDEU**

PR: Senior standing; CR: EEC 4940. Synthesis of teacher candidate's courses in complete college program.

**EEC 4940 Internship: Early Childhood (10) ED EDEU**

CR: EEC 4936. S/U only. Teacher candidate is required to demonstrate professional competencies during one semester of full-day internship in a public or private elementary school.

**EEC 4941 Field Experience I (3) ED EDEU**

PR: Admission to College of Education. Early Childhood majors only. Field placement with three and four year olds where teacher candidates have opportunities to apply knowledge and skills in authentic situations and become objective observers of young children's development. Weekly seminars are conducted in conjunction with the field experience which provide teacher candidates an opportunity for reflection on their understandings.

**EEC 4942 Field Experience II (3) ED EDEU**

PR: Admission to College of Education, EDF 4111. Early Childhood majors only. Field placement in kindergarten or primary grade where teacher candidates have opportunities to apply knowledge and skills in authentic situations. Emphasis on developing deeper understanding of children's development and implications of development for program planning for both typical and atypical children.

**EEC 4943 Field Experience III (3) ED EDEU**

PR: Admission to College of Education, EDF 4111. Early Childhood majors only. Field placement in kindergarten or primary grade where teacher candidates have opportunities to apply knowledge and skills in authentic situations. Focus on developing deeper understanding of growth and development and relationship to

curriculum planning with an emphasis on self-evaluation of knowledge, skills, and dispositions essential for teaching.

**EED 4011 Introduction to Behavior Disorders (3) ED EDS**

PR: EEX 4011, or equivalent or DPR. Survey of emotional, behavioral and social disorders in children and youth. History of the field, definitions, classifications, theoretical approaches, intervention techniques, classroom management, service delivery models, trends and issues.

**EED 4909 Directed Study: Behavior Disorders (1-3) ED EDS**

PR: Senior standing, DPR. To extend competency in teaching field.

**EED 4941 Undergraduate Supervised Practicum in Behavior Disorders (1-6) ED EDS**

PR: EEX 4011. S/U only. DPR. Supervised field experience in assessment, classroom management, and clinical teaching with children who have emotional and behavioral disabilities.

**EEL 2161 Electrical Engineering Computer Methods (3) EN EGE**

Use of computers to perform analysis, simulation, and design of Electrical Engineering systems. Use of computer systems, including Internet resources. Use of analytical software. Computer programming in C++ for the solution of Electrical Engineering problems.

**EEL 3100 Network Analysis and Design (3) EN EGE**

PR: EGN 3420 with a minimum grade of C and EGN 3374 with a minimum grade of B. A third course in linear circuit analysis and design. Transient and steady-state responses of passive RLC networks to various functions.

**EEL 3302 Electronics I (3) EN EGE**

PR: EGN 3373 with a minimum grade of B. A course in the physical principles of electronic devices with emphasis on semi-conductor electronics. Includes the analysis and design of amplifiers and switching circuits.

**EEL 3394 Electronic Materials (3) EN EGE**

PR: CHM 2045, PHY 2049. This course provides electrical engineering students with a background in material science and quantum physics as these apply to electrical/electronic material properties.

**EEL 4030 Electrical Systems Environments (3) EN EGE**

PR: MAP 2302 and PHY 2049 or CC. Dynamics, vibration, thermodynamics, and heat transfer in electrical, electronic, and electromechanical systems and their environments.

**EEL 4102 Linear Systems Analysis (3) EN EGE**

PR: EGN 3420 with a minimum grade of C and EGN 3374 with a minimum grade of B. Provides further study in the analysis of linear networks and systems. Includes time and frequency domain points of view. Laplace, Fourier and superposition integrals.

**EEL 4163 CAD and Analysis (2) EN EGE**

The emphasis is upon applications and how to use the major CADA programs as effective tools to solve a wide variety of engineering problems. The coverage includes solid state design, systems analysis, digital logic, and transfer function solutions.

**EEL 4243 Switching Power Supply Design (3) EN EGE**

PR: EEL 4301 Provides the basic principles of switching power supply circuits: magnetic circuits, power semiconductors, Buck, Boost, and Flyback configurations, dc to dc converters, dc to ac inverters. Requires the design and construction of a switching power supply.

**EEL 4301 Electronics II (3) EN EGE**

PR: EEL 3302. Provides further study in electronic circuits. Includes feedback and frequency response techniques in amplifier design.

**EEL 4305 Communications Electronics (3) EN EGE**

PR: EEL 4301 Provides the basic principles of RF communications circuits including oscillators, mixers, high frequency amplifiers, etc. Requires the design and implementation of a short range communications link including a transmitter and a superheterodyne receiver.

**EEL 4351C Semiconductor Devices (3) EN EGE**

PR: EEE 3394. An introduction to the fundamentals of semiconductor materials and semiconductor device operation.

**EEL 4420 RF & Microwave Measurements (2-3) EN EGE**

PR: EEL 4316L or CI. This course introduces students to the theory and applications of modern radio frequency and microwave measurements. Topics to be included are network analyzer, spectrum analyzer, noise, power, and non-linear distortion measurements. Modern trends also treated are the use of on-wafer measurements for transistor characterization and the evaluation of monolithic microwave integrated circuits.

**EEL 4421 RF/Microwave Circuits I (3) EN EGE**

PR: EEL 3100, EEL 4471. Introduction to passive microwave circuit design. Investigate the characteristics of transmission lines used in modern microwave systems, the tools used for analysis, and some common circuit topologies for matching, filtering and power

- distribution. Part one of a two-part sequence. EE majors only. Not available on an S/U basis.
- EEL 4422 RF/Microwave Circuits II (3) EN EGE**  
PR: EEL 4421. Introduction to active RF/Microwave circuit design. Investigate the characteristics of amplifiers and oscillators used in modern microwave systems, the tools used for analysis, and some common circuit topologies for biasing and matching. Substantial coverage of stability analysis, constant gain methods and noise figure. Part two of a two-part sequence. EE majors only. Not available on an S/U basis.
- EEL 4471 Electromagnetics MW (3) EN EGE**  
PR: MAP 2302 or EGN 3433, PHY 2049, PHY 2049L and EGN 3373 with a minimum grade of B. Electromagnetic field theory, including static and dynamic electromagnetic fields; applications; environmental effects (effects of radiation, magnetic fields).
- EEL 4512C Introduction to Communication Systems (3) EN EGE**  
PR: EEL 3100. Provides an introduction to the fundamental principles and techniques of analog and digital communication systems. Theory is put into practice by investigating a variety of applications. Lectures and projects develop understanding of modern communication systems design and analysis.
- EEL 4567 Electro-Optics (3) EN EGE**  
PR: ELR 3301L, ELR 3302L, EEL 4471. An introduction to the field of electro-optics, including visible and infra-red sources and detectors, radiometry, optical and electronic components, and fiber optics.
- EEL 4657 Linear Control Systems (3) EN EGE**  
PR: EEL 3100. Introduction to analysis and design of linear feedback control systems. Covers block diagram, flow charts. Bode, Nyquist, and root locus techniques.
- EEL 4657L Linear Controls Laboratory (1) EN EGE**  
PR: EEL 3100; CR: EEL 4657. This laboratory introduces students to the techniques needed for the design and implementation of automatic industrial control systems. Students will learn the basics of the software and hardware used for the design and implementation of control systems.
- EEL 4705 Logic Design (3) EN EGE**  
PR: EGN 3373 with a minimum grade of B for EE students only. Binary number systems; truth functions; Boolean algebra; canonical forms; minimization of combinational logic circuits; synchronous logic circuits in computers.
- EEL 4705L Logic Laboratory (1) EN EGE**  
CR: EEL 4705. Develop designs and demonstrate logic concepts. Schematic capture for design implementation, simulation and design verification.
- EEL 4743L Microprocessor Laboratory (1) EN EGE**  
CR: EEL 4744. Application of microprocessors and microcontrollers for data entry, processing, display and real time signal input/output and control.
- EEL 4744 Microprocessor Principles and Applications (3) EN EGE**  
PR: EEL 4705. Functional Description. Arithmetic and Logic capabilities. Control and Timing. Interrupts and priority systems. Software design and documentation. Distributed function processing.
- EEL 4748 Microprocessor-Based System Design and Application (3) EN ESB**  
PR: CDA 3201, CDA 3201L. Study of techniques for design of microprocessor-based systems used in various applications. Includes a project on development of an experimental application system.
- EEL 4756 Digital Signal Processing (3) EN ESB**  
PR: EEL 4102. Sampling and quantization of signals; frequency-domain representations, transforms; digital filtering filter structures; DFT, FFT; multi-rate processing, Spectral analysis
- EEL 4781C Distributed Processing and Computer Networks (3) EN ESB**  
PR: EEL 4851C. Design and analysis of distributed processing systems. Covers communication hardware and software, network operating systems, and reliability enhancement techniques.
- EEL 4782 Computer Information Networks for Information Technology (3) US EIT**  
The course covers concepts of computer networks. Physical and logical structures are presented. Physical media, circuit switching, data flow, high-level protocols, and the ISO model are discussed. Bus, ring, star, and wireless topologies are presented.
- EEL 4782L Information Networks Laboratory for Information Technology (1) US EIT**  
CR: COP 4610 or CI. The lab section of this course will allow students to apply hardware and software concepts discussed in the lecture portion of the class. Special isolated networking labs provide both software and hardware tools for student experimentation.
- EEL 4851C Data Structures (3) EN ESB**  
PR: CDA 3103, COP 3514 and Degree Program Admission. CSE majors only. Understand and implement fundamentals of concise data structure and organization for program efficiency, clarity and simplification. Implementation of different data types and structures. Understanding of current data structures.
- EEL 4852C Data Base Systems (3) EN ESB**  
PR: EEL 4851C. Fundamentals of data base management systems. CODASYL, network, hierarchical, and relational data base systems are analyzed, and typical applications are presented.
- EEL 4854 Data Structures and Algorithms for Information Technology (3) US EIT**  
PR: COP 3515 or CI. Representing data for manipulation by the computer is studied. Design and analysis of well-known data structures and algorithms to manipulate them, are studied. Program efficiency, clarity and speed are considered in various structures and algorithms.
- EEL 4905 Independent Study (1-5) EN EGE**  
PR: CI. S/U only. Specialized independent study determined by the students' needs and interests.
- EEL 4906 Professional Issues and Engineering Design MW (3) ENEGE**  
CR: EEL 4301, EEL 4512C, EEL 4657, EEL 4744. An introduction of engineering design with applications specific to practical engineering problems. Included are discussion of real-world issues as economics, safety, ethics and the environment.
- EEL 4914 Senior Project Design (3) EN EGE**  
PR: EEL 4906 and Senior Standing, CI. Students apply the knowledge acquired in the classroom to design a system which meets a predetermined set of specifications. Students work individually or in small groups with a faculty member (project director) in their area of interest. (Majors only.)
- EEL 4935 Special Electrical Engineering Topics I (1-4) EN EGE**  
**EEL 4936 Special Electrical Engineering Topics II (1-4) EN EGE**  
**EEL 4937 Special Electrical Engineering Topics III (1-4) EN EGE**  
**EEL 5250 Power System Analysis (3) EN EGE**  
PR: EGN 3375. Analysis and design technique for AC power systems.
- EEL 5344C Digital CMOS/VLSI Design (3) EN EGE**  
PR: EEL 4705 or GS. Design, layout, simulation, and test of custom digital CMOS/VLSI chips, using a CMOS cell library and state-of-the-art CAD tools. Digital CMOS static and dynamic gates, flip flops, CMOS array structures commonly used in digital systems. Top down design example of a bit slice processor.
- EEL 5356 Integrated Circuit Technology (3) EN EGE**  
PR: EEL 4351 or GS. Physics and Chemistry of integrated circuit and discrete device fabrication, materials limitations, processing schemes, failure and yield analysis. A laboratory is integral to the course.
- EEL 5357 Analog CMOS/VLSI Design (3) EN EGE**  
PR: EEL 4301 or GS. Design of analog circuits for CMOS/VLSI design. Op amps, comparators, D to A and A to D converters. Switched capacitor filters. Analog simulation.
- EEL 5382 Physical Basis Of Microelectronics (3) EN EGE**  
PR: EEL 4471 or GS. Quantum mechanics with emphasis on electronic properties in atoms, molecules, and crystals; quantum statistics; energy band theory; crystal structures; defect chemistry; semiconductor properties.
- EEL 5462 Antenna Theory (3) EN EGE**  
PR: EEL 4471 or GS. Antenna theory beginning with fundamental parameter definitions and continuing with mathematical concepts, elemental antennas and arrays.
- EEL 5572C Local and Metropolitan Area Networks (3) EN EGE**  
PR: EEL 4512C or GS. Basics of data communication exchange of digital information over communication media; Basics of LANs/ MANs and its components: media topologies, access methods, etc.; LAN/MAN architectures and protocols-IEEE 802.xLAN Standards; High speed LANs such as FDDI, IEEE 802.6 MAN, etc., Internetworking; LAN/MAN Design and selections.
- EEL 5594L Wireless Circuits and Systems Laboratory (2) EN EGE**  
PR: EEL 4472. This class will provide introductory tutorial learning, plus hands-on experience in analysis, design and measurement in the field of wireless communications.
- EEL 5631 Digital Control Systems (3) EN EGE**  
PR: EEL 4657 or GS. Sample data and digital control processes
- EEL 5754C Microprocessor Based Digital Signal Processing (3) ENEGE**  
PR: EEL 4705 or CI. Arithmetic systems, processing structures, efficient algorithms. DSP hardware, TI, NEC and other DSP

## 282 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

- microprocessors; multiprocessing hardware and software. System development. Application to telecommunications and voice processing.
- EEL 5771 Introduction to Computer Graphics I (3) EN ESB**  
PR: EEL 4851C. An introduction to the evolution of computer graphics including point-plotting, line drawing, two-dimensional transformations and graphics software packages.
- EEL 5935 Special Electrical Engineering Topics I (1-3) EN EGE**  
**EEL 5936 Special Electrical Engineering Topics II (1-3) EN EGE**  
**EEL 5937 Special Electrical Engineering Topics III (1-3) EN EGE**
- EEX 4011 Foundations of Special Education (3) ED EDS**  
PR: DPR. CR: EEX 4941. Characteristics and needs of children who have learning disabilities, emotional disabilities, hearing impairments, mental retardation, physical handicaps, speech impairments, visual limitations, and who are gifted and talented.
- EEX 4054 Perspectives on Learning and Behavioral Differences (3) ED EDS**  
PR: EEX 4011. The purpose of this course is to introduce students to the historical and theoretical perspectives on educating students with learning and behavioral differences, develop a critical understanding of current practices in service delivery systems, and examine professional issues and trends that impact the future of the field.
- EEX 4070 Integrating Exceptional Students in the Regular Classroom (2-3) ED EDS**  
No credit for department majors. Designed for non-special education majors. Includes basic identification techniques and strategies to promote academic and social integration and interaction of "mainstreamed" exceptional students. Concurrent field experience projects are included.
- EEX 4221 Educational Assessment of Exceptional Students (3) ED EDS**  
PR: EDF 3214, EDF 4430 and EEX 4011. CR: EEX 4941 and EEX 4846. DPR. Introduction to assessment of exceptional students through formal and informal techniques. Emphasis placed on the interpretation of information for educational programming and individualization of instruction.
- EEX 4243 Education of Exceptional Adolescents and Adults (3) ED EDS**  
PR: EEX 4011 or equivalent or DPR. Procedures for implementing educational programs for exceptional adolescents and adults. Topics include service delivery, curriculum, academic remediation, advocacy, utilization of ancillary services, alternative programs and community resources.
- EEX 4604 Behavior Management for Special Needs and At-Risk Students (3) ED EDS**  
PR: EEX 4011. CR: EEX 4941, ELD 4941, or EMR 4941. Techniques to prevent, analyze, and manage challenging and disruptive classroom behavior as well as teaching social skills.
- EEX 4742 Narrative Perspectives on Exceptionality: Cultural and Ethical Issues 6A LW (3) ED EDS**  
DPR. This course is designed to use literature as a way to interpret the lives of individuals with disabilities, their families and those who play an educational role in their lives. The course also addresses cultural and ethnic diversity so as to better analyze the role of ethics and values in decisions made pertaining to individuals with disabilities.
- EEX 4846 Clinical Teaching in Special Education (3) ED EDS**  
PR: EEX 4011, DPR. CR: EEX 4941. Effective teaching principles, instructional management procedures, and specialized teaching techniques for exceptional students.
- EEX 4905 Independent Study: Exceptional Student Education (1-3) ED EDS**  
PR: DPR. S/U only. Specialized independent study determined by the student's needs and interests.
- EEX 4909 Directed Study: Exceptional Student Education (1-3) ED EDS**  
PR: Senior standing, DPR. To extend competency in teaching field.
- EEX 4936 Senior Seminar in Exceptional Student Education (1) ED EDS**  
PR: Senior standing; CR: EEX 4940. Required concurrently with internship. Synthesis of teacher candidate's courses in complete college program.
- EEX 4940 Internship: Exceptional Student Education (1-12) ED EDS**  
CR: EEX 4936. S/U only. One full semester of internship in an accredited public or private school.
- EEX 4941 Practicum in Exceptional Student Education (1-4) ED EDS**  
CR: Sem I: EEX 4011; Sem II: EEX 4604; Sem III: EEX 4221 and EEX 4846. Designed to provide teacher candidates with carefully planned and supervised clinical experiences with exceptional

students populations in a variety of settings. Candidates demonstrate the ability to apply concepts, theories and research. Repeatable up to six credit hours.

- EEX 5705 Seminar in Preschool Handicapped (2) ED EDS**  
Intended to familiarize the education student with the wide range of needs and services of the preschool children with disabilities and their families and how they coordinate with educational services.
- EEX 5752 Working With Families: A Pluralistic Perspective (3) ED EDS**  
PR: Introductory course in special education, GS. The impact of the socio/cultural environment on the education of at-risk children and children with disabilities; family systems theory, principles of multi-cultural education, strategies for working effectively with families of school-age children, diverse cultures and family structures represented in school populations today.
- EGI 4941 Undergraduate Supervised Practicum in Gifted Student Education (1-6) ED EDS**  
Organized, supervised experiences with gifted children. Specific experiences may be either a combination of observation and assistance with gifted children or individualized projects.
- EGI 5051 Nature and Needs of the Gifted (3) ED EDS**  
This survey course examines the characteristics and educational needs of children and youth who are gifted, including those from special populations. Emphasis is on giftedness as defined historically, nationally and locally. The course also explores changing views of intelligence and talent development related to policy and practice in gifted education as well as the processes of identification and programming.
- EGI 5325 Theory and Development of Creativity (3) ED EDS**  
Exploration of the concept of creativity, its factors, measurement, and application to education. Opportunities are given to work with children in a laboratory setting and to prepare materials to be used with small groups of children.
- EGN 2031 History of Technology HP (3) EN EGB**  
Covers the evolution of technology and its influence on society from pre-historic man to the modern day. Topics include: seven technological ages of man, methods of producing power, materials, transportation, communication and calculation, and technology and society.
- EGN 2080 Light and the Arts: A Quantitative Approach FA (3) EN EGB**  
Physical and aesthetic aspects of light. Elementary physics of light sources, waves and photons, human vision. Color and intensity effects in well-known paintings, photographs, films. Theatrical lighting. Holography.
- EGN 2081 Circuit Mathematics and Physics (2) EN EGB**  
Remedial work on the mathematical and physical concepts that are necessary for EGN 3373. Differentiation and integration, complex numbers, phasors, vectors, the physical laws for resistors, capacitors, and inductors.
- EGN 2082 History of Electrotechnology HP (3) EN EGB**  
Highlights of the history of electrotechnology and its relation to the development of civilization. The contributions of Volta, Faraday, Morse, Bell, Hertz, Marconi, Franklin, etc. in the context of the development of western civilization. The impact of communications, electronics and computers in the twenty-first century.
- EGN 2210 Computer Tools for Engineers (3) EN EGB**  
PR: MAC 2281. Students will be introduced to computer based engineering tools and their application to the solution of engineering problems. The programming language, FORTRAN, will be the most emphasized tool, but coverage will also be given to other engineering/mathematical tools such as equation solving tools and spreadsheets.
- EGN 3000 Foundations of Engineering (1) EN EGB**  
Introduction to the profession of engineering. Exposure to the different disciplines of engineering incorporate examples of tools and techniques used in design and presentation.
- EGN 3311 Statics (3) EN EGB**  
PR: PHY 2048. Principles of statics, mechanical equilibrium, forces, moments, plane trusses. Lec-pro.
- EGN 3321 Dynamics (3) EN EGB**  
PR: EGN 3311. Dynamics of discrete particles; kinematics and kinetics for rigid bodies. Lec.
- EGN 3331 Mechanics of Materials (3) EN EGB**  
PR: EGN 3311. Stress, strain, Hooke's Law; torsion, beam, column analysis; combined stresses; inelastic effects, limit design. Lec.
- EGN 3331L Mechanics of Materials Laboratory (1) EN EGB**  
PR: EGN 3331. CR: EGN 3365. Experiments in mechanics of deformable bodies with integrated materials component. Lab.

## EGN 3343 Thermodynamics I (3) EN EGB

PR: PHY 2049. Axiomatic introduction to thermodynamic concepts of energy, entropy, work and heat. Properties of ideal and real substances. Applications: power production and refrigeration, phase equilibria.

## EGN 3353 Basic Fluid Mechanics (3) EN EGB

PR: EGN 3311, CR: EGN 3321. Fundamental and experimental concepts in ideal and viscous fluid theory; momentum and energy consideration, introduction to hydraulics, pipe flow. Lecture.

## EGN 3358 Thermodynamics, Fluids, and Heat Transfer (4) EN EGB

PR: PHY 2049. Thermodynamic concepts of energy, entropy, work and heat and thermodynamic cycles. Basic concepts of fluid mechanics, including viscous fluids, pipe flow with minor losses, simple fluid machinery, momentum and external flow. Steady state conductive and convective heat transfer.

## EGN 3365 Materials Engineering I (3) EN EGB

PR: CHM 2046; CR: EGN 3311. Structure and property relationships in engineering materials, i.e., metal, ceramic and polymer systems. Environmental effects are also treated.

## EGN 3373 Introduction to Electrical Systems I (3) EN EGB

PR: PHY 2049, PHY 2049L, CR: MAP 2302. A course in AC and DC linear circuit analysis. Transient and steady-state analysis. Polyphase circuits.

## EGN 3374 Introduction to Electrical Systems II (3) EN EGB

PR: EGN 3373, CR: MAP 2302. A second course in linear passive circuits (following EGN 3373). An extension of the physical principles and models, AC/DC steady-state, transient analysis and power analysis techniques.

## EGN 3375 Electromechanical Systems (3) EN EGB

PR: EGN 3373 with a minimum grade of B. Analysis of electromechanical device performance: transformers, transducers, DC motors and generators, AC motors and alternators.

## EGN 3420 Engineering Analysis (3) EN EGB

PR: MAC 2282. Introduction to aspects of matrix algebra and complex algebra which are essential in engineering: simultaneous equations, connection matrices, basic eigenvalue theory, the complex exponential.

## EGN 3433 Modeling and Analysis of Engineering Systems (3) ENEGB

PR: MAC 2283, PHY 2049. Dynamic analysis of electrical, mechanical, hydraulic and thermal systems; Laplace transforms; numerical methods; use of computers in dynamic systems; analytical solution to first and second order ODEs. Restricted to majors.

## EGN 3443 Probability and Statistics for Engineers (3) EN EGB

PR: MAC 2282. An introduction to the basic concepts of statistical analysis with special emphasis on engineering applications.

## EGN 3613C Engineering Economy I (3) EN EGB

A study in analyzing the economic limitations imposed on engineering activities using basic models which consider the time value of money.

## EGN 3615 Engineering Economics with Social and Global Implications SS (3) EN EGB

Presents basic economic models used to evaluate engineering activities and an understanding of the social and ethical implications of financial decisions in a multicultural environment through lectures, case studies and current readings.

## EGN 3835 Globalization and Technology (3) EN EGB

Exploration of the fundamental processes underlying globalization with particular emphasis on the role of technological development in both historical and contemporary context.

## EGN 4366 Materials Engineering II (3) EN EGB

PR: EGN 3365. Applications and structure property relationships of commonly used engineering materials. Steel, nonferrous alloys and their welding, heat treatment and processing. Introduction to ceramic and polymeric materials.

## EGN 4420 Numerical and Computer Methods in Engineering (3) ENEGB

PR: MAP 2302. Computation methods of analysis for engineering problem solving by use of digital computers, matrix methods, differential equations, curve fitting, integral equations.

## EGN 4450 Introduction to Linear Systems (2) EN EGB

PR: MAC 2282. Study and application of matrix algebra, differential equations and calculus of finite differences.

## EGN 4831 Technology and Society MW (3) EN EGB

Non-technical survey of engineering activities: utilities, nuclear power, genetics weaponry, space, etc. Students conduct individual in-depth study of environmental/ethical problem.

## EGN 4905 Independent Study (1-5) EN EGB

PR: CI. Specialized independent study determined by the students' needs and interests.

## EGN 4930 Special Topics in Engineering (1-3) EN EGB

PR: CI. New technical topics of interest to engineering students.

## EGN 5421 Engineering Applications for Vector Analysis (3) EN EGB

Vector methods in electromagnetism and fluid mechanics. Vector operators, line and flux integrals, potential and transport theorems, applications.

## EGN 5422 Engineering Applications of Partial Differential Equations (3) EN EGB

Power series solutions for ordinary differential equations, Sturm-Liouville theory, special functions. Vector methods with generalized coordinates. Separation of variables for partial differential equations. Green's functions. Calculus of variations. Numerical methods.

## EGN 5423 Neural Networks and Mathematics for Communication (3) EN EGB

Finite fields and coding applications. Probabilities of error detection and correction. Introduction to neural networks. Advanced matrix algorithms: LU and QR factorizations, least-squares, pseudoinverses.

## EGN 5424 Engineering Applications of Complex Analysis (3) ENEGB

Analytic functions, conformal mapping, residue theory, Laurent series, transforms. Applications to various problems in engineering and physics.

## EGN 5425 Engineering Applications of Advanced Matrix Computations (3) EN EGB

Survey of theory and software for matrix computations: factorization methods, least squares and pseudoinverses, eigenvector algorithms. Special matrices and representations for control system and finite element applications.

## EGS 1113 Introduction to Design Graphics (3) EN EGB

The student learns how to graphically represent technical designs using sketches, traditional drawing tools, and AutoCAD. The lab features twenty Pentium II computers running AutoCad R14.

## EIA 3192 Technology Education and Society (4) ED EDV

Introduction to programs, facilities and opportunities in teaching Technology Education. Includes historical, current and futuristic implications of technology in society.

## EIA 4360 Special Teaching Methods: Technology Education (3) EDEDV

Equips Technology Education instructors with professional competencies for classroom and laboratory settings. Includes the selection of appropriate methods, planning, and delivery of instruction, along with supervision of students in laboratory areas.

## EIN 3241 Ergonomics I (3) US EIT

Using the fundamentals of the design process, this course demonstrates the critical importance of ergonomic tools and underlying physical human capacities.

## EIN 4242 Ergonomics II (3) US EIT

PR: EIN 3241. This course applies the concepts of work design and measurements within the ergonomic arena to achieve work design that is ergonomically feasible and effective.

## EIN 4243C Human Factors 6A (3) EN EGS

Design of man-machine systems, by taking into consideration both human and machine capabilities and limitations.

## EIN 4312C Work Analysis (3) EN EGS

PR: EGN 3613C or EGN 3615, EGN 3443. Operation analysis and workspace design, work measurement, standard data, ergonomics, and labor costing.

## EIN 4333 Production Control (3) EN EGS

PR: ESI 4312. Planning and control of production systems. Includes: forecasting and inventory control models, scheduling and sequencing, MRP, CPM/PERT, and resource requirements.

## EIN 4352 Engineering Cost Analysis (3) EN EGS

PR: EGN 3615. This is a non-repeatable course restricted to Industrial Engineering majors. It provides students with the principles and techniques for the cost analysis, estimation and evaluation of engineering design in service and manufacturing organizations.

## EIN 4364C Facilities Design (3) EN EGS

PR: EIN 4312C, EIN 4621; CR: ESI 4221, EIN 4333. Design and modification of industrial production and material handling facilities. Basic analysis techniques, use of computer programs, automated warehousing.

## EIN 4601C Automation and Robotics (3) EN EGS

PR: EIN 4621. Introduction to the practices and concepts of automation as applied to material handling, inventory storage, material transfer, industrial processes and quality control.

## EIN 4621 Manufacturing Processes (3) EN EGS

PR: EGS 1113. The study of basic manufacturing processes and precision assembly. CAD/CAM including NC programming.

## 284 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

### EIN 4891 Capstone Design MW (3) EN EGS

PR: EIN 4364C; CR: ESI 4523. Course requires students to design an enterprise incorporating tools, techniques and approaches from industrial and management systems engineering. Students work in teams on an open-ended project that may be in either a service or manufacturing setting.

### EIN 4933 Special Topics in Industrial Engineering (1-5) EN EGS

Special topics related to economic analysis, optimization, human factors, manufacturing and automation aspect of industrial systems. Repeatable up to 5 credit hours.

### EIN 5174 Total Quality Management Concepts (3) EN EGS

This course will examine the methodology and procedures that companies use to improve quality and its operational benefits, including the management transformation (paradigm shift) that is evolving. Unrestricted. Nonrepeatable for credit.

### EIN 5182 Principles of Engineering Management (3) EN EGS

Introduction to the fundamentals of planning, organizing and leadership as needed by engineers, scientists, and other professionals considering managerial positions.

### EIN 5275 Work Physiology and Biomechanics (3) EN EGS

PR: CC, majors only. Human physiological limitations encountered in design, analysis and evaluation of man-machine systems.

### EIN 5350 Technology and Finance (3) EN EGS

A course for technical managers that focuses on how financial and economic principles are utilized to make technical investments and manage technical enterprises.

### EIN 5357 Engineering Value Analysis (3) EN EGS

PR: EIN 5219 or equiv., majors only. Statistical models for analyzing engineering alternatives from an economic viewpoint. The use of advanced engineering economy concepts in solving industrial problems.

### EIN 5510 Manufacturing Systems Analysis (3) EN EGS

PR: CC, majors only. The study of systems of manufacturing entities such as machine tools, robots, and materials handlers. Emphasis is on mathematical description of integrated systems and system optimization.

### EIV 4210 Program Management: Industrial-Technical Education (4) ED EDV

Planning, organizing, motivating and controlling of the learning environment in Industrial-Technical Education classroom and laboratories. Program standards for OSHA, program review, record keeping, and budgeting will be examined.

### EIV 4360 Special Teaching Methods: Industrial-Technical Education (4) ED EDV

Instructional techniques in industrial-technical education. Vocational Industrial Clubs of America activities may be included.

### EIV 5315 Program Management: Diversified Cooperative Training (3) ED EDV

Organization, coordination, and budgeting of adult, cooperative, and special programs.

### ELD 4011 Introduction to Specific Learning Disabilities (3) ED EDS

PR: EEX 4011 or DPR. Characteristics, needs and abilities of children with SLD. Emphasis is on theories, issues, trends, and philosophy of problems for such children.

### ELD 4905 Independent Study: Specific Learning Disabilities (1-3) ED EDS

PR: DPR. S/U only. Specialized independent study determined by student's needs and interests.

### ELD 4909 Directed Study: Specific Learning Disabilities (1-3) ED EDS

PR: Senior standing, DPR. To extend competency in teaching field.

### ELD 4941 Undergraduate Supervised Practicum in SLD (1-6) ED EDS

PR: EEX 4011. S/U only. DPR. Supervised field experiences in assessment, behavior management and clinical teaching with classes for children who have specific learning disabilities.

### ELR 3301L Laboratory I (1) EN EGE

PR: EGN 3373 with a minimum grade of B. Basic circuit theory applications; computer-aided design tools, electrical measurement techniques.

### ELR 3302L Laboratory II (1) EN EGE

PR: ELR 3301L and EEL 3302. This laboratory is designed to introduce electrical engineering students to the design, building and testing of active electronic networks. Computer Aided Design tools and computer data acquisition strategies are examined in greater detail.

### ELR 4316L Wireless Circuits & Systems Design Laboratory (2) EN EGE

PR: EEL 4471. An extensive hands-on introduction to wireless radio frequency and microwave circuits and systems, involving modern measurements, fabrication and computer-aided design

experiences at both component and sub-system levels. Not available on an S/U basis.

### EMA 4003 Introduction to Materials Science (3) EN ECH

PR: ECH 4123 or Consent of Instructor. Introduction to the main families of materials and principles behind their design, selection, development, and behavior. Relationship of properties to structure and processing of materials. Not repeatable for credit. Majors and non-majors.

### EMA 4324 Corrosion of Engineering Materials I (3) EN EGX

PR: EGN 3365L. Principles of electrochemical corrosion and the representation of corrosion processes by polarization diagrams. Origin and prevention of the localized forms of corrosion and approaches to corrosion control.

### EMA 5326 Corrosion Control (3) EN EGX

PR: EGN 3365. Provide understanding of corrosion fundamentals. Introduce design for corrosion detection, protection, and control. Acquire research project experience.

### EME 2040 Introduction to Computers in Education (3) ED EDK

Designed as an introduction to computer technology and its role in teaching and learning processes. Topics include educational software, ethical and social issues, hardware, interactive multimedia, models for integrating technology into instruction, productivity tools and telecommunications.

### EME 5403 Computers in Education (3) ED EDK

A survey course designed to introduce practicing teachers to microcomputer technology and its function in the classroom to augment the teaching and learning processes. Objectives include the use and evaluation of educational software, classroom use of computers, instructional computing research, generic applications software (word processors, database managers, etc.), programming, disk operating systems, and microcomputer hardware.

### EML 3035 Programming Concepts for Mechanical Engineers (1) EN EGR

PR: MAC 2281, PHY 2048. Solution of engineering and science problems using programming language such as Visual Basic or Maple. Topics include fundamentals of programming, controlling program flow and arrays. Restricted to majors; not repeatable for credit.

### EML 3041 Computational Methods (3) EN EGR

PR: MAP 2302, EML 3035. Techniques to solving engineering problems using numerical methods. Topics include roots of equations, matrix algebra, simultaneous linear equations, numerical integration and differentiation, and curve fitting.

### EML 3262 Kinematics and Dynamics of Machinery (3) EN EGR

PR: EGN 3321. Kinematics of machines and mechanisms; position, velocity, and acceleration analysis of mechanisms; cams; gear trains; inertia forces in mechanisms; flywheels; balancing of rotating masses.

### EML 3303 Mechanical Engineering Lab I (3) EN EGR

PR: EGN 3443. CR: EML 3701, EML 3500. Engineering laboratory measurements. Use of the library and the writing of technical reports. Experiments in the measurement of temperature, pressure, fluid flow, psychrometrics, concentration, viscosity. Mass-energy balances of simple systems.

### EML 3500 Mechanics of Solids (3) EN EGR

PR: EGN 3311. Stress and deflection analysis of machine parts, variable loads, endurance limits, fasteners, bearings, power transmission, code consideration of pressure and vacuum vessels, elements of design.

### EML 3701 Fluid Systems (3) EN EGR

PR: EGN 3343, EGN 3321. Principles of fluid flow; piping and duct systems; fluid machinery; metering of compressible and incompressible flow; boundary layer theory; dimensional analysis; introduction to aerodynamics.

### EML 4031 Visual Basic for Engineers and Scientists (3) EN EGR

PR: EML 3041. Introduces students to the powerful graphical interface language of Visual Basic. Illustrates the use of the language in engineering and science applications.

### EML 4106C Thermal Systems and Economics (3) EN EGR

PR: EGN 3343. Power and refrigeration cycles; fuels and combustion; internal combustion engine cycles; co-generation; nuclear energy; methods of economic analysis.

### EML 4124 Heat Transfer (3) EN EGR

CR: EML 3701, EML 3041. Conduction, convection and radiant heat transfer; thermal properties of materials; role of fluid flow in convective heat transfer; design and selection of heat exchangers.

### EML 4220 Vibrations (3) EN EGR

PR: EML 3262. Natural frequency, damping and resonance in single-degree-of-freedom systems. Vibration isolation and absorption. Lagrange's equations. Multi-degree of freedom

- systems. Introduction to vibration of continuous systems and predictive maintenance.
- EML 4230 Introduction to Composite Materials (3) EN EGR**  
PR: EML 3500 and EML 3041. The course introduces manufacturing types and applications of advanced composites. Students study micromechanical and macromechanical behavior of a lamina and analyze and design a laminated structure made of advanced composite materials.
- EML 4246 Tribology (3) EN EGR**  
PR: EML 4501. Introduction to friction, lubrication and wear. Contact of real surfaces, mechanics of friction, surface failures, boundary lubrication fluid properties, thin film lubrication, thick film lubrication, bearing and lubricant selection.
- EML 4302 Mechanical Engineering Laboratory II (3) EN EGR**  
PR: EML 3303. Continuation of EML 3303 with emphasis on material and energy balances, stress analysis and vibrations. Lec.-lab. The Team-Project-Time Approach.
- EML 4312 Mechanical Controls (3) EN EGR**  
PR: EGN 3321, EGN 3373. Introduces the concept of dynamic systems. Modeling of dynamic systems. Laplace Transforms. Transfer Functions. Block Diagrams. Characteristic equation. Time response of first and second order systems. Stability of dynamic systems. Routh stability criterion. Frequency response of dynamic systems. Polar plots and Bode plots. Introduction to state space model.
- EML 4325 Mechanical Manufacturing Processes (3) EN EGR**  
PR: EGN 3365. Description of mechanical material cutting, forming and fabrication methods, as used in modern industrial manufacturing processes.
- EML 4395 Motor Selection and Control (3) EN EGR**  
PR: ENG 3373 Standard electrical voltages; power wiring in industrial plants; NEMA motor designs and their uses; techniques for estimating motor starting times and temperature rise; motor selection, starting, and operating safety interlocks; conventional starting and control systems; programmable controllers; electrical code requirements for conductors and protective devices.
- EML 4414 Power Plant Engineering (3) EN EGR**  
PR: EML 4106C. The study of large scale thermo-electric power conversion for utility systems. Combustion of hydrocarbon fuels, furnace, steam generated auxiliary system design. Topics include control of our emissions, design and performance of combined power facilities.
- EML 4419 Propulsion I (3) EN EGR**  
PR: EML 3701, EML 3500 or CI. Introduction to the design of propulsion systems. Basic analysis of internal combustion, jet and rocket engines. Application to ground and air transportation. Advanced propulsion concepts. Special topics for class discussion.
- EML 4421 Internal Combustion Engines (3) EN EGR**  
This course is for the application of thermodynamics, chemistry, dynamics of machinery, electronics and fluid mechanics. Topics covered are: introduction of engines, fuels and combustion, numerical modeling, ignition, fuel systems, balance of reciprocating mechanisms and emission control of exhaust pollutants.
- EML 4501 Machine Design (3) EN EGR**  
PR: EML 3500. Designed to teach students to apply the principles of engineering mechanics, materials and manufacturing to the design/analysis of machine elements and mechanical systems. Emphasis is given toward good design practice as well as pitfalls that can result in a catastrophic failure.
- EML 4551 Capstone Design MW (3) EN EGR**  
CR: EML 4501, EML 4124 Comprehensive design or feasibility project requiring application of previously acquired engineering knowledge; use of ANSYS, CAD AND Pro/E.
- EML 4552 Senior Mechanical Design (3) EN EGR**  
PR: CI. Comprehensive design or feasibility study project. In some cases may be a continuation of EML 4551.
- EML 4601 Air Conditioning Design (3) EN EGR**  
PR: EML 4106C, EML 3701. Application of thermodynamics, heat transfer, and fluid flow to sizing of HVAC systems. Heating and cooling calculations, air requirements, equipment sizing. Energy Code requirements. Design project.
- EML 4905 Independent Study (1-4) EN EGR**  
PR: CI. Specialized independent study determined by the student's needs and interests.
- EML 4930 Special Topics in Mechanical Engineering (1-4) EN EGR**  
PR: CC.
- EML 5930 Special Topics III (1-4) EN EGR**  
PR: CC.
- EMR 4011 Mental Retardation and Developmental Disabilities (3) EDEDS**  
PR: EEX 4011 or equivalent. This course is designed to provide students with a broad introduction to the area of mental retardation and developmental disabilities with particular emphasis on the educational aspects. This course is required by the state for certification in mental retardation.
- EMR 4230 Educating the Severely/Profoundly Handicapped (3) EDEDS**  
PR: EMR 3011 or DPR. Emphasis on educational methods and materials for teaching children with severe/profound handicaps. Practicum/field experience linkage.
- EMR 4905 Independent Study: Mental Retardation (1-3) ED EDS**  
S/U. May be repeated when subjects vary. DPR. Specialized independent study determined by the student's needs and interests.
- EMR 4909 Directed Study: Mental Retardation (1-3) ED EDS**  
PR: Senior standing, DPR. Offered only as a scheduled class. To extend competency in teaching field.
- EMR 4941 Undergraduate Supervised Practicum in Mental Retardation (1-6) ED EDS**  
PR: EEX 4011. S/U only. DPR. Supervised field experiences in assessment, behavior management, and clinical teaching with children who have mental retardation.
- ENC 1101 Composition I 6A EC (3) AS ENG**  
PR: ENC 1101 and ENC 1102 must be taken in numerical sequence. Instruction and practice in the skills of writing and reading.
- ENC 1102 Composition II 6A EC (3) AS ENG**  
PR: ENC 1101. Instruction and practice in the skills of writing and reading.
- ENC 1121 Composition I: Honors 6A EC (3) AS ENG**  
Reserved for students in University Honors. Honors Section of ENC 1101.
- ENC 1122 Composition II: Honors 6A EC (3) AS ENG**  
PR: ENC 1121. Reserved for students in University Honors. Honors Section of ENC 1102.
- ENC 2210 Technical Writing 6A (3) AS ENG**  
PR: ENC 1101 and ENC 1102 or ENC 1121 and ENC 1122. Effective presentation of technical and semi-technical information.
- ENC 3246 Communication for Engineers 6A (3) AS ENG**  
Focuses on writing concerns of engineers. Deals with the content, organization, format, and style of specific types of engineering documents. Provides opportunity to improve oral presentations. Will not be counted toward the English major.
- ENC 3250 Professional Writing 6A (3) AS ENG**  
PR: ENC 1101 and ENC 1102 or ENC 1121 and ENC 1122. Introduction to the techniques and types of professional writing, including correspondence and reports most often found in business, technical, and scientific communities.
- ENC 3310 Expository Writing 6A (3) AS ENG**  
PR: ENC 1101 and ENC 1102 or ENC 1121 and ENC 1122. A course teaching the techniques for writing effective prose, excluding fiction, in which student essays are extensively criticized, edited, and discussed in individual sessions with the instructor.
- ENC 4260 Advanced Technical Writing (3) AS ENG**  
PR: ENC 2210, or ENC 3310, or CI. Advanced Technical Writing is a course designed to develop writing skills of a high order: technical exposition; technical narration, description, and argumentation; graphics; proposals; progress reports; physical research reports; and feasibility reports.
- ENC 4311 Advanced Composition (3) AS ENG**  
PR: ENC 3310 or CI. Instruction and practice in writing effective, lucid, and compelling prose, with special emphasis on style, logical argumentation, and critical thinking.
- ENC 4931 Selected Topics in Professional and Technical Writing (3) AS ENG**  
PR: ENC 3250, ENC 2210, or ENC 3310 or CI. Focus of the course will be determined by student demand and instructor interest. Topics to be covered may include legal writing, the conventions of business writing, writing in the medical fields, and writing for the social sciences. May be taken twice for credit with different topics.
- ENG 3014 Introduction to Literary Methodology (3) AS ENG**  
PR: ENC 1101 and ENC 1102. This course prepares English majors and minors with the basic critical and technical skills and understanding for subsequent literary study in 3000- and 4000-level courses towards the major. Substantial writing. For majors. Not repeatable.
- ENG 4013 Literary Criticism (3) AS ENG**  
A study of the works of major literary critics from Aristotle to the present, with emphasis on their meaning, their implied world view, and their significance for our own time and literature. Required for Literature majors.

## 286 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

### ENG 4060 History of the English Language (3) AS ENG

The evolution of language from Anglo-Saxon through Middle English to Modern English. Development of the English lexicon. Changes in the pronunciation, syntactic, and semantic systems; discussion of the forms which influenced them.

### ENG 4906 Individual Research (1-4) AS ENG

PR: CC. Directed study in special projects.

### ENG 4907 Directed Reading (3) AS ENG

PR: CC. Readings in special topics.

### ENG 4935 Honors Seminar I (3) AS ENG

PR: Admission to English Honors Program. CR: ENG 4936. Variable topics. Students will be expected to participate in class discussion, make formal presentations, and complete a major research project.

### ENG 4936 Honors Seminar II (3) AS ENG

PR: Admission to English Honors Program. CR: ENG 4935. Variable topics. Students will be expected to participate in class discussion, make formal presentations, and complete a major research project.

### ENG 4970 Honors Thesis (3) AS ENG

PR: ENG 4935, ENG 4936. For students writing English Honors theses.

### ENL 3015 British Literature to 1616 (3) AS ENG

A survey of representative prose, poetry, and drama from its beginnings through the Renaissance, including such poems and figures as *Beowulf*, Chaucer, Malory, More, Hooker, Skelton, Wyatt, Sidney, Spenser, Shakespeare, Donne, and Jonson.

### ENL 3230 British Literature 1616-1780 (3) AS ENG

A survey of 17th Century and Neoclassical Literature, including such figures as Donne, Herbert, Crashaw, Vaughan, Marvell, Milton, Pope, Swift, Johnson, Boswell, and Goldsmith.

### ENL 3251 British Literature 1780-1900 (3) AS ENG

The poetry and poetics of the Romantic figures, with attention to the continuing importance of Romantic thinking in contemporary affairs and letters; a survey of representative figures of the Victorian and Edwardian periods, including poetry, prose, and drama.

### ENL 3273 British Literature 1900-1945 (3) AS ENG

Survey of poetry, drama, and fiction of such writers as Eliot, Yeats, Thomas, Conrad, Shaw, Joyce, Lawrence, Huxley, Woolf, Forster, Waugh, Owen, Auden, O'Casey, and others.

### ENL 3331 Early Shakespeare (3) AS ENG

A study of from five to eight of Shakespeare's comedies, histories, and early tragedies, ending with *Hamlet*. Special attention to developing the student's ability to read and interpret the text.

### ENL 3332 Late Shakespeare (3) AS ENG

A study of from five to eight of Shakespeare's problem plays, major tragedies, and late romances. Special attention to developing the student's ability to read and interpret the text.

### ENL 3334 Shakespeare from an Historical Perspective HP (3) ASENG

Examines the plays of Shakespeare from *Romeo and Juliet* to *Othello* as manifestations of the social, political, and intellectual forces of the time. Lectures will be available on audio tapes. Will not be counted toward the English major.

### ENL 4122 19th Century British Novel (3) AS ENG

1) Study of the 19th-century British novel, including works by novelists such as Thackeray, Dickens, Eliot, Hardy, Trollope, and others. 2) Analysis of the characteristics of the novels and their historical, social, cultural, and political contexts.

### ENL 4132 British Novel: Conrad to the Present (3) AS ENG

A critical study of British fiction from 1900 to the present, with emphasis on such writers as Conrad, Lawrence, Joyce, Woolf, Huxley, Orwell, Burgess, Murdoch, Golding, and others.

### ENL 4303 Selected British Authors (3) AS ENG

The study of two or three major figures in British Literature. The course may include such writers as Fielding and Austen, Keats and Yeats, Joyce and Woolf. Specific topics will vary. May be taken twice for credit with different topics.

### ENL 4311 Chaucer (3) AS ENG

An intensive study of *The Canterbury Tales* and major critical concerns.

### ENL 4338 Advanced Studies in Shakespeare (3) AS ENG

PR: ENL 3331 or ENL 3332, or CI. Intensive study of selected plays of Shakespeare, with special attention to significant critical issues and to the Elizabethan and Jacobean cultural setting.

### ENL 4341 Milton (3) AS ENG

Study of the poetry and major prose of John Milton, with special emphasis on *Paradise Lost*.

### ENV 4001 Environmental Systems Engineering (3) EN EGX

CR: EGN 3353. An introduction to various aspects of environmental problems faced by today's society. Topics covered are: air pollution, water pollution, noise pollution, solid waste management, ionizing radiation, disease transmission, and food protection.

### ENV 4004L Environmental/Hydraulics Engineering Lab (1) EN EGX

PR: EGN 3353. CR: ENV 4001. Laboratory experience in the measuring of environmental and hydraulic parameters.

### ENV 4351 Solid Waste Engineering (2) EN EGX

Introduction to the principles of integrated municipal solid waste management; waste minimization, recycle and disposal options. Design of landfill disposal systems. Course restricted to Civil and Environmental Engineering majors.

### ENV 4417 Water Quality and Treatment (3) EN EGX

PR: EGN 3353. An introduction to municipal water supply and waste water treatment. Topics include water requirements and waste volumes, water quality, physical and chemical treatment processes, and advanced wastewater treatment processes.

### ENV 4502 Water Treatment Engineering (3) EN EGX

PR: EGN 3353. CR: ENV 4001. The theory and the design of unit operations normally used in the practice of environmental engineering, such as agitation and mixing of liquids, filtration, leaching, gas absorption, sedimentation and clarification, drying, and evaporation.

### ENV 4503 Wastewater Treatment Engineering (3) EN EGX

PR: ECH 3023C, EGN 3353, ENV 4001. The theory and design of unit processes normally used in environmental engineering such as coagulation of colloidal materials, water stabilization, water softening and neutralization, ion exchange, adsorption and oxidation processes for removal of iron and magnesium.

### ENV 4552C Environmental Unit Operations and Processes (3) ENEGX

PR: ENV 4001, ENV 4417 or CI. Theory, experimental investigation, and modeling of operations and processes in engineered and natural systems. Laboratory evaluation of unit operations and processes used in water and wastewater treatment including chlorination, activated carbon absorption, biological treatment, gas/liquid mass transfer, filtration, coagulation, flocculation, and settling. Application of experimental data to process analysis and design. Field monitoring of surface water quality; simulation of transport and transformation of pollutants in surface waters.

### ENV 4891 Capstone Environmental Engineering Design MW (3) ENEGX

PR: CWR 4540, ENV 4001, ENV 4417. A capstone environmental design experience for seniors in Civil and Environmental Engineering. A design oriented course to design both industrial and domestic water treatment and water transport systems and wastewater and collection systems. The course emphasizes the design procedure normally used in engineering practice.

### ENV 5103 Air Pollution Control (3) EN EGX

PR: EGN 3353. Behavior and effects of atmospheric contaminants and the principles of making measurements in the air environment. Basic concepts of meteorology and control technology are discussed. Regulatory aspects and air pollution standards are covered.

### ENV 5334 Hazardous Waste Management and Remedial Action (3) ENEGX

PR: ENV 5345 and one of the following: ENV 6347, ENV 6519, ENV 6558; or CI, majors only. Undergraduate preparation in environmental engineering or an environmental science program. Introduction to hazardous waste management and remediation: RCRA regulatory concepts, definitions, aspects of hazardous waste management from within the plant to final disposal. History of hazardous waste cleanup leading to CERCLA and its amendments, site investigations; site control; those aspects of treatment that are unique to remedial action.

### ENV 5345 Solid Waste Control (3) EN EGX

PR: CI. Undergraduate preparation in environmental engineering, or graduate standing in environmental engineering or an environmental science program. Introduction to solid waste management, including its definition as an umbrella for hazardous waste: regulatory concepts; waste types, quantities, and characterization; collection and recycling; facility siting; disposal; thermal treatment.

### ENV 5504C Environmental Engineering Processes (3) EN EGX

PR: ENV 4001, ENV 4004L, ENV 4417. Theory, experimental investigation, and modeling of operations and processes in engineered and natural systems. Laboratory evaluation of unit operations and process used in water and wastewater treatment including chlorination, activated carbon adsorption, biological treatment, gas/liquid mass transfer, filtration, coagulation, flocculation, and settling. This course is restricted to majors, has no external laboratory section associated with the course, is not available on an S/U basis only, is not cross-listed with another department or college.

## ENY 3004C Introduction to Entomology (4) AS BIO

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course, or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712. An introduction to general aspects of insect morphology, development, and classification. The identification of local forms will be emphasized. Fieldwork required. Lecture and Laboratory.

## ENY 5505C Aquatic Entomology (4) AS BIO

PR: ENY 3004C and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and CI. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211. Taxonomy, development, and ecology of aquatic insects with emphasis on local forms. Fieldwork required. Lecture and Laboratory.

## EPH 5051 Advanced Theories in Motor and Physical Disabilities (3) EDEDS

PR: EEX 4011 or DPR. Biological and functional aspects of motor and physical health disabilities, including dysfunctions in central nervous system covering motor, sensory, language and psychological disorders.

## EPH 5321 Educational Strategies for Physically and Multihandicapped Students (3) ED EDS

PR: EPH 5051. Educational management of students with cerebral palsy, motor disabilities and multihandicapped conditions including rehabilitation and other community services.

## ESC 4705 Geology and Development of Modern Africa MW (3) AS GLY

An in-depth look at how geology has affected the politics, history and culture of Africa. Units include the Nile and hydropolitics, deserts and climate, rifting and hominid evolution, and mining and politics.

## ESE 4322 Classroom Management for Diverse School and Society (3) ED EDI

Focuses on classroom management in secondary schools including classroom climate, specific strategies to address management issues, school safety, violence, diversity, ethics, and educational law.

## ESE 5342 Teaching the Adolescent Learner (3) ED EDI

Emphasis is placed on adolescent developmental and learning needs linking them to practices in the classroom appropriate to the diverse secondary education population (ESOL, special education, multicultural, at-risk, etc.) in preparation for planning responsive standards-based instruction.

## ESE 5344 Classroom Management for a Diverse School and Society (3) ED EDI

This course covers practical, theoretical, philosophical and ethical aspects of school and society, the education profession, and secondary schools with particular focus on classroom management, school violence, school safety, educational law and other critical social issues.

## ESI 4142 Project Management (3) EN EGS

PR: EGN 3443. Provide principles and techniques for planning, scheduling and managing projects in engineering and related environments. Applies analytical tools and techniques including software to solve project management problems. Not restricted. Non-repeatable.

## ESI 4221 Industrial Statistics and Quality Control (3) EN EGS

PR: EGN 3443, EIN 4621. Application of statistical techniques to the control of industrial processes. Control charts, acceptance sampling, design of experiments, analysis of variance and regression.

## ESI 4244 Design of Experiments (3) EN EGS

PR: EGN 3443. Activity forecasting models and control. Design and use of inventory control models, both designs applicable to engineering analyses. Analysis of variance and regression.

## ESI 4312 Deterministic O. R. (3) EN EGS

PR: COP 2510, EGN 4450. An introduction to operations research techniques with particular emphasis on deterministic models. Linear programming, dynamic programming, goal programming, integer programming, and PERT/CPM networks are considered.

## ESI 4313 Probabilistic O. R. (3) EN EGS

PR: COP 2510, EGN 3443. Probabilistic models in Operations Research. Discrete and continuous time processes, queuing models, inventory models, simulation models, Markovian decision process and decision analysis.

## ESI 4523 Industrial Systems Simulation (3) EN EGS

PR: ESI 4313. A study of the development and analysis of computer simulation models: Monte Carlo, time-slice, and next-event. Introduction to special purpose simulation languages.

## ESI 4905 Independent Study (1-5) EN EGS

PR: CI. S/U only. Specialized independent study determined by the student's needs and interests.

## ESI 4911 Senior Project (2) EN EGS

PR: EIN 4364, CR: EIN 4333, ESI 4523. Analysis and design of systems in a directed project format. Individual or group work consisting of project proposal, project activities, and final report. Student projects are directed by faculty, with chairman's approval.

## ESI 5219 Statistical Methods For Engineering Managers (3) EN EGS

Not open to students who have had EGN 3443. Study of statistical methods applied to engineering management problems involving estimation and prediction under conditions of uncertainty.

## ESI 5236 Reliability Engineering (3) EN EGS

PR: ESI 5219 or equiv., majors only PR: EGN 3443 or equivalent. Fundamental concepts of reliability. Estimation of reliability of systems and components. Measures of availability, maintainability and reliability.

## ESI 5306 Operations Research For Engineering Management (3) EN EGS

Not open to students who have had ESI 4312. ESI 5219 or equiv., majors only. Linear programming, non-linear programming, queuing, inventory, network analysis.

## ESI 5522 Computer Simulation (3) EN EGS

PR: ESI 4521 or equiv., majors only. Design of discrete and continuous simulation models. Model validation and verification. Statistical analysis of simulation model output.

## ETG 3612 Operations Management (3) EN ESB

PR: MAC 1105, CR: STA 2023. This course examines global strategies, project management, forecasting, location, scheduling, human resources, quality and math models as applied to the design and management of industrial operations.

## ETG 3931 Special Topics for Information Technology (1-4) US EIT

Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

## ETG 3933 Selected Topics in Technology (1-5) EN ESB

Selected Topics in Technology is repeatable for credit for 12 hours.

## ETG 3934 Selected Topics in Technology (1-5) EN ESB

Selected Topics in Technology is repeatable for credit for 12 hours.

## ETG 4930 Special Topics for Information Technology (1-4) US EIT

Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

## ETG 4931 Special Topics in Technology I (1-5) EN ESB

PR: CI. No credit for Engineering Majors.

## ETG 4932 Special Topics in Technology II (1-5) EN ESB

PR: CI. No credit for Engineering Majors.

## ETI 4116 Industrial Quality Control (3) US EIT

PR: STA 2023. This course teaches the students the fundamental concepts of managing a quality assurance system.

## EUH 2000 Western Civilization I (3) AS HTY

This course surveys the development of western civilization from the beginnings of Near Eastern civilization to the Renaissance.

## EUH 2001 Western Civilization II (3) AS HTY

This course surveys the development of western civilization from the Renaissance to the present.

## EUH 2011 Ancient History I HP (3) AS HTY

An introductory survey of ancient history. EUH 2011 treats the ancient Near East and Greece from the origins of civilization to the full development of the Hellenistic kingdoms prior to conflict with Rome.

## EUH 2012 Ancient History II HP (3) AS HTY

An introductory survey of ancient history. EUH 2012 deals with Rome through the Regal, Republican, and Imperial periods, from the beginnings of civilization in Italy to the division of the Roman Empire, A.D. 285.

## EUH 2021 Byzantium History HP (3) AS HTY

A thematic survey of the history of the medieval Byzantine Empire and neighboring civilizations from ca. 284-1453.

## EUH 2022 The Medieval West HP (3) AS HTY

A thematic survey of Western European and Mediterranean civilizations from ca. 312-1453.

## EUH 2030 Modern European History I HP (3) AS HTY

A thematic survey of Europe in the modern age. EUH 2030 treats the period from the Renaissance to the French Revolution.

## EUH 2031 Modern European History II HP (3) AS HTY

A thematic survey of Europe in the modern age. EUH 2031, treats the period from the French Revolution to the present.

## EUH 3142 Renaissance and Reformation (4) AS HTY

A history of Europe from the Renaissance to the Thirty Years' War (1400-1618). The cultural, social, and economic characteristics will provide the framework for artistic, philosophical, religious, and political developments.

## 288 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

### EUH 3181 Medieval Culture (4) AS HTY

A survey of thought, culture, and art in the Middle Ages. Medieval attitudes as manifested in literature, art, philosophy, education, and religion; with emphasis upon Medieval man's changing perception of himself and his world.

### EUH 3185 Viking History (4) AS HTY

The role of the Vikings in the shaping of Western history. A comprehensive survey of their institutions, outlook and daily life. Viking expansion into Europe and North America.

### EUH 3188 Medieval Society (4) AS HTY

A study of the daily life and attitudes of the medieval nobleman, peasant, townsmen, and the agrarian-urban economy and society which affected their lives.

### EUH 3189 Medieval Politics (4) AS HTY

An inquiry into the nature, distribution, and use of political power during the Middle Ages, in such institutions as feudalism, monarchy, cities, and the church.

### EUH 3202 History of 17th and 18th Century Europe (4) AS HTY

A history of Europe from the beginning of the Thirty Years' War to the outbreak of the French Revolution. Political and intellectual developments will be assessed in the light of society and the economy.

### EUH 3205 History of Nineteenth Century Europe (4) AS HTY

A comparative study of economic, political, social, and intellectual developments in nineteenth century Europe.

### EUH 3206 History of Twentieth Century Europe (4) AS HTY

A comparative study of economic, political, social, and intellectual developments in twentieth century Europe.

### EUH 3401 Classical Greece (4) AS HTY

A study of ancient Greece focusing on the brilliant period following the Persian Wars, but embracing as well the formative Bronze, Middle and Archaic ages, and the decline culminating in the conquest of Greece by Philip II of Macedon in 338 B.C.

### EUH 3402 Age of Alexander (4) AS HTY

A study focusing on the career of Alexander the Great and on the Greek and Macedonian conquest of Imperial Persia. Also treated are the great hellenistic kingdoms prior to Rome's conquest of the eastern Mediterranean.

### EUH 3412 Roman Republic (4) AS HTY

A study of the Roman Republic from 509 B.C. to the assassination of Julius Caesar in 44 B.C., with a prelude treating Rome's early development under royal rule. Political growth and change provide the framework for the treatment.

### EUH 3413 Roman Empire (4) AS HTY

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

### EUH 3461 German History to 1870 (4) AS HTY

A political, social, and cultural approach to the history of the Germans from 1500 through 1870, with emphasis on the Protestant Reformation, the rise of Brandenburg-Prussian, and the unification under Bismarck.

### EUH 3462 German History 1870 to the Present (4) AS HTY

A political, social, and cultural approach to the history of the German Empire from 1870 through the 1970's. The nation's two attempts to try for world power status are highlighted, as well as the Weimar Republic, prototype of the embattled democracy.

### EUH 3501 British History to 1688 (4) AS HTY

A study of major developments in British history from the 15th century to 1688.

### EUH 3502 British History 1688 to Present (4) AS HTY

A study of the major themes of British history since the Glorious Revolution, including social, political, and economic developments leading to the creation of the modern demographic welfare state.

### EUH 3575 History of Imperial Russia, 1689-1917 (4) AS HTY

A survey of social, political, economic, and cultural development in the Russian Empire from Peter the Great to Nicholas II. Topics include the expansion and modernization of the Empire, the culture of the Imperial court, peasant rebellions, social and legal reforms, the role of the West, and the collapse of the Romanov dynasty.

### EUH 3576 History of the Soviet Union, 1917-1991 (4) AS HTY

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

### EUS 3000 Europe SS (3) AS INT

Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic,

anthropological, and sociological analysis in dealing with salient features and current problems.

### EUS 3022 Russia SS HP AF (3) AS INT

Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic, anthropological, and sociological analysis in dealing with salient features and current problems.

### EVR 2001 Introduction to Environmental Science NS (3) AS ESP

An introductory lecture course linking the human and physical/biological world. The course will develop an understanding of population and resource interactions.

### EVR 2001L Environmental Science Lab (1) AS ESP

A laboratory course linking the human and physical/biological world. The lab will develop an understanding of population and resource interactions and complement the lecture course. Field trips.

### EVR 2002 Environmental Science: Regional and Global Issues NS (3) AS ESP

This course will provide students with an understanding of the scientific principles underlying today's global environmental problems and their potential solutions. We will examine how our social, political and economic systems affect the environment.

### EVR 2217 Energy, Environment and Sustainability NS (3) EN ECH

PR: MAC 1105. A critical analysis of energy sources, distribution and consumption using scientific methodology. Attributes of commonly used energy sources including environmental impact. Social, political and economic implications from a global perspective.

### EVR 2861 Introduction to Environmental Policy (3) AS ESP

An introduction to environmental policy using class lectures, student projects, and independent readings. Emphasis will be placed on understanding basic policy mechanisms and major policy actions relating to environmental issues at the local, national and international level.

### EVR 4027 Wetland Environments MW (3) AS ESP

PR: PCB 3043 or CI. Study of the general properties and ecology of wetlands, examination of the distribution and functions of wetlands, and consideration of wetland conservation and policies.

### EVR 4104 Karst Environments NS (3) AS ESP

PR: EVR 2001. The objective is to provide an understanding of the scientific principles pertaining to karst environments in Florida and around the world. Both physical processes and human interactions/impacts will be examined. Not restricted to majors and not repeatable.

### EVR 4114 Climate Change NS (3) AS ESP

PR: EVR 2001. The objective is to provide an understanding of the scientific principles pertaining to global and regional climate change. Both mechanisms causing the change and human impacts on climate will be examined. Not restricted to majors and not repeatable.

### EVR 4218 Research Methods in Wildlife Ecology (3) AS ESP

Research Methods in Wildlife Ecology will review the ways in which data are collected, analyzed, and reported, so that informed decisions about wildlife management and conservation can be made. The course will have both classroom and field components.

### EVR 4900 Directed Readings (1-6) AS ESP

To provide advanced students with interdisciplinary research experience in areas of specific interest.

### EVR 4905 Independent Study (1-6) AS ESP

To provide advanced students with the opportunity for independent study in areas of specific interest.

### EVR 4910 Environmental Science and Policy Project (3-12) AS ESP

Open to senior majors only. S/U only. Environmental science project consisting of research in a field related to environmental science/environmental policy. Supervised by a faculty member. Contract and report required.

### EVR 4921 Environmental Science and Policy Seminar (1) AS ESP

Restricted to senior majors. S/U only. A topical reading and discussion seminar focusing on the interdisciplinary nature of environmental science and environmental policy.

### EVR 4930 Selected Topics (1-4) AS ESP

Each topic is a course under the direction of a faculty member with the content depending on the interests of the students and faculty involved. All areas of Environmental Science, Policy, Ethics and Law included.

### EVR 4940 Environmental Science Internship (3-12) AS ESP

Open to senior majors only. S/U only. The purpose of this course is to promote the student's understanding and application of environmental science and policy within a practical organizational context. Contract and report required.

## **EVT 4065 History and Principles of Vocational Education (4) ED EDV**

An overview of current policies and principles in vocational education including their historical, sociological, and philosophical bases. Open to majors and non-majors.

## **EVT 4084C Professional Development in Industrial Technical Education (1-3) ED EDV**

Designed for the ITE teacher in forming plans of professional development. Competencies include the development of a personal education philosophy; attributes in creating harmonious school community relationships; and desirable staff and teacher associations.

## **EVT 4165 Curriculum Construction: Industrial-Technical Education (4) ED EDV**

Design, development, implementation and evaluation of effective curricular materials in industrial, technical and health related occupations; includes individualized and self-paced materials. Open to majors and non-majors.

## **EVT 4365 Basic Teaching Methods in Vocational Education (4) EDEDV**

Examines the role of the vocational instructor in the teaching learning process; looks at factors that promote and inhibit learning. Reviews a wide variety of instructional approaches, techniques and methods; includes selection of techniques for situations.

## **EVT 4367 Assessing Student Skill in Industrial Technical Education (4) ED EDV**

Techniques for assessing student's mastery of skills in industrial/technical education. Focuses on specific competencies including developing and administering performance tests, monitoring student process, and others. Open to majors and non-majors.

## **EVT 4562 Vocational Education for Special Needs Students (4) EDEDV**

Focuses on modifying the vocational education curriculum, laboratory, shop, student outcomes, learning activities, tests, media, etc. to accommodate the unique learning needs of minority, handicapped, disadvantaged, non-traditional and other special needs students.

## **EVT 4651 Equity in Schools and the Workplace 6A MW (3) ED EDV**

Issues related to gender equity in schools and the workplace. Includes legal, ethical, psychological, sociological, and economic factors; males and females in traditional and non-traditional occupations.

## **EVT 4905 Independent Study: Industrial-Technical Education (1-4) ED EDV**

PR: Cl. S/U only. Specialized independent study determined by the student's needs and interests.

## **EVT 4909 Directed Study: Industrial-Technical Education (1-3) EDEDV**

PR: Cl. To extend competency in teaching field.

## **EVT 4936 Senior Seminar in Industrial-Technical Education (2) EDEDV**

PR: Senior standing; CR: EVT 4940. Synthesis of teacher candidate's courses in complete college program.

## **EVT 4940 Internship: Industrial-Technical Education (1-12) ED EDV**

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

## **EVT 4946 Supervised Field Experience: Industrial-Technical Education (1-6) ED EDV**

PR: Cl. S/U only. Planned supervised functions in the area of specialization and coordinated with selected schools, government, offices, social agencies, businesses and industries on site.

## **EVT 5369 Preparation and Development for Teaching (4) ED EDV**

The development of selected instructional materials, use of new educational media, performance evaluation instruments, and counseling techniques.

## **EVT 5664 School Community Development (3) ED EDV**

Identifying, assessing, and analyzing, individual, institutional and community needs for the purpose of cooperative program planning, community involvement, and public support.

## **EXP 4104 Sensory Processes (3) AS PSY**

PR: PSY 3213 with a grade of C or better or Cl. Available to both majors and non-majors. Psychophysical and neurophysiological data and theory underlying sensory processes. Visual, auditory, chemical, and somatosensory systems, with particular emphasis on visual processes.

## **EXP 4204C Perception (3) AS PSY**

PR: PSY 3213 with a grade of C or better or Cl. Topics include sensory and physiological bases of perception and how people process relevant information in their environments.

## **EXP 4304 Motivation (3) AS PSY**

PR: PSY 3213 with a grade of C or better or Cl. A survey of motivational processes and mechanisms from physiological and psychological viewpoints.

## **EXP 4404 Psychology of Learning (3) AS PSY**

PR: PSY 3213 with a grade of C or better or Cl. Survey of methods, empirical findings, and theoretical interpretations in conditioning and instrumental learning.

## **EXP 4640 Psychology of Language (3) AS PSY**

PR: PSY 3213. Historical survey of relations between psychology and linguistics leading to the emergence of psycholinguistics as a field of study. The current status of theory and research in the field will be covered.

## **EXP 4680C Cognitive Psychology (3) AS PSY**

PR: PSY 3213 with a grade of C or better or Cl. Survey of methods, empirical findings, and theoretical interpretations of human learning, information processing, verbal learning, and judgment and decision-making.

## **FIL 2000 Film: The Language Of Vision 6A FA (4) VP ART**

Exploration of the history of creative filmmaking from its beginnings to the present time. Open to both majors and non-majors.

## **FIL 3004 The Film as Mass Communication I: Syntax (3) AS COM**

PR: MMC 2100 and MMC 3602 or DPR. The language, conventions, elements, and patterns of the film medium as related to current models of effective mass communication and new theories of nonverbal communication.

## **FIL 3400 Film as Mass Communication II (3) AS COM**

A continuation of FIL 3004 to include the effective arrangements of scenes and sequences in motion picture and television films.

## **FIL 3427C Beginning Film (3) VP ART**

Intermediate problems in film with emphasis on the exploration of materials and media and the development of individual concepts.

## **FIL 3845 World Cinema 6A FA (4) VP ART**

Offers international perspectives through an examination of films from around the world. Each week narrative films from acclaimed directors will be screened, read about and discussed.

## **FIL 4050 Social History of the Film, 1945 to the Present (3) AS COM**

PR: MMC 2100 and MMC 3602 or DPR. The development of the film from 1945 to the present.

## **FIL 4433C Advanced Film (3) VP ART**

PR: FIL 3845. More advanced projects in filmmaking to further develop works both technically and conceptually.

## **FIL 5469C Cinematography (4) VP ART**

Advanced studio work using black and white, color and sound as technical and aesthetic factors in visual, artistic productions.

## **FIN 2104 Personal Finance (3) BA FIN**

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

## **FIN 2106 Introduction to Investments (3) BA FIN**

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

## **FIN 2935 Selected Topics in Finance (1-6) BA FIN**

Not available for credit to upper-level students who have been admitted to the College of Business Administration. Topics to be selected by department chair.

## **FIN 3233 Money and Banking (3) BA FIN**

PR: ECO 2013. Examines the structure and operations of the U.S. monetary system, commercial banking, central banking, money, and capital markets, and provides an introduction to monetary theory and policy.

## **FIN 3403 Principles of Finance (3) BA FIN**

PR: ACG 2071, ECO 2013, and ECO 2023. Study of the processes, decision structures, and institutional arrangements concerned with the use and acquisition of funds by a firm. Includes the management of the asset and liability structure of the firm under certain and risky situations. The financial decision process will include and recognize the international as well as domestic aspects of financial management.

**FIN 3604 International Finance (3) BA FIN**

PR: FIN 3403. Study of factors affecting international business, assessment of risks, international managerial finance, institutions and instruments of international business finance.

**FIN 4245 Federal Reserve System and Monetary Policy (3) BA FIN**

PR: FIN 3233 or CI. An analysis of the Federal Reserve System, with special emphasis on monetary theory and the formulation and administration of monetary policy.

**FIN 4303 Financial Institutions and Markets (3) BA FIN**

PR: FIN 3403. A study of financial institutions and their roles in the capital markets; includes the savings allocation, investment, and financial decision making processes.

**FIN 4324 Bank Management (3) BA FIN**

CP: FIN 3403. Application of traditional finance concepts to the management of commercial banks with emphasis on decision making and problem-solving techniques to major problem areas in banking.

**FIN 4412 Working Capital Management (3) BA FIN**

PR: FIN 3403. An examination of short-term financial management - that is, policies and decisions related to managing the current operations of a firm. Topics to be covered include cash management, credit and collection policy, inventory decisions, and sources of short-term financing.

**FIN 4414 Advanced Corporation Finance (3) BA FIN**

PR: FIN 3403. An examination of the financial policies of corporations, with special reference to dividend policy, financial structure, capital expenditures, acquisitions, mergers, and reorganizations.

**FIN 4443 Financial Policies and Strategies (3) BA FIN**

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

**FIN 4461 Financial Statement Analysis (3) BA FIN**

PR: FIN 3403. Provides an understanding of the relationship between financial statements produced in accordance with GAAP and the informational content such statements provide. After completing the course, the student should have a better understanding of the usefulness of published financial statements to various users in a variety of circumstances.

**FIN 4504 Principles of Investments (3) BA FIN**

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

**FIN 4514 Advanced Investment Analysis and Management (3) BA FIN**

PR: FIN 4504. A comprehensive study of security analysis and portfolio management. The course will utilize a quantitative approach to investment selection and management.

**FIN 4905 Independent Study (1-3) BA FIN**

PR: CI, CC, S/U only. Specialized independent study determined by the student's needs and interests.

**FIN 4915 Independent Research (1-3) BA FIN**

PR: CI. The research project will be mutually determined by the student and instructor.

**FIN 4934 Selected Topics in Finance (1-3) BA FIN**

Topics to be selected by instructor and department chairperson on pertinent finance issues.

**FLE 4290 Technology in the Foreign and Second Language Classroom (3) ED EDX**

This course prepares pre-service and in-service teachers to infuse technology into foreign language and ESOL instruction. Students will develop technology skills and knowledge based on sound pedagogical principles that reflect research and theory in Second Language Acquisition and will apply this practical and theoretical knowledge to K-16 Foreign Language/ESOL instructional situations.

**FLE 4314 Methods of Teaching Foreign Languages and ESOL in the Elementary School (3) ED EDX**

PR: EDG 4620 or concurrent registration. Fluency in target language and in English. Methods of planning and teaching foreign languages in the elementary school. The emphasis is on teaching communicatively and on integrating culture in the K-6 classroom.

**FLE 4316 Language Principles and Acquisition (1-3) ED EDX**

PR: FLE 4317. Overview of applied Second Language Acquisition theory and the components of language, linking them to methods and techniques of providing comprehensible instruction and supporting the development of oral proficiency and literacy skills for (LEP) children.

**FLE 4317 Teaching Students with Limited English Proficiency (3) ED EDX**

This course is designed to prepare preprofessional teachers to provide linguistically and culturally appropriate instruction, assessment, and learning opportunities for students with Limited English Proficiency.

**FLE 4333 Methods of Teaching Foreign Languages and ESOL in the Secondary School (3) ED EDX**

PR: FLE 4314. Fluency in the target language and in English or DPR. Methods of teaching foreign languages within a communicative framework. Includes examination and practice of current instructional techniques in listening, speaking, reading and writing skills, testing, error correction, and computer assisted language instruction. The emphasis is on teaching foreign languages and teaching for cultural understanding at the secondary level 7-12.

**FLE 4362 ESOL 1 - Curriculum and Pedagogy of ESOL (3) ED EDX**

This course is designed to prepare pre-professional (pre-service) teachers to provide linguistically and culturally appropriate instruction, learning opportunities and assessment for English Language Learners (ELLs) in grades K-12.

**FLE 4363 ESOL 2 - Literacy Development in English Language Learners (3) ED EDX**

PR: FLE 4362 or FLE 4317. This course is designed to provide students with a critical understanding of instructional delivery which caters to the linguistic and literacy needs of minority/heritage communities. Providing students with a sociocultural-critical theoretical framework.

**FLE 4364 ESOL 3 - Applying Linguistics to ESOL Teaching and Testing (3) ED EDX**

PR: FLE 4362 and FLE 4363. This course provides an overview of the components of language, linking them to methods and techniques of providing comprehensible instruction to English Language Learners (ELLs) and supports the development of professional literacy skills.

**FLE 4365 ESOL Competencies and Strategies (1-3) ED EDX**

Designed to enable participants to meet the special limitations and cultural educational needs of LEP students in content area classes. Designed to provide a theoretical and practical foundation for ESOL competencies and strategies.

**FLE 4370 Practicum in Foreign Language Teaching in the Secondary School (3) ED EDX**

PR: Senior standing or enrollment in Plan II Master's Program or DPR. Required concurrently with FLE 4314 or FLE 4333. Fluency in the target language and in English. Pre-internship field experience in a K-12 environment. Will include observation and practice in a K-12 classroom as well as class meetings.

**FLE 4936 Senior Seminar in Foreign Language Education (2) ED EDX**

PR: Senior standing. Required concurrently with internship. Synthesis of teacher candidate's courses in complete college program.

**FLE 4940 Internship: Foreign Language Education (1-12) ED EDX**

Intern takes Senior Seminar in Education concurrently. S/U only. One full semester of internship in a public or private school.

**FLE 5145 Language Principles, Acquisition and Teaching (3) ED EDX**

PR: FLE 5345 Restricted to Education majors and not repeatable for credit. Overview of applied SLA theory and components of language. Methods & techniques of comprehensible instruction and the development of oral proficiency and literacy skills for LEP children.

**FLE 5291 Technology in the Foreign Language Classroom (3) ED EDX**

PR: FLE 5313 and FLE 5331. This course is intended to prepare foreign/second language teachers to provide pedagogically sound and technologically enhanced instruction for foreign language and second language students in the K-16 realm. Basic computer literacy is recommended.

**FLE 5313 Methods of Teaching Foreign Language and ESOL in the Elementary School (3) ED EDX**

This course is designed to provide training in the theory and methods of teaching foreign languages and ESOL in the elementary school (FLES) to both pre- and in-service teachers.

**FLE 5331 Methods of Teaching Foreign Language and ESOL in the Secondary School (3) ED EDX**

PR: FLE 5313. This course provides for the development of knowledge and skills necessary to prepare students to assume roles as foreign language (FL) and ESOL teachers at the secondary school level. It represents the second part of a sequence of methods courses.

## **FLE 5345 Teaching English Language Learners K-12 (3) ED EDX**

This course is restricted to Education majors and is not repeatable for credit. It is designed to prepare preprofessional teachers to provide linguistically and culturally appropriate instruction, assessment, and learning opportunities for LEP students.

## **FLE 5366 ESOL Education in Content Areas (3) ED EDX**

Enables participants to meet the special linguistic & cultural educational needs of limited English proficient (LEP) students in content area classes. Provides a theoretical & practical foundation for ESOL competencies in courses include ESOL infusion.

## **FLE 5430 ESOL I - Theory and Practice of Teaching English Language Learners (3) ED EDX**

This course is for undergraduate degree holding, preprofessional (preservice) teachers to learn about appropriate instruction, assessment and learning opportunities for Limited English Proficient (LEP) students in the content areas.

## **FLE 5431 ESOL II-Secondary Language & Literacy Acquisition in Children & Adolescents (3) ED EDX**

PR: FLE 5430. This course is designed to provide students with a critical understanding of instructional delivery which caters for the linguistic and literacy needs of minority / heritage communities.

## **FLE 5432 ESOL III-Language Principles, Acquisition & Assessment for English Language Learners (3) ED EDX**

PR: FLE 5431. This course provides an overview of the components of language, linking them to methods and techniques of providing comprehensible instruction to LEP students.

## **FLE 5895 Dual Language Education (3) ED EDX**

This course is for teachers who are interested in bilingual education. The aim is to deconstruct the philosophical, theoretical, political, social and educational underpinning of instruction (K-16) when it is delivered through two languages.

## **FLE 5940 ESOL Practicum (1-3) ED EDX**

PR: FLE 5345 and FLE 5145. Must be taken in the semester prior to final internship. This course is restricted to Education majors and will not be repeatable for credit. A structured field experience with Limited English Proficient students.

## **FLE 5946 Practicum in Foreign Language/ESOL Teaching (3) EDEDX**

PR: FLE 5313. CR: FLE 5331. This course prepares students for their internship by providing a structured pre-internship experience while meeting regularly in a university class. Opportunity to see teachers in action.

## **FOL 3100 General Foreign Language I (1-4) AS WLE**

A general purpose course that may be used for transfer of credit, credit by examination, and similar matters; may also be used for formal courses in less commonly taught languages or in professional translation.

## **FOL 4101 General Foreign Language II (1-3) AS WLE**

A general purpose course that may be used for transfer of credit, credit by examination, and similar matters; may also be used for formal courses in less commonly taught languages or for workshops in professional interpreting.

## **FOL 4905 Directed Study (1-3) AS WLE**

Departmental approval required.

## **FOL 5906 Directed Study (1-3) AS WLE**

PR: FOL 4101 or equivalent.

## **FRE 1120 Beginning French I (4) AS WLE**

CR: FRE 1120L. The first course in the study of elementary French. Emphasis on the development of basic skills in comprehension, speaking and reading.

## **FRE 1120L Beginning French I Laboratory (1) AS WLE**

CR: FRE 1120. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

## **FRE 1121 Beginning French II (4) AS WLE**

PR: FRE 1120 or equivalent. CR: FRE 1121L. A continuation of FRE 1120.

## **FRE 1121L Beginning French II Laboratory (1) AS WLE**

CR: FRE 1121. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

## **FRE 1170 Overseas Study-Elem. French (4) AS WLE**

Departmental approval required. Elementary-level French taught in France. In lieu of FRE 1120 and FRE 1121.

## **FRE 2200 French III (3) AS WLE**

PR: FRE 1121 or equivalent. A review of the basic structure of French.

## **FRE 2201 French IV (3) AS WLE**

PR: FRE 2200 or equivalent. Readings in French on the intermediate level.

## **FRE 2240 Conversation II (3) AS WLE**

PR: FRE 2241 or equivalent proficiency Conversation practice with concentration on current idiomatic usage.

## **FRE 2241 Conversation I (3) AS WLE**

PR: FRE 1121. For development of basic conversational skills.

## **FRE 2270 Overseas Study-Intro. French (1-6) AS WLE**

PR: Two semesters of university-level French or equivalent proficiency. Departmental approval required.

## **FRE 3234 Reading in French Literature and Culture (3) AS WLE**

PR: FRE 2201 or equivalent. This course is designed to build reading skills in French while giving students a broad background in French culture.

## **FRE 3420 Composition I (3) AS WLE**

PR: FRE 2200 and/or FRE 2201. A fundamental composition course for students who have completed FRE 2200 and/or 2201.

## **FRE 3440 French For Business (3) AS WLE**

PR: FRE 2200 or equivalent. An introduction to the French language in ordinary business transactions.

## **FRE 3470 Overseas Study (1-6) AS WLE**

Departmental approval required. An intensive study-travel project in France.

## **FRE 3500 French Civilization (3) AS WLE**

Readings and discussion on the cultural history of France.

## **FRE 3502 The Francophone World MW (3) AS WLE**

An undergraduate 3 credit course, which offers an overview of the main French speaking cultures throughout the world, outside of France: French Canada, the Caribbean, Belgium, Switzerland, the Maghreb, Sub-Saharan Africa, the Indian Ocean, the Middle East, Southeast Asia, Louisiana.

## **FRE 4392 African Images in Francophone Film HP AF SS MW (3) AS WLE**

This is a film based course and technologically enhanced course which will look at cultural, socio-economic, political and gender issues in French speaking Africa. Course materials will be available in English and French.

## **FRE 4421 Composition II (3) AS WLE**

Continuation of French composition. This course is designed to follow FRE 3420.

## **FRE 4471 Advanced Overseas Study (1-6) AS WLE**

PR: FRE 3470 or CI. Departmental approval required. Intensive language study in France.

## **FRE 4700 French Linguistics (3) AS WLE**

PR: LIN 3010 and FRE 2201 or equivalent. An introduction to the phonological, morphological and syntactic structure of French.

## **FRE 4905 Directed Study (1-3) AS WLE**

Departmental approval required.

## **FRE 4930 Selected Topics (1-3) AS WLE**

Study of an author, movement or theme.

## **FRE 5425 Advanced Written Expression (3) AS WLE**

PR: FRE 4421, or equivalent. Course is designed to give advanced training in free composition in French.

## **FRE 5566 Contemporary France (3) AS WLE**

PR: FRE 3500 or equivalent or graduate standing. An advanced course in French civilization and culture including a study of recent social, artistic and political trends as well as various current intellectual movements. Text and discussions in French.

## **FRT 3001 Great French Love Stories in Translation MW (3) AS WLE**

An overview of the evolution of the concept of romantic and passionate love in French literature throughout the centuries and its impact on western literature and thought.

## **FRT 3140 French Literary Masterpieces in English Translation 6A LW (3) AS WLE**

A survey of the major literary works of France, tracing not only literary but intellectual and cultural history from the Middle Ages to the present.

## **FRW 4100 The French Novel MW (3) AS WLE**

PR: FRE 3234, FRE 3420 or CI. Study of the most representative novels from the 17th - 20th centuries in France, examining literary movements, ideas, and techniques. Course taught in French.

## **FRW 4101 Introduction to French Drama and Poetry MW (3) AS WLE**

PR: FRE 3234. A study of the history of drama and poetry. Will include medieval drama, Racine, Corneille, Moliere, Anouilh, Sartre, Ionesco and others. Will also include Villon, Ronsard, DuBelay, Lamartine, Hugo, Vigny, Musset, Baudelaire, Mallarme, Rimbaud, Valery, Peguy, Eluard, Apollinaire, Char, and others. Course content may vary from year to year. Course taught in French.

## **FRW 5222 Classical Prose and Poetry (3) AS WLE**

PR: FRW 4101. Emphasis on Malherbe, Descartes, Pascal, La Fontaine, and Boileau.

## 292 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

### FRW 5226 20th Century Poetry and Theatre (3) AS WLE

PR: FRW 4101. Valery, Claudel, Anouilh, Motherland, Sartre, Ionesco.

### FRW 5286 The 20th Century Novel (3) AS WLE

PR: FRW 4100. Proust, Gide, Mauriac, Malraux, Camus, Robbe-Grillet.

### FRW 5314 Classical Drama (3) AS WLE

PR: FRW 4101. Corneille, Moliere, and Racine.

### FRW 5415 Literature of the Middle Ages (3) AS WLE

PR: FRW 4100 or FRW 4101. Major genres, including epics, Arthurian romances, drama and lyric poetry. Reading in modern French translation.

### FRW 5425 Literature of the Renaissance (3) AS WLE

PR: FRW 4100 or FRW 4101. A study of Renaissance French humanism including Rabelais, Montaigne, and Pleiade poets.

### FRW 5445 18th Century Literature (3) AS WLE

PR: FRW 4100. The classical tradition and the new currents of thought in the Age of Enlightenment.

### FRW 5528 Pre-Romanticism (3) AS WLE

PR: FRW 4100 or FRW 4101. The precursors of romanticism. Emphasis on Rousseau, Bernardin de St. Pierre, Chenier, and Chateaubriand.

### FRW 5535 Romanticism and Early Realism (3) AS WLE

PR: FRW 4101. A study of the romantic and early realistic movements with emphasis on Lamartine, Vigny, Musset, Hugo, and Balzac.

### FRW 5556 Naturalism and Realism (3) AS WLE

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

### FRW 5745 French Literature of Quebec (3) AS WLE

PR: A survey of Francophone literature and cultures is recommended. Overview of the main representative literary works in French from Quebec in all genres (poetry, drama, novel, short story) as well as a survey of the main traits of Quebec history & culture. Open to non-majors. Not repeatable for credit. Taught in French.

### FRW 5755 African and Caribbean Literature (3) AS WLE

PR: A survey of French literature. An overview of the main representative literary works in French from North and SubSahara Africa as well as the Caribbean. Open to non-majors and not repeatable for credit. Course taught in French.

### FRW 5829 An Introduction to Modern French Literary Criticism (3) AS WLE

A graduate elective 3 credit course entirely taught in French, which offers a survey of the main trends and methods in 20th Century literary criticism, the French having been at the avant-garde of the field.

### FRW 5934 Selected Topics (1-3) AS WLE

PR: Upper-level or graduate standing. Study of an author, movement or theme.

### FSS 3231 Introduction to Food Production Management (3) US HRM

Food preparation, standards and techniques in commercial food production and service. Factors affecting the quality of food, practical experience in food production and service, in accordance with food standards, sanitation & safety and cost control.

### GEA 2000 World Regional Geography SS HP AF (4) AS GPY

Comparative and analytical analysis of representative regions of the world with emphasis on cultural, political, economic, environmental, and physical diversity.

### GEA 3194 Regional Geography (4) AS GPY

Variable title course to systematically study and compare special regions identified by the instructor.

### GEA 3405 Geography of Latin America 6A (4) AS GPY

Systematic geographic analysis of the Latin American world region, with emphasis on its cultural, political, economic, environmental, and physical diversity.

### GEA 3500 Geography of Europe 6A (4) AS GPY

Systematic geographic analysis of the European world region, with emphasis on its cultural, political, economic, environmental, and physical diversity.

### GEA 3703 Geography of Asia (4) AS GPY

Systematic geographic analysis of the Asian world region, with emphasis on its cultural, political, economic, environmental, and physical diversity.

### GEB 2350 Doing Business Around the World SS (3) BA GBA

This course introduces the student to: 1) the nature of international business; 2) the framework of international organizations and the monetary system within which international business functions; 3) forces affecting international business, and 4) management responses to problems caused by international environments.

### GEB 2935 Selected Topics in Business (1-6) BA GBA

Topics to be selected by department chairs.

### GEB 4890 Strategic Management and Decision Making MW (3) BA GBA

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

### GEB 4905 Independent Study (1-3) BA GBA

PR: CI. S/U only. Specialized independent study determined by the student's needs and interests.

### GEB 4915 Independent Research (1-4) BA GBA

PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor.

### GEB 4935 Selected Topics in Business Administration (1-4) BA GBA

The content and organization of this course will vary according to the current interests of the faculty and needs of students.

### GEO 1930 Geography of Current Events SS (4) AS GPY

Application of basic geographic principles to the analysis of contemporary events in various parts of the world.

### GEO 2200 Introduction to Physical Geography NS (3) AS GPY

CR: GEO 2200L. Principles of physical geography; maps, earth-sun relationships; meteorological, hydrological, pedological, aeolian, and glacial processes; and resultant landforms.

### GEO 2200L Introduction to Physical Geography Lab (1) AS GPY

CR: GEO 2200. Laboratory portion of Introduction to Physical Geography (GEO 2200).

### GEO 2371 Introduction to Earth Systems Science NS (3) AS GPY

For non-majors only. The application of basic earth system science analysis to environmental problems. Review of impact of human activities on the surface of the earth at local and global scales.

### GEO 2400 Introduction to Human Geography SS (4) AS GPY

Systematic treatment of human activities on earth; population, settlement, agriculture, industry, trade, transportation, and political aspects are among those considered.

### GEO 2931 Special Topics (1-4) AS GPY

Topics are at the discretion of the instructor. This course will offer lower level topics to attract new majors.

### GEO 3164C Research Methods in Geography (4) AS GPY

PR: STA 2023 or STA 2122 or QMB 2100. Statistical analysis in geographic research.

### GEO 3602 Urban Geography (4) AS GPY

PR: GEO 2400 or CI. Spatial analysis of urban areas; growth, location, spacing, and size. Development, site, situation, internal structure, and hinterland are considered.

### GEO 4114C Geographic Techniques and Methodology (4) AS GPY

PR: GIS 3006 and GEO 3164C, or CI. Selected topics in various geographic techniques and methodologies and their application.

### GEO 4204C Topics in Physical Geography (4) AS GPY

PR: GEO 2200 or CI. Intensive study of a topic selected from physical geography.

### GEO 4210 Process Geomorphology (4) AS GPY

PR: GEO 2200 or GLY 2010 or CI. Origin, evolution, and distribution of the landforms of North America.

### GEO 4244 Tropical Meteorology NS (4) AS GPY

PR: GEO 2200, one approved Calculus course, or CI. This course examines the tropical atmosphere, its interaction with land and ocean, as well as weather and climate phenomena that are unique to the tropics. Students will take an in-depth look at hurricane climatology, the El Nino and Southern Oscillation phenomenon, thunderstorms and lightning, satellite remote sensing, monsoons, sea-breeze convergence and Florida climatology, surface energy exchange, land use change and its impact on tropical climates.

### GEO 4265 Soil Genesis and Classification (4) AS GPY

PR: GEO 2200, or CI. A systematic study of soil genesis and classification with a focus on North American and Florida soils.

### GEO 4280C Hydrology (4) AS GPY

PR: GEO 2200 or CI. Introduction to the general principles that govern hydrologic processes. Approaches to hydrologic measurements and the application of hydrologic analyses to water-resource management issues are examined.

### GEO 4284 Water Resources Management NS (4) AS GPY

PR: Senior standing. Geographic perspectives on water resources management at the global, national and local scale, including political, socio-economic, technical and scientific aspects.

### GEO 4300 Biogeography (4) AS GPY

PR: GEO 2200 and GEO 3164C, or CI. Analysis of the present and past distribution of species at an intermediate to large spatial scale.

## GEO 4340 Natural Hazards (4) AS GPY

PR: Junior or Senior Standing. Examination of the physical, social, economic, political and cultural forces that create the phenomena of natural hazards. Case studies from around the world will include floods, droughts, tornadoes, hurricanes, freezes, heat waves, wild fires, earthquakes, tsunamis, and volcanoes.

## GEO 4372 Global Conservation 6A MW (4) AS GPY

The distribution, exploitation, and conservation of physical and human resources, ecology.

## GEO 4421 Cultural Geography (4) AS GPY

PR: GEO 2400 or CI. The interrelationships of culture and nature, from ancient times to the present.

## GEO 4471 Political Geography MW (4) AS GPY

PR: GEO 2400 or CI. The geographic factors underlying political decisions and influencing their outcome; the geographic consequences of these decisions; geopolitics.

## GEO 4502 Economic Geography (4) AS GPY

PR: GEO 2400 or CI. The spatial organization of economic production, consumption, and exchange systems.

## GEO 4604 Topics in Urban Geography MW (4) AS GPY

PR: GEO 3602, or CI. Intensive examination of issues such as economic restructuring and inner-city decline, ghetto formation, gentrification, transportation, and policy-making.

## GEO 4700 Transportation Geography (4) AS GPY

PR: GEO 2400 and GEO 3164 or CI. General concepts related to the movement of goods and people, with particular emphasis on spatial principles and urban transportation problems and planning.

## GEO 4900 Directed Reading (1-4) AS GPY

PR: 20 hours in geography and CI prior to registration.

## GEO 4910 Individual Research (1-4) AS GPY

PR: 20 hours in geography and CI prior to registration.

## GEO 4930 Selected Topics (4) AS GPY

Topics are at the discretion of the instructor. This course will offer upper level, advanced topics in all aspects of Geography. Course can be repeated for credit as long as the title is different, for up to 8 credits.

## GEO 4933 Geography Colloquium (1) AS GPY

Senior Standing in geography Weekly topical lectures by faculty and outside speakers. Students will develop a plan for their professional or graduate careers.

## GER 1120 Beginning German I (4) AS WLE

CR: GER 1120L. Development of basic skills in listening and reading comprehension, speaking and writing of German.

## GER 1120L Beginning German I Laboratory (1) AS WLE

CR: GER 1120. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

## GER 1121 Beginning German II (4) AS WLE

PR: GER 1120 or equivalent. CR: GER 1121L. Continued development of basic skills in listening and reading comprehension, speaking and writing German.

## GER 1121L Beginning German II Laboratory (1) AS WLE

CR: GER 1121. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

## GER 2200 German III (3) AS WLE

PR: GER 1121 or equivalent. A review of the basic structure of spoken and written German. May be taken concurrently with GER 2201.

## GER 2201 German IV (3) AS WLE

PR: GER 1121 or equivalent. Readings in German on the intermediate level. May be taken concurrently with GER 2200.

## GER 2240 Conversation I (3) AS WLE

PR: GER 1121. For development of basic conversational skills.

## GER 3420 Composition I (3) AS WLE

A fundamental course for students who have completed GER 2200 or GER 2201.

## GER 3440 German for Business and International Trade (3) AS WLE

PR: GER 2200, or CI. An introduction to the German language in ordinary business transactions.

## GER 3500 German Civilization (3) AS WLE

PR: GER 2200 or GER 2201. Readings in German on the cultural history of Germany.

## GER 3573 Cultural Observations in Germany (3) AS WLE

This course allows students to experience Germany from a cultural/historical perspective and gives them insights into a city's significance within Germany as a whole. It also includes an emphasis on German language use and cultural practices.

## GER 4410 Conversation II (3) AS WLE

Free conversation based on the current German idiom.

## GER 4421 Composition II (3) AS WLE

Practical training in modern German usage and differences of style.

## GER 5845 History of the German Language (3) AS WLE

A diachronic approach to the study of the German language. The course traces the history and development of the language from Indo-European through Germanic, Old, Middle, and New High German.

## GET 3103 German Literature in English Translation MW (3) AS WLE

Analysis and interpretation of selected major works of German literature, to be read in English, with regard to their thought content and relevance to our thoughts and actions.

## GET 3522 Fantastic Films of Early German Cinema HP MW (4) AS WLE

An overview of early 20th century German films with emphasis on horror, science fiction, and fantasy films. Course offers insights into Germany's artistic, intellectual, and social history, as well as general film history and criticism. Taught in English.

## GET 3524 German Popular Film HP MW (4) AS WLE

Overview of films with significant popular success at German box office from 1920s to present. Films will be discussed in the context of Germany's artistic, intellectual, and social history as well as general film history and criticism. Taught in English.

## GET 4523 New German Cinema to Present MW HP (4) AS WLE

An overview of post-1945 German films with emphasis on films from New German Cinema (1960s-early 80s) & its aftermath. Course offers insights into Germany's artistic, intellectual, and social history, as well as general film history and criticism. Taught in English.

## GEW 4100 Survey of German Literature I (3) AS WLE

Course will examine a variety of texts from the 9th to the early 19th century, exposing significant moments in German literature and thought and exploring diverse perspectives on German culture and society. Course taught in German. Not repeatable.

## GEW 4101 Survey of German Literature II (3) AS WLE

Course will examine a variety of texts from the 19th century to the present, exposing significant moments in German literature and thought and exploring diverse perspectives on German culture and society. Course taught in German. Course not repeatable.

## GEW 4750 Women in Contemporary German Literature and Film HP (3) AS WLE

PR: GER 2200 or above or CI. This course serves as an introduction to contemporary literary works and films by women writers and directors from German speaking countries. It will examine the works based on feminist literary and cultural theory.

## GEW 4900 Directed Study (1-3) AS WLE

Departmental approval required.

## GEW 4930 Selected Topics (1-3) AS WLE

Study of an author, movement or theme.

## GEW 5475 20th Century Literature to 1945 (3) AS WLE

A study of major styles in German literature from 1900 to WW II with emphasis on Hauptmann, Schnitzler, Hofmannsthal, George Rilke, Kaiser, Heym, Trakl, Thomas Mann, Hesse, Kafka, Benn, Brecht.

## GEW 5489 20th Century Literature: 1945 to Present (3) AS WLE

Study of major trends in German literature since WW II with emphasis on Borchert, Frisch, Durrenmatt, Boll, Uwe, Johnson, Grass, Aichinger, Eich Enzensberger, Bachmann.

## GEW 5515 The Enlightenment (3) AS WLE

Selected dramas and critical writings by Lessing, Wieland, Kant.

## GEW 5545 Romanticism (3) AS WLE

Jenaer circle and Heidelberger circle; the late romantic period, the writers between Classicism and Romanticism.

## GEW 5555 Realism (3) AS WLE

Selected works by Grillparzer, Grabbe, Buchner, Hebbel, Heine, Immerman, Stifter, Keller, Meyer, Storm, Raabe, Hulshoff, and Morike.

## GEW 5606 Faust (3) AS WLE

Sources, form, content, and literary significance of Urfaust and Faust.

## GEW 5615 Schiller (3) AS WLE

Selected dramas, philosophical, and aesthetical writings.

## GEW 5934 Selected Topics (1-3) AS WLE

PR: Upper-level or graduate standing. Study of an author, movement or theme.

## GEY 2000 Introduction to Gerontology SS (3) AS GEY

This course is designed to be an introduction to the study of aging. The aging process is viewed from a multi-disciplinary perspective including the biological, psychological, and sociological aspects of aging.

**GEY 3323 Community Services for Older Adults (3) AS GEY**

This class is designed to introduce students to services available to older adults and to careers in the field of aging services. Content includes theoretical and practical issues, as well as exposure to opportunities for service and employment.

**GEY 3601 Physical Changes and Aging (3) AS GEY**

A survey of normal and pathological physical changes occurring from middle age through older age. Course emphasis will be on basic age-related changes and their implications for behavior in older age.

**GEY 3625 Sociocultural Aspects of Aging SS AF (3) AS GEY**

Consideration of human aging in a broad sociocultural context. Course emphasis will be on historical, philosophic, and demographic aspects of aging, theories of social gerontology, attitudes toward aging and the aged, cross-cultural perspectives on aging, the sociology of retirement, and aging and the community.

**GEY 4322 Gerontological Case Management (3) AS GEY**

This course examines the role and function of case management in meeting the care needs of the older adult. All aspects of case management practice are covered, including the elements of the case management process as well as ethical and legal issues.

**GEY 4327 Understanding Policies and Practices of Long Term Care HP SS MW (3) AS GEY**

PR: GEY 2000. This course provides principles for managing disability in a variety of settings. Topics include historical context, experience of disability, and challenges of providing care for disabled persons. Course is repeatable and not restricted to GEY majors.

**GEY 4328 Health Care Operations AF HP SS MW (3) AS GEY**

PR: GEY 4327, ACG 2011, each with a grade of C or better. This course addresses the health care operations of long-term care facilities. This course is for students in the BS in long-term care administration, but not limited to GEY majors. The course is repeatable for credit.

**GEY 4329 Regulatory and Clinical Operations (3) AS GEY**

PR: GEY 4328, ACG 2011, each with a grade of C or better. This course will familiarize the student with the basic aspects of nursing home administration through the practical application of management theory and concepts. The course is not repeatable and not restricted to GEY majors.

**GEY 4340 Retirement and LTC Housing for the Elderly (3) AS GEY**

This course focuses on housing, environment, and long-term care theories, availability of affordable housing with services, and a number of age-related housing solutions. Repeatable for credit, and not restricted to GEY majors.

**GEY 4360 Gerontological Counseling (3) AS GEY**

An introduction to the study of the major mental health problems of the elderly. Current approaches to counseling the elderly in community and institutional settings are discussed.

**GEY 4401 Research Methods in Gerontology (3) AS GEY**

PR: STA 2122 or equivalent with a grade of C or better. Restricted to Gerontology majors, others by departmental permission. Methods and techniques of social research in gerontology. Design of gerontological studies, collection and analysis of data, interpretation of results, and preparation of reports.

**GEY 4608 Alzheimer's Disease Management (3) AS GEY**

PR: GEY 2000 or GEY 3326. This course will provide instruction on effective approaches for providing care to persons with Alzheimer's Disease and related disorders in residential and home care settings. The major dementing disorders and typical behaviors presented by patients are presented along with strategies for successful behavior management. Building a dementia program and building dementia care teams are also covered.

**GEY 4612 Psychology of Aging SS (3) AS GEY**

A comprehensive overview of psychological aspects of aging. Topics will include age-related changes in sensation/perception, cognition, and personality, as well as application to late-life psychopathology.

**GEY 4628 Race, Ethnicity and Aging SS (3) AS GEY**

This course addresses how people of different ethnic and racial groups age, in the physical, psychological, and social context. Topics include cultural competence and sensitivity. Not restricted; not repeatable.

**GEY 4635 Business Management in an Aging Society MW (3) AS GEY**

This course provides students with an interdisciplinary perspective that addresses both business management and the impact of our aging society on business.

**GEY 4641 Death and Dying SS (3) AS GEY**

A broad overview of the basic concepts and psychosocial issues relating to the meaning of loss and death, the process of death, and

the experience of grieving. Health care practices are considered along with community resources.

**GEY 4647 Ethical and Legal Issues of Aging SS MW (3) AS GEY**

A consideration of the major ethical and legal issues in aging and their implications for policies, priorities, and services.

**GEY 4900 Directed Readings (1-3) AS GEY**

PR: CI. A reading program with topics in gerontology conducted under the supervision of a faculty member.

**GEY 4935 Special Topics in Gerontology (3) AS GEY**

Courses on topics such as preretirement, mental health, human services organization, nursing home administration, the older woman, and elder abuse will be offered.

**GEY 4945 Field Placement (1-9) AS GEY**

PR: CI. Subject to availability of internship sites approved by the School of Aging Studies. Internship in an agency or community setting. A full-time assignment to an agency or organization, engaged in planning or administering programs for older people if in the BA program (6 hours), or to a nursing home if in the BS program (9 hours).

**GEY 5620 Sociological Aspects Of Aging (3) AS GEY**

Examines, within a sociological frame of reference, the interrelationships between the aged (or aging) and the structure and function of the social system and its major institutionalized subsystems.

**GEY 5630 Economics and Aging (3) AS GEY**

Examines basic economic systems as they impact the aged. Emphasis is on applied aspects of economic planning, pensions, insurance, social security and other support systems.

**GEY 5642 Perspectives on Death and Dying (3) AS GEY**

Study of the various psychological, medical, legal, and religious problems caused by dying and death, and how individuals and groups have responded in the past and present.

**GIS 2010C Map Interpretation (4) AS GPY**

Analysis and synthesis of various types of maps and map projections.

**GIS 3006 Computer Cartography (4) AS GPY**

An introduction to the concepts underlying modern, computer-based mapping and to the collection and storage of digital spatial data.

**GIS 4035C Remote Sensing of the Environment (4) AS GPY**

PR: GIS 3006 and GEO 3164C, or CI. Analysis of satellite images and aerial photographs for studies of the environment.

**GIS 4043C Geographic Information Systems (4) AS GPY**

PR: GIS 3006 and GEO 3164C, or CI. An introduction to the concepts underlying Geographical Information Systems, with an emphasis on analytical capabilities of such systems in both raster and vector domains.

**GIS 5049 GIS for Non-Majors (3) AS GPY**

An introduction to the concepts underlying digital thematic mapping and geographical information systems (GIS) for non-geography majors and non-geography graduate students.

**GIS 5075 Global Positioning Systems (3) AS GPY**

PR: GIS 5049: GIS for Non-Majors or permission from the instructor. Examination of the theory, operation and application of Global Positioning Systems (GPS).

**GLY 2000 Earth and Environmental Systems NS (3) AS GLY**

May substitute for GLY 2010 for geology majors. This course examines the geology of the earth and the environment, using an earth systems approach that looks at interactions between the lithosphere, hydrosphere, atmosphere, and biosphere. Students will learn general principles of geology, travel world-wide on the internet, and participate in discussions on topics ranging from the scientific method to the latest geologic discoveries. Open University course; taught via internet and TV. Open University course; taught via internet and TV.

**GLY 2000L Essentials of Geology Laboratory (1) AS GLY**

Fundamental concepts and skills of modern geology, including rock and mineral identification, analysis of geologic maps, field analysis, and applications of computers in Geology. Required field trip.

**GLY 2010 Dynamic Earth: Introduction to Physical Geology NS (3) AS GLY**

Required for Geology majors; open to non-majors. Study of minerals, rocks, and dynamic processes of the earth. Introduction to the origin of earth's materials, landforms, and structures.

**GLY 2010L Dynamic Earth Laboratory (1) AS GLY**

PR: GLY 2010 or concurrent registration. Required for Geology majors; open to non-majors. Laboratory study of earth materials, landforms, geologic structures, topographic and geologic maps. Lec-lab-field trips.

## **GLY 2030 Hazards of the Earth's Surface: Environmental Geology NS (3) AS GLY**

May substitute for GLY 2010 for geology majors. A first course in geology emphasizing environmental aspects of the earth's crust, such as earthquakes, depletion of the earth's resources, water-supply problems, and geologic aspects of land use and planning.

## **GLY 2050 Science, Earth and Life NS (3) AS GLY**

May substitute for GLY 2010 for geology majors. The nature, history and philosophy of science intended primarily for non-science majors. Consideration of science as a way of knowing through examples taken primarily from historical geology and biology (e.g., extinction of the dinosaurs, continental drift, evolution) but also from physics and astronomy. Consideration of social relevance of science.

## **GLY 2051 Origins: From the Big Bang to the Ice Age NS (3) AS GLY**

The history of the cosmos, origin of the universe, galaxies, the solar system, and earth, evolution of life, great extinction's including the dinosaurs, evolution of the primates, and the environmental future of the planet. (For both non-science and science majors.)

## **GLY 2100 History of the Earth and Life NS (3) AS GLY**

PR: A course in geology. Required for Geology majors; open to non-majors. Study of the physical and biological history of the earth including evolution of the major groups of organisms, plate tectonics, and interpretation of ancient environments.

## **GLY 2100L Earth History Laboratory (1) AS GLY**

Laboratory study of the history of the earth and life. Required for Geology majors; open to non-majors.

## **GLY 2160 Geology of the National Parks NS (3) AS GLY**

This course is an introduction to the nature of geologic processes including plate tectonics, earthquakes, volcanism, glaciation, and shoreline processes drawing on examples from our National Parks.

## **GLY 2930 Selected Topics in Geology (1-3) AS GLY**

Does not count toward the geology major. Topical courses in geology of general interest.

## **GLY 3311C The Solid Earth: Petrology and Geochemistry (4) AS GLY**

PR: GLY 200L; CHM 2045, MAC 2281. Igneous and metamorphic rocks of modern and ancient tectonic environments. Rock-forming processes at plate margins and intraplate sites. Essentials of hand specimen and microscopic mineralogy. Required field trip. Lec-lab. May not be repeated for credit.

## **GLY 3402C The Solid Earth: Plate Tectonics and Earth Structure (4) AS GLY**

PR: 4 hrs. introductory geology including GLY 2000L; MAC 2312 or equivalent; PHY 2048. Plate tectonic theory and its implication re: the formation of structural features on outcrop and regional scales. Field and geophysical tools for structural analysis. Required field trip. Lec-Lab.

## **GLY 3552C Sedimentary Record 1: Sedimentary Processes and Petrology (4) AS GLY**

PR: GLY 2000L, CHM 2045, MAC 2281. CR: GLY 3311C. A lecture and laboratory class that discusses sedimentary processes, formation and classification of sedimentary rock, and the sedimentary rock record. Examination of the rock record to solve problems in sedimentary geology.

## **GLY 3610C Introduction to Invertebrate Paleontology (4) AS GLY**

PR: GLY 2100. BSC 2010 or equivalent strongly encouraged as background. Lectures cover principles and applications of paleontology, including biostratigraphy, taphonomy, paleoecology, and micro- and macroevolutionary patterns and processes. Labs survey the invertebrate phyla comprising the bulk of the fossil record.

## **GLY 3720C The Fluid Earth (4) AS GLY**

PR: GLY 2000L; MAC 2311 and MAC 2312 or equivalent; CHM 2045 and CHM 2046; PHY 2048 and PHY 2048L. Physical, chemical and biological processes affecting fluids of the lithosphere, oceans and atmosphere. Water as a geologic medium and global entity. A systems approach. Not available as S/U for geology majors; S/U available for others.

## **GLY 3850 Geology For Engineers (3) AS GLY**

PR: Junior standing in College of Engineering or CI. No credit toward the geology major, or for those with credit for GLY 2010. An examination of geologic materials and processes designed for engineering students; classification and properties of earth materials, surface processes, site investigation techniques, applications of geology to the solution of engineering problems.

## **GLY 4045 Moons, Planets, and Meteors: An Introduction to Planetary Science MW (3) AS GLY**

PR: Junior standing. Solar System exploration, from Aristotle to NASA. Modern views on the origins of meteorites, the Moon, Mars, Venus, and other planetary bodies, and the methods of planetary study. Meteor impacts, their effects, future hazard. Space science as a tool in the study of the Earth. Field trips, lectures, Internet exercises.

## **GLY 4053 Theories and Arguments about the Earth MW (3) AS GLY**

PR: 2000 level geology course. History of thinking about the Earth: context - geologic controversies; emphasis - geologic reasoning.

## **GLY 4104C Sedimentary Record 3: Paleontology and Earth Evolution (4) AS GLY**

PR: GLY 2000L, GLY 3552C, BSC 2010. The study of "deep time", including how it is measured, how it is correlated over the Earth's surface, and how important physical, biologic, and chemical geologic processes have varied with time. Lec.-Lab.

## **GLY 4554C Sedimentary Record 2: The Earth's Surface (4) AS GLY**

PR: At least one course in Geology with lab. Principles of weathering, erosion, production, and transport of sediment on the earth's surface, and the resulting geomorphology. Modern sedimentary environments and the process-response systems that govern them. Course is open to anyone with at least one course in geology with lab. Course is not available on an S/U basis for geology majors; it is for other majors.

## **GLY 4734 Beaches and Coastal Environments MW (3) AS GLY**

A comprehensive introduction to the nature of all coastal environments including beaches, dunes, tidal inlets, estuaries, reefs, and river deltas. Emphasis will be on the natural state of these environments and how human activities have and will impact them. Consideration of coastal management policies involving economics, ethics, policy, and environmental law.

## **GLY 4780 Geological Field Studies (1-3) AS GLY**

PR: 1 geology course. Lectures and field trip to study modern geologic systems and/or geologic origins of specific regions. Mapping and field description techniques introduced. Topic/destination of trip varies. Trip requires camping and vigorous physical activity. Lec. Field trip.

## **GLY 4822C Fluid Earth 2: Hydrogeology (4) AS GLY**

PR: GLY 2000L, GLY 3720C, PHY 2048, MAC 2281. CR: MAC 2282. Ground water flow systems, ground water geology, introduction to numerical and analytical models of ground water flow. Lec.-lab.-field trips.

## **GLY 4866 Computational Geology (3) AS GLY**

PR: One semester of calculus and physics. Geologic problems and problem-solving from a mathematical perspective. The intersection of geology and math. Calculations and error analysis. Not available as S/U for geology majors; S/U available for others.

## **GLY 4905 Independent Study (1-3) AS GLY**

PR: CI. S/U only. Specialized independent study determined by the student's needs and interests.

## **GLY 4915 Undergraduate Research (1-3) AS GLY**

PR: Senior or advanced junior standing and written permission of department prior to registration. S/U only. Individual experimental investigations with faculty supervision.

## **GLY 4920 Geology Colloquium (1) AS GLY**

PR: Senior standing in Geology. S/U only. Weekly topical lectures by faculty, graduate students and invited speakers.

## **GLY 4921 Geocommunications (3) AS GLY**

PR: Twelve (12) or more hours upper level geology courses. A course in communicating within the disciplines of the earth sciences. Emphasis will be on: writing for publication and technical reports, preparation and presentation of posters, and preparation and presentation of oral papers in earth sciences. Course is open to anyone majoring in geology, geography, anthropology or environmental science and policy. Course is not available on a S/U basis for geology majors.

## **GLY 4930 Selected Topics in Geology (1-4) AS GLY**

Each topic is a course under the direction of a faculty member with the content depending on the interests of the students and faculty involved. All areas of geology included.

## **GLY 4946L Practical and Applied Geology: Teaching Experience (1) AS GLY**

PR: Junior standing, declared Geology major, and at least 12 credit hours of Geology courses, or CI. CR: Enrollment in other Practical/Applied sections. Completion of Geology supporting course sequence highly recommended. Hands-on course designed to give students experience in teaching geology. Topics vary widely, with several different offerings each semester. May be repeated for credit.

**GLY 4947L Practical and Applied Geology: Laboratory Experience (1) AS GLY**

PR: Junior standing, declared Geology major, and at least 12 credit hours of Geology courses, or CI. CR: Enrollment in other Practical/ Applied sections. Completion of Geology supporting course sequence highly recommended. Hands-on course designed to teach the basic laboratory skills of a practicing geologist. Topics vary widely, with several different offerings each semester. May be repeated for credit.

**GLY 4948L Practical and Applied Geology: Field Experience (1) AS GLY**

PR: Junior standing, declared Geology major, and at least 12 credit hours of Geology courses, or CI. CR: Enrollment in other Practical/ Applied sections. Completion of Geology supporting course sequence highly recommended. Hands-on course designed to teach the basic skills of a practicing field geologist. Topics vary widely, with several different offerings each semester. May be repeated for credit.

**GLY 4949L Practical and Applied Geology: Computational Experience (1) AS GLY**

PR: Junior standing, declared Geology major, and at least 12 credit hours of Geology courses, or CI. CR: Enrollment in other Practical/ Applied sections. Completion of Geology supporting course sequence highly recommended. Hands-on course designed to teach the basic computational skills of a practicing geologist. Topics vary widely, with several different offerings each semester. May be repeated for credit.

**GLY 4970 Undergraduate Honors Thesis (3) AS GLY**

Open to seniors admitted to the Geology undergraduate honors program. Students will complete an independent research project under supervision of a faculty member, and present results in a senior thesis and a public presentation.

**GLY 5752 Geological Field Excursion (2) AS GLY**

PR: Senior standing in geology or CI. Lectures and 2-3 week field excursion to study regional geology, structure and lithogenesis of geologically complex terrain. Mapping and outcrop description techniques are emphasized. Destination of trip varies. Trip requires camping and vigorous physical activity. Lec.-field trip.

**GLY 5865 Statistical Models in Geology (3) AS GLY**

PR: STA 2023 or equivalent or CI. Application of statistical methods to geological problems. Emphasis on sampling plans, nature of geologic distributions, and application of analyses of variance to solving geological problems. Lec.

**GLY 5932 Selected Topics in Geology (1-4) AS GLY**

PR: Senior or advanced junior standing. Each topic is a course under the direction of a faculty member. All areas of geology included.

**GRA 2206C Typography (3) VP ART**

Restricted to majors. This foundational course explores the structure of letter forms and lettering. This course provides information about the importance of type in the context of graphic design and application for printed and electronic media.

**GRA 3104 Computer Graphics (3) VP ART**

Restricted to majors. This course is the continuation of Graphic Design I. The coursework emphasizes the utilization of electronic media for visual problem solving. Students will increase their skill with web based design and photo-editing software.

**GRA 3110 Graphic Design I (3) VP ART**

Restricted to majors. This course explores the application of formal design principles to visual problem solving through typography, layout, and web design. Students will apply conventional and electronic tools and techniques to the graphic design process.

**GRA 3735 Multimedia Systems I (3) VP ART**

Restricted to majors. This course introduces multimedia systems and focuses on their use as tools in the production of digital multimedia. Content covers all key hardware, navigation, and operating components.

**GRA 4930C Graphic Design: Senior Studio (3) VP ART**

Restricted to majors. Advanced problems in graphic design, advertising, and multimedia visual communication systems will be discussed and assigned as projects. Focus is upon efficient and effective use of technology in the design production process.

**GRA 4940 Graphic Design: Internship (2) VP ART**

Competitive portfolio may be required. Restricted to majors. On site supervised work experience in an educational, graphic studio, advertising agency, or corporate environment.

**GRA 4945 Graphic Design: Professional Practicum (3) VP ART**

Restricted to majors. Students fine-tune their portfolios, create self promotional print and digital projects and develop their resumes. Includes field trips to studios, agencies, corporate graphic departments and marketing firms.

**GRA 4955C Senior Project: Portfolio (3) VP ART**

Restricted to majors. This course covers the organization and presentation of a design/advertising/graphic portfolio and appropriate related materials. Emphasis is upon portfolio development, professional production, and self promotional skills.

**GRE 1120 Beginning Classical Greek I (4) AS WLE**

An introductory course in classical Greek grammar with appropriate readings.

**GRE 1121 Beginning Classical Greek II (4) AS WLE**

PR: GRE 1120 or equivalent. An introductory course in classical Greek grammar with appropriate readings.

**GRE 2140 New Testament Greek I (4) AS REL**

An introduction to an intensive study of the koine Greek of the New Testament, for beginners; New Testament readings, composition, analysis of the structure of Greek of the New Testament.

**GRE 2141 New Testament Greek II (4) AS REL**

PR: GRE 2140. Intermediate readings and grammar of the Greek New Testament.

**GRE 2220 Intermediate Classical Greek (4) AS WLE**

PR: GRE 1121 or equivalent. Readings in Greek at an intermediate level.

**GRK 1120 Beginning Modern Greek I (4) AS WLE**

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

**GRK 1120L Beginning Modern Greek I Laboratory (1) AS WLE**

CR: GRK 1120. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

**GRK 1121 Modern Greek II (4) AS WLE**

PR: GRK 1120 or its equivalent; CR: GRK 1121L. A continuation of GRK 1120. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.

**GRK 1121L Modern Greek II Laboratory (1) AS WLE**

CR: GRK 1121. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

**GRK 2220 Modern Greek III (4) AS WLE**

PR: GRK 1121 or the equivalent. For language students who intend to attain basic proficiency.

**GRK 2221 Modern Greek IV (4) AS WLE**

PR: GRK 2220 or its equivalent. Continuation of GRK 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

**GRK 4905 Directed Study (1-5) AS WLE**

Departmental approval required. S/U only. Permits study options in Modern Greek not available in the regularly scheduled curriculum at departmental discretion.

**GRK 4930 Selected Topics (1-5) AS WLE**

Departmental approval required. Course permits classes in Modern Greek not available in the regularly scheduled curriculum at departmental discretion.

**GRW 4905 Directed Reading (1-4) AS WLE**

Departmental approval required.

**GRW 5905 Directed Reading (1-4) AS WLE**

Departmental approval required.

**GRW 5934 Selected Topics (1-4) AS WLE**

Available to majors and non-majors. Study of an author, movement or theme.

**HBR 1120 Modern Hebrew I (4) AS WLE**

CR: HBR 1120L. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.

**HBR 1120L Modern Hebrew I Laboratory (1) AS WLE**

CR: HBR 1120. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

**HBR 1121 Modern Hebrew II (4) AS WLE**

PR: HBR 1120 or its equivalent; CR: HBR 1121L. A continuation of HBR 1120. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

**HBR 1121L Modern Hebrew II Laboratory (1) AS WLE**

CR: HBR 1121. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

## HBR 2201 Modern Hebrew IV (4) AS WLE

PR: HBR 2220 or the equivalent. Continuation of HBR 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

## HBR 2220 Modern Hebrew III (4) AS WLE

PR: HBR 1121 or the equivalent. For language students who intend to attain basic proficiency.

## HBR 4905 Directed Study (1-5) AS WLE

Departmental approval required. S/U only. Permits study options in Modern Hebrew not available in the regularly scheduled curriculum at departmental discretion.

## HEB 1120 Basic Hebrew I (4) AS REL

Designed to give students a working knowledge of Classical (Biblical) Hebrew and to introduce them to the Biblical literature in the original language.

## HEB 1121 Basic Hebrew II (4) AS REL

Designed to give students a working knowledge of Classical (Biblical) Hebrew and to introduce them to the Biblical literature in the original language.

## HFT 3005 Introduction to Hospitality and Tourism (3) US HRM

An overview of the hospitality industry, including all of its related fields: restaurant; lodging; meetings, conventions and expositions. Also featured are the applications of the general marketing, human resources, leadership, and management.

## HFT 3263 Restaurant and Catering Management (3) US HRM

PR: HFT 3424, FSS 3231 Management of food and beverages as they relate to planning, production, supervision and cost control in restaurants and catering food services, with emphasis on techniques of food preparation, menu merchandising, food safety, bar services and wine list.

## HFT 3423 Hospitality Information Systems (3) US HRM

PR: ISM 3011, HFT 3005. The study of management information systems in the hospitality management industry. The students will evaluate software and hardware computer systems and application software being used in the hospitality industry and develop selection strategies.

## HFT 3424 Cost Control in Hospitality Operations (3) US HRM

PR: HFT 3005, FIN 3403, MAN 3025 Provides students with a thorough understanding of hospitality financial accounting concepts. The emphasis of the course is to use accounting information in making managerial decisions and to prepare and understand hospitality financial statements.

## HFT 3503 Hospitality Marketing and Sales (3) US HRM

PR: MAR 3023 Principles of marketing and sales and practical application in hospitality marketing philosophies; the marketing mix; product differentiation; corporate travel market; and the association, convention, and trade show market.

## HFT 3603 Law and Security for the Hospitality Industry (3) US HRM

PR: HFT 3005 Functions of the law, legal environment and legal reasoning. An overview of the security issues in the hospitality industry. The law pertaining to contracts, workmen's comp and the impact of law on economic enterprise in the hospitality industry.

## HFT 3861 Beverage Management (3) US HRM

An introduction to the identification, use and service of wines, spirits, and other alcoholic beverages. An in-depth analysis of beverage operations to include selection/storage, inventory, purchasing, sales/promotion/merchandising, profits and bar management.

## HFT 4221 Human Resources Management (3) US HRM

PR: HFT 3005, MAR 3023 Designed to educate new managers and supervisors in the complex issues involved in a comprehensive human resource program and its importance to hotel and restaurant business. Workmen's Compensation, ADA, training, unions, EEO and discrimination issues.

## HFT 4253 Lodging Management (3) US HRM

PR: HFT 3005, MAN 3025 Principles, practices, and procedures of managerial functions as they relate to the operation of hotels. Training, conflict resolution, total quality management, crisis management, employee empowerment and service standards are focus of team building.

## HFT 4323 Facilities Management in Hospitality Operations (3) US HRM

PR: HFT 3005 Engineering aspects of hospitality establishments, preventive maintenance procedures, energy conservation, waste management, pollution control, life safety systems, and facilities design and layout, air conditioning lighting, sound control.

## HFT 4471 Management Accounting and Finance in Hospitality (3) US HRM

PR: FIN 3403, HFT 3005, HFT 3424 Financial functions in hospitality, interpret hospitality financial statements, capital investment decision making, financial instruments and concepts.

Analytical modeling for hospitality operations, including ratio analysis and capital budgeting tools.

## HFT 4853 Restaurant Trends and Challenges Seminar (3) US HRM

PR: Senior standing. Advanced level course focusing on contemporary management issues and challenges facing the foodservice and hospitality industries. Topic covered will be applicable to current trends applicable to a variety of situations.

## HFT 4930 Special Topics in Hospitality (1-3) US HRM

PR: HFT 3005 Topics to be selected by instructor and department chairperson for pertinent Hospitality Management issues.

## HFT 4936 Hotel Management Seminar (3) US HRM

PR: Senior standing. Advanced level course focusing on current problems and trends in hotel management and the hospitality industry.

## HFT 4945 Advanced Internship (3) US HRM

PR: HFT 3005 Coordinated hospitality training combines practical experience with didactic academic analysis. Principles, theory and standard practices applied to operational situations. S/U only.

## HIS 2931 Special Topics (2-4) AS HTY

This course emphasizes a selected historical problem or issue. A variety of instructional approaches will be taken, and topics may vary.

## HIS 3308 War and Society MW (3) AS HTY

An examination of the ways in which societies have organized themselves for war and how societies are changed by war. Also explores gendered expectations in war, and the changing conduct of war. Does not count for History major or minor credit.

## HIS 3474 Science and Civilization (4) AS HTY

A thematic study of the interrelationship of science and society in modern history emphasizing the institutional forms, value structures, and social relations in science as they have developed from the scientific revolution to the present.

## HIS 3930 Special Topics (2-4) AS HTY

This course is designed to emphasize a selected historical problem or issue that is meaningful and challenging to the student. A variety of instructional approaches will be taken to the material. Topics will be changed each semester.

## HIS 3938 Major Issues in History MW (3) AS HTY

This course provides an introduction to the disciplines of history by examining a specific historical issue and its relation to at least one of the following dimensions: gender, race and ethnicity, international perspectives, environmental perspectives. Does not count for History major or minor credit.

## HIS 4104 Theory of History (4) AS HTY

PR: History major status and 2.25 HTY major GPA required. An analysis of the foundations of historical knowledge and historical methodology. Includes a survey of historical thinking and writing from ancient times to the present.

## HIS 4900 Directed Reading (1-4) AS HTY

PR: CI. Arrangement with instructor prior to registration. Readings in special topics.

## HIS 4920 Colloquium in History (2-4) AS HTY

Reading and discussion of selected topics in the various fields of history. The subject and scope of inquiry will be determined by the instructor for each section.

## HIS 4936 Pro-Seminar in History 6A MW (4) AS HTY

PR: History major status and 2.25 HTY major GPA required. Advanced topics in the various fields of history. Emphasis on discussion of assigned readings and on research and writing of a major paper.

## HLP 2081 Personal Wellness: A Lifetime Commitment (3) ED EDJ

An examination of the bases for adopting a positive health lifestyle with a major emphasis on diet, weight management, physical fitness, stress management, and substance-abuse management.

## HLP 4722 Health and Physical Education for the Child (2) ED EDE

The course helps elementary education majors understand the health, and developmental needs of K-6 children and to learn the role of the classroom teacher in providing health services, healthy environments, and health & physical ed. instruction.

## HSA 4011 Introduction to Public Health (3) PH PHC

A survey of policies and programs in public/community health with emphasis on specific needs and problems of Florida.

## HSC 2100 Contemporary Health Science SS (3) PH PHC

A comprehensive approach to health concerns and problems in contemporary society, including methods of assessing individual health needs.

## HSC 2133 Sex, Health, and Decision-Making SS (3) PH CFH

This course will provide the student with an overview of the issues involving sexual behaviors, decision-making processes and health outcomes. The course will offer a public health perspective of the

consequences of risk-taking activities as well as a psychosocial and cultural view of antecedent behaviors.

**HSC 2400 First Aid (2) ED EDP**

Meets the American Red Cross certification requirements in standard and advanced first aid.

**HSC 2933 Selected Topics in Public Health (1-6) PH PHC**

Overview of major public health and health related issues of interest to undergraduates. Course explores a variety of health topics that are related to improving the health and health behaviors of individuals, groups and communities. Specific topics may vary each semester. No prerequisites. Majors and non majors. May be repeated for up to 6 credits.

**HSC 3301 Health, Safety, Nutrition and Motor Skills for the Young Child (3) ED EDP**

Provide students with the knowledge to teach developmentally appropriate motor activities; to provide continuous health services; create and maintain a healthy learning environment; and sequence appropriate health instruction for Pre-K through 3rd grade students.

**HSC 3541 Human Structure and Function NS (3) PH CFH**

This course is designed to introduce the structural levels of the body beginning with chemicals and progressing through cells, tissues, organs and systems with emphasis on homeostasis, stress and feedback systems. Not restricted to majors.

**HSC 4001 Foundations of Global Health (3) PH PHC**

This course introduces students to the principles of public health from a global perspective. Emphasis will be placed on the impact of social, economic, political and environmental factors that influence health and access to health care across the globe.

**HSC 4134 Prevention of Mental Illness (3) PH PHC**

This course explores the contributions of prevention science and public health in impeding the development of mental disorders and the events that lead to mental disorders with the major developmental focus on childhood.

**HSC 4172 Women's Health: A Public Health Perspective (3) PH PHC**

From a public health perspective, this course will explore the multidimensional and multidisciplinary dimensions of women's health. The course will emphasize health promotion, disease prevention, and overall well-being.

**HSC 4211 Health, Behavior and Society (3) PH PHC**

This course focuses on an ecological perspective of the determinants of health including biology, individual behavior, social relationships, social stratification, institutions, neighborhoods and communities, environment, policies and globalization.

**HSC 4504 Foundations of Public Health Immunology (3) PH PHC**

This course provides an overview of the principles of Immunology and an introduction to the applications of immunology and immunologic techniques used in the surveillance, prevention and control of diseases of public health importance.

**HSC 4531 Medical Terminology NS (3) PH PHC**

This course provides a unique educational program to improve the student's medical vocabulary. The course includes medical and scientific content information, which students encounter in other health professional courses. Not restricted to any major.

**HSC 4554 Survey of Human Diseases (3) PH PHC**

PR: Fund. of Biology with Lab or CI. An overview of the nature, types, and mechanisms of diseases of the major body systems.

**HSC 4579 Foundations of Maternal and Child Health (3) PH PHC**

This course provides an overview of maternal and child health issues and trends. With this primary aim, the objectives are organized around the knowledge of health assessment and interventions for families and children.

**HSC 4580 Foundations of Food Safety (3) PH PHC**

This course provides an overview of food safety practices and principles emphasizing the role of food safety in public health. Topics include proper food handling procedures, food safety hazards, foodborne illness prevention, and food safety regulations.

**HSC 4630 Understanding U.S. Health Care (3) PH PHC**

An introduction to health services; providing an overview of important components of the U.S. health care system, health policy, funding sources, and comparisons with other developed nations.

**HSC 4631 Critical Issues in Public Health (3) PH PHC**

This course provides students the opportunity to learn about the multiple ways to view controversial topics in public health. The course covers topics including biomedical issues, social & behavioral factors related to health, and environmental issues.

**HSC 4933 Special Topics in Public Health (1-6) PH PHC**

PR: CI. Content will be governed by student demand and instructor interest.

**HSC 5037 Professional Foundations of Health Education (1) PH CFH**

The study of the practice of health education in various settings, and selected historical, cultural, philosophical, professional, and ethical issues in the practice of education.

**HUM 1020 The Arts FA (3) AS HUM**

Analysis of selected works of literature, music, film, and visual art, representing artists of diverse periods, cultures, genders, and races. Especially recommended for students who later take 4000-level Humanities courses.

**HUM 1580 Introduction to Film Studies SS FA (4) AS HUM**

Exploration of the history of creative filmmaking from its beginnings to the present time. Open to both majors and non-majors.

**HUM 2210 Studies in Culture: The Classical Through Medieval Periods HP (3) AS HUM**

A survey of literature and the arts of ancient Greece, Rome, and medieval Europe. Issues to be examined may include the dialogue between local traditions and cosmopolitan cultures, the relationship of the individual to society, and the bases for moral values.

**HUM 2230 Studies in Culture: The Renaissance Through the Twentieth Century HP (3) AS HUM**

A historical survey of the visual arts, literature, music and thought of Europe from the Renaissance through the Twentieth century. Issues to be examined may include the relationship between science and the arts and the consequences of the growing contacts among world civilizations and the impact of technological change.

**HUM 2271 Eastern and Western Culture from Antiquity to 1400 AF (3) AS HUM**

A comparative treatment of music, visual arts, theatre, literature, and philosophy in the East and West, proceeding chronologically from Ancient times through the Middle Ages, emphasizing Europe and India.

**HUM 2273 Eastern and Western Culture Since 1400 AF (3) AS HUM**

A comparative treatment of music, visual arts, theatre, literature, and philosophy in the East and West, proceeding chronologically from the Renaissance through the present, emphasizing Europe, the United States, and India.

**HUM 2515 Introduction, the Cultural Study of Popular Music (3) AS HUM**

An introduction to the cultural study of popular song, this class examines how music constructs racial, gender, and class identities and intersects with politics, globalization, and commerce. Variable topic, open to nonmajors, not repeatable for credit.

**HUM 2930 Selected Topics (1-4) AS HUM**

An introductory course dealing with a recurrent theme in the arts or focusing on a particular artistic center (a nation or city at a particular time).

**HUM 3231 The Renaissance (3) AS HUM**

PR: HUM 2210 or HUM 2230. An examination of the arts of the Renaissance, focusing on primary texts and images. Themes include humanism, the revival of antiquity, the concept of the individual, the Reformation and Counter-Reformation, and the impact of New World explorations.

**HUM 3237 The Seventeenth Century (3) AS HUM**

PR: HUM 2210 or HUM 2230. An examination of the development of the art and culture of the Baroque Period, roughly the 17th Century, focusing on primary texts and images. Themes will include mysticism, sensuality, rationalism, science, absolutism, and liberty.

**HUM 3240 The Early Middle Ages (3) AS HUM**

PR: HUM 2210 or HUM 2230. This course examines the diverse cultures of Europe from the fourth to eleventh centuries. Major issues include the formation of religious cultures, modes of cultural contact, relationships between texts and images, and uses of earlier traditions.

**HUM 3241 Central Medieval and Gothic Europe (3) AS HUM**

PR: HUM 2210 or HUM 2230. By studying texts and artefacts, this course examines the diverse cultures of Europe from the eleventh to fourteenth centuries. A central issue covered will be the efforts of the church to create an all-encompassing Christian culture.

**HUM 3242 The Enlightenment (3) AS HUM**

PR: HUM 2210 or HUM 2230. By studying late seventeenth and eighteenth century literature, music, visual art, and philosophy, this course examines phenomena such as rationalism, classification systems, the influence of science, utilitarianism, reform, and secularism.

**HUM 3244 Nineteenth-Century Arts and Letters (3) AS HUM**

PR: HUM 2210 or HUM 2230. By studying 19th century literature, music, and visual art, this course examines phenomena such as the rise of capitalism, colonial expansion, nationalism, urbanism,

and the redefinition of public and political life during this period of extreme change.

**HUM 3252 Studies in Culture: The Twentieth Century HP (3) AS HUM**

PR: HUM 2210 or HUM 2230. Analyses of selected works of twentieth century art, including films, paintings, music, and literature, in the context of major political, social, and economic events, such as war, depression, totalitarianism, and technological change.

**HUM 3331 Themes in Humanities (3) AS HUM**

PR: HUM 2210 or HUM 2230. A course emphasizing the analysis of primary works in relation to cultural contexts, the integration of secondary sources, and the construction of a written argument. Not restricted to majors. Offered only in fall semester.

**HUM 3457 Nineteenth Century American Culture (3) AS HUM**

PR: HUM 2210 or HUM 2230. This course explores American art, literature, and cultural life from the early republic through the Gilded Age. Works are studied in their historical context in order to understand how they transmitted important information about American identity.

**HUM 3458 Twentieth-Century American Culture (3) AS HUM**

PR: HUM 2210 or HUM 2230. A historical survey of American culture since 1900. Literature, music, visual art, film, and intellectual movements are analyzed, to understand how they have reflected and shaped cultural values and responded to changing conditions of American society.

**HUM 3463 Latin American Civilization I: Pre-Columbian & Colonial (3) AS HUM**

PR: HUM 2210 or HUM 2230. An overview of Pre-Columbian and Colonial Latin American Culture through 1700. Topics include literature, music, and art; ethnic diversity; political and religious tension; "high" versus "low" culture; and the clash of European and American cultures.

**HUM 3466 Latin American Civilization II: Modern Latin America (3) AS HUM**

PR: HUM 2210 or HUM 2230. An overview of the cultural heritage of Latin America since the time of independence. Verbal and visual texts will be used to study the difficult struggle to create a cultural identity that incorporates African, indigenous, and European traditions.

**HUM 3930 Selected Topics in Humanities (1-4) AS HUM**

PR: HUM 2210 or HUM 2230. Courses offered under this number will always be interdisciplinary, treating more than one art media and relating them historically or in some other way. The interdisciplinary emphasis on literature and the arts, placing them in some larger context of culture or ideas, distinguished HUM courses from related courses offered in other departments of the university. Topics will vary; course may be repeated for credit with change of content.

**HUM 4433 Ancient Greek Culture (4) AS HUM**

PR: Junior standing and HUM 2210 or HUM 2230, or CI. A study of the poetry, drama, philosophy, historical writing, painting, sculpture and architecture of ancient Greece, including such authors as Homer, Sophocles, and Plato, and monuments such as the Parthenon.

**HUM 4435 Early Medieval Culture (4) AS HUM**

PR: Junior standing and HUM 2210 or HUM 2230, or CI. A study of the culture of Europe and the Mediterranean world from the 4th to 11th centuries through the readings of early Medieval historians, poets, and theologians, as well as the study of illuminated manuscripts, mosaics, painting and architecture.

**HUM 4437 Italian Renaissance Culture (4) AS HUM**

PR: Junior standing and HUM 2210 or HUM 2230, or CI. A study of the painting, literature, music, sculpture and architecture of early modern Italy (1300-1600), emphasizing humanism, the revival of antiquity, the tension between sacred and secular, and artists such as Michelangelo, Titian, Raphael.

**HUM 4438 Northern Renaissance Culture (4) AS HUM**

PR: Junior standing and HUM 2210 or HUM 2230, or CI. A study of the Northern Renaissance, 1400-1580, as exemplified in Germany, France, the Netherlands, England, and Spain. The course includes painting, architecture, literature and music, with special study of Durer, Van Eyck, El Greco, and Bosch.

**HUM 4440 Arts and Letters in the 17th and 18th Centuries (4) AS HUM**

PR: Junior standing and HUM 2210 or HUM 2230, or CI. A study of the visual arts, literature and music from the mysticism and ornament of the Baroque to the rationalism and classicism of the Enlightenment, including such artists, authors and composers as Rembrandt, Gentileschi, Voltaire, Bach, and Mozart.

**HUM 4442 Arts and Letters of the Romantic Period (4) AS HUM**

PR: Junior standing and HUM 2210 or HUM 2230, or CI. Continental masterworks of fiction, painting, and music in the context of

European cultural history from the French Revolution to the Revolutions of 1848.

**HUM 4444 Nineteenth Century European Arts and Letters (4) AS HUM**

PR: Junior standing and HUM 2210 or HUM 2230, or CI. A study of continental literary, musical, and artistic masterworks from the Revolutions of 1848 until the outbreak of World War I.

**HUM 4445 Twentieth Century Arts and Letters I (4) AS HUM**

PR: Junior standing and HUM 2210 or HUM 2230, or CI. Analysis of selected works of twentieth century art. The course will focus on a particular phase in the development of modernism, a set of themes, or certain stylistic aspects of various arts of the twentieth century.

**HUM 4446 Twentieth Century Arts and Letters II (4) AS HUM**

PR: Junior standing and HUM 2210 or HUM 2230, or CI. Analysis of selected works of twentieth century art. The course will focus on a particular phase in the development of modernism, a set of themes, or certain stylistic aspects of various arts of the twentieth century.

**HUM 4452 Nineteenth Century American Culture (4) AS HUM**

PR: Junior standing and HUM 2210 or HUM 2230, or CI. Study of selected works of art, tracing the course of American expansionism in civilization, and the interaction between the arts and the sciences in American ways of life and work, 1790-1890.

**HUM 4455 Twentieth Century American Culture (4) AS HUM**

PR: Junior standing and HUM 2210 or HUM 2230, or CI. Study of selected works, tracing the course of expansion in the production and enjoyment of works of art, and interaction between the idealistic and pragmatic concerns for development of the arts in the 20th century.

**HUM 4462 Pre-Columbian and Colonial Latin American Culture (4) AS HUM**

PR: Junior standing and HUM 2210 or HUM 2230, or CI. Analysis of selected Latin American works of art in their cultural context, with emphasis on the Pre-Columbian and Colonial periods. The course will focus on a particular historical, geographical, or thematic topic within those periods.

**HUM 4464 Modern Latin American Culture (4) AS HUM**

PR: Junior standing and HUM 2210 or HUM 2230, or CI. Analysis of selected Latin American works of art in their cultural context, with emphasis on the period since the time of independence. The course will focus on a particular historical, geographical, or thematic topic within that period.

**HUM 4905 Directed Study (1-4) AS HUM**

PR: CI. Specialized individual study determined by the student's needs and interests

**HUM 4930 Selected Topics in Humanities (1-4) AS HUM**

PR: Junior standing and HUM 2210 or HUM 2230, or CI. This course will deal with a recurrent theme in the arts as, for example, love or death, or will focus on artistic centers such as Renaissance Florence or Paris in the 1920s. Topics will vary.

**HUM 4931 Seminar in Humanities 6A (4) AS HUM**

PR: HUM 3331 or CI. Seminar focuses on the writing of a substantial research paper in the humanities. Topic varies.

**HUM 4938 Major Issues in the Humanities MW (3) AS HUM**

The study of an important topical issue in the Humanities. Materials representing diverse views relating to that issue will be read, and works of art in different media that have relevance to the debate will be studied. Available to majors and non-majors.

**HUM 4940 Internship in Humanities (1-2) AS HUM**

A structured, out-of-class learning experience providing firsthand, practical training in Humanities-related professional careers in the community. Restricted to Humanities majors. Repeatable up to 4 credit hours.

**HUM 4941 Study on Location (1-4) AS HUM**

PR: Repeatable once for up to eight credits. The art of a culture will be examined during travel in groups, led by an instructor, to important cities or sites. Monuments, museums, architecture, plays, and/or concerts will be studied. Reading assignments and lectures. Not restricted.

**HUN 2201 Nutrition (3) NU NUR**

PR: Course work in chemistry and biology or permission of faculty. Open to majors and non-majors. The study of fundamental principles of normal nutrition as they relate to human life and growth from conception through senescence, interpretation of current nutrition information, and application of nutrition knowledge in the establishment of good eating habits

**HUN 3932 Selected Topics in Nutrition (3) US DEA**

The content of this course will be determined by student demand and instructor interest. Repeatable up to 3 times with different topics.

# 300 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

## HUN 4444 Clinical Nutrition (3) NU NUR

PR: HUN 2201 or equivalent. Focuses on the role nutrition has in causing and preventing disease processes.

## IDH 2009 Discovery: People, Processes and Problems (3) HC HON

PR: Admission to Honors College. An appreciation of the research process in multiple disciplines culminating in the production of a collaboratively developed research proposal.

## IDH 2010 Acquisition of Knowledge (3) HC HON

PR: Admission to Honors College. An appreciation of the problems of how human understanding proceeds through operations such as perception, classification, and inference, among others, as well as the open philosophical questions behind these operations.

## IDH 2930 Selected Topics (1-4) HC HON

PR: IDH 2010 or CI. This course is designed to emphasize a selected problem or issue that is meaningful and challenging to University Honors students and special populations. A variety of instructional approaches will be used. Topics will vary each semester. Repeatable for a total of 8 credits.

## IDH 3100 Arts/Humanities Honors (1-3) HC HON

PR: IDH 2010. An introduction to western arts and letters from the perspectives of three periods (classicism, romanticism, and modernism), the relationship of ideas to art, the similarities among the arts of a given period, and important differences between periods.

## IDH 3350 Natural Sciences Honors (3) HC HON

PR: IDH 2010. An exploration of current knowledge concerning fundamental principles in the Sciences, their potential for application and attendant ethical and philosophical questions. Honors College students only. Repeatable up to 6 hours.

## IDH 3400 Social and Behavioral Sciences Honors (3) HC HON

PR: IDH 2010. Introduction to the concerns of the Social and Behavioral Sciences, methods of inquiry, discovery, and validation of knowledge. A survey of the way various disciplines examine the question of how society is organized.

## IDH 3600 Seminar in Applied Ethics (3) HC HON

PR: IDH 2010. This course explores ethical issues related to selected topics such as Ethics of Technology, Ethics in Business, Bio-Medical Ethics, Personal Ethics Development.

## IDH 4000 Honors Program Seminar: Major Works/Majors Issues (4) HC HON

PR: IDH 2010. This course explores major works and major issues in a variety of disciplines. Each section will be devoted to content in a different academic area.

## IDH 4200 Geographical Perspectives Honors (3) HC HON

PR: IDH 2010. An introduction to African, Latin American, Middle Eastern, or Asian perspectives focusing on social, political and economic, artistic, cultural and intellectual subject matter. The material will be presented within a geographical, chronological, and humanities background.

## IDH 4910 Undergraduate Research (1-4) HC HON

PR: DPR. A supervised program of interdisciplinary research in areas of specific interest. Open to all USF students by application through the undergraduate research coordinator.

## IDH 4930 Selected Topics (1-4) HC HON

PR: IDH 2010 or CI. This course is designed to emphasize a selected problem or issue that is meaningful and challenging to University Honors students and special populations. A variety of instructional approaches will be used. Topics will vary each semester. Repeatable for a total of 8 credits.

## IDH 4950 Honors Project (1-4) HC HON

A program of independent research or study in areas of specific interest working under the supervision of a faculty mentor. Restricted to Honors College students.

## IDH 4970 Honors Thesis (3) HC HON

PR: Senior Honors Standing. The development and public presentation of a senior thesis under the direction of a mentor. Course is taken for 2 semesters.

## IDH 5956 Honors Graduate Project (3) HC HON

PR: Senior Status and permission of Honors College. Advanced Honors Project. Repeatable up to 12 hours.

## IDH 5975 Honors Thesis (3) HC HON

PR: Senior Status and permission of Honors College. Advanced Honors Thesis. Repeatable up to 12 hours.

## IDS 2664 Social Science Perspectives I SS (3) AS IAS

Provides an overview of the evolution and global expansion of Western Civilization. Examines global problems of economic growth and development; geopolitical relations among nations and states, food supply and hunger, and environmental change.

## IDS 2665 Social Science Perspectives II SS (3) AS IAS

Approaches the study of human behavior and society using the lens of various institutions. The course addresses issues of social

stratification, economics, education, religion and social status. The course is not restricted to any major, has no lab section, and is not cross-listed.

## IDS 2666 Historical Perspectives I HP (3) AS IAS

Approaches the study of human history through a series of specific case-studies that focus on historical processes. The primary focus of the course is to understand the variety of ways that the past has been brought into and understood in the present, rather than a comprehensive survey of a limited time or place.

## IDS 2667 Historical Perspectives II HP (3) AS IAS

Approaches the study of human history through a series of specific exercises that focus on what historians do: produce histories. The primary focus of the course is to understand the variety of ways that the past can be emplotted in histories, rather than a comprehensive survey of a limited time or place. With this understanding, students will produce several of their own histories.

## IDS 2931 Selected Topics (1-5) AS IAS

Selected topics in liberal arts and sciences. A basic introduction to the substance and theory of contemporary topics in humanities, social science or natural science.

## IDS 2932 Selected Topics HP (3) AS IAS

Selected topics in the liberal arts and sciences.

## IDS 2933 Selected Topics III SS (3) AS IAS

Selected topics in the Liberal Arts. A basic introduction to the substance and theory of contemporary topics in the arts and sciences.

## IDS 2934 Selected Topics IV SS (3) AS IAS

Selected topics in the Liberal Arts. A basic introduction to the substance and theory of contemporary topics in the arts and sciences.

## IDS 3115 Values and Choices 6A MW (3) ED EDF

An in-depth examination of values and their relationship to choices in contemporary society using historical perspective and inquiry of moral/ethical dilemmas. Available to majors or non-majors.

## IDS 3186 Scientific and Ethical Dimensions of Human Disease MW (3) AS IAS

PR: DPR. An interdisciplinary perspective of the biological basis of human disease combined with critical thinking and medical ethics. Basic concepts of human disease are integrated with bioethical dimensions of patient choice, physician responsibility and current health care issues.

## IDS 3662 Arts Connections FA (3) VP FAI

This is an interdisciplinary course to the arts disciplines of music, dance, theatre, and art. Artists from the four disciplines will provide weekly presentations centered around issues and ideas that have formed the basis of their creative research. Influences of diversity, new technologies and community and public arts will be explored. This course will introduce students to the role the arts play in shaping their perceptions of the world as well as reflecting the underlying values and paradigms that form our culture(s).

## IDS 3663 Critical Issues Affecting the Arts 6A MW (3) VP FAI

PR: Junior standing or CI. A discussion-based examination of cultural trends, educational policies, governmental regulations, and financial factors which impact Art, Dance, Music, and Theatre.

## IDS 3668 Images of Contemporary Urban Culture 6A LW (3) AS IAS

Offers multiple perspectives on the vision, theories, and practices of contemporary urban culture through the use of various literary genres. Examines the cultural realities of contemporary urban life, such as social stratification, discontinuity, anonymity and poverty; as well as its many potentials such as creative energy, diversity, and relational networks. Must have enough credit hours required for exit course admittance.

## IDS 3949 Cooperative Education, Parallel (0-2) US COE

PR: 45+ semester hours completed, cumulative GPA 2.5+, have a declared major and be accepted in Cooperative Education Program. Part-time (10-25 hrs/wk) paid or for credit, career-related work experience. This course may be repeated up to 6 credit hours. Prerequisite: 45+ hours of credit, GPA 2.5+, a declared major and be accepted in Cooperative Education Program. S/U Only.

## IDS 4910 Community Research (1-4) AS CEL

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

## IDS 4942 Community Internship (1-4) AS CEL

PR: CEL Program approval. Repeatable up to 8 credit hours. To provide students with a community internship experience.

## IDS 4949 Cooperative Education, Alternating (0-3) US COE

PR: 45+ semester hours completed, cumulative GPA 2.5+, have a declared major and be accepted in Cooperative Education Program. Full-time (40 hrs/wk) paid or for credit, career-related work experience. This course may be repeated up to 6 credit hours.

- Prerequisite: 45+ hours of credit, GPA2.5+, a declared major and be accepted in Cooperative Education Program.
- IDS 4955 International Community Research (1-4) AS CEL**  
PR: CEL Program approval. Repeatable up to 8 credit hours. To provide students with an international community research experience.
- IDS 4956 International Community Internship (1-4) AS CEL**  
PR: CEL Program approval. To provide students with an international community internship experience. Repeatable up to 8 credits.
- IDS 5177 The Atelier, Its Management and History (3) VP ART**  
This class will consider the history of printmaking and other forms of collaborative art production through the prism of the atelier and its management.
- IDS 5178 Problems in Museum Studies (3) VP ART**  
PR: Art Advisor's Approval This class is designed as both an academic and theoretical course to introduce students to the museum profession and develop critical thinking skills required to solve problems in the rapidly changing typography of museums. Students will develop managerial and administrative skills as they meet with and discuss the job descriptions of curators, educators, collection managers, marketing professionals, exhibit designers, registrars, and fundraisers.
- INP 2101 Applied Psychology SS (3) AS PSY**  
The application of psychological principles and the functions of psychologist in education, government, industry, and clinical practice.
- INP 4004 Industrial Psychology (3) AS PSY**  
PR: PSY 3213 with a grade of C or better or CI. Applications of psychological principles to industry. Topics include: selection, training, motivation, job satisfaction, supervision, decision-making.
- INR 1015 World Perspective SS AF (3) AS INT**  
An interdisciplinary study of the international system, major world regions and problems.
- INR 2002 Introduction to International Relations (3) AS POL**  
Concepts and analytical tools applied to events such as politics among nations, control of foreign policies, types of actors, war and peace.
- INR 3003 Introduction to International Studies (3) AS INT**  
An interdisciplinary study which stresses methods and analysis. A major portion will focus on the roles which different disciplines play in interpreting the international scene.
- INR 3011 Globalization (3) AS INT**  
Influence of globalization on political-economic and social systems around the world. International organizations involved with globalization processes are studied along with nations benefiting and suffering from the consequences of globalization.
- INR 3018 World Ideologies MW (3) AS INT**  
A course which details and examines the ideologies of today's independent countries; analyzing them in their political, social, cultural and historical context.
- INR 3033 International Political Cultures MW (3) AS INT**  
This course will explore ways in which culture influences the nature of government, economic success or failure, and constructive and destructive modes of self and social identification.
- INR 3038 International Wealth and Power SS (3) AS INT**  
Introduction to the relationship between politics and economics, emphasizing the analysis of government policies in response to both domestic and international economic problems.
- INR 3081 International Issues and Actors (3) AS INT**  
Departmental approval required. For majors and minors in INT only. An examination of the most important issues in international affairs. The course analyzes the behavior of major foreign policy actors in the international arena, including nation states, non-governmental and international organizations.
- INR 3084 International Terrorism SS AF (3) AS INT**  
A study of contemporary international terrorism and its causes, ranging from national liberation movements to networks of philosophical anarchists.
- INR 3102 American Foreign Policy (3) AS POL**  
Analysis of the development and scope of United States foreign policy, emphasizing goals and objectives, policy formulation and implementation, themes and issues.
- INR 3141 Global Security Policy (3) AS INT**  
A study of security issues, regional and global (such as proliferation, arms control, arms transfer) as they relate to contemporary international politics.
- INR 3202 International Human Rights MW (3) AS INT**  
This courses explores the evolution of international rights from the Greeks to the present. It examines human rights issues in major regions of the world.
- INR 3336 Intelligence and U.S. Foreign Policy (3) AS INT**  
An examination of the role of intelligence and the intelligence community in U.S. foreign policy, with emphasis on the period since World War II.
- INR 3955 Overseas Study (1-6) AS INT**  
A program of individual or group research in a foreign country.
- INR 4035 International Political Economy (3) AS POL**  
Analysis of the development and politics of the international economic system, focusing on questions of cooperation and conflict in trade, aid, and investment relationships.
- INR 4083 Conflict In The World MW (3) AS INT**  
PR: Junior/Senior standing. An interdisciplinary course examining theories of conflict, conflict resolution processes and strategies, theories and peacemaking strategies, and the concept of Early Warning Systems related to the outburst of conflict.
- INR 4254 Africa in World Affairs MW (3) AS INT**  
An examination of Africa's place and role in world affairs, including an analysis of the impact of external forces, international relations in post-colonial Africa, the relations of African states with the major world powers, the U.N. and its agencies.
- INR 4403 International Law SS (3) AS POL**  
Examines essential components of the international legal system; recognition; succession; sea, air and space law, treaties, diplomats, International Court of Justice; laws of war, etc. Introduces the student to legal reasoning as employed in the international context.
- INR 4502 International Organizations SS AF (3) AS POL**  
Study of the operations and structure of international organizations and effects on world politics; background and achievement of the UN; regional organizations and multi-national corporations.
- INR 4900 Directed Readings (1-3) AS INT**  
PR: CI. A supervised program of intensive reading of interdisciplinary materials in areas of specific interest.
- INR 4910 Directed Research (1-3) AS INT**  
PR: CI. A supervised program of interdisciplinary research in areas of specific interest.
- INR 4931 Selected Topics (1-4) AS INT**  
Interdisciplinary studies with course content dependent on student demand and instructor's interest.
- INR 4936 Senior Seminar MW (3) AS INT**  
PR: International Studies major and senior standing. A variable topics seminar integrating concepts and analyses relating to the academic background of INT majors. Should be taken in the student's final semester.
- INR 4943 Internship in International Studies (3-6) AS INT**  
PR: Senior status. S/U only. For majors only. The purpose of the course is to promote the student's understanding of global international issues within a local and practical context.
- INR 5012 Globalization (3) AS INT**  
Examination of globalization's impact on international relations, including literature from political science, anthropology, geography, sociology, and economics that impacts the study of the nation-state system and power. Open to majors and non-majors.
- INR 5086 Issues in International Relations (3) AS POL**  
Sr./GS. Explores specific topics and provides the student with an opportunity for in-depth study of historical and contemporary problems in international politics.
- ISC 1004 Integrated Natural Sciences I: Science that Matters NS (3) AS IDS**  
Discussion of integrative concepts in biology, chemistry, geology, and physics based on major knowledge strands of the Florida and Natural Science Education Standards. This course deals with current topics relevant to students, is inquiry based, and emphasizes development of higher order (critical thinking) skills through active learning strategies.
- ISC 1005 Integrated Natural Sciences II: Science that Matters NS (3) AS IDS**  
Discussion of integrative concepts in biology, chemistry, geology, and physics based on major knowledge strands of the Florida and Natural Science Education Standards. This course deals with current topics relevant to students, is inquiry based, and emphasizes development of higher order (critical thinking) skills through active learning strategies.
- ISM 3011 Information Systems in Organizations (3) BA QMB**  
PR: CGS 2100 or equivalent. An introduction to the language, concepts, structures and processes involved in the management of information systems including fundamentals of computer-based technology and the use of business-based software for support of managerial decisions.
- ISM 3113 Systems Analysis and Design (3) BA QMB**  
PR: ISM 3011 with a grade of "C" or better (not C-). The course presents concepts, procedures, and tools needed to build computer-based information systems. The objective is to develop project

## 302 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

management, data collection, analysis, design, testing and documentation skills.

### **ISM 3232 Business Application Development (3) BA QMB**

CP: ISM 3011 with a grade of "C" or better (not C-). Presentation of business application development using an object-oriented programming language. Good program design techniques are emphasized. Business applications are developed.

### **ISM 3431 Management Science Production/Operations Management Applications (3) BA QMB**

PR: MAC 2233 or MAC 2241. Fundamentals of production operations management (POM) and fundamentals of management science (MS). The application of MS models in the solution of POM problems.

### **ISM 4133 Advanced Systems Analysis and Design (3) BA QMB**

PR: ISM 4212 with a grade of "C" or better (not C-). This course builds previous class and/or work experience in systems development, with particular emphasis on the use of an integrated CASE tool on a team project. Students will gain an understanding of systems development problems and approaches using a variety of methods, such as, lectures, discussion, team presentations, guest speakers, demonstrations and computer use.

### **ISM 4141 Web Application Development/Java (3) BA QMB**

PR: ISM 3232 with a grade of "C" or better (not C-). Java will be used to introduce object oriented concepts. Programming assignments cover a variety of application features including graphical user interface, database connectivity, multithreading, & client-server computing using Java and Java Server Pages.

### **ISM 4212 Database Design and Administration (3) BA QMB**

PR: ISM 3113 with a grade of "C" or better (not C-). An introduction to the concepts and principles of database management. Provides potential designers, users and managers of database systems with an understanding of physical vs. logical representations, data modeling, implementation, and data management.

### **ISM 4213 Advanced Database Administration (3) BA QMB**

PR: ISM 3113, ISM 4212, with grades of "C" or better (not C-). Essential concepts of database administration in a business environment are covered in order to prepare students to understand and deal with database administration issues and concepts. Students gain hands-on experience by administering a database environment and completing assignments that involve resource management, data administration, security, backup, recovery and database tuning issues.

### **ISM 4220 Business Data Communications (3) BA QMB**

PR: ISM 3011 with a grade of "C" or better (not C-). Fundamentals of data communication, including network architectures, communication protocols, transmission standards, and internetworking. Basic concepts in distributed computing will also be covered.

### **ISM 4233 Information System Interface Design (3) BA QMB**

PR: ISM 3232 with a grade of "C" or better (not C-). An introduction to theories of human-computer interaction and the principles and practices of information system interface design, evaluation, and integration. Students develop programs utilizing various user interface design techniques.

### **ISM 4234 Object-Oriented Design and Development (3) BA QMB**

PR: ISM 3232 with a grade of "C" or better (not C-). This course presents an object-oriented approach to software development of business information systems. Students will learn to create object models of the business world and to develop information system designs based on these objects.

### **ISM 4240 Distributed Operating Systems (3) BA QMB**

PR: ISM 3113 with a grade of "C" or better (not C-). Introduction to distributed operating systems fundamentals such as distributed systems architecture, file structures, client-server, open systems, resource allocation, and basic tools for manipulating these operating environments.

### **ISM 4290 Senior Seminar in Information Systems (3) BA QMB**

PR: ISM 4212 with a grade of "C" or better (not C-). A seminar covering advanced topics in systems management, analysis and design. Applications of these procedures to actual or hypothetical cases.

### **ISM 4300 Managing Information Resources (3) BA QMB**

PR: ISM 4212 and ISM 4220, with grades of "C" or better (not C-). Current issues in information systems management focusing on managing computer resources and social issues such as ethics, privacy, and legal issues including intellectual property.

### **ISM 4382 Global Information Systems (3) BA QMB**

PR: ISM 3011 with a grade of "C" or better (not C-). Role of information technology in global business organizations and challenges in building information systems to enable global operations.

### **ISM 4400 Decision Support Systems (3) BA QMB**

PR: QMB 3200, ISM 3011, with a grade of "C" or better (not C-). Study of quantitative analysis tools and their use in organizational decision making. Emphasis on a structured approach to making common business decisions, demonstrating several forms of mathematical modeling and other management science techniques.

### **ISM 4480 Electronic Commerce Systems (3) BA QMB**

PR: ISM 3011 with a grade of "C" or better (not C-), MIS major or CC. Familiarize students with the opportunities and challenges associated with e-commerce and its business models, to explore the underlying technologies used in implementing e-commerce systems, and to develop the skills needed to manage effective Web sites.

### **ISM 4905 Independent Study (1-6) BA QMB**

S/U only. Independent study as directed by designated faculty.

### **ISM 4930 Selected Topics in MIS (1-3) BA QMB**

Selected topics in MIS.

### **ISM 4950 Independent Research (1-6) BA QMB**

PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor.

### **ISS 1101 Knowledge and Society SS (3) AS ISS**

Course introduces students to issues concerning the relationship between knowledge and society. Among the issues addressed are competing accounts of knowledge and the relationship between knowledge and other forms of human experience and different aspects of social life such as religion, morality, aesthetics, politics, and gender.

### **ISS 1102 Self and Society SS (3) AS ISS**

Course introduces students to issues concerning the relationship between the self (or individual) and society. Among the topics that may be addressed are the idea of human nature, how human nature is shaped by social and cultural factors; the moral obligations between individuals and society; and how our understanding of the self is shaped by gender and culture.

### **ISS 1103 Nature and Culture SS (3) AS ISS**

This course examines competing ideas and theories concerning the relationship between nature and culture. Among the issues and questions examined are the relationship between nature and our awareness of it; to what extent is nature transformable; should "nature" dictate the shape of social institutions; how does technology affect our society and environment.

### **ISS 3010 Introduction to the Social Sciences (3) AS ISS**

Integrates the range of social science fields into a global interdisciplinary perspective. Views social institutions and issues from perspectives of changing paradigms.

### **ISS 3930 Selected Topics in the Social Sciences (1-4) AS ISS**

Interdisciplinary studies of varying topics, with course content dependent on student demand and instructor's interest.

### **ISS 4151 Native American Women (3) AS ISS**

An interdisciplinary examination of lives of Native American Women, past and present. Topics include history, education, politics, family, etc.

### **ISS 4900 Directed Readings (1-3) AS ISS**

PR: CI. A supervised program of intensive reading of interdisciplinary materials in areas of specific interest.

### **ISS 4910 Directed Research (1-3) AS ISS**

PR: CI. A supervised program of interdisciplinary research in areas of specific interest.

### **ISS 4935 Seminar in the Social Sciences MW (3) AS ISS**

PR: Senior standing and ISS 3010 or CI. The seminar which caps the interdisciplinary major. Weds personal curiosity with the application of theoretical models to research on salient social issues.

### **ISS 5934 Selected Topics (1-3) AS AFA**

PR: CI plus senior standing or graduate status. Interdisciplinary studies with course content dependent on student demand and instructor's interest.

### **ITA 1120 Beginning Italian I (4) AS WLE**

CR: ITA 1120L. The first course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking, and reading.

### **ITA 1120L Beginning Italian Laboratory (1) AS WLE**

CR: ITA 1120. A laboratory designed to offer additional practice using various instructional technologies and media.

### **ITA 1121 Beginning Italian II (4) AS WLE**

CR: ITA 1121L. The second course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking and reading.

### **ITA 1121L Beginning Italian II Laboratory (1) AS WLE**

CR: ITA 1121. S/U only. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously.

A laboratory designed to offer additional practice using various instructional technologies and media.

**ITA 2200 Italian III (3) AS WLE**

PR: ITA 1121 or equivalent. Readings in Italian on the elementary level. A review of the basic structure of spoken and written Italian.

**ITA 2201 Italian IV (3) AS WLE**

PR: ITA 2200. This course marks the fourth level in the acquisition of Italian language. It continues to encourage students to speak, listen, read and write in the target language through frequent communicative activities.

**ITA 2240 Italian Conversation I (3) AS WLE**

PR: ITA 2200 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

**ITA 2241 Italian Conversation II (3) AS WLE**

PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

**ITA 3420 Composition (3) AS WLE**

A fundamental composition course for students who have completed ITA 2200.

**ITA 3470 Overseas Study (1-6) AS WLE**

Prior approval and early registration required. An intensive study-travel project in Italy.

**ITT 3504 Italian Cultural Studies HP MW (3) AS WLE**

An overview of Italian culture from the Unification to the present. It aims at tracing the ways in which the concept of Italian culture has been defined according to different social, historical, and political perspectives. Taught in English.

**ITW 4100 Survey of Italian Literature I (3) AS WLE**

The course aims at providing an introduction to the study of Italian Medieval and Renaissance literature and civilization. The course may be taught as a survey course or it may focus on any author, period, genre, or cultural theme.

**ITW 4101 Survey of Italian Literature II (3) AS WLE**

The course aims at providing an introduction to the study of Italian Modern and Contemporary literature and civilization. The course may be taught as a survey course or it may focus on any author, period, genre, or cultural theme.

**ITW 4905 Directed Study (1-3) AS WLE**

Departmental approval required. Selected topics in Italian literature.

**JOU 2100 Beginning Reporting (3) AS COM**

PR: MMC 2100 and MMC 3602. Basic instruction in news judgment, sources of news, newsgathering, and news writing techniques for various media. Typing ability is required.

**JOU 3101 Advanced Reporting (3) AS COM**

PR: JOU 2100 or RTV 3301 (RTV majors only), JOU 4201 (may be taken concurrently), PHI 1103 and POS 2041. Reporting and writing the more complex and specialized story. Techniques of investigative and analytical reporting, including ethical and legal considerations.

**JOU 3306 Critical Writing: Editorials, Reviews, Columns (3) AS COM**

PR: JOU 3101 and JOU 4201. Interpretive and opinion writing for the mass media. Analysis and discussion of current events as a basis for critical thinking and editorial writing. Evaluation of editorial pages of leading newspapers. Study of journalistic techniques involved in writing reviews and personal columns.

**JOU 3308 Magazine Article and Feature Writing (3) AS COM**

PR: CRW 2100 and JOU 2100. Planning, researching, writing, and marketing articles for general and special interest magazines and newspaper supplements. Experiences in developing article ideas and analysis of magazine articles.

**JOU 3940 Reporting Practicum (1) AS COM**

PR: JOU 3101 and CI. For journalism sequence majors. S/U only. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.

**JOU 4181 Public Affairs Reporting (3) AS COM**

PR: JOU 3101 or RTV 3301 (RTV majors only), POS 2041 and POS 2112 or POS 3142. Covering city council meetings, courthouse, city hall, courts, society, and other special assignments. Emphasis is on coverage of major governmental units of all levels of government, including examination and interpretation of public documents and records.

**JOU 4188 Neighborhood News Bureau (3) AS COM**

PR: JOU 2100, MMC 2100, MMC 3602 This course provides students with experience and news clips. Classes are conducted

as editorial meetings and students report and write about minority and multi-ethnic communities. The course is restricted to majors and is not repeatable for credit.

**JOU 4201 News Editing I (3) AS COM**

PR: ECO 1000, JOU 2100, and SYG 2010. Evaluating news and its display. Editing and rewriting copy for the mass media including new media, with emphasis on the daily newspaper. News judgment, headlines and makeup. Ethical problems. Introduction to theories of design and graphics.

**JOU 4206 Newspaper and News Publication Design (3) AS COM**

PR: JOU 4201 or CI. Theoretical and practical applications of newspaper and news publication design, including typography, graphics, graphics software and electronic picture editing. Exercises in design for newspapers and news publications in both print and electronic formats.

**JOU 4212 Magazine Design and Production (3) AS COM**

PR: JOU 4201. Theoretical and practical application of design principles for magazines. Design software. Study of visual design, page architecture, typography, color and illustrations. Integration of design elements in the design of magazine covers. Design elements specific to magazine and production preparation.

**JOU 4938 Senior Capstone Seminar (2) AS COM**

PR: Senior standing as a department major. Students complete a final professional project, a portfolio, and exit examination. Senior Seminar is the result of the department's development of a plan to set and measure learning outcomes. It is restricted to majors and not repeatable for credit.

**JOU 4941 Editing Practicum (1) AS COM**

PR: Senior standing, JOU 4201 and CI. For journalism sequence majors. S/U only. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.

**JOU 4944 Magazine Practicum (1) AS COM**

PR: Senior standing and CI. For journalism sequence majors. S/U only. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.

**JOU 5105 News Writing and Editing (3) AS COM**

PR: GS in Mass Communications or CI. Introduction to the basics of gathering, writing, and editing the news, with an emphasis on practical assignments done under professional conditions and standards. Discussions, readings emphasize the larger context and implications of news.

**JOU 5305 Explorations in News Writing (3) AS COM**

PR: CC. Students work to develop writing styles, reporting on and creating stories about significant issues, events, and ideas. The course explores the notion that narrative-style journalism can be accurate, thorough, fair, and compelling, effectively bringing readers into stories and giving them a bigger stake in the news. The focus is on-going beyond traditional practices of reporting and writing news stories.

**JOU 5344 Multimedia Journalism (3) AS COM**

PR: An appropriate undergraduate degree in mass communications or significant professional experience in journalistic writing styles. The course is designed to bring components of print, web and broadcast writing together to develop skills for and understanding of the multimedia environment. It is restricted to majors and not repeatable for credit.

**JPN 1120 Modern Japanese I (4) AS WLE**

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

**JPN 1120L Modern Japanese I Laboratory (1) AS WLE**

CR: JPN 1120. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

**JPN 1121 Modern Japanese II (4) AS WLE**

PR: JPN 1120 or equivalent. CR: JPN 1121L. A continuation of JPN 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

**JPN 1121L Modern Japanese II Laboratory (1) AS WLE**

CR: JPN 1121. S/U only. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. A laboratory designed to offer additional practice using various instructional technologies and media.

**JPN 2220 Modern Japanese III (4) AS WLE**

PR: JPN 1121 or equivalent. Continuing study to attain basic proficiency in Japanese.

**JPN 2221 Modern Japanese IV (4) AS WLE**

PR: JPN 2220 or equivalent. Continuation of JPN 2200.

## 304 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

### JPN 4905 Directed Study (1-5) AS WLE

Departmental approval required. S/U only. Permits study options in Japanese not available in regularly scheduled curriculum at departmental discretion.

### JPN 4930 Selected Topics (1-5) AS WLE

Departmental approval required. Course permits study options in Japanese not available in the regularly scheduled curriculum at departmental discretion.

### LAE 4314 Teaching Writing in the Elementary School, Grades K-6 (3) ED EDE

PR: Elementary Education majors or CL. The purpose of this course is for students to understand children's writing development and to design and implement instructional strategies for teaching composition in an integrated Language Arts curriculum.

### LAE 4323 Methods of Teaching English: Middle School (3) ED EDT

Must be taken one or two semesters prior to internship. Recommended to be taken with LAE 4464. Whole language methods of integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature-based program for middle school students.

### LAE 4335 Methods of Teaching English: High School (3) ED EDT

PR: LAE 4464. Must be taken one semester prior to internship concurrently with LAE 4530. Whole language methods of integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature-based program for high school students.

### LAE 4414 Teaching Literature in the Elementary School, Grades K-6 6A LW (3) ED EDE

Jr./Sr. Standing The purpose of this course is for students to survey and analyze the genres of children's literature and to develop instructional strategies to use literature in literacy learning across the curriculum.

### LAE 4416 Teaching Literature and Writing in the Elementary Grades 6A LW (3) ED EDE

PR: Elementary Education major. This course is designed to provide students with the skills necessary to implement a coordinated literature program and an integrated writing curriculum. Not repeatable for credit.

### LAE 4464 Adolescent Literature for Middle and Secondary Students 6A LW (3) ED EDT

PR: English Education majors or CL. Recommended to be taken with LAE 4323 two semesters prior to internship. A study of the types of literature read by adolescents with an emphasis upon the criteria for the choice of good books and knowledge of available books and teaching materials.

### LAE 4469 Teaching World Literature to Middle and Secondary Students MW (3) ED EDT

World literature encompasses more than Western European literature. This course is designed to emphasize, but is not limited to, the study of Eastern literature. This course fulfills the world literature course requirement for teacher certification in English.

### LAE 4530 Methods of Teaching English: Practicum (3) ED EDT

PR: Senior standing or enrollment in Plan II Master's Program. CR: LAE 4323 or LAE 4335. Taken one semester, spring or fall, prior to internship.

### LAE 4936 Senior Seminar in English Education (2) ED EDT

PR: Senior standing. Required concurrently with internship. Synthesis of teacher candidate's courses in complete college program.

### LAE 4940 Internship: English Education (1-12) ED EDT

S/U only. One full semester of internship in a public or private school. Intern takes Senior Seminar in English Education concurrently. In special programs where the intern experience is distributed over two or more semesters, student will be registered for credit which accumulates from 9 to 12 semester hours.

### LAE 5462 Young Adult and World Literature for New Teachers (3) EDEDI

PR: Teaching position w/either English degree or 30 hrs of Undergraduate English A study of the types of literature read by adolescents, including literature representative of other cultures, with emphasis upon the criteria for the choice of good books and knowledge of available books and teaching materials.

### LAE 5862 Classroom Communication in English Education (3) EDEDI

Identifies characteristics of classroom communication environment; offers insights, info, instructional strategies designed to help you become effective classroom communication managers. Emphasis on role of media & non-print texts in students' lives.

### LAE 5932 Selected Topics in the Teaching of English (3) ED EDT

PR: Certification in English and/or Mass Communications and approval of graduate advisor. Investigation of topics which are of

special interest to the student and are related to the teaching of English in the secondary school. Topics will be selected by the student in accordance with his particular goals and will be approved by the student's graduate advisor.

### LAH 2020 Latin American Civilization HP AF (3) AS HTY

An introduction to selected issues, events, and people in Latin American history from 1492 to the present. Focus on Argentina, Brazil, Chile, Cuba, and Mexico. Intended for students in any discipline; no prerequisites. An entry-level course for Latin American studies.

### LAH 2733 Latin American History in Film HP AF (3) AS HTY

Through the use of films and readings, the course introduces the broad sweep of Latin American history from the pre-Columbian period to today. Emphasis is placed on the social-cultural context to understand the peoples and events that have shaped Latin America.

### LAH 3130 Colonial Latin America (4) AS HTY

A study of the Spanish and Portuguese Colonial empires in the New World from 1492-1830.

### LAH 3200 Modern Latin America (4) AS HTY

A study of the emergence of the Latin American states. The course will examine developments in Latin America during the nineteenth and twentieth centuries. Special attention is given to the Third World character of the region.

### LAH 3430 History of Mexico (4) AS HTY

Mexican history from pre-Columbian cultures to the twentieth century. Emphasis falls on the colonial political economy, social development, the wars of independence, development of the 19th century Mexican state and the Mexican revolution.

### LAH 3470 History of the Caribbean (4) AS HTY

A thematic study of the circum-Caribbean from pre-Columbian cultures to the twentieth century, emphasizing the development of the Caribbean political economy with emphasis on monoculture, plantation society, and colonial/neo-colonial relationships.

### LAH 3480 History of Cuba (4) AS HTY

Cuban history from pre-Columbian cultures to the Cuban Revolution. Emphasis on colonization, the sugar economy, the struggles for independence, the political economy of the Republic, and the 20th century revolutionary process.

### LAS 3002 Latin America (3) AS INT

Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic, anthropological, and sociological analysis in dealing with salient features and current problems.

### LAS 3004 The Americas - Latin and Caribbean (3) AS INT

This is a telecourse that is designed to introduce the complexities of Latin America and the Caribbean to students in the U.S. (Open University - televised course.)

### LAS 3116 Latin America Through Film AF (3) AS INT

This course will use film, video, selected readings, and lectures to teach the interested student about Latin America.

### LAS 4934 Selected Topics: Latin American Studies (3-9) AS INT

Latin America region will be analyzed through different specific topics to provide students analytical tools to understand hemispheric relations and the relevance of this complex region for the USA. Open to non-majors, repeatable up to 09 credits.

### LAS 4940 Internship in Latin American and the Caribbean (1-9) AS INT

PR: CL. Designed to complement other instruction focused on Latin America and the Caribbean. Open to all majors and is repeatable up to 9 hours.

### LAT 1120 Beginning Latin I (4) AS WLE

An introductory course in Latin grammar with appropriate readings.

### LAT 1121 Beginning Latin II (4) AS WLE

PR: LAT 1120 or equivalent. An introductory course in Latin grammar with appropriate readings.

### LAT 2220 Intermediate Latin (4) AS WLE

PR: LAT 1121 or equivalent. Readings in Latin at an intermediate level.

### LAT 2221 Intermediate Latin II (4) AS WLE

PR: LAT 2220. This class will introduce students to their first Latin author, and to the techniques and skills of intermediate work in Latin. It will also provide a comprehensive review of Latin Grammar. It is not restricted to majors, and not repeatable for credit.

### LIN 2002 Language, Culture and Film AF (3) AS WLE

Offers initial exposure to foreign languages and cultures. Through lecture, demonstration, discussion, and the viewing of full-length feature films, students are introduced to a variety of prominent modern and ancient languages and cultures.

## LIN 3010 Introduction to Linguistics (3) AS WLE

Introduction to the basic principles of linguistic science; phonological and grammatical analysis and description; language change and genetic relationships.

## LIN 3670 English Grammar and Usage (3) AS ENG

A course in the basics of traditional English grammar designed as a complement to our composition and creative writing courses, as a review for those students who will take preprofessional exams, and as a basic course for students interested in improving their knowledge of English. Will not be counted toward the English major.

## LIN 3801 Language and Meaning 6A (3) AS WLE

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

## LIN 4040 Descriptive Linguistics (3) AS WLE

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

## LIN 4575 Language Types of the World () AS WLE

## LIN 4600 Language and Society (3) AS WLE

PR: LIN 3010. An analysis of the interrelation of a language and the structure of the society using it. the linguistic behavior patterns characteristic of particular social, political, economic, educational, and racial groups. Problems in communication between strata.

## LIN 4671 Traditional English Grammar (3) AS ENG

A course primarily using the sentence diagram to present a detailed analysis of the parts of speech, verb tenses, sentence functions, and other basic grammatical classifications of traditional English grammar.

## LIN 4680 Structure of American English (3) AS ENG

An introductory survey of traditional, structural, and generative transformational grammars and their techniques for the analysis and description of linguistic structure in general, and contemporary American English, in particular.

## LIN 4710 Language and Communication: Acquisition and Development (3) AS WLE

PR: LIN 3010. A survey of current research and theory in the processes of normal acquisition and development of language and communication in children. the acquisition and development of phonology, syntax, semantics, pragmatics, and nonverbal communication and the role of language in general cognitive development.

## LIN 4903 Directed Reading (1-3) AS WLE

PR: CI. Readings in special topics.

## LIN 4930 Selected Topics (1-3) AS WLE

PR: CI. Course content depends upon students' needs and instructor's interest and may range over the entire field of linguistics.

## LIN 5700 Applied Linguistics (3) AS WLE

Analysis of the phonological, morphonological, and syntactic features of English as a basis for linguistic application to problems of English language acquisition by non-native speakers.

## LIS 2005 Library and Internet Research Skills (3) AS LIS

An introduction to information research skills as they apply to using both academic libraries and the Internet. Assignments will focus on developing skills to locate, evaluate, and use sources of information.

## LIS 2937 Selected Topics in Library/Information Science (1-3) AS LIS

Covers a variety of topics in the field of library/information science such as emerging technologies, administration and service, and current professional issues.

## LIS 3361 World Wide Web Page Design and Management (3) AS LIS

PR: LIS 2004. Covers a variety of strategies in designing and maintaining effective World Wide Web pages for publication on the Internet.

## LIS 4930 Selected Topics in Information Studies (3) AS LIS

Covers a variety of topics in the field of library/information science such as emerging technologies, administration and service, and current professional issues.

## LIS 5020 Foundations of Library and Information Science (3) AS LIS

Introduction to the study of library and information science, history; organization; specialized literature; outstanding leaders; current trends, issues, and problems; the place of the information agency in society with its contributions to that society.

## LIS 5268 Microcomputer Applications Library and Information Centers (3) AS LIS

Microcomputer hardware and software for libraries and their application in library/information settings. Projects using major

applications for budgets, databases, and telecommunications are undertaken.

## LIS 5315 Instructional Graphics (3) AS LIS

Theoretical aspects, planning and production of instructional graphic material. The theory of graphic communications. Interpreting needs for instructional materials appropriate for given behavioral objectives.

## LIS 5333 TV in Schools and Libraries (3) AS LIS

Small format video tape recordings and the utilization of open and closed broadcasts in schools and libraries.

## LIS 5937 Selected Topics in Library Studies (1-4) AS LIS

Covers a variety of topics in such areas as collection development, reference services, technical services, and administration.

## LIT 2000 Introduction to Literature 6A HP (3) AS ENG

The nature and significance of literature in its various forms: fiction, drama, poetry; emphasis on the techniques of reading literature for informed enjoyment. Will not be counted toward the English major.

## LIT 2010 Introduction to Fiction 6A HP (3) AS ENG

A study of the short story and novel as literary forms; approached from an historical perspective though not restricted to any historical period. Will not be counted toward the English major.

## LIT 2030 Introduction to Poetry 6A HP (3) AS ENG

A study of the poem as literary form; approached from an historical perspective though not restricted to any historical period. Will not be counted toward the English major.

## LIT 2040 Introduction to Drama 6A HP (3) AS ENG

A study of the major forms of drama as literature and theatre; approached from an historical perspective though not restricted to any historical period. Will not be counted toward the English major.

## LIT 3022 Modern Short Prose HP (3) AS ENG

PR: ENC 110 and ENC 1102. This course for English majors and minors explores modern short prose in World, British, and American literatures; genres include the short story, the long short story, the short novel, and the essay. Not repeatable.

## LIT 3031 Survey of Poetry (3) AS ENG

A chronological sampling of the major poems written in English from the Middle Ages to the present. Recommended as the first literature course in the Poetry Option.

## LIT 3043 Modern Drama (3) AS ENG

A study of such modern and contemporary dramatists as Ibsen, Strindberg, Chekhov, Pirandello, Shaw, O'Neill, Pinter, Stoppard, Brecht, Beckett, and Ionesco.

## LIT 3093 Contemporary Literature (3) AS ENG

An introduction to the fiction, poetry, and drama written since 1945—American, British, Continental, or Multicultural. Focus may be on one, two, or all three genres or on works from any combination of nationalities.

## LIT 3101 Literature of the Western World Through the Renaissance 6A (3) AS ENG

A study in English of the great works of Western Literature from its beginnings through the Renaissance, including the Bible, Homer, Sophocles, Plato, Euripides, Virgil, Cicero, Dante, Petrarch, Machiavelli, and Rabelais, among others.

## LIT 3102 Literature of the Western World Since the Renaissance 6A (3) AS ENG

A study in English of the great works of Western Literature from the Neoclassic to the Modern Period, including such writers as Moliere, Racine, Voltaire, Dostoevsky, Chekhov, Ibsen, Kafka, Gide, Sartre, and Camus, among others.

## LIT 3103 Great Literature of the World 6A MW LW (3) AS ENG

A survey of world literature including samples from the ancient and modern era, western and eastern traditions, male and female writers, and various ethnic cultures. Focus on values/ethics, race, ethnicity, and gender; thinking and writing skills. Will not be counted toward the English major.

## LIT 3144 Modern European Novel 6A HP (3) AS ENG

A study of the Modern European novel in translation as it developed from the nineteenth century to the present, including such writers as Dostoevsky, Flaubert, Kafka, Hesse, Camus, and Solzhenitsyn.

## LIT 3155 Modern Literature 6A HP MW LW (3) AS ENG

Examines major literary works of the 20th Century and explores ways in which authors have expressed the age, its great issues and conflicts, in order to gain an historical perspective that will help relate the present to the recent past. Will not be counted toward the English major.

## LIT 3301 Cultural Studies and the Popular Arts 6A MW LW (3) ASENG

A study of twentieth century culture as it is represented in the film, fiction, and other cultural artifacts of many different nationalities.

## 306 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

Focuses on values/ethics, race, ethnicity and gender; thinking and writing skills. Will not be counted toward the English major.

### LIT 3374 The Bible As Literature MW (3) AS ENG

Major emphasis on literary types, literary personalities of the Old and New Testaments, and Biblical archetypes of British and American literary classics. Fall Semester, Old Testament; Spring Semester, New Testament. Focuses on values/ethics, race, ethnicity and gender; thinking and writing skills. May be taken twice for credit with different topics. May be counted once toward the English major.

### LIT 3383 The Image of Women in Literature 6A MW LW (3) AS ENG

A study that seeks to trace the origins of contemporary views about women, to analyze major Eastern/Western literary portrayals of women, to examine ideas about women's roles, and to compare/contrast cultural/racial images of women. Will not be counted toward the English major.

### LIT 3410 Religious and Philosophical Themes (3) AS ENG

Theological and philosophical ideas, allusions, and symbols in the writings of Dostoevsky, Nietzsche, Mann, Joyce, Eliot, Camus, Sartre, among others.

### LIT 3451 Literature and the Occult 6A MW LW (3) AS ENG

An introduction to the occult tradition as a major ingredient in English, Continental, American, and Multicultural literature; analysis of the origins, classifications, and areas of the various magic arts from classical times through the present. Focuses on values/ethics, race/ethnicity and gender; thinking and writing skills. Will not be counted toward the English major.

### LIT 3930 Special Topics in English Studies (3) AS ENG

The study of variable specialized areas of literary interest, suitable for junior and senior English majors. Topics will vary according to student interest and instructor expertise. May be taken twice for credit with different topics.

### LIT 4386 British and American Literature by Women 6A MW LW (3) AS ENG

Survey of women's literary tradition in England and America from the seventeenth century to the present. Thematic focus includes self, marriage, sexuality, madness, race and generations. Writing intensive. Will not be counted toward the English major.

### LIT 4463 Film and Culture 6A LW (3) AS ENG

Exploration of the history of creative filmmaking from its beginnings to the present time. Open to both majors and non-majors.

### LIT 4804 Literature as Cultural Study MW (3) AS ENG

The study of literary texts as cultural artifacts. Literary texts as historical, social, political, psychological, philosophical, religious, etc. documents. Topics and works vary. Will not be counted toward the English major.

### LIT 4930 Selected Topics in English Studies (1-4) AS ENG

The content of the course will be governed by student demand and instructor interest. It will examine in depth a recurring literary theme or the work of a small group of writers. Special courses in writing may also be offered under this title. May be taken twice for credit with different topics.

### LNW 4381 Livy (4) AS WLE

PR: Basic knowledge of Latin. Readings in the ideas and artistry of this Roman historian.

### LNW 4500 Cicero and Roman Philosophy (4) AS WLE

PR: Basic knowledge of Latin. Readings in the philosophic writings of Cicero, together with a consideration of eclectic thought.

### LNW 4501 Seneca and Roman Philosophy (4) AS WLE

PR: Basic knowledge of Latin. Readings in the philosophic writings of Lucius Annaeus Seneca, together with an examination of Stoic, Epicurean, and Eclectic thought.

### LNW 4634 Catullus (4) AS WLE

PR: Basic knowledge of Latin. Readings in Catullus. Study of techniques and tradition in Roman lyric poetry.

### LNW 4644 Cicero (4) AS WLE

PR: Basic knowledge of Latin. Readings in the epistles of Cicero.

### LNW 4654 Horace (4) AS WLE

PR: Basic knowledge of Latin. Readings in the Odes and Epodes of Horace; study of the Ode's tradition.

### LNW 4660 Vergil (4) AS WLE

Readings in Virgil's Aeneid. Study of the tradition, techniques, and artistry of Roman epic poetry. Available to majors and non-majors.

### LNW 4670 Ovid (4) AS WLE

PR: LAT 1121 or equivalent. Readings in Ovid's Metamorphoses. Study of Ovid's technique, style, and artistry.

### LNW 4900 Directed Reading (1-4) AS WLE

Departmental approval required.

### LNW 4930 Selected Topics (4) AS WLE

Study of an author, movement, or theme.

### LNW 5900 Directed Reading (1-4) AS WLE

Departmental approval required. S/U.

### LNW 5934 Selected Topics (4) AS WLE

Study of an author, movement, or theme.

### MAA 4211 Intermediate Analysis I 6A (4) AS MTH

PR: MAC 2313 and MAS 3105. Sequences, series, metric spaces, continuity, differentiation.

### MAA 4212 Intermediate Analysis II 6A (3) AS MTH

PR: MAA 4211. Riemann-Stieltjes integration, uniform convergence, and related topics.

### MAA 4402 Complex Variables 6A (3) AS MTH

PR: MAP 2302 or CI. No credit for students with credit in MAA 5405. Complex numbers, Cauchy-Riemann equations, analytic and conformal functions, power series, Cauchy Theorem, Cauchy Integral Formula, residue theory.

### MAA 5306 Real Analysis I (3) AS MTH

PR: MAA 4211. Riemann-Stieltjes integrals, uniform convergence, Fourier series, Lebesgue measure and integration on  $\mathbb{R}$ .

### MAA 5307 Real Analysis II (3) AS MTH

PR: MAA 5306. Metric spaces, Banach spaces, and function spaces; measure and integration on abstract spaces.

### MAA 5405 Applied Complex Analysis (3) AS MTH

PR: CI. Complex numbers, analytic and harmonic functions. Series. Contour integrals, residue theory. Conformal mappings. (A survey course emphasizing techniques and applications.)

### MAC 1105 College Algebra 6A QM (3) AS MTH

PR: C (2.0) or better in MAT 1033, or 490 or better SAT Math score, or 21 or better ACT Math score, or 90 or better Elementary Algebra CPT score, or 40 or better College-Level Math CPT score. No credit for students with prior credit for MAC 1140 or MAC 1147. Concepts of the real number system, functions, graphs, and complex numbers. Analytic skills for solving linear, quadratic, polynomial, exponential, and logarithmic equations. Mathematical modeling of real life applications. College Algebra may be taken either for General Education credit or as preparation for a pre-calculus course.

### MAC 1114 Precalculus Trigonometry 6A (2) AS MTH

PR: C (2.0) or better in MAC 1105, or 550 or better SAT Math Score, or 24 or better ACT Math Score. CP: MAC 1140. Angles, trigonometric functions, properties and graphs of trigonometric functions, right triangles, laws of sines and cosines, polar coordinates.

### MAC 1140 Precalculus Algebra 6A QM (3) AS MTH

PR: C (2.0) or better in MAC 1105, or 550 or better SAT Math Score, or 24 or better ACT Math Score. CP: MAC 1114. Review of functions and graphs. Analytic geometry including conic sections and rotation of axes, systems of equations including matrix algebra and determinants, sequences and series including Binomial Theorem.

### MAC 1147 Precalculus Algebra and Trigonometry 6A QM (4) AS MTH

PR: C (2.0) or better in MAC 1105, or 550 or better SAT Math score, or 24 or better ACT Math score, or 60 or better College-Level Math CPT score. No credit for students with credit for either MAC 1140 or MAC 1114. This is an accelerated combination of MAC 1140 and MAC 1114; this course is best for students who have already seen some trigonometry. See the descriptions of MAC 1140 and MAC 1114.

### MAC 2233 Business Calculus 6A QM (4) AS MTH

PR: C (2.0) or better in MAC 1105, or C (2.0) or better in MAC 1140, or C (2.0) or better in MAC 1147, or 590 or better SAT Math score, or 26 or better ACT Math score, or 78 or better College-Level Math CPT score. No credit for mathematics majors or students with credit for either MAC 2241, MAC 2281, or MAC 2311. Linear equations and functions, mathematics of finance, differentiation and integration of algebraic, exponential and logarithmic functions with applications to business, finance and economics.

### MAC 2241 Life Sciences Calculus I 6A QM (4) AS MTH

PR: C (2.0) or better in MAC 1114, or C (2.0) or better in MAC 1147, or 650 or better SAT Math score, or 29 or better ACT Math score, or 90 or better College-Level Math CPT score, and knowledge of trigonometry. No credit for math majors or students with credit in MAC 2233, MAC 2281, or MAC 2311. Differentiation and integration of algebraic, trigonometric, exponential, and logarithmic functions with applications to life sciences.

### MAC 2242 Life Sciences Calculus II 6A QM (4) AS MTH

PR: C (2.0) or better in MAC 2241. No credit for Mathematics majors or students with credit in MAC 2282 or MAC 2312. Techniques of integration, differential equations, functions of several variables, series and Taylor polynomials.

### MAC 2281 Engineering Calculus I 6A QM (4) AS MTH

PR: C (2.0) or better in MAC 1114 and C (2.0) or better in MAC 1140, or C (2.0) or better in MAC 1147, or 650 or better SAT Math score,

or 29 or better ACT Math score, or 90 or better College-Level Math CPT score, and knowledge of trigonometry. No credit for mathematics majors or for students with credit in MAC 2233, MAC2241, or MAC 2311. Differentiation, limits, differentials, extremes, indefinite integral. No credit for mathematics majors or for students with credit in MAC 2233 or MAC 2243 or MAC 2311.

**MAC 2282 Engineering Calculus II 6A QM (4) AS MTH**  
PR: C (2.0) or better in MAC 2281. No credit for students with credit in MAC 2242 or MAC 2312. Definite integral, trigonometric functions, log, exponential, series, applications.

**MAC 2283 Engineering Calculus III 6A (4) AS MTH**  
PR: C (2.0) or better in MAC 2282 or CC. No credit for students with credit in MAC 2313. Techniques of integration, numerical methods, analytic geometry, polar coordinates, Vector algebra, applications.

**MAC 2311 Calculus I 6A QM (4) AS MTH**  
PR: C (2.0) or better in MAC 1114 and C (2.0) or better in MAC 1140, or C (2.0) or better in MAC 1147, or 650 or better SAT Math score, or 29 or better ACT Math score, or 90 or better College-Level Math CPT score, and knowledge of trigonometry. No credit for students with credit in MAC 2233, MAC 2241, or MAC 2281. Differentiation, limits, differentials, extremes, indefinite integral. No credit for students with credit in MAC 2233 or MAC 2243 or MAC 2311.

**MAC 2312 Calculus II 6A QM (4) AS MTH**  
PR: C (2.0) or better in MAC 2311 or CC. No credit for students with credit in MAC 2242 or MAC 2282. Antiderivatives, the definite integral, applications, series, log, exponential and trig functions.

**MAC 2313 Calculus III 6A (4) AS MTH**  
PR: C (2.0) or better in MAC 2312 or CC. No credit for students with credit in MAC 2283. Integration, polar coordinates, conic sections, vectors, indeterminate forms and proper integrals.

**MAD 3100 Discrete Mathematics 6A (3) AS MTH**  
PR: MAC 2281 or MAC 2311. No credit for Mathematics majors. An introduction to some of the aspects of discrete mathematics that are fundamental to digital computing. Topics include sets, numbers, algorithms, Boolean algebra, computer arithmetic, elementary combinatorics and an introduction to graph theory.

**MAD 4401 Numerical Analysis 6A (3) AS MTH**  
PR: MAP 2302 and MAS 3105. Interpolation and quadrature, finite differences, numerical solution of algebraic and transcendental equations, numerical solution of differential equations, computer techniques.

**MAD 4504 Theory of Computation 6A (3) AS MTH**  
PR: MGF 3301 or MAD 3100. Mathematical aspects of alphabets and languages. Chomsky's hierarchy. Grammars. Regular languages, grammars and finite states machines. Context-free languages and grammars. Turing machines and languages. Decidability. Inductive definition of functions and basic computable functions. Introduction to computational complexity.

**MAD 5101 LISP: Programming With Algebraic Applications (3) AS MTH**  
PR: MHF 5306 or MAD 6510 or MAS 5311 or CI. Programming in LISP, functional languages, foundations of Lambda Calculus and algebraic applications (theorem proving and game playing).

**MAD 5305 Graph Theory (3) AS MTH**  
PR: MAS 3105 or CI. Brief introduction to classical graph theory (4-color theorem, etc.), directed graphs, connected digraphs, condensations, incidence matrices, Polyá's Theorem, networks.

**MAE 4310 Teaching Elementary School (K – 6) Mathematics I (3) EDEDE**  
PR: Admission to College of Education and two college level mathematics courses. Methods for teaching number ideas, computation skills, and mathematical reasoning in elementary (K – 6) classrooms.

**MAE 4320 Teaching Mathematics in the Middle Grades (3) ED EDO**  
PR: Admission to Mathematics Education program or DPR. Techniques and materials of instruction in middle grades mathematics topics. Students are expected to observe 15 hours in middle schools.

**MAE 4326 Teaching Elementary School (K – 6) Mathematics II (3) EDEDE**  
PR: MAE 4310. Methods for teaching informal geometry, measurement, probability, statistics, and algebraic thinking for elementary school (K – 6) classrooms.

**MAE 4330 Teaching Senior High School Mathematics (3) ED EDO**  
PR: Admission to Mathematics Education program or DPR. Techniques and materials of instruction in mathematics. Students are expected to observe 20 hours in high schools.

**MAE 4551 Reading the Language of Mathematics (3) ED EDO**  
PR: Admission to Mathematics Education program or DPR. The course provides the prospective secondary math teacher the

opportunity to develop concepts, skills and instructional procedures for effectively integrating communication (reading, writing, listening, speaking) into the math curriculum. Required under Math Ed. program.

**MAE 4652 Technology for Teaching Secondary School Mathematics I (3) ED EDO**

PR: Admission to Mathematics Education Program or DPR. This course prepares secondary mathematics education majors to write computer programs in both QBASIC and Logo 4.0 that are appropriate for secondary school mathematics classrooms. A variety of uses of computers in mathematics instruction will also be covered.

**MAE 4653 Technology for Teaching Secondary School Mathematics II (3) ED EDO**

PR: Admission to Mathematics Education program or DPR. This course prepares secondary mathematics education majors to be proficient with hand-held technologies such as; graphing calculators, symbolic manipulators, calculator based laboratory systems and hand held geometric drawing tools.

**MAE 4909 Directed Study: Mathematics Education (1-3) ED EDO**

PR: Senior Standing and CI. To extend competency in teaching field.

**MAE 4936 Senior Seminar in Mathematics Education (2) ED EDO**

PR: Senior Standing; CR: MAE 4940. Synthesis of teacher candidate's courses in complete college program.

**MAE 4940 Internship: Mathematics Education (1-12) ED EDO**

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

**MAE 5875 Abstract Algebra for Teachers (3) AS MTH**

PR: MAS 3105 and MAS 4301 and Bachelor's degree or CI. No credit for Mathematics majors. Groups, fields, vector spaces as they relate to high school algebra and geometry.

**MAN 3025 Principles of Management (3) BA MAN**

PR: Junior standing. Examines intrapersonal, interpersonal, group/team, organizational, and environmental (both stakeholder and societal) factors influencing the management task.

**MAN 3240 Organizational Behavior Analysis (3) BA MAN**

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

**MAN 3301 Human Resource Management (3) BA MAN**

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

**MAN 3401 Industrial Relations (3) BA MAN**

Conceptualization of the administrative problems arising from unionization. Emphasis on the relationship between management and employee representatives in private and public employment.

**MAN 4120 Managerial Behavioral Laboratory (3) BA MAN**

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

**MAN 4129 Theory and Practice of Management Skills (3) BA MAN**

This course involves the transference of management theories into practice. It requires the active involvement of students in developing and practicing the skills needed to be a successful manager.

**MAN 4280 Organizational Development and Change (3) BA MAN**

PR: MAN 3240 or CI. A lab course where students experimentally apply behavioral science techniques in an "action-research" framework to the cycle of planned change so as to build a more effective organization.

**MAN 4282 Organizational Assessment (3) BA MAN**

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

**MAN 4402 Employment Laws (3) BA MAN**

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

# 308 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

## MAN 4430 Seminar in Negotiations and Administration of Labor Agreements (3) BA MAN

Case studies in contract negotiation, administration, grievance settlement, and arbitration. Assumes familiarity with industrial relations system.

## MAN 4504 Operations Management: A Systems Approach (3) BA QMB

PR: ISM 3431 or equivalent. Studies the problems of "operations" in all types of enterprises in both the public and private sectors. Emphasis is placed on the application of various decision science methodologies to problem situations.

## MAN 4507 Operation Production Systems (3) BA QMB

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

## MAN 4600 International Management (3) BA MAN

PR: MAN 3025, Senior Standing or CI. Examines the effects of international cultural differences on business practices within and outside the United States and provides methods to build synergies and establish/enhance competitive advantage via those differences.

## MAN 4702 Disaster Recovery and Business Continuity Planning (3) US EIT

PR: Electives may be taken at any time after completion of the first semester. When organizations are interrupted by disasters, accidents, or natural events, a loss of money, data, and/or productivity occurs. The extent to which the loss affects the organization's health depends on its ability to deal with these disruptions.

## MAN 4802 Entrepreneurship and Small Business Management (3) BA MAN

PR: ACG 2021, ACG 2071, MAR 3023, or CI. Study of the factors involved in starting and managing a small-to medium-sized business. Emphasis on conduct of pre-business feasibility study, start-up of business, successful management of the firm, and options for succession or termination.

## MAN 4804 Small Business Management Counseling (3) BA MAN

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

## MAN 4905 Independent Study (1-3) BA MAN

PR: CI. S/U only. Specialized independent study determined by the students' needs and interests.

## MAN 4930 Selected Topics in Management (1-3) BA MAN

Topics to be selected by instructor and department chairperson for pertinent Management issues.

## MAN 4931 Independent Research (1-4) BA MAN

PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor.

## MAP 2302 Differential Equations 6A (3) AS MTH

PR: MAC 2283 or MAC 2313. First order linear and nonlinear differential equations, higher order linear equations, applications.

## MAP 5316 Ordinary Differential Equations I (3) AS MTH

PR: MAP 2302 and MAA 4211, or CI. Existence and uniqueness theory, properties of solutions, linear systems, stability theory. Sturm-Liouville theory.

## MAP 5317 Ordinary Differential Equations II (3) AS MTH

PR: MAP 5316 and MAA 5307 or CI. Topics selected from fixed point theory, comparison theory, oscillation theory, Poincare-Bendixson Theory, Lyapunov functions, eigenfunction expansions.

## MAP 5345 Applied Partial Differential Equations (3) AS MTH

PR: MAP 5407 or CI. Separation of variables, the heat equation, wave equation, Laplace's equation, classification, Green's functions with emphasis on applications.

## MAP 5407 Methods of Applied Mathematics (3) AS MTH

PR: MAP 2302 or CI. Sturm-Liouville theory, Fourier series, Green's functions, matrix methods for linear systems of ordinary differential equations, and topics from calculus of variations, control theory, numerical solutions of differential equations.

## MAR 2931 Selected Topics in Marketing (1-4) BA MKT

Not available for credit to upper-level students who have been admitted to the College of Business. Topics to be selected by department chairman.

## MAR 3023 Basic Marketing (3) BA MKT

PR: Junior standing. Survey of the marketing of goods and services within the economy. Attention is paid to the impact of marketing on other functional areas of business as well as society.

## MAR 3400 Professional Selling (3) BA MKT

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

## MAR 3613 Marketing Research (3) BA MKT

PR: QMB 2100, MAR 3023. A study of research methods and techniques applicable to problem solving in marketing. Attention is also given to defining information needs, determining the value of information, interpreting and reporting information for use in marketing decision making.

## MAR 3823 Marketing Management (3) BA MKT

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

## MAR 4156 International Marketing (3) BA MKT

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

## MAR 4213 Logistics and Physical Distribution Management (3) BA MKT

PR: MAR 3023 or CI. A study of logistics in the marketing of goods and services. Includes a description and analysis of the logistics environment as well as components of the physical distribution system with emphasis on information flows and the application of quantitative techniques used in establishing and controlling customer service levels.

## MAR 4231 Retailing Management (3) BA MKT

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

## MAR 4333 Promotion Management (3) BA MKT

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

## MAR 4403 Sales Management (3) BA MKT

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

## MAR 4453 Business to Business Marketing (3) BA MKT

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

## MAR 4503 Buyer Behavior (3) BA MKT

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

## MAR 4824 Marketing Management Problems (3) BA MKT

PR: Senior Standing, MAR 3823, MAR 3613, MAR 4333. The integration of marketing knowledge applied to decision roles in managing the total marketing effort of firms, and coordination with other major functional areas on specific problems.

## MAR 4903 Independent Research (1-3) BA MKT

PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor.

## MAR 4905 Independent Study (1-3) BA MKT

PR: CI. S/U only. Specialized independent study determined by the students' needs and interests.

## MAR 4933 Selected Topics in Marketing (1-3) BA MKT

Topics to be selected by instructor and department chairperson.

## MAS 1100 Constructive Number Theory and Linear Algebra (2) US DEA

PR: Acceptance in USF-Hillsborough County Mathematics and Science Program. Computational and constructive aspects of

number theory. Topics include: properties of integers, Diophantine Equations, congruence, quadratic residues polynomials over the integers, systems of linear equations, matrices and determinants.

**MAS 3105 Linear Algebra 6A (4) AS MTH**  
 CP: MGF 3301 and either MAC 2283 or MAC 2313. Linear systems, matrix algebra, vector spaces, linear independence, inner product spaces, Gram-Schmidt algorithm, linear transformations and matrix representations, determinants, eigenvalues, diagonalization, quadratic forms.

**MAS 4156 Vector Calculus 6A (4) AS MTH**  
 PR: MAS 3105 and either MAC 2313 or MAC 2283. Implicit function and inverse function theorems, parameterized surfaces, submanifolds on Euclidean space, exterior calculus of differential forms, differentiation of vector fields, line and surface integrals, Stokes' Theorem, elementary continuous groups.

**MAS 4214 Elementary Number Theory 6A (3) AS MTH**  
 PR: MAS 2312. No credit towards Mathematics major. Divisibility, prime numbers, Fundamental Theorem of Arithmetic, Diophantine equations, the algebra of congruencies, number functions and other selected topics.

**MAS 4301 Elementary Abstract Algebra 6A (3) AS MTH**  
 PR: MAS 3105. An introduction to the basic algebraic structures; groups, rings, integral domains, and fields; homeomorphisms and isomorphisms.

**MAS 5107 Advanced Linear Algebra (3) AS MTH**  
 PR: MAS 3105 and MAS 4301 CP: MAS 5311. Finite-dimensional vector spaces over arbitrary fields, dual spaces, canonical forms for linear transformations, inner product spaces, orthogonal, unitary, and self-adjoint operators and quadratic forms.

**MAS 5215 Number Theory (3) AS MTH**  
 PR: MAS 3105 and MAS 4301, or Cl. Fundamental theorem of arithmetic, modular arithmetic, Chinese remainder theorem, Mersenne primes, perfect numbers, Euler-Fermat theorem, pseudo primes, primitive roots, law of quadratic reciprocity, factorization and primality testing algorithms.

**MAS 5311 Algebra I (3) AS MTH**  
 PR: MAS 3105 and MAS 4301 or Cl. Group theory: Sylow theorems; classification of groups of small order. Ring theory: ideals, quotient rings, polynomial rings, Euclidean domains, principal ideal domains and unique factorization.

**MAS 5312 Algebra II (3) AS MTH**  
 PR: MAS 5311 or Cl. Continuation of MAS 5311. Finitely generated modules over a principal ideal domain, basic field theory, finite fields, Galois theory.

**MAT 2930 Selected Topics in Mathematics 6A (1-4) AS MTH**  
 PR: Cl. The course content will depend on the interest of faculty members and student demand.

**MAT 2936 Technology Seminar 6A (1) AS MTH**  
 S/U only. A two hour/week technology seminar to acquaint students majoring in mathematics, physics, and other sciences with the computer tools necessary in scientific communication and document preparation.

**MAT 4906 Independent Study 6A (1-4) AS MTH**  
 PR: Cl. S/U only. Specialized independent study determined by the student's needs and interests. The written contract required by the College of Arts and Sciences specifies the regulations governing independent study.

**MAT 4930 Selected Topics in Mathematics 6A (1-4) AS MTH**  
 PR: Cl. The course content will depend on the interest of faculty members and student demand.

**MAT 4937 Mathematics Majors Seminar 6A (1) AS MTH**  
 PR: MAS 4301.

**MAT 4970 Mathematics Senior Thesis 6A (3) AS MTH**  
 PR: Admission to Mathematics Honors Program and CC. S/U only. Course restricted to mathematics majors.

**MAT 5932 Selected Topics (1-4) AS MTH**  
 PR: Cl. Each course covers a single topic outside the usual curriculum.

**MCB 2000 Microbiology for Nursing and other Healthcare Professionals (3) NU NUR**  
 Basics of microbiology for health professionals. Focus on disease states and the role of bacteria, viruses, fungi, rickettsiae and other pathogenic organisms.

**MCB 2000L Microbiology Lab for Nursing and other Healthcare Professionals (1) NU NUR**  
 PR: MCB 2000. Basics of microbiology for health professionals. Focus on disease states and the role of bacteria, viruses, fungi, rickettsiae and other pathogenic organisms.

**MCB 3020C General Microbiology (4) AS BIO**  
 PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712. Structure and function

of bacteria, archaea, viruses, and eukaryotic microbes. Laboratory includes media preparation and culturing, staining and enumeration techniques. Lecture and Laboratory. PCB 3063 is recommended.

**MCB 4115C Determinative Bacteriology (5) AS BIO**  
 PR: MCB 3020C, CHM 2210, MAC 1105 or higher-level MAC course or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211. Survey of bacterial classification; detailed examinations of bacteria important to man in agriculture, in industry and as pathogens. Lec-lab.

**MCB 4404 Microbial Physiology and Genetics (4) AS BIO**  
 PR: MCB 3020C and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and PHY 2053. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211. Physiological, metabolic, and genetic phenomena pertinent to understanding the growth, development, ecology, regulation, and reproduction of microorganisms. Emphasizes the interdependence of physiological and genetic approaches. Lecture only.

**MCB 4404L Microbial Physiology and Genetics Laboratory (1) AS BIO**  
 CR: MCB 4404. Laboratory portion of Microbial Physiology and Genetics relating to biochemical characteristics and metabolic capabilities of bacteria. Laboratory only.

**MCB 4503 Virology (3) AS BIO**  
 PR: MCB 3020C and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211. The biology of viruses associated with plants, animals, and bacteria will be considered; the nature of viruses, mechanisms of viral pathogenesis, and interactions with host cells.

**MCB 4910 Microbiology Undergraduate Research (1-4) AS BIO**  
 PR: CC. For B.S. Microbiology majors only. S/U only. Individual investigation with faculty supervision.

**MCB 4934 Seminar in Microbiology (1) AS BIO**  
 PR: Senior or advanced junior standing. S/U only. Biology majors may take for elective credit.

**MCB 5206 Public Health and Pathogenic Microbiology (3) AS BIO**  
 PR: MCB 3020C, Cl. A comprehensive survey of pathogenic microbes responsible for disease in man and other animals and the impact of these infectious agents on the public health. These pathogens will be studied with respect to their morphology, cultivation, mechanisms of pathogenicity, laboratory diagnosis, and epidemiology.

**MCB 5655 Applied and Environmental Biology (3) AS BIO**  
 PR: MCB 3020C. A Study of the applications of microbiology to the food/beverage industry, agriculture, public health and bioremediation. This course is a microbiology elective and has a mandatory field trip.

**MCB 5815 Medical Mycology (3) AS BIO**  
 PR: MCB 3020C or Cl. A modern biological survey of the medically important fungi (yeasts and molds) important to microbiologists and environmental scientists.

**MET 4002 Climatology (4) AS GPY**  
 PR: GEO 2200 or Cl. An introductory survey of climatology. A qualitative study of the dynamics and general circulation of the atmosphere. Surface and upper level atmosphere linkages in the mid latitudes will be examined. Discussion of the regional climatic patterns and anomalies throughout the world.

**MET 4010C Meteorology (4) AS GPY**  
 PR: GEO 2200 or Cl. The earth's atmosphere and its processes; weather forecasting and analysis; instrumentation.

**MGF 1106 Finite Mathematics 6A QM (3) AS MTH**  
 PR: C (2.0) or better in MAT 1033, or 440 or better SAT Math score, or 19 or better ACT Math Score, or 72 or better Elementary Algebra CPT score. Concepts and analytical skills in areas of logic, linear equations, linear programming, mathematics of finance, permutations and combinations, probability, and descriptive statistics.

**MGF 1107 Mathematics for Liberal Arts 6A QM (3) AS MTH**  
 PR: C (2.0) or better in MAT 1033, or 440 or better SAT Math score, or 19 or better ACT Math Score, or 72 or better Elementary Algebra CPT score. This terminal course is intended to present topics which demonstrate the beauty and utility of mathematics to the general student population. Among the topics which might be included are: Financial Mathematics, Linear and Exponential Growth, Numbers and Number Systems, Elementary Number Theory, Voting Techniques, Graph Theory, and the History of Mathematics.

**MGF 1116 Mathematical Experience 6A (3) AS MTH**  
 PR: Two years of high school algebra. Introduction to some important and interesting basic ideas in mathematics with an emphasis on a mathematical way of thinking. Concepts such as definitions, axioms and proofs are explained. Topics from number theory, combinatorics, algebra and geometry are used. Some

# 310 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

topics are presented in their historical context and their impact on the development of mathematics is discussed.

## **MGF 2131 Chaos and Fractals 6A QM (3) AS MTH**

PR: C (2.0) or better in MAT 1033, or 440 or better SAT Math score, or 19 or better ACT Math Score, or 72 or better Elementary Algebra CPT score. Computer experiments in the behavior of functions under iteration: periodicity, attractors, stability, complex numbers, Cantor set, fractional dimension, sensitive dependence.

## **MGF 3301 Bridge to Abstract Mathematics 6A QM (4) AS MTH**

CP: MAC 2313 or MAC 2283. Techniques and logic of the construction of proofs. Topics will be selected from propositional logic, set theory, relations and functions, equivalence relations, Boolean algebra, cardinality, and limits.

## **MHF 4403 The Early History of Mathematics 6A MW (3) AS MTH**

PR: MAC 2312 and upper-level standing. A study of the history and development of mathematics and its cultural impact from the formation of number systems to the Renaissance.

## **MHF 4406 The History of Modern Mathematics 6A MW (3) AS MTH**

PR: MAC 2313. Traces the development of mathematical ideas in Western culture.

## **MHF 5306 Mathematical Logic and Foundations I (3) AS MTH**

PR: MAS 4301 or CI. Two-course sequence covering: predicate calculus and classical model theory; transfinite set theory and the system ZFC; recursion theory and decidability.

## **MHF 5402 The Early History of Mathematics (3) AS MTH**

PR: MAC 2312 A study of the history and development of mathematics and its cultural impact from the formation of number systems to the Renaissance.

## **MHF 5405 History of Modern Mathematics (3) AS MTH**

PR: MAC 2313. Traces the development of mathematical ideas in Western culture. Special emphasis is placed on those concepts which led to the Calculus. This course is open to majors and non-majors alike.

## **MHS 3411 Multidisciplinary Behavioral Healthcare Services (3) FM FMH**

PR: CI or Junior Standing minimum. Working in behavioral healthcare requires the application of specific knowledge and skills. This open enrollment course offers a practical multidisciplinary look at service delivery. Students will examine their career and educational goals in context.

## **MHS 4002 Behavioral Health Systems Delivery (3) FM FMH**

PR: MHS 3411 This course is designed to provide students with an understanding of the significant issues and trends in behavioral health delivery systems in America. Four major areas will be emphasized: 1) history and legislation; 2) systems delivery; 3) programs and policies; 4) selected at-risk populations. This course is not repeatable for credit and is open to non-minors in behavioral healthcare.

## **MHS 4052 Human Relations Skills in Counseling MW (4) ED EDG**

Introduction to the theory of human relations dynamics and development of skills required for effective interpersonal relations. Lecture sessions and experiential training.

## **MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment (3) FM FMH**

PR: MHS 3411 This course explores exemplary clinical practices in public behavioral health service delivery. Best or exemplary practices are defined as those that have both a track record and their efficacy has been empirically validated. Modules may begin with a historical perspective of the treatment of a specific population or a treatment strategy but will primarily focus on emerging methodologies.

## **MHS 4425 Field Experience in Behavioral Healthcare (3) FM FMH**

PR: MHS 3411, MHS 4002, MHS 4408 This experiential class allows the student to observe and participate with multidisciplinary staff of a provider agency. The student will attend team meetings, observe individual, group, and case management services. Assignments will be made to maximize the student's time investment in the field. Observations and experiences will be discussed in biweekly class meetings. Students are required to spend 120 hours (an average of 8 hours per week for 15 weeks) in an agency. Advisor approval required two months in advance of semester.

## **MHS 4741 Research Processes in Behavioral Health (3-5) FM FMH**

PR: 1 course in statistics; 1 course in research methods. Application of research processes used in the interdisciplinary field of behavioral health including research design, quantitative and qualitative methods, measurement, report writing, dissemination, and grant writing. Open to all majors.

## **MHS 4905 Independent Study: Guidance and Counseling Education (1-4) ED EDG**

PR: DPR. S/U only. Specialized independent study determined by the student's needs and interests.

## **MHS 4906 Directed Study (1-4) FM FMH**

Directed study. Student must have a contract with an instructor.

## **MHS 4912 Independent Research in Behavioral Health (1-4) FM FMH**

PR: 1 course in statistics; 1 course in research methods. Students will conduct an independent research project in behavioral health (mental health and/or substance abuse) under the guidance of a faculty mentor. May be repeated for maximum of 8 credits.

## **MHS 4931 Selected Topics (1-4) FM FMH**

The course content will depend on student demand and instructor's interest. The course may be repeated for different topics up to 8 hours.

## **MHS 5020 Foundations of Mental Health Counseling (3) AS REH**

PR: CC. A skill-building course on the utilization of one's self in mental health counseling relationships. Includes study of the origin, history, professional functions and current issues in the discipline of mental health counseling.

## **MHS 5480 Human Growth and Development (3) AS REH**

PR: RCS 5780, MHS 5020, Majors only. Human development theory as applied in psychotherapy and case management rehabilitation, mental health, and addiction settings.

## **MHS 5905 Directed Studies (1-4) ED EDG**

Independent studies on a selected topic.

## **MLS 4038 Introduction to Medical Technology (2) AS IAS**

PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on principles and methods of medical technology, including professional ethics, safety regulations, quality control, phlebotomy, medical terminology, laboratory math, and computer applications.

## **MLS 4860 Clinical Urinalysis and Body Fluids (2) AS IAS**

PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on laboratory methodology and diagnosis using urine and other fluids such as semen, spinal, pleural, peritoneal, and joint fluids.

## **MLS 4861 Clinical Immunology (2) AS IAS**

PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on the tissues, cells, and molecules of the human immune system, emphasizing the detection of serum antibodies and disease states.

## **MLS 4862 Clinical Hematology (6) AS IAS**

PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on cellular components of the blood as related to laboratory diagnosis and disease, including blood coagulation and morphological and biochemical aspects of blood cells.

## **MLS 4863 Clinical Microbiology (6) AS IAS**

PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course emphasizing pathogens responsible for diseases in man, including morphology, physiology, and laboratory diagnosis of bacteria, fungi, parasites, and viruses.

## **MLS 4864 Clinical Chemistry (6) AS IAS**

PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on the analysis of chemical substances found in the body as related to the diagnosis of human disease, including topics such as instrumentation, electrophoresis, therapeutic drug-monitoring assays, tumor markers, and toxicology.

## **MLS 4865 Clinical Immunohematology (6) AS IAS**

PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on blood and tissue typing, including blood group systems, transfusion associated diseases, HLA testing, and preparation of blood and blood components for transfusion therapy.

## **MLS 4866 Clinical Laboratory Management and Education (1) AS IAS**

PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on concepts of laboratory management, including personnel staffing, reimbursements, quality assurance, and regulatory issues, and clinical education techniques, including writing, lecture presentation, and evaluation.

## **MMC 2100 Writing for the Mass Media (3) AS COM**

PR: Sophomore standing; 2.75 overall grade point average; grade of "C" in ENC 1101, ENC 1102, and passing score on English Diagnostic Test. An introduction to the basic skills of writing for the mass media with practice in library research, persuasive writing, and informational writing.

## **MMC 3140 Web Publishing (3) AS COM**

PR: JOU 2100, MMC 2100, MMC 3602, VIC 3001. Course is intended for those with little previous Web design/publishing

experience. Course will introduce students to the basic topics, nomenclature, pragmatics, and mechanics involved in Web publishing. Restricted to majors; not repeatable for credit.

**MMC 3602 Mass Communications and Society SS HP (3) AS COM**

PR: Sophomore standing. A survey of the history, theory, processes, and philosophy of mass communications and the mass media in the United States, and their relationship to the other major institutions of American society.

**MMC 4106 Science Writing (3) AS COM**

PR: CI. Will focus on techniques (angles, analogies, story structures, dialogue, narrative/plot) to translate complex scientific information into simplified but accurate stories for a non-scientific audience. NOT restricted to majors; not repeatable for credit.

**MMC 4120 Media Convergence (3) AS COM**

PR: JOU 2100, MMC 2100, MMC 3602. Students will learn to write for various media and develop news judgment across platforms. A project will include writing, digital photography and capturing audio for a Web news report. Restricted to majors; not repeatable for credit.

**MMC 4123 Media Script Writing (3) AS COM**

PR: MMC 2100 and MMC 3602. An introduction to the techniques of writing scripts for electronic media. Emphasis is on documentary presentation.

**MMC 4131 Video Storytelling (3) AS COM**

PR: MMC 2100, MMC 3602, VIC 3001. Students will be introduced to concepts and technologies needed to begin working with video as a medium of communication. Basic principles of video editing are taught with short and long form projects. Restricted to majors; not repeatable for credit.

**MMC 4200 History and Principles of Communications Law (3) AS COM**

PR: MMC 2100 and MMC 3602. Historical and constitutional backgrounds of freedom and control of expression, statutory enactments, major court decisions and administrative rulings which affect print media, telecommunications, advertising, public relations, and new media.

**MMC 4203 Communication Ethics (3) AS COM**

PR: MMC 2100 and MMC 3602 or CI. A study of the fundamental principles and philosophies of ethics and their application to the decision-making process in the various professions of mass communications.

**MMC 4420 Research Methods in Mass Communications (3) AS COM**

PR: MMC 2100 and MMC 3602. An introduction to the theory and practice of quantitative and historical research methods as applicable to the study of media and mass communications. Emphasis on survey research, evaluation of data, and report writing.

**MMC 4503 Literary Journalism (3) AS COM**

PR: JOU 2100 and MMC 2100 or CI. Students will read, discuss, and analyze major works of literary journalism, demonstrating their ability to think critically about the works covered by submitting written commentaries about them.

**MMC 4900 Directed Reading in Mass Communications (1-3) AS COM**

PR: Junior standing and CI. Reading and directed study in special topics.

**MMC 4910 Individual Research in Mass Communications (1-3) AS COM**

PR: Junior standing and CI. The course provides means for a student to do independent study in an area not covered by a numbered course.

**MMC 4936 Selected Topics in Mass Communications Studies (1-3) AS COM**

PR: MMC 2100, MMC 3602 and CI. Courses designed to meet current or specific topics of interest to instructors and students.

**MMC 4945 Media Internship-Seminar (3) AS COM**

PR: CI and 15 hours in Mass Comm. courses and completion of an 8-12 week paid media internship with newspaper, broadcast station, or other media-related agency approved by the School. S/U only. Reports on experiences for discussion and evaluation.

**MSL 1001C Leadership and Personal Development (2) US MIS**

Introduces to personal challenges & competencies critical to effective leadership; teaches personal development life skills relative to leadership, officership, & Army profession; focuses on gaining understanding of ROTC Program & its purpose in Army.

**MSL 1002C Introduction to Tactical Leadership (2) US MIS**

Presents leadership basics (eg: setting direction, problem-solving, listening, briefs, giving feedback & use of effective writing skills); explores dimensions of leadership values, attributes, skills & actions in context of practical hands-on exercises.

**MSL 2101C Innovative Team Leadership (2) US MIS**

Explores creative & innovative tactical leadership strategies & styles. Develops knowledge of leadership values & attributes by understanding Army rank, structure, & duties. Broadens knowledge of land navigation & squad tactics.

**MSL 2102C Foundations of Tactical Leadership (2) US MIS**

Examines challenges of leading tactical teams in complex current operating environment; highlights dimensions of terrain analysis, patrolling & operation orders; develops greater self-awareness, communication & team building skills.

**MSL 2900 Army Physical Readiness (1) US MIS**

This course will train students in the unique role of Army physical readiness in sustaining military operations. It will also prepare students to plan, prepare, and conduct military fitness training. Repeatable for 8 semesters, but only 4 credit hours will be counted toward the program.

**MSL 2901 Basic Leader Training (4) US MIS**

PR: CI. A 35 day internship at Fort Knox, Kentucky that incorporates a wide range of military subjects designed to develop/evaluate leadership and officer potential. The course is intentionally stressful and designed to build individual confidence through the accomplishment of tough and demanding training. Students completing the course may qualify for entry into the ROTC Advanced Course.

**MSL 3201C Adaptive Team Leadership (3) US MIS**

Challenges to study, practice, & evaluate adaptive team leadership skills as demands of the ROTC LDAC are presented. Uses challenging scenarios to develop self-awareness & critical thinking skills. Provides specific feedback on leadership abilities.

**MSL 3202C Leadership in Changing Environments (3) US MIS**

Challenges to study, practice, & evaluate adaptive leadership skills as demands of ROTC Leader Development Assessment Course are presented. Develops self-awareness & critical thinking skills with challenging scenarios. Provides feedback on leader skills.

**MSL 4301C Developing Adaptive Leaders (3) US MIS**

Develops ability to plan, & assess complex operations, functioning as member of a staff; provides performance feedback to subordinates; gives opportunities to assess risk, make ethical decisions, & lead fellow cadets; prepares in becoming Army officer.

**MSL 4302C Leadership in a Complex World (3) US MIS**

Explores dynamics of leadership in complex situations of current military operations in current operating environment; examines differences in courtesies, military law, principles of war & rules of engagement in face of international terror & more.

**MSL 4930 Advanced Directed Study and Research (1-3) US MIS**

PR: CI and permission of Professor of Military Science. Intensive individual study in a particular aspect of military science that is not covered in regular course offerings. Request for enrollment must be made prior to registration in the form of a written proposal.

**MTG 3212 Geometry 6A (3) AS MTH**

PR: MAC 2311. No credit towards Mathematics major. Emphasis on axiomatics, advanced Euclidean geometry, elements of projective geometry, non-Euclidean geometry.

**MTG 4214 Modern Geometry 6A (3) AS MTH**

CP MAS 4301 or CI. Topics will be selected from modern plane geometry. Mobius geometry, elliptic and hyperbolic geometry.

**MTG 4302 Introduction to Topology 6A (3) AS MTH**

PR: MAC 2313 and MAS 3105. Metric spaces, completeness, topological spaces, subspaces, product spaces, continuity, homeomorphisms, connectedness, compactness, separation axioms, countability axioms.

**MTG 5256 Differential Geometry (3) AS MTH**

PR: MAA 4211, MAS 3105. Exterior calculus, differentiable manifolds, integration of differential forms, surfaces in 3-space, covariant derivative, curvature, matrix groups.

**MTG 5316 Topology I (3) AS MTH**

PR: MAA 4211. Topological spaces, continuity, homeomorphisms, connectedness, compact spaces, separation axioms, product spaces.

**MTG 5317 Topology II (3) AS MTH**

PR: MTG 5316. The fundamental group; elements of homotopy theory and homology theory.

**MUC 2221 Composition (3) VP MUS**

PR: MUT 1112 and DPR. Private instruction in original composition. Required of composition majors.

**MUC 2301 Introduction To Electronic Music FA (3) VP MUS**

History and repertory of electronic music; standard sound studio techniques; basic electronics as applied in electronic sound synthesis; mathematics for music, composition and electronic music.

## 312 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

### MUC 3231 Composition (3) VP MUS

PR: Necessary competency at junior level determined by faculty jury. DPR. Private instruction in original composition. Required of composition majors.

### MUC 3401 Electronic Music-Analog Synthesis I (3) VP MUS

PR: MUC 2301 and DPR. Composition for tape medium with analog synthesizers; use of sound recording studio; repertory or analog music synthesis; technical basis of analog systems design and construction.

### MUC 3402 Electronic Music-Analog Synthesis II (3) VP MUS

PR: MUC 2301 and DPR. Composition for tape medium with analog synthesizers; use of sound recording studio; repertory or analog music synthesis; technical basis of analog systems design and construction.

### MUC 3441 Electronic Music-Digital Synthesis I (3) VP MUS

PR: MUC 3401 or MUC 3402 and DPR. Computer assisted composition for conventional instruments; composition for tape medium with computer controlled analog synthesizers; direct digital synthesis; digital systems design and construction.

### MUC 3442 Electronic Music-Digital Synthesis II (3) VP MUS

PR: MUC 3401 or MUC 3402 and DPR. Computer assisted composition for conventional instruments; composition for tape medium with computer controlled analog synthesizers; direct digital synthesis; digital systems design and construction.

### MUC 4241 Composition (3) VP MUS

PR: Necessary competency at senior level determined by faculty jury. DPR. Private instruction in original composition. Required of composition majors, a minimum of six semester hours.

### MUC 4403 Electronic Music-Real-Time Performance I (3) VP MUS

PR: MUC 3402 and MUC 3442 or equivalent. DPR. Composition for analog/digital equipment, performance applications; sound synthesis, interfacing electronics with conventional instruments.

### MUC 4404 Electronic Music-Real-Time Performance II (3) VP MUS

PR: MUC 3402 and MUC 3442 or equivalent. DPR. Composition for analog/digital equipment, performance applications; sound synthesis, interfacing electronics with conventional instruments.

### MUC 4620 Jazz Composition (3) VP MUS

PR: MUC 3354 and/or DPR. Private instruction in original jazz composition. Required of All Jazz Studies Comp. majors, minimum six of hours.

### MUC 5625 Jazz Composition (2) VP MUS

PR: CI. Required of all composition majors. Private instruction in original composition.

### MUE 2090 Theoretical Bases Of Music Education (3) VP MUS

PR: DPR. The course is designed to investigate music education practices in the schools. Through the experience and information offered in this course a student will be able to determine his/her commitment to professional music education.

### MUE 3421 Choral Techniques and Pedagogy (1) VP MUS

A study of choral materials in a laboratory setting appropriate to elementary and secondary school music programs. Course content will change each semester.

### MUE 3422 Wind Techniques and Pedagogy (2) VP MUS

PR: MUC 3104 A two-semester sequence intended to equip music education students with basic performance, pedagogical, and rehearsal techniques, applicable to brass and woodwind instruments and ensembles.

### MUE 3423 String Techniques and Pedagogy (1) VP MUS

PR: DPR. A study of orchestra materials, in a laboratory setting, appropriate to elementary and secondary school music programs. Course content will change each semester.

### MUE 3930 Music Education Forum (1) VP MUS

PR: Status as a music education major; permission of the Music Advisor. Discuss MusEd professional organizations (MENC, CMENC, ISME, etc.). Students join CMENC and attend the FMEA conference. Add'l topics: classroom management, school safety, professional ethics, education law, and MusEd for special students. Required for MusEd majors 4 semesters @ 1 credit hour per term.

### MUE 4210 Music For The Child (3) VP MUS

PR: Admission to the College of Education. DPR. Music fundamentals, the development of music skills and knowledge of music materials and teaching strategies for presenting music to children in the elementary school.

### MUE 4311 K-12 General Music Methods and Practicum (4) VP MUS

PR: MUE 2090 This course will consist of theoretical and practical training in teaching General Music Education K-12. It will include the study of philosophies, strategies and methodologies in contemporary General Music Education used in the USA and internationally.

### MUE 4331 Choral Methods In The Secondary School (3) VP MUS

PR: DPR. Junior standing. Development and implementation of methods techniques for teaching secondary school choral music.

### MUE 4332 Instrumental Music In The Secondary School (3) VP MUS

PR: DPR. MUE 2450, MUE 2460, MVP 1211. Junior standing. Development and implementation of methods techniques for teaching secondary school instrumental music.

### MUE 4480 Special Ensemble Methods (2) VP MUS

This course is restricted to majors and is repeatable for up to 6 credits.

### MUE 4936 Senior Seminar In Music (2) VP MUS

CR: MUE 4940. DPR. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

### MUE 4940 Internship: Music Education (6-10) VP MUS

CR: MUE 4936. S/U only. DPR. One full semester of internship in public or private elementary and secondary schools. Restricted to majors.

May not be repeated for credit.

### MUG 3104 Basic Conducting (2) VP MUS

PR: DPR. The study and practical application of basic conducting techniques. Development of skills related to the conducting of musical scores.

### MUG 4302 Instrumental Conducting (2) VP MUS

PR: MUG 3404 and DPR. A study of those techniques of conducting unique to instrumental music ensembles: baton technique, score reading, terminology, rehearsal management.

### MUH 2020 The History of Blues and Rock FA (3) VP MUS

A study of the history of rock music: its roots, regions and countries of origin, evolution, styles, influences, social/cultural context, etc. Blues and rock are particularly American forms of music, but they reflect ancient practice as well.

### MUH 2051 Folk And Traditional Music Of World Cultures FA AF (3) VP MUS

A comparative survey of the stylistic traits and functions of the folk and traditional music, both sacred and secular, of diverse Western and non-Western cultures. For non-majors; may be taken by majors as an elective with departmental approval.

### MUH 2632 Music In The United States FA (3) VP MUS

Designed for majors and non-majors, this course will use live performances, videotapes, and recordings to illustrate music as practiced in America from Colonial to present times. Included in the course will be study of the contributions of various ethnic/minority groups, and discussions of the relevant social issues connected with these contributions.

### MUH 3016 Survey Of Jazz FA (3) VP MUS

For non-music majors. Not repeatable. A study of the evolution of America's "classical" music: Jazz. In addition to presenting an overview of the most prominent artists and literature, the course will focus on the cultural dynamics involved in the development of jazz from 1890 to the present.

### MUH 3300 Music History/Medieval And Renaissance (2) VP MUS

PR: DPR. Required of music majors; a study of the historical development of musical styles of the Medieval and Renaissance periods and of the music of those periods.

### MUH 3301 Music History/Baroque And Classic MW (3) VP MUS

PR: MUL 2111, DPR. Required of music majors; open to non-majors with DPR. A study of the historical development of musical styles of the Baroque and Classic periods and of the music of those periods.

### MUH 3302 Music History/Romantic And 20th Century MW (3) VP MUS

PR: MUL 2111, DPR. Required of music majors; open to non-majors with DPR. A study of the historical development of musical styles of the Romantic and Twentieth Century eras and of the music of those periods.

### MUH 4058 Intercultural Music In The Twentieth Century MW (3) VP MUS

PR: MUH 2051 or MUL 2111, DPR. An in-depth investigation of composers born after c. 1880, from all parts of the world, who have attempted to integrate elements from two or more cultures into their compositions.

### MUH 4801 History Of Jazz (3) VP MUS

PR: MUT 1112, DPR. An in-depth study of the historical development of Jazz, including the representative musical literature and sociological implications.

### MUL 2111 Introduction To Music Literature 6A HP FA (3) VP MUS

PR: MUT 1112, DPR. A survey of representative music exemplars of the past and present with emphasis on the study of styles and form. Required for music majors.

## MUL 3001 Issues In Music FA AF (2-3) VP MUS

Open only to non-music majors. Lectures and live performances by artist faculty of significant works from the literature for the piano; analysis and illustration in performance of the abstract and aesthetic elements in music which vitally concern the artist-performer.

## MUL 3012 Music in Your Life FA (3) VP MUS

Open only to non-music majors. A study in the art of music and its materials, designed to develop an understanding of basic principles of music and a technique for listening to music.

## MUN 1100 University Pep Band (1-3) VP MUS

This course provides performance experiences with the Pep Band. The course is open to any major area. Fall Term participation in Maching Band is required prior to enrollment.

## MUN 1110 University Marching Band (1-3) VP MUS

This course provides performance experiences with the Marching Band. The course is open to any major area.

## MUN 3143 Wind Ensemble (1) VP MUS

PR: DPR. Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments.

## MUN 3213 University Orchestra (1) VP MUS

PR: DPR. Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments.

## MUN 3313 University Singers (1) VP MUS

PR: DPR. Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments.

## MUN 3343 Chamber Singers (1) VP MUS

PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

## MUN 3383 University-Community Chorus (1) VP MUS

PR: DPR. Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments.

## MUN 3411 String Quartet (1) VP MUS

PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

## MUN 3420 Saxophone Ensemble (1) VP MUS

PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

## MUN 3421 Flute Choir (1) VP MUS

PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

## MUN 3424 Woodwind Quintet (1) VP MUS

PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

## MUN 3431 Brass Quintet (1) VP MUS

PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

## MUN 3432 Horn Quartet (1) VP MUS

PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

## MUN 3433 Brass Choir (1) VP MUS

PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

## MUN 3443 Percussion Ensemble (1) VP MUS

PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

## MUN 3444 Marimba Ensemble (1) VP MUS

PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

## MUN 3453 Piano Ensemble (1) VP MUS

PR: DPR. Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments.

## MUN 3474 Collegium Musicum (1) VP MUS

PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

## MUN 3713 Jazz Ensemble (1) VP MUS

PR: DPR. Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments.

## MUN 3714 Jazz Chamber Ensemble (1) VP MUS

PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

## MUN 3503 Opera Workshop (1) VP MUS

PR: DPR. Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments.

## MUS 2010 Recital Attendance (0) VP MUS

S/U only. This course is required whenever a student registers for applied music. The requirement for the successful completion of the course is attendance at ten (10) department-approved recitals/concerts throughout the semester.

## MUS 2201 Language Diction For Singers (1) VP MUS

PR: DPR. Required of voice performance majors. Specialized study in Language Diction for Singers. Specific language varies, to be arranged at each course offering.

## MUS 4900 Directed Reading (1-3) VP MUS

PR: DPR. Selection of topic and materials must be agreed upon and appropriate credit must be assigned prior to registration. A contract with all necessary signatures is required for registration.

## MUS 4905 Directed Study (1-4) VP MUS

PR: DPR. Independent studies in the various areas of music; course of study and credits must be assigned prior to registration.

## MUS 4930 Selected Topics In Music (1-4) VP MUS

PR: DPR. The content of the course will be governed by student demand and instructor interest.

## MUS 4931 Selected Studio Topics In Music (1-4) VP MUS

PR: DPR. The content of the course will be governed by student demand and instructor interest.

## MUS 4935 Music Senior Seminar (1) VP MUS

PR: DPR. S/U only. To aid majors to understand, appraise and perfect their own art through critical and aesthetic judgments of their colleagues.

## MUS 5905 Directed Study (1-4) VP MUS

PR: DPR. Independent studies in the various areas of music; course of study and credits must be assigned prior to registration.

## MUT 1001 Rudiments Of Music (2) VP MUS

Open to non-music majors; development of skills in hearing and performing music and in basic notation. Will not count as degree credit for music majors.

## MUT 1111 Music Theory I (3) VP MUS

PR: DPR. Required of music majors; development of skills in perceiving and writing music through the use of aural and visual analysis and examples from all historical periods of music literature.

## MUT 1112 Music Theory II (3) VP MUS

PR: MUT 1111, DPR. Required of music majors; development of skills in perceiving and writing music through the use of aural and visual analysis and examples from all historical periods of music literature.

## MUT 1241 Aural Theory I (1) VP MUS

PR: DPR. To be taken concurrently with MUT 1111, MUT 1112. Course designed to begin training in aural recognition and vocal realization of materials used in music composition. Includes rhythmic, melodic and harmonic dictation, and sight singing.

## MUT 1242 Aural Theory II (1) VP MUS

PR: MUT 1241, DPR. Course designed to begin training in aural recognition and vocal realization of materials used in music composition. Includes rhythmic, melodic and harmonic dictation, and sight singing.

**MUT 2116 Music Theory III (3) VP MUS**

PR: MUT 1112, DPR. Required of music majors, continuation of MUT 1111 and 1112.

**MUT 2117 Music Theory IV (3) VP MUS**

PR: MUT 2116, DPR. Required of music majors, continuation of MUT 1111, 1112, and 2116.

**MUT 2246 Aural Theory III (1) VP MUS**

PR: MUT 1242. To be taken concurrently with MUT 2116, MUT 2117, DPR. Course designed to continue training in aural recognition and vocal realization of materials used in music composition. Includes rhythmic, melodic and harmonic dictation, and sight singing.

**MUT 2247 Aural Theory IV (1) VP MUS**

PR: MUT 2246. To be taken concurrently with MUT 2116, MUT 2117, DPR. Course designed to continue training in aural recognition and vocal realization of materials used in music composition. Includes rhythmic, melodic and harmonic dictation, and sight singing.

**MUT 2641 Jazz Theory And Improvisation I (2) VP MUS**

PR: MUT 1112 and/or DPR. A study of jazz improvisational techniques and related jazz theory.

**MUT 2642 Jazz Theory And Improvisation II (2) VP MUS**

PR: MUT 2641 or DPR. A study of jazz improvisational techniques and related jazz theory.

**MUT 3353 Jazz Composition and Arranging I (3) VP MUS**

PR: MUT 1112 and DPR. Course designed to develop arranging and/or compositional skills in the jazz idiom through the study of jazz orchestration, harmonic, and melodic practices.

**MUT 3354 Jazz Composition And Arranging II (3) VP MUS**

PR: MUT 3353 and DPR. Course designed to develop arranging and/or compositional skills in the jazz idiom through the study of jazz orchestration, harmonic and melodic practices.

**MUT 3663 Advanced Jazz Improvisation I (2) VP MUS**

PR: MUT 2642 or DPR. A studio course study of the improvised solos of the major innovators in jazz. Oriented toward the continuing development of students' soloing ability. Students are required to enroll in Jazz Chamber Ensemble as a lab. Open to majors and non-majors.

**MUT 3664 Advanced Jazz Improvisation II (2) VP MUS**

PR: MUT 3663, DPR. A continuation of Jazz Styles and Analysis I with the emphasis on contemporary jazz artists. Students are required to enroll in Jazz Chamber Ensemble as a lab. Open to majors and non-majors.

**MUT 4310 Orchestration I (2) VP MUS**

PR: DPR. Intensive study and practice in scoring music for various combinations of instruments, including symphony orchestra, band, and smaller ensembles of string, woodwind, brass, and percussion instruments.

**MUT 4311 Orchestration II (2) VP MUS**

PR: MUT 4310, DPR. Intensive study and practice in scoring music for various combinations of instruments, including symphony orchestra, band, and smaller ensembles of string, woodwind, brass, and percussion instruments.

**MUT 4421 Eighteenth Century Practice (3) VP MUS**

PR: MUT 2117, DPR. An intensive study of the contrapuntal practice of the 18th century; development of skills in perceiving and writing music in the style of the period through the use of aural and visual analysis.

**MUT 4571 Twentieth Century Practice (3) VP MUS**

PR: MUT 2117, DPR. A study of 20th century theoretical concepts; development of skills in perceiving and writing music in contemporary styles through the use of aural and visual analysis.

**MUT 5051 Graduate Review Of Music Theory (2) VP MUS**

PR: DPR. A graduate level review of basic theoretical concepts with emphasis on the common practice period. The course serves to satisfy deficiencies in music theory and does not count toward the graduate degree requirements.

**MVB 1211 Applied Trumpet (1) VP MUS**

PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

**MVB 1212 Applied French Horn (1) VP MUS**

PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

**MVB 1213 Applied Trombone (1) VP MUS**

PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance

major and for a limited number of nonmusic majors who have had prior musical training.

**MVB 1214 Applied Euphonium (1) VP MUS**

PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

**MVB 1215 Applied Tuba (1) VP MUS**

PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

**MVB 1311 Trumpet Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVB 1312 French Horn Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVB 1313 Trombone Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVB 1314 Euphonium Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVB 1315 Tuba Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVB 1411 Trumpet Major (3) VP MUS**

PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVB 1412 French Horn Major (3) VP MUS**

PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVB 1413 Trombone Major (3) VP MUS**

PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVB 1414 Euphonium Major (3) VP MUS**

PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVB 1415 Tuba Major (3) VP MUS**

PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVB 2321 Trumpet Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVB 2322 French Horn Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVB 2323 Trombone Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVB 2324 Euphonium Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only.

Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVB 2325 Tuba Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVB 2421 Trumpet Major (3) VP MUS**

PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVB 2422 French Horn Major (3) VP MUS**

PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVB 2423 Trombone Major (3) VP MUS**

PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVB 2424 Euphonium Major (3) VP MUS**

PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVB 2425 Tuba Major (3) VP MUS**

PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVB 3331 Trumpet Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVB 3332 French Horn Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVB 3333 Trombone Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVB 3334 Euphonium Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVB 3335 Tuba Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVB 3431 Trumpet Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVB 3432 French Horn Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVB 3433 Trombone Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVB 3434 Euphonium Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVB 3435 Tuba Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVB 4341 Trumpet Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVB 4342 French Horn Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVB 4343 Trombone Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVB 4344 Euphonium Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVB 4345 Tuba Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVB 4441 Trumpet Major (3) VP MUS**

PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVB 4442 French Horn Major (3) VP MUS**

PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVB 4443 Trombone Major (3) VP MUS**

PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVB 4444 Euphonium Major (3) VP MUS**

PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVB 4445 Tuba Major (3) VP MUS**

PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVB 5251 Applied Trumpet (2-4) VP MUS**

PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

## **MVB 5252 Applied French Horn (2-4) VP MUS**

PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

## **MVB 5253 Applied Trombone (2-4) VP MUS**

PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

## **MVB 5254 Applied Euphonium (2-4) VP MUS**

PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

## **MVB 5255 Applied Tuba (2-4) VP MUS**

PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

## **MVJ 1210 Applied Jazz Piano (1) VP MUS**

PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

## **MVJ 1213 Applied Jazz Guitar (1) VP MUS**

PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

## **MVJ 1214 Applied Jazz Bass (1) VP MUS**

PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

## **MVJ 1219 Jazz Percussion (1) VP MUS**

PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance



## **MVJ 5951 Applied Jazz Performance (2) VP MUS**

PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble. Private and class instruction.

## **MVK 1111 Keyboard Skills I (2) VP MUS**

PR: DPR. Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.

## **MVK 1121 Keyboard Skills II (2) VP MUS**

PR: MVK 1111 or DPR. Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.

## **MVK 1211 Applied Piano (1) VP MUS**

PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

## **MVK 1311 Piano Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVK 1411 Piano Major (3) VP MUS**

PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVK 1811 Beginning Piano I (2) VP MUS**

Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.

## **MVK 1821 Beginning Piano II (2) VP MUS**

PR: DPR. Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.

## **MVK 2111 Keyboard Skills III (2) VP MUS**

PR: MVK 1121 or DPR. Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.

## **MVK 2121 Keyboard Skills IV (2) VP MUS**

PR: MVK 2111 or DPR. Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.

## **MVK 2321 Piano Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVK 2421 Piano Major (3) VP MUS**

PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVK 3111 Music Majors, Level V (2) VP MUS**

PR: DPR. Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.

## **MVK 3331 Piano Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVK 3431 Piano Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVK 4341 Piano Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVK 4441 Piano Major (3) VP MUS**

PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVK 4640 Piano Pedagogy I (4) VP MUS**

PR: DPR. May be elected by undergraduate music majors; emphasis on the business management of the music studio, and the musical responsibilities of the studio teacher, the techniques of private instruction.

## **MVK 4641 Piano Pedagogy II (4) VP MUS**

PR: MVK 4640, DPR. May be elected by undergraduate music majors; emphasis on the business management of the music studio, and the musical responsibilities of the studio teacher, the techniques of private instruction.

## **MVK 5251 Applied Piano (2-4) VP MUS**

PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

## **MVP 1211 Applied Percussion (1) VP MUS**

PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

## **MVP 1311 Percussion Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVP 1411 Percussion Major (3) VP MUS**

PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVP 2321 Percussion Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVP 2421 Percussion Major (3) VP MUS**

PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVP 3331 Percussion Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVP 3431 Percussion Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVP 4341 Percussion Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVP 4441 Percussion Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVP 5251 Applied Percussion, Secondary (2-4) VP MUS**

PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble. Required of all applied music majors. Private and class instruction.

## **MVS 1211 Applied Violin (1) VP MUS**

PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

## **MVS 1212 Applied Viola (1) VP MUS**

PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

## **MVS 1213 Applied Violoncello (1) VP MUS**

PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance

# 318 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

major and for a limited number of nonmusic majors who have had prior musical training.

## **MVS 1214 Applied Double Bass (1) VP MUS**

PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

## **MVS 1311 Violin Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVS 1312 Viola Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVS 1313 Violoncello Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVS 1314 Double Bass Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVS 1411 Violin Major (3) VP MUS**

PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVS 1412 Viola Major (3) VP MUS**

PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVS 1413 Cello Major (3) VP MUS**

PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVS 1414 Double Bass Major (3) VP MUS**

PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVS 2321 Violin Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVS 2322 Viola Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVS 2323 Violoncello Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVS 2324 Double Bass Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVS 2421 Violin Major (3) VP MUS**

PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVS 2422 Viola Major (3) VP MUS**

PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVS 2423 Cello Major (3) VP MUS**

PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVS 2424 Double Bass Major (3) VP MUS**

PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVS 3331 Violin Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVS 3332 Viola Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVS 3333 Violoncello Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVS 3334 Double Bass Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVS 3431 Violin Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVS 3432 Viola Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVS 3433 Cello Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVS 3434 Double Bass Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVS 4341 Violin Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVS 4342 Viola Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVS 4343 Violoncello Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVS 4344 Double Bass Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## **MVS 4441 Violin Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVS 4442 Viola Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVS 4443 Cello Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVS 4444 Double Bass Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## **MVS 5251 Applied Violin (2-4) VP MUS**

PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

## MVS 5252 Applied Viola (2-4) VP MUS

PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

## MVS 5253 Applied Cello (2-4) VP MUS

PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

## MVS 5254 Applied Double Bass (2-4) VP MUS

PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

## MVV 1211 Applied Voice (1) VP MUS

One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

## MVV 1311 Voice Principal (2) VP MUS

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## MVV 1411 Voice Major (3) VP MUS

PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## MVV 2321 Voice Principal (2) VP MUS

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## MVV 2421 Voice Major (3) VP MUS

PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## MVV 3331 Voice Principal (2) VP MUS

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## MVV 3431 Voice Major (3) VP MUS

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## MVV 4341 Voice Principal (2) VP MUS

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## MVV 4441 Voice Major (3) VP MUS

PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

## MVV 5251 Applied Voice (2-4) VP MUS

PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

## MVW 1211 Applied Flute (1) VP MUS

PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

## MVW 1212 Applied Oboe (1) VP MUS

PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

## MVW 1213 Applied Clarinet (1) VP MUS

PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

## MVW 1214 Applied Bassoon (1) VP MUS

PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

## MVW 1215 Applied Saxophone (1) VP MUS

PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

## MVW 1311 Flute Principal (2) VP MUS

PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## MVW 1312 Oboe Principal (2) VP MUS

PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## MVW 1313 Clarinet Principal (2) VP MUS

PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## MVW 1314 Bassoon Principal (2) VP MUS

PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## MVW 1315 Saxophone Principal (2) VP MUS

PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## MVW 1411 Flute Major (3) VP MUS

PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## MVW 1412 Oboe Major (3) VP MUS

PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## MVW 1413 Clarinet Major (3) VP MUS

PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## MVW 1414 Bassoon Major (3) VP MUS

PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## MVW 1415 Saxophone Major (3) VP MUS

PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## MVW 2321 Flute Principal (2) VP MUS

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## MVW 2322 Oboe Principal (2) VP MUS

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## MVW 2323 Clarinet Principal (2) VP MUS

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## MVW 2324 Bassoon Principal (2) VP MUS

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

## 320 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

### **MVW 2325 Saxophone Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

### **MVW 2421 Flute Major (3) VP MUS**

PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

### **MVW 2422 Oboe Major (3) VP MUS**

PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

### **MVW 2423 Clarinet Major (3) VP MUS**

PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

### **MVW 2424 Bassoon Major (3) VP MUS**

PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

### **MVW 2425 Saxophone Major (3) VP MUS**

PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

### **MVW 3331 Flute Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

### **MVW 3332 Oboe Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

### **MVW 3333 Clarinet Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

### **MVW 3334 Bassoon Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

### **MVW 3335 Saxophone Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

### **MVW 3431 Flute Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

### **MVW 3432 Oboe Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

### **MVW 3433 Clarinet Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

### **MVW 3434 Bassoon Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

### **MVW 3435 Saxophone Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

### **MVW 4341 Flute Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

### **MVW 4342 Oboe Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

### **MVW 4343 Clarinet Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

### **MVW 4344 Bassoon Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

### **MVW 4345 Saxophone Principal (2) VP MUS**

PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

### **MVW 4441 Flute Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

### **MVW 4442 Oboe Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

### **MVW 4443 Clarinet Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

### **MVW 4444 Bassoon Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

### **MVW 4445 Saxophone Major (3) VP MUS**

PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

### **MVW 5251 Applied Flute (2-4) VP MUS**

PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

### **MVW 5252 Applied Oboe (2-4) VP MUS**

PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

### **MVW 5253 Applied Clarinet (2-4) VP MUS**

PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

### **MVW 5254 Applied Bassoon (2-4) VP MUS**

PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

### **MVW 5255 Applied Saxophone (2-4) VP MUS**

PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

### **NGR 5151L Accelerated Fundamentals Clinical (2) NU NUR**

Clinical experience in fundamentals of clinical nursing practice. Focuses on developing effective communication skills, critical thinking physical assessment, and concepts of health and illness to meet basic needs of the individual across the life span.

### **NGR 5580L Accelerated Fundamentals Clinical I (4) NU NUR**

Clinical intervention for patients with selected physical and mental health problems. Emphasis is on advancing communication and clinical judgment skills in therapeutic nursing interventions for patients across the life span.

### **NGR 5680L Accelerated Fundamentals Clinical II (4) NU NUR**

Clinical experiences with people across the life-span in hospital and community sites, focus on critical thinking, effective communication, therapeutic interventions, disease prevention, health promotion and synthesis of nursing theory with practice.

### **NGR 5871 Informatics in Nursing and Healthcare (3) NU NUR**

PR: CI. Foundations course with emphasis on essential content and applications in healthcare informatics and clinical systems. Provides understanding of the interdisciplinary issues in medical and nursing informatics and a foundation for those seeking expertise in healthcare informatics. Focus on technologies in healthcare, nomenclatures and classification systems, health

care documentation, electronic medical records, and web-based technologies for healthcare.

**NSC 1101L Naval Science Laboratory (0) US NAVY**

A weekly two-hour laboratory covering professional and military subject matter. Attendance is mandatory for all midshipmen.

**NSC 1110 Introduction to Naval Science (3) US NAVY**

Emphasis on the mission, organization, regulations and components of the U.S. Navy and Marine Corps.

**NSC 1140 Sea Power and Maritime Affairs (3) US NAVY**

This course deals with the importance of seapower in historical events, including emphasis on worldwide political-military confrontations following the cold war.

**NSC 2121 Naval Ships Systems I (3) US NAVY**

Types, structures & purpose of naval ships. Hydrodynamic forces, stability, compartmentalization, electrical, & auxiliary systems. Theory of design & operation of steam turbine, gas turbine, & nuclear propulsion plants. Shipboard safety & firefighting.

**NSC 2212C Navigation/Naval Operations I: Navigation (3) US NAVY**

Piloting and celestial navigation theory, principles, and procedures. Tides, currents, weather, use of navigation instruments and equipment, and practicum. Laboratory required.

**NSC 2221 Evolution of Warfare (3) US NAVY**

A survey of military history emphasizing principles of warfare, strategy and tactics, and significant military leaders and organizations.

**NSC 2231 Principles of Naval Management I (3) US NAVY**

Theory and principles of management, focusing on the officer-manager as an organizational decision maker. Includes interpersonal skills, behavior factors, and group dynamics.

**NSC 2931 Directed Study in Naval ROTC (1-3) US NAVY**

PR: Permission of Professor of Naval Science. Intensive individualized study in particular aspects of Naval Science that are not covered in regular course offerings. Enrollment is recommended for NROTC students who are anticipating attending the Naval Science Institute in Newport, RI, during sophomore/junior summer. Course content and title may vary from term to term.

**NSC 3123 Naval Ships Systems II (3) US NAVY**

PR: NSC 2121. Capabilities and limitations of fire control systems and weapons, radar and underwater sound for target acquisition, threat analysis, tracking, weapons selection, delivery, and guidance. Various aspects of explosives, fusing and Naval ordnance.

**NSC 3214C Navigation/Naval Operations II: Seamanship and Ship Operations (3) US NAVY**

PR: NSC 2212C. International and inland rules of the road; relative motion-vector analysis; ship handling, employment, and tactics, afloat communications; and operations analysis. Laboratory required.

**NSC 4224 Amphibious Warfare (3) US NAVY**

History of amphibious warfare emphasizing doctrine and techniques as well as an understanding of the interrelations of political, strategic, operational, tactical, and technical levels of war from the past.

**NSC 4232 Principles of Naval Management II (Leadership and Ethics) (3) US NAVY**

PR: NSC 2231. Integration of professional competencies and qualities of effective leadership with emphasis on moral and ethical responsibilities, accountability, communications and military law for the junior officer.

**NUR 3026 Fundamentals of Nursing Practice and Foundations for Clinical Judgment (4) NU NUR**

PR: Admission to the nursing major or CI; CR: NUR 3026L Fundamentals and foundations of nursing practice. Focus is on developing critical thinking and communication skills when applying concepts of health to meet the basic needs of the individual across the life span from within the context of the family.

**NUR 3026L Nursing Fundamentals Clinical (4) NU NUR**

PR: Admission to the nursing major or CI; CR: NUR 3026. Fundamentals of clinical nursing practice. Focus on developing effective communication & critical thinking in applying nursing process to meet the basic needs of the individual across the life span.

**NUR 3066 Physical Examination and Assessment (2) NU NUR**

PR: Admission to nursing major or CI. Focuses on the techniques of physical assessment and examination of infants, children and adults. Emphasizes assessment phase of nursing process using critical thinking to enable the student to perform evaluations of health status throughout the lifespan.

**NUR 3066L Clinical Experience in Health Assessment - RN (1) NUNUR**

PR: Admission to nursing major or CI. CR: NUR 3066. Clinical experience on history taking, physical assessment skills basic to biopsychosocial assessment and physical examination of adults and children. Emphasizes diagnostic reasoning and identification of alteration in functional health patterns.

**NUR 3125 Pathophysiology for Nursing Practice (4) NU NUR**

PR: Admission to the nursing major or CI. Central concepts of pathophysiology: cells, tissues, organs and systems. Provides essential knowledge base in pathophysiology across the lifespan for professional nursing practice.

**NUR 3145 Pharmacology in Nursing Practice (3) NU NUR**

PR: Admission to the nursing major or CI. Focus on the basic and clinical concepts of pharmacology in nursing practice. Examines pharmacotherapeutics; pharmacodynamics; pharmacokinetics; adverse reactions and contraindications; therapeutic indications and nursing implications.

**NUR 3215 Medical Surgical Nursing I (3) NU NUR**

PR: NUR 3026, NUR 3026L, NUR 3066, NUR 3076, NUR 3125, NUR 3215L Focuses on the nursing assessment, prevention, and management of selected health care problems in adults of all ages. Critical thinking is used to analyze the effects of changes in health status and impact of nursing intervention for: patients with alteration in Fluid and Electrolyte Balance, Hematologic System, Cardiovascular System, Pulmonary System, Renal System, Endocrine, Cancer, Multisystem Dysfunction.

**NUR 3215L Medical Surgical Nursing Clinical I (4) NU NUR**

PR: NUR 3026, NUR 3026L, NUR 3066, NUR 3076, NUR 3125, NUR 3215 Clinical intervention for patients with selected health problems. Emphasize clinical judgment in implementing therapeutic nursing interventions for patients with selected health problems related to specific abnormalities in functional patterns.

**NUR 3525 Psychiatric/Mental Health Nursing (3) NU NUR**

PR: NUR 3076, NUR 3066, NUR 3125, NUR 3026 and NUR 3026L. CR: NUR 3525L. Explores mind, body, and spirit alterations in functional health patterns experienced by patients with acute and chronic mental illness. Examines psychopathology, psychopharmacologic therapies and community resources and the role of the nurse in psychiatry.

**NUR 3525L Psychiatric/Mental Health Nursing Clinical (3) NU NUR**

PR: NUR 3076, NUR 3066, NUR 3125, NUR 3026 and NUR 3026L. CR: NUR 3525. Focus on clinical intervention using critical thinking and communication skills with patients who require complex psychiatric rehabilitative care. Opportunities are offered to apply knowledge of psychopathology and psychopharmacologic therapies across the lifespan.

**NUR 3805 Education Transitions for Registered Nurses (3) NU NUR**

PR: Admission to the nursing major. Transition to professional nursing for the registered nurse, its theoretical perspective and empirical bases and essential skills for success in nursing education. Focus on developing a variety of learning strategies and approaches to academic achievement.

**NUR 3826 Ethical Legal Aspects in Nursing and Health Care MW (3) NU NUR**

PR: CI. Nursing Majors. Introduction to contemporary bioethical and legal issues confronting health care providers in a variety of settings. Focuses on identification of legal and ethical principles underlying the decision-making process in nursing and health care.

**NUR 4028L Accelerated Fundamentals Laboratory (1) NU NUR**

Experiences in the fundamental skills of clinical nursing practice. The focus is on applying the nursing process and developing nursing psychomotor skills.

**NUR 4097 Introduction to Nursing Humanities MW (3) NU NUR**

Overview of the humanities in nursing including an exploration of fictional and biographical literature, visual art, film, and multidisciplinary professional literature focusing on human experience of and response to health, illness, death, and dying.

**NUR 4098 Perioperative Nursing (3) NU NUR**

PR: Admission to the nursing major or Registered Nurse. Provide nursing students or Registered Nurses with basic knowledge and clinical skills to function in an entry level. Extensive classroom and clinical experience in aseptic technique and considerations for various types of surgical procedures are included.

**NUR 4165 Nursing Inquiry (3) NU NUR**

PR: Admission to the nursing major or CI. An introductory course in statistics is recommended. An analysis of the research process. Emphasis on identification of researchable nursing problems and

## 322 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

- evaluations of research that is applicable to nursing practice. Focus on evidence-based practice for nursing.
- NUR 4178 Complimentary and Alternative Therapies MW (3) NU NUR**  
Explore and analyze Complementary and Alternative Therapies and their effectiveness and appropriateness. Discuss Alternative Medical Systems, Mind-Body Interventions, Biologically Based Therapies, Manipulative and Body-Based Methods, and Energy Therapies.
- NUR 4194 An Interdisciplinary Perspective in HIV Disease 6A MW LW (3) NU NUR**  
Provides an interdisciplinary perspective on HIV disease. Topics include the etiology, spectrum, and treatment of HIV disease; international perspectives; issues of race, gender, and ethnicity; values, ethics, and their influences on responses to HIV; and how the media has shaped the epidemic.
- NUR 4216 Medical Surgical Nursing II (4) NU NUR**  
PR: NUR 3215, NUR 3215L, NUR 3145. CR: NUR 4216L. Focus on the nursing assessment, prevention, and management of multiple health care problems. Critical thinking is used to analyze the effects of changes in health status and the impact of nursing intervention for patients with alterations in Visual and Auditory systems, Neurological systems, Musculoskeletal systems, Gastrointestinal systems, and Reproductive systems.
- NUR 4216L Medical Surgical Nursing Clinical II (5) NU NUR**  
PR: NUR 3215, NUR 3215L, NUR 3145. CR: NUR 4216. Clinical intervention for patients with selected health problems. Emphasizes clinical judgment in implementing therapeutic nursing interventions for patients with complex health problems related to alterations in multiple functional health patterns.
- NUR 4235L Accelerated Integrated Clinical I (5) NU NUR**  
Focus on critical thinking, effective communication and nursing interventions for individuals of all ages in the in-patient and community settings.
- NUR 4257 Critical Care (2) NU NUR**  
PR: Nursing Majors or CI. Basic concepts of critical care nursing, focusing on selected health problems to analyze the affects of changes in health status.
- NUR 4286 Geriatric Nursing: Population-based Perspectives on Nursing Care of Older Adults 6A LW (3) NU NUR**  
PR: NUR 3026, NUR 3066, NUR 3145. CR: NUR 4636L. CP: NUR 4636. This course is focused on the development of core competencies necessary to provide holistic, evidence-based and culturally sensitive nursing care to older adults.
- NUR 4355 Child and Adolescent Health Nursing (3) NU NUR**  
PR: NUR 4216, NUR 4216L. CR: NUR 4635L, NUR 4636, NUR 4455. This course will explore the nursing care of children and adolescents within the context of the family. Focus on health promotion, risk factor identification, disease prevention, and health restoration in children and adolescents.
- NUR 4455 Women's Health Nursing (2) NU NUR**  
PR: NUR 4216, NUR 4216L. CR: NUR 4635L, NUR 4636, NUR 4355. Focus on health promotion, identification of risk factors, illness care, and health restoration related to the physiological and psychological changes occurring during a woman's life cycle including pregnancy.
- NUR 4635L Integrated Nursing Clinical: Community/Public Health, Children and Adolescent Health, and Women's Health (3-7) NU NUR**  
PR: NUR 4216, NUR 4216L. CR: NUR 4455, NUR 4636, NUR 4355. Provides clinical learning experiences in diverse community and hospital settings. Focuses on nursing care designed to prevent and/or reduce risk of disease and injury, promote health and wellness, and treat illness and injury in children, adolescents, adults and families, and diverse community populations across the age spectrum.
- NUR 4636 Community/Public Health: Population-Focused Nursing MW (3) NU NUR**  
PR: NUR 4216, NUR 4216L or CI. In-depth examination of community health nursing, public health, epidemiology, culture, and environment essential to preventing illness and injury and promoting and preserving health among diverse populations at risk.
- NUR 4636L Community/Public Health Nursing Clinical (3) NU NUR**  
CR: NUR 4636 (can be taken prior to or with NUR 4636L). Provides clinical experiences in community-based sites in both urban and rural settings, focused on nursing care designed to prevent and/or reduce risk of disease and injury and to promote health and wellness among diverse populations across the lifespan.
- NUR 4645 Substance Abuse Across the Lifespan (3) NU NUR**  
Introduction to concepts of substance abuse and theories of addiction. The applicability of theories and concepts of substance use/abuse to clinical assessment, diagnosis and intervention with client populations across the lifespan is explored.
- NUR 4655 Cultural Diversity in Health and Issues MW (3) NU NUR**  
Explore the impact of culture on health, illness and the meanings these terms carry for members of differing sociocultural populations. Health-related practices, values, strategies for health care and beliefs among cultural groups will be analyzed.
- NUR 4677L Accelerated Integrated Clinical II (5) NU NUR**  
Focus on nursing interventions for the patient with physical and mental health problems. Therapeutic communication and clinical judgment to implement nursing interventions with the patient and family.
- NUR 4838 Leadership and Management in Professional Nursing Practice (3) NU NUR**  
PR: NUR 4455, NUR 4355, NUR 4636, NUR 4636L or CI. Principles of nursing leadership and management with an emphasis on decision-making, priority setting, delegating, and managing nursing care. Focus on preparation of the professional nurse to work collaboratively in the interdisciplinary health care environment. Clinical experience for registered nurse students will be designed to build upon a practice background.
- NUR 4905C Independent Study (1-5) NU NUR**  
PR: Permission of faculty. Open to majors and non-majors. Individual or group investigation of problems relevant to the health of individuals or groups. Project requirements individually planned with faculty preceptor.
- NUR 4930 Registered Nurse First Assistant Course (3) NU NUR**  
PR: CI. This course will provide a foundation of knowledge and technical skills necessary for the experienced perioperative registered nurse to function in the role of registered nurse first assistant (RNFA).
- NUR 4935 Selected Topics In Nursing (1-8) NU NUR**  
PR: Junior or senior standing or permission of faculty. Content will depend upon student demand and faculty interest and may focus on any area relevant to nursing practice. May involve class, seminar, and/or clinical laboratory.
- NUR 4940 Internship for the Registered Nurse First Assistant (4) NU NUR**  
PR: CI. This course provides 120 hours of clinical experiences in the roles and responsibilities and technical skills required of the registered nurse first assistant (RNFA).
- NUR 4948L Preceptorship (6) NU NUR**  
PR: NUR 4216, NUR 4216L, NUR 4355, NUR 4455, NUR 4636, NUR 4635L. Individually contracted 150 hours of clinical practicum collaboratively planned by students, faculty, and agency personnel. Opportunity to synthesize theory and clinical practice for professional nursing.
- OCE 2001 Introduction to Oceanography NS (3) MS MSC**  
Overview of biological, chemical, geological, and physical oceanography.
- OCE 4930 Selected Topics in Marine Science (1-4) MS MSC**  
Selected topics in marine science including marine biology, marine chemistry, marine geology and geophysics, physical oceanography, and interdisciplinary topics relating to marine environments.
- ORI 2000 Introduction to Communication As Performance (3) AS SPE**  
Designed to develop proficiency in the understanding and oral communication of literary and other written materials.
- ORI 3950 Communication As Performance Laboratory (1-3) AS SPE**  
PR: SPC 2600 AND COM 2000 AND ORI 2000, each with a grade of C or above, or CI. The study, rehearsal, and performance of literature for Readers Theatre and Chamber Theatre productions.
- ORI 4019 Performing Identity and Culture (3) AS SPE**  
PR: ORI 2000. Focuses on theory and practice of identity and culture as performed in ritual, community, and aesthetic contexts. Majors only; nonmajors by permit only. May not be repeated for credit.
- ORI 4120 Performance of Poetry (3) AS SPE**  
PR: SPC 2600 AND COM 2000 AND ORI 2000, each with a grade of C or above, or CI. Critical appreciation of lyric and narrative poetry and communication of that appreciation to audience. Study of poetic theory and prosodic techniques.
- ORI 4150 Performing Nonfiction (3) AS SPE**  
PR: ORI 2000. Explores the genre of nonfiction, including diaries, memoirs, travelogues, new journalism, personal essays, and weblogs, through performance. For majors; nonmajors by permit. May not be repeated for credit.
- ORI 4220 Performing Young Adult Literature (3) AS SPE**  
PR: ORI 2000. Performance of literature written for young adults with an emphasis on cultural values and beliefs. For majors; nonmajors by permit only. May not be repeated for credit.

## ORI 4310 Group Performance of Literature (3) AS SPE

PR: SPC 2600 AND COM 2000 AND ORI 2000, each with a grade of C or above, or CI. Designed to introduce the student to and give experience in various forms of group approaches to performance.

## ORI 4320 Writing for Performance (3) AS SPE

PR: ORI 2000. Explores the intersection of writing and performance as aesthetic and communicative practices. For majors; nonmajors by permit only. May not be repeated for credit.

## ORI 4410 Performance Art (3) AS SPE

PR: ORI 2000. Explores history, criticism, and practice of performance art as a genre of performance. Restricted to majors; nonmajors with permit. Not repeatable for credit.

## ORI 4460 Performing Relationships (3) AS SPE

PR: ORI 2000. Explores interpersonal, organizational, and intercultural theories of human relationships as realized in literary texts through performance. For majors; nonmajors permit only. May not be repeated for credit.

## ORI 4931 Performance and Video (3) AS SPE

PR: ORI 2000. CR: ORI 3950. This course features adaptation, direction, and performance of literature for video productions.

## ORI 5930 Topics in Performance Genres (3) AS SPE

Variable topics course.

## PAD 3003 Introduction to Public Administration SS (3) AS PAD

Examination of organizational behavior and change, policy process, public management, financial administration, and personnel management from the perspective of public and social delivery.

## PAD 4144 Nonprofit Organizations and Public Policy 6A MW (3) AS PAD

Role and importance of third sector (voluntary) organizations in American society; focus on public policy through service in a voluntary organization.

## PAD 4204 Public Financial Administration (3) AS PAD

Analysis of problems in the growth and development of public budgetary theory and Federal budgetary innovations.

## PAD 4419 Personnel & Supervision in Today's Organizations (3) AS PAD

Introduces students to concepts, principles and practices of personnel management and supervision that influence the attainment of desired performance goals in today's public and not-for profit organizations. Course participants will explore issues that influence the successful management of human resources in dynamic employment settings.

## PAD 4712 Managing Information Resources in the Public Sector (3) AS PAD

Introduces students to the fundamental concepts, theories, principles and practices in public information management. Internet access is required.

## PAD 4930 Selected Topics in Public Administration and Public Policy (3) AS PAD

Selected issues and topics in Public Administration and Public Policy with course content based on student demand and instructor's interest. May be repeated for up to 6 credits as topics vary.

## PAD 5035 Issues in Public Administration and Public Policy (3) AS PAD

Sr. & GS only. Selected issues and topics in Public Administration and Public Policy.

## PAD 5044 Environment of Public Administration (3) AS PAD

Examination of the legal, political, and ethical environment in which public managers work.

## PAD 5333 Concepts and Issues in Public Planning (3) AS PAD

PR: URP 4050 or URP 6056, GS or Sr. Analysis of basic concepts, issues, and strategies of planning, policy determination, collection of information, and decision-making.

## PAD 5605 Administrative Law and Regulation (3) AS PAD

An examination of the constitutional and statutory base and limitations of the administrative process, administrative adjudication, rule-making, and the judicial review of such actions. An examination of the Constitutional and statutory base and limitations of the administrative process, administrative adjudication, rule-making, and the judicial review of such actions. Attention is also directed to regulatory commissions, their functions, powers, management and relationship with other branches of government.

## PAD 5700 Research Methods in Public Administration (3) AS PAD

PR: MPA, GCPM, and GCNM majors only. Research design; skills in public agencies. Must be prepared to demonstrate proficiency in EXCEL, Access, and other relevant software programs.

## PAD 5807 Urban and Local Government Administration (3) AS PAD

GS or Sr. Analysis of the role of the administrator at the municipal level, the division of functions, policy formation, alternative governmental structures, effects on the administrative process.

## PAD 5836 Comparative Public Administration (3) AS PAD

GS or Sr. How organizations and managers perform within a particular environment, potential impact of innovation, and how service is accomplished in a variety of socio-economic environments.

## PCB 1511 Molecular and Human Genetics (3) US DEA

PR: Acceptance in USF-Hillsborough County Biomedical and Life Science Program. Molecular genetics with applications to biomedical science; genetic engineering; chromosomes, their molecular architecture, abnormalities, and other topics. Laboratory included.

## PCB 1910 Topics in Biomedical Science (3) US DEA

PR: Acceptance in USF-Hillsborough County Biomedical and Life Science Program. Designed to initiate high school students to the fundamentals of scientific research. Students are given lectures and perform laboratory exercises in pathogenic microbiology, immunology, marine biology, and plant biochemistry. Most of their time is spent working on individual research projects.

## PCB 3023 Cell Biology (3) AS BIO

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course or STA 2023. CP: CHM 2210. A survey of the marine environment, the types of organisms found inhabiting a variety of marine habitats, and the adaptations of the organisms to those habitats. Emphasis is placed on shallow water Florida environments. Lecture only.

## PCB 3023L Cell Biology Laboratory (1) AS BIO

CP: PCB 3023. Laboratory portion of Cell Biology. Metabolic processes within the cell.

## PCB 3043 Principles of Ecology (3) AS BIO

BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course or STA 2023. An introduction to the basic principles and concepts of ecology at the ecosystem, community, and population level of organization. Lecture only.

## PCB 3043L Principles of Ecology Laboratory (1) AS BIO

CP: PCB 3043. Laboratory portion of PCB 3043, Principles of Ecology.

## PCB 3063 General Genetics (3) AS BIO

BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course or STA 2023. CP: CHM 2210. Introduction to genetics including the fundamental concepts of Mendelian, molecular and population genetics. Lecture only.

## PCB 3063L General Genetics Laboratory (1) AS BIO

CP: PCB 3063. Laboratory investigation techniques in general genetics including Mendelian and non-Mendelian relationships, and gene interactions.

## PCB 3712 General Physiology (3) AS BIO

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L and CHM 2045, CHM 2046 and MAC 1105 or higher-level MAC course or STA 2023. Comparative analysis of animal structure and function: organ systems and activities of body tissue and organs. Functional responses of plants to both internal and environmental signals lecture only.

## PCB 3713L General Physiology Laboratory (1) AS BIO

PR: PCB 3712. Laboratory portion of General Physiology.

## PCB 4234 Principles of Immunology (3) AS BIO

PR: PCB 3023 or PCB 3063 or MCB 3020C and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211. Emphasis is on organization and functions of vertebrate immune system. Basic cellular and molecular mechanisms of immune responses in health and disease are addressed as well as the principles and applications of immunological methods. Lecture only.

## PCB 4522C Experimental Genetics (3) AS BIO

Experimental analysis of genetic systems. Lec-Lab.

## PCB 4674 Organic Evolution (3) AS BIO

PR: PCB 3063. An introduction to modern evolutionary theory. Lecture on population genetics, adaptations, speciation theory, phylogeny, human evolution and related areas. Lec.-dis.

## PCB 4723 Animal Physiology (3) AS BIO

PCB 3712 & CHM 2210 & MAC 1105 or higher-level MAC course or STA 2023 & PHY 2053. CP: CHM 2211. Advanced presentation of mechanisms employed by animals to interact with their environment and to maintain their organization. Lecture only.

## PCB 4723L Animal Physiology Laboratory (1) AS BIO

CR: PCB 4723. Laboratory portion of Animal Physiology.

**PCB 4843 Principles of Neuroscience (3) AS BIO**

PR: PCB 4723 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and PHY 2053. CP: CHM 2211. Study of the mammalian brain's structure and function, with an emphasis on human neuroanatomy, neuropharmacology, and neurophysiology. Topics include brain imaging, dementia, mechanisms of learning/memory, and neuropathological processes. Lecture only.

**PCB 5256 Developmental Mechanisms (3) AS BIO**

PR: ZOO 4695. Topics in modern developmental biology to be covered in lecture and through readings so as to gain a detailed understanding of cellular and molecular mechanisms of differentiation and pattern formation in various eukaryotic species for majors/non-majors

**PCB 5307 Limnology (3) AS BIO**

PR: PCB 3043 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and PHY 2053. CP: CHM 2211. An introduction to the physical, chemical, and biological nature of fresh-water environments. Lecture only.

**PCB 5307L Limnology Laboratory (1) AS BIO**

PR: CI. CP: PCB 5307. Laboratory portion of Limnology. Laboratory and field experience in the area of aquatic ecology.

**PCB 5415 Behavioral Ecology (3) AS BIO**

PR: PCB 3043 and PCB 3063 or PCB 4674 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023. CP: CHM 2211. An emphasis on the evolutionary mechanisms that influence an organisms behavioral responses to environmental events. The theoretical framework is presented and analyzed. Lecture only.

**PCB 5525 Molecular Genetics (3) AS BIO**

PR: PCB 3063, CI. Detailed examination of DNA, RNA and protein synthesis; the effects of mutations on proteins, cellular control; selected aspects of viral, bacterial, and fungal genetics.

**PEL 1121 Golf I (2) ED EDJ**

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

**PEL 1341 Tennis I (2) ED EDJ**

S/U only. Introductory experiences in the sport of tennis. Basic skills, playing strategies, lecture, demonstration, and participation.

**PEL 2122 Golf II (2) ED EDJ**

S/U only. Continuation of PEL 1121. Emphasis on course play and refinement of strokes.

**PEL 2342 Tennis II (2) ED EDJ**

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

**PEL 2441 Racquetball (2) ED EDJ**

S/U only. Development and refinement of the skills and strategies of racquetball with opportunity for competition and tournament play.

**PEM 2131 Weight Training (2) ED EDJ**

S/U only. Knowledge and techniques necessary for increasing muscle function. Assessment of status and development of a personal program

**PEM 2441 Karate (2) ED EDJ**

S/U only. Introductory experiences in the sport of Karate. Fundamental skills, strategy, information, and participation.

**PEM 2930 Selected Topics (1-2) ED EDJ**

S/U only. DPR. Activities offered are selected to reflect student need and faculty interest.

**PEN 1121 Swimming I (2) ED EDJ**

S/U only. Development and refinement of the essential skills and information necessary for enjoying swimming. Emphasis on personal safety.

**PEN 2113 Lifeguard Training (2) ED EDJ**

PR: PEN 2122 or equivalent. S/U only. Knowledge and skills necessary for saving the lives of others in the event of aquatic emergency. ARC certification offered.

**PEN 2136 Skin & Scuba Diving (2) ED EDJ**

PR: PEN 2172 or equivalent. S/U only. Development of the essential skills and knowledge necessary for enjoying the sport of Skin & Scuba Diving. Correct utilization and care of equipment; emphasis on personal safety.

**PET 2622C Care and Prevention of Physical Injuries (3) ED EDP**

DPR. Principles and techniques of conditioning athletes for competition; prevention and care of injuries in physical education and athletic activities.

**PET 3010 Personal/Professional Development Seminar (4) ED EDP**

PR: Entry into the K-12 Physical Education Program. The purpose of this course is to introduce students to the historical, philosophical, and sociological foundations of physical education. It is also designed to help students understand all aspects of becoming a professional.

**PET 3012 Professional Development in Physical Education I (1) EDEDP**

PR: CC. This is the first of a two course sequence of orientation and socialization into the profession and is intended to develop dispositions necessary for successful professional practice.

**PET 3013 Professional Development in Physical Education II (1) EDEDP**

PR: PET 3012. This is the second of a two-course sequence of orientation and socialization into the profession and is intended to develop dispositions necessary for successful professional practice.

**PET 3031 Motor Behavior (3) ED EDP**

PR: CC. Study of the assessment, evaluation and motor development performance of children and adolescents and application of principles of motor skills acquisition in physical education instruction. Open to non-majors.

**PET 3211 Stress Management (2) ED EDP**

PR: Admission to the Exercise Science Program. This course will focus on the health and psycho physiological aspects of stress. A variety of topics will be addressed for self-regulating stress such as changing perceptions, time management, communication, biofeedback, exercise, and muscle relaxation.

**PET 3252 Issues in Sport MW (3) ED EDP**

PR: Junior, Senior standing. A study of organized sport as a pervasive part of contemporary society. By increasing understanding of some of the issues and controversies based in the structure of sport and society, individuals will be able to understand and improve sport experiences for themselves and others.

**PET 3310 Kinesiology (3) ME ATH**

A study of the structure and function of the skeletal and muscular systems and of mechanical principles related to psycho-motor performance. Open to non-majors.

**PET 3312 Biomechanics (3) ED EDP**

PR: Admission to the Exercise Science Program or Permission of Instructor. This course will focus on the structure and function of the skeletal and muscular systems as well as the mechanical principles related to motor performance.

**PET 3314 Professional Development Seminar (1) ED EDP**

PR: Admission to the Exercise Science Program. This course will introduce the student to the exercise science field. Focus will be on professional conduct, job opportunities, organizations, certifications, and trends/issues. Students will develop skills to critique fitness/wellness information.

**PET 3351 Exercise Physiology I (3) ME ATH**

A study of the effects of physical activity on the body. Topics include acute and chronic adaptation of the cardiovascular, muscular, metabolic, hormonal, and energy systems to exercise. Open to non-majors.

**PET 3353 Exercise Physiology (3) ED EDP**

PR: Admission to the Exercise Science Program or Permission of Instructor. This course is designed to explore physiological adjustments and adaptations that occur as the result of exercise. The main focus will be on exercise-induced changes in the metabolic, cardiovascular, respiratory, neuromuscular, and endocrine systems.

**PET 3361 Nutrition for Fitness and Sport (3) ED EDP**

PR: Admission to the Exercise Science Program. This course will address weight management/weight loss, common diets, dietary supplements, ergogenic aids, and eating disorders. Content will focus on nutrition and weight management guidelines established by the American College of Sports Medicine.

**PET 3365 Physical Activity Epidemiology (3) ED EDP**

PR: Admission to the Exercise Science Program. A presentation of the background and main concepts of epidemiology and discussion and summary of original research. Major topics include coronary artery disease, cerebrovascular disease, peripheral vascular disease, diabetes, arthritis, and COPD.

**PET 3384 Exercise Testing and Prescription (3) ED EDP**

PR: Admission to the Exercise Science Program. In this course students will become proficient in performing a variety of exercise tests and prescribe appropriate exercises for aerobic capacity, muscular strength and endurance, body composition, flexibility and other parameters of physical fitness.

**PET 3404 Emergency Response and Planning (3) ED EDP**

PR: Admission to the Exercise Science Program. Students will develop emergency response knowledge and skills through ARC first aid emergency response, CPR/AED certifications and will proactively assess, develop and implement a plan of response for emergency situations in fitness/wellness centers.

**PET 3421 Curriculum and Instruction in Physical Education (3) EDEDP**

Physical Education majors only. Development of knowledge and skills related to the instruction process of physical education. Preparation of materials and planning instruction.

**PET 3441 Instructional Design and Content: Middle School Physical Education (3) ED EDP**

Physical Education majors only. The development of physical education content and instructional practices for middle school students. The focus is upon matching appropriate content and learning experiences to the unique needs of the pre- and early adolescent learner.

**PET 3613 Measurement and Evaluation in Athletic Training (3) ME ATH**

PR: PET 3696. This course is an introduction to the study and practice of measurement and evaluation techniques used in the assessment and rehabilitation of orthopaedic injuries. AT majors only. Credit not repeatable.

**PET 3617C Upper Extremity Assessment (3) ME ATH**

Athletic Training majors only. The study and practice of techniques used when assessing athletic injuries to the upper extremity, head and spine.

**PET 3618C Lower Extremity Assessment (3) ME ATH**

Athletic Training majors only. The study and practice of techniques used when assessing injuries to the lower extremity, hip, pelvis, low back and gait.

**PET 3621C Athletic Training Techniques (3) ME ATH**

Athletic Training majors only. Overview course including basic components of the athletic training profession including the prevention, recognition and evaluation and immediate care of athletic injuries. Medical terminology, emergency procedures, and taping procedures will be covered.

**PET 3640 Adapted Physical Education (3) ED EDP**

Physical Education majors only. A study of characteristics, programming needs and teaching of physical education for students with disabilities.

**PET 3660 Athletic Training Administration and Policy (3) ME ATH**

Athletic Training majors only. Analysis and application of organizational skills and administrative structure of the athletic training profession, including current theory about budget management, medical record keeping, drug testing, facility design and maintenance, legal aspects of sports medicine, athletic physical examinations, medical ethics, current educational concepts, and administrative policy.

**PET 3670L Clinical Experience in Athletic Training II (3) ME ATH**

PR: PET 3671L. Athletic Training majors only. Performance of basic athletic training skills under the supervision of a clinical instructor at various sites. Students develop competence in introductory and mid-level athletic training skills. Weekly seminar also required.

**PET 3671L Clinical Experience in Athletic Training I (3) ME ATH**

PR: PET 3621C. Athletic Training majors only. Performance of basic athletic training skills under the supervision of a clinical instructor at various sites. Students develop competence in introductory athletic training skills. A weekly seminar is also required.

**PET 3696 Documentation in Athletic Training (1) ME ATH**

PR: Admission to Athletic Training Program. CR: PET 3613. Designed to prepare athletic training students with an introduction to the foundation of appropriate terminology, documentation, and communication methods as they relate to athletic training and sports medicine. Majors only.

**PET 3713 Theory and Practice of Teaching Group Exercise (3) EDEDP**

PR: Admission to the Exercise Science Program. In developing group exercise leadership skills, students will learn how to apply principles of teaching safe and effective exercises designed to enhance cardiovascular endurance, muscular strength/endurance, and flexibility.

**PET 3931 Selected Topics in Sports Medicine (1-3) ME ATH**

DPR. Topics offered are selected to reflect student need and faculty interest.

**PET 3940 Practicum in Fitness/Wellness (3) ED EDP**

PR: Admission to the Exercise Science Program. This course will provide the initial field experience in a community fitness/wellness center serving general populations. Students will gain practical experience with regard to teaching group exercise and conducting fitness testing and prescription.

**PET 4093 Strength and Conditioning (3) ED EDP**

PR: Admission to the Exercise Science Program. This course will provide students with the information necessary for designing and implementing a successful strength and conditioning program through assessment and analysis of fitness and sport movement.

**PET 4141 Trends and Tasks- Elementary Physical Education (3) EDEDP**

Taken concurrently with PET 4942 Physical Education Internship: Elementary. Physical Education Majors only. Current trends are evaluated from a historical and philosophical perspective. Non-teaching tasks are identified as part of the professional role. Evaluate and continue personal-professional development plan developed in previous semesters.

**PET 4142 Trends and Tasks - Secondary Physical Education (1) EDEDP**

Taken concurrently with PET 4944 Physical Education Internship: Secondary. Physical Education Majors only. Current trends are evaluated from a historical and philosophical perspective. Non-teaching tasks are identified as part of the professional role. Evaluate and continue personal-professional development plan developed in previous semesters.

**PET 4219 Exercise Psychology (3) ED EDP**

PR: Admission to the Exercise Science Program. A presentation of the basic concepts related to exercise behavior. The content will include topics related to the psychosocial dimensions of exercise behavior to include participation, motivation, and adherence. Theoretical models will also be presented.

**PET 4304 Principles and Issues in Coaching (3) ED EDP**

Physical Education majors only. The application of principles from philosophy, psychology, sociology, and physiology to competitive athletics and coaching.

**PET 4353 Exercise Physiology II (3) ED EDP**

PR: PET 3351. A study of Exercise Physiology focusing on the adult. Includes specific populations such as the obese, heart patients, arthritics, elderly, and high performance athletes. Open to non-majors.

**PET 4384 Exercise Prescription for Strength & Conditioning (3) ME ATH**

PR: PET 3351. Athletic Training majors only. Techniques in conducting health-fitness test and exercise prescription for adults. Includes cardiovascular strength, flexibility, body composition, health risk testing, exercise prescribing, and monitoring.

**Justification**

**PET 4401 Class Management, Safety, Ethics, Law, and Organization and Administration of Physical Education (3) EDEDP**

Physical Education majors only. This course will examine the various classroom management approaches, professional ethics, school law, safety, and the organization and administration of physical education programs.

**PET 4402 Planning and Evaluating Fitness/Wellness Programs (3) ED EDP**

PR: Admission to the Exercise Science Program. This course will focus on the design of high quality fitness/wellness programs in worksite and other settings. Students will learn and apply the major components of program planning – needs assessment, development, implementation, and evaluation.

**PET 4406 Individualized Fitness/Wellness Programming (3) EDEDP**

PR: Admission to the Exercise Science Program. In this course students will learn how to assess, evaluate, and design safe and effective programs for individual clients. Students will also learn how to incorporate appropriate activities for specialized clients or populations.

**PET 4416 Administration of Fitness/Wellness Centers (3) ED EDP**

PR: Admission to the Exercise Science Program. This course will examine management issues in the areas of human resources, budgeting, marketing, legal liability, and risk management. Students will develop skills to manage safe/effective programs and services in various fitness/wellness settings.

**PET 4432 Instructional Design and Content: Physical Education Elementary (3) ED EDP**

Physical Education majors only. This is the first in a two-course sequence in which students study movement forms and instructional processes suitable for elementary age students. Majors only.

**PET 4433 Instructional Design and Content: Physical Education Elementary II (3) ED EDP**

Physical Education majors only. This course prepares students to select, plan, conduct complex movement experiences for students K-6.

**PET 4442 Instructional Design and Content: Physical Education Secondary (3) ED EDP**

Physical Education majors only. Development of knowledge and skills related to the teaching of selected movement activities such

## 326 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

as team sports, gymnastics, and physical fitness. Focus is on understanding mechanical principles utilized within those activities as well as on instructional progression and the preparation of materials for instruction at the secondary school level.

### **PET 4550 Clinical Exercise Testing and Prescription (3) ED EDP**

PR: Admission to the Exercise Science Program. A presentation of concepts related to the clinical aspects of fitness assessment and exercise programming. Clinical conditions that will be considered include: cardiovascular disease, pulmonary disease, metabolic disease, arthritis, and geriatrics.

### **PET 4625 Advanced Athletic Training (3) ME ATH**

PR: PET 3617C and PET 3618C. Athletic Training majors only. Advanced techniques in athletic training including orthopedic assessment, casting and bracing and imaging techniques.

### **PET 4627 General Medical Conditions in the Athlete (3) ME ATH**

PR: PET 3617C and PET 3618C. Advanced theory of pathology in injury, management of tissue and bone healing environments, disease, internal illness and injury and other general medical conditions. Issues related to radiology and pharmacology are also discussed.

### **PET 4632C Therapeutic Modalities (3) ME ATH**

Athletic Training majors only. This course provides an introduction to the theoretical and practical applications of modalities for the prevention, management and rehabilitation of physically active individuals. Concepts pertaining to the use of pharmacology, thermotherapy, cryotherapy, electrical stimulation, hydrotherapy, fluidotherapy, ultrasound, biofeedback and manual techniques will be emphasized.

### **PET 4633C Therapeutic Rehabilitation (3) ME ATH**

Athletic Training majors only. Theories and applications methods of comprehensive therapeutic treatment and rehabilitation programs for injuries commonly sustained by the physically active.

### **PET 4672L Clinical Experience in Athletic Training III (3) ME ATH**

PR: PET 3671L. Athletic Training majors only. Performance of mid-level athletic training skills under the supervision of a clinical instructor at various sites. Students develop competence in mid-level and advanced athletic training skills. Weekly seminar also required.

### **PET 4673L Clinical Experience in Athletic Training IV (3) ME ATH**

PR: PET 4672L. Athletic Training majors only. Continuation of clinical experience utilizing new skills under the direction of an NATABOC certified/state licensed athletic trainer accompanied by a one-hour seminar each week. This course provides students with the opportunity to develop competence in a variety of mid-level and advanced athletic training skills. Students may be assigned to a USF athletic team and/or one or more off-campus clinical affiliations. Students at this level will develop instruction skills by acting as peer-supervisors for level I, II and III students.

### **PET 4905 Independent Study: Professional Physical Education (1-4) ED EDP**

PR: DPR. S/U only. Specialized independent study determined by the student's needs and interests.

### **PET 4908 Independent Study in Sports Medicine (1-3) ME ATH**

S/U Only. Specialized independent study determined by the student's needs and interests. Repeatable 1 time.

### **PET 4931 Selected Topics in Sports Medicine (3) ED EDP**

PR: PET 3310, PET 3351. Pertinent and timely topics in sports medicine will be discussed. Topics and issues may vary but could include psychology of injury, environmental issues, reimbursement, pharmacology, ethical/legal issues, and performance enhancement. A.T. majors only.

### **PET 4933 Seminar in Sports Medicine 6A LW (3) ME ATH**

PR: PET 3617C and PET 3618C. The advanced study, writing, and discussion of topics and issues related to the field of athletic training. Emphasis is on professional preparation, credentialing, governance, ethics, and scope of practice. Employment issues will also be studied.

### **PET 4935 Case Studies in Athletic Health Care (3) ME ATH**

Athletic Training majors only. Capstone course intended to provide a unifying opportunity to utilize concepts, principles and skills learned from other athletic training courses.

### **PET 4941 Internship in Fitness/Wellness (9) ED EDP**

PR: Admission to the Exercise Science Program. This course will provide the final field experience in a community fitness/wellness center serving both general and special populations. Practical experiences will focus on all aspects of program development, delivery, and management.

### **PET 4942 Physical Education Pre-Internship: Elementary (3) EDEDP**

PR: CC. A part-time internship in elementary school physical education. Focus on the nature of the total elementary school

curriculum, characteristics of students, and application of appropriate content and instructional competencies.

### **PET 4944 Physical Education Pre-Internship: Secondary (3) ED EDP**

CC. A part time internship in middle or high school level physical education with focus on the relationship of physical education to the needs of the adolescent and the implementation of appropriate content and methodology.

### **PET 4946 Internship in Physical Education: Elementary (6) ED EDP**

CC. A full-time internship in the elementary school in which the student undertakes the full range of teaching responsibilities in elementary physical education.

### **PET 4947 Internship in Physical Education: Secondary (6) ED EDP**

S/U only. Physical Education majors only. A full-day internship in middle, junior or senior high school physical education programs with focus on the implementation of appropriate content and methodology to meet the needs of secondary students.

### **PGY 2110C Color Photography (3) VP ART**

Development of knowledge and skills of color photography for publication and presentation. Emphasis is on the use of transparency and negative color materials in their application to the media.

### **PGY 2401C Beginning Photography (3) VP ART**

Introduction to the expressive possibilities of photographic media. Projects and assignments will introduce students to both traditional and experimental ways of working with light-sensitive materials with an emphasis on the interdependence of form, technique, and concept. The course will also provide an overview of significant trends and directions in contemporary art photography.

### **PGY 3001 Photography in American Culture (3) AS AMS**

A survey of photography as an art and a craft in America since the mid-nineteenth century. Attention devoted to technological innovations, leading personalities, major movements, and memorable icons. Open to majors and non-majors.

### **PGY 3410C Intermediate Photography (3) VP ART**

PR: ART 2201C, ART 2203C, ART 2301C, ART 3310C, ARH 2050, ARH 2051, PGY 2401C. A mid level course expanding the student's visual and technical skills while establishing the beginning of a personal artistic direction. Repeatable up to 9 hours.

### **PGY 3610C Photojournalism I (3) AS COM**

PR: MMC 2100 and MMC 3602. Laboratory required. Fundamentals of news and feature photography. Camera operation, picture composition, darkroom techniques, editing in digital format with introduction to software applications. History, ethics and law of photojournalism.

### **PGY 3620 Photojournalism II (3) AS COM**

PR: PGY 3610C. Laboratory required. Advanced process and practice of photography for publication.

### **PGY 3801C Digital Media I (3) VP ART**

Restricted to majors. This course builds upon the concepts introduced in Introduction to Multimedia Systems and focuses upon digital photographic creation and editing.

### **PGY 3930C Special Topics: Photography (3) VP ART**

PR: PGY 3410C. A mid-level course expanding the student's visual and technical skills while establishing the beginning of a personal artistic direction by exposing the student to new ideas, technical skills and genres, including, but not limited to: color photography, digital photography, non-silver and documentary photography. Repeatable up to 9 hours.

### **PGY 4420C Advanced Photography (3) VP ART**

PR: PGY 3410C (3 cr.), PGY 3930C (6 cr.) and a 3.25 major GPA. Majors only. Continued problems in photography. May be repeated.

### **PGY 4802C Digital Media II (3) VP ART**

Restricted to majors. This course builds upon the concepts introduced in Digital Media I and focuses upon digital photographic, web and digital video creation.

### **PGY 5425C Art Photography III (4) VP ART**

PR: CI. Advanced work in photography and related media leading to development of personal/expressive statements.

### **PHC 4542 Stress, Health and College Life (3) PH CFH**

The purpose of this course is to examine the relationship between stress, as a multi-casual concept, health and disease. Focus areas include: the historical evolution and current theories of stress as they relate to types of stressors, physiological reactions and predisposition to disease, and techniques related to the recognition and prevention of an unhealthy level of stress.

### **PHC 5933 Special Topics (1-3) PH PHC**

Provides students the opportunity to learn about the multiple ways to view controversial topics in public health. It covers current

public health topics including biomedical issues, social and behavioral factors, and environmental issues.

**PHH 2000 Introduction to Philosophy 6A HP (3) AS PHI**

An introduction to selected philosophical problems and traditions.

**PHH 3062 History of Western Philosophy: Ancient Philosophy (3) AS PHI**

A survey of Western philosophy from the Pre-Socratics to Late Antiquity.

**PHH 3280 Medieval and Renaissance Philosophy (3) AS PHI**

This course is a survey of medieval and early Renaissance philosophy in the Latin West, focusing on the thought of Augustine, Anselm, Peter Abelard, Thomas Aquinas, John Duns Scotus, and William Ockham.

**PHH 3400 History of Philosophy: Modern (3) AS PHI**

A survey of Western philosophy from the end of the Middle Ages to the nineteenth century.

**PHH 3420 Early Modern Philosophy (3) AS PHI**

A survey of Western Philosophy from the end of the Renaissance to the beginnings of the Enlightenment.

**PHH 3442 Late Modern Philosophy (3) AS PHI**

A survey of Western Philosophy during the Enlightenment.

**PHH 4440 Continental Philosophy (3) AS PHI**

A study of developments in post-Kantian European philosophy.

**PHH 4600 Contemporary Philosophy 6A MW (3) AS PHI**

Selected schools of twentieth century thought such as idealism, positivism, pragmatism, realism, and existentialism.

**PHH 4700 American Philosophy 6A MW (3) AS PHI**

Major traditions in American thought, Puritanism, the Enlightenment, Transcendentalism, Idealism, Pragmatism, and Analytic Philosophy in relation to American culture.

**PHH 4820 Chinese Philosophy (3) AS PHI**

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

**PHI 1103 Critical Thinking SS (3) AS PHI**

Methods of thinking that lead to reliable conclusions, with emphasis on concrete cases in ordinary thinking and the sciences.

**PHI 1401 Science and Society 6A NS SS (3) AS PHI**

This class teaches students to become a better "Scientific Citizen," i.e. to be able to better understand and participate in the process by which we come to conclusions about the natural and social world that matter to us as a society.

**PHI 1600 Introduction to Ethics HP SS (3) AS PHI**

A study of ethical theories, concepts, problems and methods.

**PHI 2101 Introduction to Formal Logic 6A QM (3) AS PHI**

An elementary study of propositional, predicate, class and syllogistic logic with some attention to basic problems of logical theory.

**PHI 2630 Contemporary Moral Issues SS (3) AS PHI**

Open to all students. A study of contemporary moral issues concerning racism, sex, sexism, abortion, poverty, crime, war, suicide, and human rights in general.

**PHI 2631 Ethics and Business SS (3) AS PHI**

An application of traditional ethical theories to contemporary problems in business.

**PHI 3404 Philosophy of Science (3) AS PHI**

How is science different from other methods of inquiry about the world? What distinguishes science from pseudoscience? From religion? How we do test scientific theories? What are the factors that lead scientists to accept a theory?

**PHI 3633 Biomedical Ethics (3) AS PHI**

This course will focus on the ethical issues arising from advances in medical practice, delivery of health care, and scientific research.

**PHI 3636 Professional Ethics (3) AS PHI**

An examination of the ethical problems that professionals will face in the complex, global society of the next few decades: confidentiality, divided loyalty, racism/sexism, etc.

**PHI 3640 Environmental Ethics SS (3) AS PHI**

A study of alternative theories of environmental ethics, including the application of these theories to contemporary environmental problems, such as pollution, resource depletion, species extinction, and land use.

**PHI 3700 Philosophy of Religion 6A SS (3) AS PHI**

Analysis of religious experience and activity and examination of principal religious ideas in light of modern philosophy.

**PHI 3905 Directed Study (1-4) AS PHI**

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

**PHI 3930 Selected Topics (1-4) AS PHI**

PR: Cl. Selected topics according to the needs of the student.

**PHI 4073 African Philosophy MW (3) AS PHI**

A descriptive and analytical study of African philosophical thought, featuring reflective comparisons of African and Western categories of thought.

**PHI 4300 Theory of Knowledge 6A MW (3) AS PHI**

An examination of human knowledge; its scope and limits, and an evaluation of evidence, criteria of truth, the nature of belief, conditions for meaningfulness, theories of perception, and a study of memory and sense perception in the four major fields of nature, history, personal experience, and the a priori.

**PHI 4320 Philosophy of Mind 6A MW (3) AS PHI**

A study of historical and current issues in philosophy of mind, including the nature and status of mind, mind/body dualism, the relationship of mind and body, the problems of other minds, the physical basis for intelligence.

**PHI 4632 Feminist Ethics MW (3) AS PHI**

A study of the varied approaches to moral reasoning taken by feminist ethical writers such as Wollstonecraft, Mill, Gilligan, Daly, Hoagland and others.

**PHI 4670 Contemporary Ethical Theory (3) AS PHI**

A survey of contemporary ethical theory, focusing both on the literature about the status of ethical theorizing—moral scepticism, moral nihilism, narrative ethics—and on specific types of theories—deontological theories, consequentialist theories, rights-based theories, virtue theories.

**PHI 4800 Aesthetics 6A MW (3) AS PHI**

A study of traditional and contemporary aesthetic theories with emphasis on creative process, the nature of the art work, the aesthetic response, expressiveness, form and content, as well as art and morality.

**PHI 4905 Directed Study (1-4) AS PHI**

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

**PHI 4930 Selected Topics (1-3) AS PHI**

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

**PHI 4938 Philosophy Capstone Seminar (3) AS PHI**

PR: Junior or senior standing; declared philosophy major. Exit course for philosophy majors. Topics will vary at instructor's discretion, but are expected to span conventional boundaries between the branches of philosophical inquiry.

**PHI 5135 Symbolic Logic (3) AS PHI**

PR: PHI 2101 or Cl. Study of topics such as the following: Metatheory of propositional and predicate logic, related metatheoretic results, alternative logic.

**PHI 5225 Philosophy of Language (3) AS PHI**

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

**PHI 5913 Research (1-4) AS PHI**

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

**PHI 5934 Selected Topics (1-3) AS PHI**

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

**PHM 3020 Philosophies of Love and Sex (3) AS PHI**

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

**PHM 3100 Social Philosophy 6A SS HP (3) AS PHI**

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

**PHM 3400 Introduction to Philosophy of Law (3) AS PHI**

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

**PHM 4120 Major Black Thinkers MW (3) AS AFA**

PR: Junior or Senior standing. Survey of major themes and issues in African/African-American intellectual and political thought with an emphasis on theories of nationalism. Works of individuals such as Martin Delany, Booker T. Washington, W. E. B. DuBois, Marcus Garvey, Malcolm X, and Angela Davis are considered.

**PHM 4331 Modern Political Philosophy 6A MW (3) AS PHI**

A survey of political philosophy from 1600 A.D. until 1900 A.D., including an examination of the ethical, metaphysical, and epistemological bases of these philosophies.

**PHM 4340 Contemporary Political Philosophy 6A MW (3) AS PHI**

A survey of political philosophy in the twentieth century, including an examination of the ethical, metaphysical and epistemological bases of these philosophies.

**PHM 5125 Topics in Feminist Philosophy (3) AS PHI**

A study of recent feminist philosophical approaches to epistemology, aesthetics and political philosophy. May also be taken for credit in Women's Studies.

**PHM 5126 Social Issues in Biomedical Ethics (3) AS PHI**

An examination of the social and political issues arising from rapid changes in medicine and technology. Topics covered may include social issues related to the just distribution of health care, reproductive technologies, HIV and AIDS, eugenics, genetic testing, and maternal-fetal relations.

**PHP 3786 Existentialism 6A HP (3) AS PHI**

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

**PHP 4000 Plato 6A MW (3) AS PHI**

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

**PHP 4010 Aristotle 6A MW (3) AS PHI**

Study of Aristotle's philosophy.

**PHP 4410 Kant (3) AS PHI**

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

**PHP 4740 The Rationalists 6A MW (3) AS PHI**

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

**PHP 4745 The Empiricists 6A MW (3) AS PHI**

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

**PHP 4784 Analytical Philosophy 6A (3) AS PHI**

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

**PHP 4788 Philosophy of Marxism 6A MW (3) AS PHI**

A critical survey of Marxist philosophy from Marx and Engels to Mao Tse-Tung and Herbert Marcuse. Hegelian foundations of Marxist philosophy analyzed in detail.

**PHT 5021 Professional Issues I (2) ME PHT**

Foundations of systems thinking, decision making, professional expression, responsibility, and accountability (including legal/ethical concepts), culture and argumentation for the roles of the physical therapist in administration, consultation, critical inquiry, education and patient/client management. Restricted to majors.

**PHT 5022 Professional Issues II (2) ME PHT**

An introduction to critical injury and educator roles and responsibilities; explores the concepts of decision-making, evaluation of research, theories of learning, research and clinical pathways. Restricted to majors.

**PHT 5023 Professional Issues III (3) ME PHT**

Focus on legal, ethical, and professional responsibility and accountability of the physical therapist. Learners will further develop their abilities to make legal and ethical decisions. The class will examine state laws governing the practice of physical therapy and other health care services. Restricted to majors.

**PHT 5171C Foundational Science I (3) ME PHT**

Introduction to the peripheral neuromuscular, skeletal, integumentary, and circulatory systems in normal and pathological states. Includes the anatomy and physiology of bones, joints, skin, nerves, and blood vessels, as well as the response of these tissues to injury and their potential for healing. Restricted to majors.

**PHT 5172C Foundational Science II (1) ME PHT**

Emphasis on physiology of the peripheral sensorimotor and cardiopulmonary systems. Restricted to majors.

**PHT 5173C Foundational Science III (2) ME PHT**

Emphasis on physiology of the peripheral sensorimotor and cardiopulmonary systems. Restricted to majors.

**PHT 5184 Movement Science I (2) ME PHT**

A basic introduction to movement science and its foundational principles from four different perspectives: biomechanics; kinesiology; exercise physiology; and motor control, learning and development. Restricted to majors. Repeatable for 2 cr.

**PHT 5185 Movement Science II (3) ME PHT**

PR: PHT 5184 Elaboration of movement science principles with emphasis on biomechanics, kinesiology, functional anatomy, exercise physiology, histopathology, motor control and connective tissue properties. Restricted to majors. Repeatable for 3 cr.

**PHT 5271 Patient/Client Management I (3) ME PHT**

Foundational principles of histology, pathology, histopathology, applied biomechanics, pharmacology and clinical medicine are introduced and applied to the physical therapy management of individuals with musculoskeletal disorders involving the limbs. Restricted to majors.

**PHT 5272 Patient/Client Management II (2) ME PHT**

Application of principles of patient/client management to patients with cardiopulmonary disease or dysfunction and diabetes in order to identify and write plans of care for related movement dysfunction. Restricted to majors.

**PHT 5273 Patient/Client Management III (3) ME PHT**

Learners apply principles of patient/client management to patients with progressive, non-progressive diseases and injuries of the nervous system. Restricted to majors.

**PHT 5275C Physical Therapy Science I (4) ME PHT**

Introduction to physical therapy skills in examination, evaluation, and diagnosis for clients with uncomplicated musculoskeletal impairments involving the extremities. Emphasis on obtaining a history and performing physical therapy tests and measures leading to a differential diagnosis by application of principles of movement. Restricted to majors.

**PHT 5276C Physical Therapy Science II (4) ME PHT**

Introduction to physical therapy skills used in examination, evaluation, diagnosis of and intervention for clients with activity limitations associated with cardiovascular, hematological, or pulmonary disorders. Major emphasis on selecting, justifying, administering, and interpreting physiological responses to physical agents and therapeutic exercises. Restricted to majors.

**PHT 5277C Physical Therapy Science III (3) ME PHT**

Examination, evaluation, diagnosis, and intervention for movement-related problems secondary to impairments of the nervous system. Contemporary theories of motor development, motor learning and motor control will be introduced. Student knowledge will be demonstrated with clinical problem-solving scenarios. Restricted to majors.

**PHT 5283C Physical Therapy Procedures (3) ME PHT**

Introduction to selected physical therapy interventions, obtaining a patient history, and conducting a systems screen. Restricted to majors. Repeatable for 3 cr.

**PHT 5316 Medical Management I (1) ME PHT**

Introduction to medical diagnostics, pharmacological principles, and common orthopedic surgical procedures as components of medical management including repair of bone and soft tissue. Restricted to majors. Repeatable for 1 credit.

**PHT 5380 Medical Management II (1) ME PHT**

PR: PHT 5316 Seminar on the medical and surgical management; epidemiology; pathophysiology; pharmacology of injuries and diseases of the cardiopulmonary system including repair and regeneration. Restricted to majors. Repeatable for 1 credit.

**PHT 5822 Clinical Education I (3) ME PHT**

Initial clinical practice experience for the development of patient care skills. The course is graded Satisfactory/Unsatisfactory. Restricted to majors.

**PHT 5906 Directed Independent Study (1-10) ME PHT**

Directed independent study, content to be decided. Restricted to majors.

**PHT 5934 Special Topics I (1-10) ME PHT**

Exploration of physical therapy practice issues. Topics may vary each semester the course is offered. A seminar and/or lab course. Restricted to majors. Not repeatable for credit.

**PHT 5960 Clinical Proficiency and Problem Solving I (1) ME PHT**

Practicum for patient/client management of individuals with musculoskeletal related movement disorders complemented by direct patient care learning. Restricted to majors. Repeatable for 1 credit hour.

**PHT 5961 Clinical Proficiency and Problem Solving II (1) ME PHT**

PR: PHT 5960 Practicum for the synthesis of skills, knowledge, and values for management of individuals with cardiopulmonary and endocrine related movement disorders complemented by direct patient care learning. Restricted to majors. Repeatable for 1 credit hour.

**PHY 2020 Conceptual Physics NS (3) AS PHY**

No credit for Physics or Mathematics majors. A qualitative, non-mathematical investigation of physics, emphasizing its influence on life today.

**PHY 2048 General Physics I NS (3) AS PHY**

PR: MAC 2281 or MAC 2311. Must be taken concurrently with lab and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2053 and PHY 2048 courses. First semester of a two semester sequence of calculus-based general physics (mechanics, wave motion, sound, thermodynamics, geometrical and physical optics, electricity, and magnetism) for physics majors and engineering students.

**PHY 2048L General Physics I Laboratory (1) AS PHY**

PR: MAC 2281 or MAC 2311. Must be taken concurrently with lecture and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2053L and PHY 2048L courses.

- First semester of a two-semester sequence of general physics (mechanics, wave motion, sound, thermodynamics, geometrical and physical optics, electricity, and magnetism) and laboratory for physics majors and engineering students.
- PHY 2049 General Physics II NS (3) AS PHY**  
PR: MAC 2282 or MAC 2312, PHY 2048, PHY 2048L. Must be taken concurrently with lab and, if dropped, then dropped simultaneously. May not receive credit for both the PHY2054 PHY 2054 and PHY 2049 courses. Second semester of general physics and laboratory for physics majors and engineering students.
- PHY 2049L General Physics II Laboratory (1) AS PHY**  
PR: MAC 2282 or MAC 2312, PHY 2048, PHY 2048L. Must be taken concurrently with lecture and, if dropped, then dropped simultaneously. May not receive credit for both the PHY2054L PHY 2054L and PHY 2049L courses. Second semester of general physics and laboratory for physics majors and engineering students.
- PHY 2053 General Physics I NS (3) AS PHY**  
PR: MAC 1140 and MAC 1114, or MAC 1147. Must be taken concurrently with lab and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2053 and PHY2048 PHY 2048 courses. First semester of a two semester sequence of non-calculus-based general physics (mechanics, heat, wave motion, sound, electricity, magnetism, optics, modern physics) for science students.
- PHY 2053L General Physics I Laboratory (1) AS PHY**  
Must be taken concurrently with lecture and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2053L and PHY 2048L courses. First semester of a two semester sequence of general physics (mechanics, heat, wave motion, sound, electricity, magnetism, optics, modern physics) laboratory for science students.
- PHY 2054 General Physics II NS (3) AS PHY**  
PR: PHY 2053, PHY 2053L. Must be taken concurrently with lab and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2054 and PHY 2049 courses. Second semester of non-calculus-based general physics for science students.
- PHY 2054L General Physics II Laboratory (1) AS PHY**  
PR: PHY 2053, PHY 2053L. Must be taken concurrently with lecture and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2054L and PHY 2049L courses. Second semester of general physics lab for science students.
- PHY 3101 Modern Physics (3) AS PHY**  
PR: PHY 2049, MAC 2283 or MAC 2313. Special relativity. Interaction of radiation with matter. Particle-wave duality. Atomic and x-ray spectra and Bohr model of atom. Schrodinger wave equation. Introduction to solid state physics.
- PHY 3221 Mechanics I (3) AS PHY**  
PR: PHY 2048. CR: MAC 2283 or MAC 2313. First semester of a two-semester sequence. Review of vector algebra and vector calculus. Dynamics of single particles and systems of particles; central forces; rotation about an axis; statics; and virtual work.
- PHY 3323 Electricity and Magnetism I (3) AS PHY**  
PR: PHY 2049, MAC 2283 or MAC 2313. Electrostatic fields and potentials, dielectrics, classical conductivity, RC circuits, Fourier and finite element methods. First semester of sequence PHY 3323, PHY 4324.
- PHY 3424 Optics (4) AS PHY**  
PR: PHY 2049; CR: MAC 2283 or MAC 2313. Reflection, refraction, dispersion, interference, diffraction, polarization, and laboratory.
- PHY 3822L Intermediate Laboratory (3) AS PHY**  
PR: PHY 2049 or equivalent; CR: PHY 3101. Experiments in modern physics, including the areas of atomic, nuclear, solid state and wave phenomena.
- PHY 4031 Great Themes in Physics 6A MW (3) AS PHY**  
Origins/early history of physics, and quantum physics. Conservation of energy. Second Law of Thermodynamics. Special Relativity. Exponential dynamics. Outside reading, writing; maintenance of a logbook/journal.
- PHY 4222 Mechanics II (3) AS PHY**  
PR: PHY 3221; CR: MAP 2302. Continuation of PHY 3221. Coupled oscillators and normal modes; moving coordinate systems; Lagrange's and Hamilton's equations; inertia tensor; general rotation of rigid bodies.
- PHY 4324 Electricity and Magnetism II (3) AS PHY**  
PR: PHY 3323. Introduction to special relativity, magnetic fields and potentials, magnetic materials, RL and RLC circuits, Maxwell's equations and applications.
- PHY 4523 Statistical Physics (3) AS PHY**  
PR: PHY 3101, senior status. Statistical approach to thermodynamics and kinetic theory and introduction to statistical mechanics.
- PHY 4604 Introduction to Quantum Mechanics (3) AS PHY**  
PR: PHY 3101, or CI. Basic concepts of quantum mechanics with applications in atomic, nuclear, and condensed matter Physics.
- PHY 4744C Introduction to Electronics and Test Instrumentation (3) AS PHY**  
PR: General Physics or CI. Introduces the fundamentals of analog and digital electronics used in measurements and instrumentation. Weekly labs give hands-on experience in breadboarding electronic circuits and using test instrumentation (oscilloscopes, digital multimeters, etc.)
- PHY 4823L Advanced Laboratory (3) AS PHY**  
PR: PHY 3822L. Experimental work primarily related to modern physics. Emphasis on experimental techniques used in current research.
- PHY 4905 Independent Study (1-3) AS PHY**  
PR: CI. S/U only. Specialized, independent study determined by the student's need and interest. The written contract required by the College of Arts and Sciences specifies the regulations governing independent study.
- PHY 4910 Undergraduate Research (1-4) AS PHY**  
PR: Senior or advanced junior standing and CC. S/U only. An individual investigation in the laboratory or library or both, under the supervision of the instructor. Credit hours and other contractual terms, are to be determined by student/instructor agreement.
- PHY 4930 Undergraduate Seminar (1) AS PHY**  
PR: Senior or advanced junior standing or CC. S/U only. All undergraduate physics majors must enroll in this course at least once. Regular attendance is required. This course introduces students to the research areas in the Physics Department.
- PHY 4936 Selected Topics in Physics (1-4) AS PHY**  
PR: Senior or advanced junior standing and CC. Each topic is a course in directed study and under the supervision of a faculty member.
- PHY 5720C Electronics for Research (3) AS PHY**  
A rigorous introduction to the fundamentals of analog and digital electronics. Theoretical circuit analysis and weekly labs introduce practical use of diodes, transistors, analog and digital ICs, breadboarding techniques and electronics test instrumentation. Spring Semester.
- PHY 5937 Selected Topics in Physics (1-4) AS PHY**  
PR: Senior or advanced standing and CC. Each topic is a course in directed study under the supervision of a faculty member.
- PHZ 2102 Problems in General Physics I (1) AS PHY**  
CR: PHY 2048 or PHY 2053. First semester of a two-semester sequence on solving problems in General Physics I. A course designed to be taken with the lecture course and to help students with developing problem-solving skills.
- PHZ 2103 Problems in General Physics II (1) AS PHY**  
CR: PHY 2049 or PHY 2054. Second semester of a two-semester sequence on solving problems in General Physics II. A course designed to be taken with the lecture course and to help students with developing problem-solving skills.
- PHZ 3113 Mathematical Methods in Physics (3) AS PHY**  
PR: PHY 2049. CR: MAC 2283 or MAC 2313. The course is designed to develop the basic mathematical skills required in subsequent courses in physics, as well as form the basis for a fundamental understanding of the mathematics needed for the study of physics.
- PHZ 4151C Computational Physics (3) AS PHY**  
Introduction to computer applications in physics. Emphasis on numerical modeling and simulation of physics problems using linear algebra, differential equations and Monte Carlo methods. No prior programming experience required.
- PHZ 4434 Materials Physics NS (3) AS PHY**  
PR: PHY 2048, PHY 2049, PHY 3101. The physics and physical properties of materials. Strong emphasis is on the underlying physics of materials. Particular topics covered include crystal structure, phase, and electrical, thermal, optical, and magnetic properties of materials.
- PHZ 4702 Applications of Physics to Biology and Medicine I (4) AS PHY**  
PR: PHY-2054, PHY-2054L or PHY-2049, PHY 2049L. The first semester of a two-semester sequence, to discuss the applications of the physical concepts introduced in the General Physics sequence to biological systems and for medical applications. Restricted to non-majors.
- PHZ 4703 Applications of Physics to Biology and Medicine II (4) AS PHY**  
PR: PHY-2054, PHY-2054L or PHY-2049, PHY 2049L; PHY 2053 or CI. The second semester of a two-semester sequence, to discuss the applications of the physical concepts introduced in the General Physics sequence to biological systems and for medical applications. Restricted to non-majors.

## 330 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

### PHZ 5115 Methods of Theoretical Physics I (3) AS PHY

PR: MAP 2302 or Cl. Applications of mathematical techniques to classical and modern physics. Vector spaces including Hilbert space, orthogonal functions, generalized functions, Fourier analysis, transform calculus, and variational calculus.

### PHZ 5116 Methods of Theoretical Physics II (3) AS PHY

PR: MAP 2302 or Cl. Applications of mathematical techniques to classical and modern physics. Selected topics in complex analysis, differential and integral equations, numerical methods, and probability theory.

### PHZ 5156C Computational Physics I (3) AS PHY

PR: CGS 5765 or Cl. C programming applied to real science and engineering problems. Data analysis, numerical algorithms, modeling, parallel computation. Subjects selected from current research may include neurobiology, quantum magnetism, chaos, finance, materials science.

### PHZ 5304 Nuclear Physics (3) AS PHY

PR: PHY 4604 or Cl. Nuclear forces, nuclear models, nuclear structure, decay, nuclear reactions, and high energy physics.

### PHZ 5405 Solid State Physics I (3) AS PHY

PR: PHY 3101, MAP 2302, Cl. Crystal structure, x-ray and electron diffraction, mechanical and thermal properties of solids, electrical and magnetic properties of metals, band theory of metals, insulators, and semiconductors. First semester of sequence PHZ 5405, PHZ 6426.

### POL 1120 Beginning Polish I (4) AS WLE

CR: POL 1120L. This course features all four major skills: listening, reading, speaking, and writing. Grammar exercises, dictation, readings and vocabulary-building are central in this first course. Knowledge of Russian can help. S/U available.

### POL 1120L Beginning Polish I Laboratory (1) AS WLE

CR: POL 1120. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

### POL 1121 Beginning Polish II (4) AS WLE

PR: POL 1120 or equivalent. CR: POL 1121L. This course continues the four basic skills of POL 1120, with continued emphasis on structures, dialogues, readings, dictation, and vocabulary-building. Knowledge of Russian can help. S/U available.

### POL 1121L Beginning Polish II Laboratory (1) AS WLE

CR: POL 1121. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

### POL 4905 Directed Study (1-5) AS WLE

Departmental approval required. S/U only. Permits study options in Polish not available in regularly scheduled curriculum at departmental discretion.

### POR 1120 Beginning Portuguese I (4) AS WLE

CR: POR 1120L. Development of basic skills in listening and reading comprehension, speaking and writing of Brazilian Portuguese.

### POR 1120L Beginning Portuguese I Laboratory (1) AS WLE

CR: POR 1120. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

### POR 1121 Beginning Portuguese II (4) AS WLE

PR: POR 1120 or equivalent. CR: POR 1121L. Continued development of basic skills in listening and reading comprehension, speaking and writing of Brazilian Portuguese.

### POR 1121L Beginning Portuguese II Laboratory (1) AS WLE

CR: POR 1121. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

### POR 2201 Intermediate Portuguese II (3) AS WLE

For language students who intend to attain basic proficiency.

### POR 2220 Intermediate Portuguese I (3) AS WLE

POR 2200 builds upon the four language skills (speaking, comprehension, reading, and writing) introduced in POR 1120 and POR 1121.

### POS 2041 American National Government (3) AS POL

Analysis of basic principles and procedures of the American governmental system with emphasis on current issues and trends.

### POS 2080 The American Political Tradition SS HP (3) AS POL

This course is an introductory survey of the historical developments and changes in American political institutions, processes, and thought.

### POS 2112 State and Local Government and Politics (3) AS POL

Analysis of the structure and function of state and local governments, of the social and political influences that shape them, and of the dynamics of their administrative processes.

### POS 3142 Introduction to Urban Politics and Government (3) AS POL

Governmental and political structures and processes as they function in urban areas, with special focus on municipalities and locally based public services.

### POS 3173 Southern Politics (3) AS POL

Examines changes in electoral politics in the South, and the role of interest groups and the state and federal government in facilitating change.

### POS 3182 Florida Politics and Government (3) AS POL

A study of Florida political culture, political parties and elections, the legislative, executive, and judicial systems, and policy patterns.

### POS 3283 Judicial Process and Politics (3) AS POL

The organization, development, and functioning of American court systems and the causes and consequences of judicial behavior from an empirical perspective.

### POS 3453 Political Parties and Interest Groups (3) AS POL

Analysis and understanding of role, functions, structure, and composition of such, and their impact on American governmental institutions.

### POS 3691 Introduction to Law and Politics (3) AS POL

Nature of law, legal process, relationship to political life of constitutional law, administrative law, the judicial process, and private law.

### POS 3697 Environmental Law (3) AS POL

Examines some of the major issues involving environmental law. Specially, the course provides a survey and analysis of statutes, both state and federal, regulating water, air, soil pollution, and resource conservation and recovery. It will also address questions pertaining to problems of implementation, interpretation, enforcement, and development of environmental laws.

### POS 3713 Empirical Political Analysis (3) AS POL

Fundamentals of empirical political inquiry: systematic data collection and quantitative analysis techniques. Laboratory exercises using the computer are required.

### POS 3931 Selected Topics (3) AS POL

Selected topics in political science with course content based upon student demand and instructor's interest.

### POS 4204 Political Behavior, Public Opinion, and Elections (3) AS POL

Analysis of economic and socio-psychological factors influencing mass and elite political behavior; voting behavior, public opinion, and political activism.

### POS 4413 The American Presidency 6A (3) AS POL

The presidency as a political institution; analysis of powers; legislative, administrative, political, and foreign policy leadership; crisis management and decision making; White House staffing; limits on power.

### POS 4424 The American Congress (3) AS POL

Organization, procedures, committee system, party leadership, relations with governmental and non-governmental organizations and agencies, oversight, decision-making processes, House/Senate comparisons.

### POS 4614 Constitutional Law I (3) AS POL

PR: POS 2041. Leading social problems, principle institutions, and the scope of powers. Analysis of Supreme Court decisions, scholarly commentaries, and the writings of leading public figures.

### POS 4624 Constitutional Law II (3) AS POL

PR: POS 2041. Analysis of Supreme Court decisions and scholarly commentaries on the constitutional rights of individuals.

### POS 4693 Women and Law I (3) AS WST

Introduction to issues concerning the legal aspects of sex and sex-based discrimination as embodied in statutory and case law, focusing on constitutional and family law and reproductive freedom issues.

### POS 4694 Women and Law II 6A MW (3) AS WST

PR: POS 4693 or Cl. Legal position of women in American society and remedies available to challenge current laws and practices, with specific emphasis on employment and education issues as they relate to both women and men.

### POS 4905 Independent Study (1-3) AS POL

PR: 3.0 average in Political Science and Cl. S/U only. Specialized study determined by the student's needs and interests.

### POS 4910 Individual Research (1-3) AS POL

PR: 3.0 average in Political Science and Cl. Investigation of some aspect of political science culminating in the preparation of an original research paper.

## POS 4936 Senior Seminar (3) AS POL

PR: Senior standing and CI. An opportunity to work with others in a seminar format, exploring specialized topics.

## POS 4941 Field Work (3-15) AS POL

PR: 3.0 average in Political Science and CI. Opportunity for students to obtain practical experience as aides to agencies of government and political parties.

## POS 4970 Honor Thesis (3) AS POL

PR: Admission to Honor option. Writing of honor thesis under direction of faculty members.

## POS 5094 Issues in American National and State Government (3) AS POL

Selected topics of study in American government.

## POS 5155 Issues in Urban Government and Politics (3) AS POL

Selected issues and topics in Urban Government and politics.

## POS 5159 Urban Policy Analysis (3) AS PAD

Application of policy framework for urban government & policies. Examine forms of government and how policies such as economic development, law enforcement, community policing, neighborhood policies (with non-profit groups) can be analyzed.

## POT 3003 Introduction to Political Theory (3) AS POL

Examines various kinds of theory used in political science for understanding political life: normative theory, empirical theory, historicism theory, analytical theory, and critical theory.

## POT 3013 Classical Political Theory (3) AS POL

Analysis of basic ideas of Plato, Aristotle, Cicero, St. Thomas, and other leading pre-modern political philosophers.

## POT 4054 Modern Political Theory (3) AS POL

Analysis of basic political ideas of Machiavelli, Hobbes, Locke, Rousseau, Burke, and other modern philosophers.

## POT 4064 Contemporary Political Thought (3) AS POL

Examines various political views and political phenomena in the nineteenth and twentieth centuries. Diverse theoretical types and salient political phenomena will be presented.

## POT 4109 Politics and Literature 6A LW (3) AS POL

Critical examination of the connections between politics and literature.

## POT 4204 American Political Thought (3) AS POL

Examines political writings in the U.S. and responses to critical periods in history, beginning with the Founding Fathers, and culminating in recent contributions and understanding contemporary political problems and solutions.

## POT 4661 The Politics of Identity, Difference and Inequality MW (3) AS POL

PR: POT 3003. An analysis of how relationships of social identity and difference become the basis of social, political and economic inequality in modern society. It incorporates both contemporary and classical discussions of inequality.

## POT 4936 Selected Topics in Political Theory (3) AS POL

Selected topics or thinkers in political theory.

## PPE 4003 Personality (3) AS PSY

PR: PSY 3213 with a grade of C or better or CI. Methods and findings of personality theories and an evaluation of constitutional, biosocial, and psychological determinants of personality.

## PSB 3444 Drugs and Behavior (3) AS PSY

This is a basic introduction to drugs and their effects on society and behavior. Specifically, drug regulations and laws will be covered as well as how drugs interact with the brain to alter consciousness.

## PSB 4004C Physiological Psychology (3) AS PSY

PR: PSY 3213 with a grade of C or better or CI. Gross neural and physiological components of behavior. Structure and function of the central nervous system and theory of brain functions.

## PSC 2515 Energy and Humanity NS (3) AS PHY

Social, economic, and political aspects of energy. Includes energy conservation, environmental impact, energy-source alternatives, changing lifestyles, and personal use of solar energy. The relevant basic laws of physics and the scientific method are emphasized. Field trips and audiovisual presentations play important roles.

## PSY 2012 Introduction to Psychological Science SS (3) AS PSY

Introduction to the science of psychology for majors and nonmajors, presents theory and methods in broad survey of various areas of psychology including clinical, cognitive, developmental, health, industrial/organizational, social and neuropsychology.

## PSY 3017 Psychological Science II SS (3) AS PSY

PR: PSY 2012, psychology major or CI. Designed as an in-depth examination of the basic principles and concepts of psychological science. Extensive coverage will be given to the areas of learning, perception, physiological psychology, and cognition.

## PSY 3204 Psychological Statistics 6A QM (3) AS PSY

PR: PSY 2012. Introduction to analyzing psychological data, in the context of behavioral research. Covers basic research design,

descriptive statistics, analysis procedures, use of computer analysis packages, interpretation of outputs, and implications for research.

## PSY 3213 Research Methods in Psychology (4) AS PSY

PR: PSY 2012 with a grade of C or better or CI. This course considers the logic of experimental design, concept of control and the analysis of experimentally obtained data. The laboratory section provides experience applying the concepts discussed in lecture. Two lectures plus two-hour lab.

## PSY 4205 Experimental Design and Analysis (3) AS PSY

PR: PSY 3213 with grade of C or better or CI. Detailed coverage of those research designs and statistical techniques having the greatest utility for research problems in psychology. Emphasis on topics from analysis of variance.

## PSY 4604 History and Systems of Psychology (3) AS PSY

PR: PSY 3213 with a grade of C or better or CI. The historical roots of modern psychological theories, investigation of the various schools of psychology such as behaviorism, Gestalt psychology, psychoanalysis, and phenomenological psychology.

## PSY 4913 Directed Study (1-3) AS PSY

PR: PSY 3213. S/U only. A maximum of 3 credits of either PSY 4913 or PSY 4970 may count toward the major. The student plans and conducts an individual research project or program of directed readings under the supervision of a faculty member. S/U only.

## PSY 4931 Selected Topics: Seminar (3) AS PSY

PR: PSY 3213 with a grade of C or better. Upper-level standing, psychology major and CI. Graduate-type seminar designed to provide the advanced undergraduate student with an in-depth understanding of a selected sub-area within psychology.

## PSY 4932 Honors Seminar (3) AS PSY

PR: PSY 3213 with a grade of C or better, admission to honors program in psychology and CI. A maximum of 3 credits of either PSY 4913 or PSY 4970 may count toward the major. The student, under supervision of a faculty member, will complete a thesis project.

## PSY 4933 Advanced Topics in Applied Behavior Analysis (4) AS PSY

PR: EXP 4404 and CLP 4414. Restricted to Psychology majors admitted to the Concentration in Applied Behavioral Analysis. Advanced seminar in the effective and ethical application of behavior analysis to human problems. Includes theoretical and conceptual issues; assessment and treatment procedures; legal, ethical and socio-cultural issues.

## PSY 4970 Honors Thesis (1-3) AS PSY

PR: PSY 3213 with a grade of C or better, admission to honors program in psychology and CI. A maximum of 3 credits of either PSY 4913 or PSY 4970 may count toward the major. The student, under supervision of a faculty member, will complete a thesis project.

## PUP 4002 Public Policy (3) AS POL

Examines the formation and implementation of public policy in areas such as the economy, health, etc.

## PUP 4203 Environmental Politics and Policy (3) AS POL

Examines the politics of environmental issues, formation and implementation of environmental policy.

## PUP 4323 Women and Politics 6A MW (3) AS WST

An analysis of the impact of gender on power and influence in American society, and women's changing role in the political process.

## PUP 5607 Public Policy and Health Care (3) AS POL

The study of health care policy as it relates to the policy process in the American setting.

## PUR 3000 Principles of Public Relations (3) AS COM

PR: MMC 2100 and MMC 3602. The underlying theory and professional practice of public relations within corporate and institutional structures and its vital role in society; ethical standards of practice, and relationships of the practice to the public media; public relations problem-solving process.

## PUR 3500 Public Relations Research (3) AS COM

PR: PUR 3000 and LIS 2005. The theory and practice of quantitative and qualitative research methods as applicable to the study of public relations and public relations campaigns. Emphasis is on the scope of research methods available to public relations practitioners, evaluation of data and report writing.

## PUR 4100 Writing For Public Relations (3) AS COM

PR: JOU 2100 and PUR 3000. Techniques for creating effective written public relations communications to achieve organizational goals, including news releases, proposal letters, broadcast scripts, and memos. Exercises based on case study scenarios.

## PUR 4101 Public Relations Design and Production (3) AS COM

PR: PUR 3000. Theoretical and practical applications of design for public relations publications. Design software. Study of visual design, page architecture, typography, color and illustrations.

## 332 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

Integration of design elements in the design of different types of public relations publications.

### **PUR 4401 Public Relations: Issues, Practices and Problems (3) AS COM**

PR: PUR 3000. The theory of public relations practice and its application in the real world. The role of the public relations practitioner in business, government, and social institutions, and the nature of specialized areas of the practice. Identification of public issues, analysis of potential impact on organizations and development of strategies to deal with them successfully and responsibly. Communication techniques and trends.

### **PUR 4700 Public Relations Practicum (1) AS COM**

PR: Senior standing and CI. For public relations sequence majors. S/U. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.

### **PUR 4801 Advanced Public Relations (3) AS COM**

PR: PUR 3500, PUR 4100 and PUR 4401 As final course in Public Relations sequence, it involves intensive study of counseling and problem-solving techniques used in professional practice. Analysis of case studies and preparation of complete Public Relations program. Extensive reading in the literature of contemporary practice.

### **PUR 5505 Introduction to Strategic Communication Theory and Practice (3) AS COM**

The course is designed to act as a "bridge" between undergraduate and graduate public relations and advertising education, and between professional communication practices and strategic communication scholarship.

### **QMB 2100 Business And Economic Statistics I 6A QM (3) BA QMB**

PR: MAC 1105. Data description; exploratory data analysis; introduction to probability; binomial and normal distributions; sampling distributions; estimation with confidence intervals; tests of hypotheses; control charts for quality improvement.

### **QMB 3200 Business And Economic Statistics II (3) BA QMB**

PR: MAC 2233 or MAC 2241, QMB 2100. Simple linear regression and correlation; multiple regression and model building; forecasting models; analysis of variance; chi-square tests; nonparametric methods.

### **RCS 3030 Rehabilitation Counseling Issues in Alcoholism and Other Addictions (3) AS REH**

PR: CI. An overview of alcohol and other drug abuse. Explores the extent and rate of abuse in the United States, causes, biology, psychosocial aspects, legal aspects, and treatment.

### **RCS 4931 Selected Topics in Counseling Professions (3) AS REH**

Provides an overview of counseling professions including current issues, standards of practice, and future trends. Will cover legal and ethical and professional issues.

### **RCS 5035 Rehabilitation Counseling: Concepts and Applications (3) AS REH**

PR: CC. Introduction to the profession of Rehabilitation Counseling and current issues in the field. Coverage includes rehabilitation history, legislation, case management and related services for Americans with disabilities.

### **RCS 5080 Medical Aspects of Disability (3) AS REH**

PR: RCS 5780 or CP. A survey of medical conditions and disabilities encountered by rehabilitation and mental health counselors. Examines the relationship of client handicaps, physical and mental, to rehabilitation and mental health programming.

### **RCS 5450 Substance Abuse I (3) AS REH**

PR: CI. An overview of alcohol and other drug abuse. Explores the extent and rate of abuse in the United States, causes, biology, psychosocial aspects, legal aspects, and treatment.

### **RCS 5780 Legal, Ethical, Professional Standards and Issues in Counseling (3) AS REH**

PR: CC. An overview of all aspects of professional functioning including history, roles, organizational structures, ethics, standards and credentialing. Contemporary and developing issues in the field of professional counseling will also be addressed.

### **RCS 5905 Directed Studies (1-4) AS REH**

PR: CI. Supervised rehabilitation studies under the direction of a faculty member.

### **REA 1205 Advanced Reading (3) US REA**

This course focuses on a broad array of reading strategies to help students enhance comprehension skills as well as develop the fundamentals of critical analysis through the application of a strategic-reflective reading model.

### **REA 1305 Reading Lab (1) US REA**

The focus is on the development of a systematic approach for increasing reading comprehension, rate, and vocabulary as well as adjusting rate and technique to adapt to a variety of materials and purposes. Open to all students; repeatable up to 3 credits.

### **REA 1605 Advanced Learning Systems (2) US REA**

To explore the most recent advances in learning theory systems and then learn to apply that knowledge to understanding individual learning preferences, analyzing task demands, and intentionally selecting effective strategies for each learning challenge.

### **REA 2105 Critical Reading and Writing 6A (3) US REA**

This course helps students develop the fundamentals of reflective and critical reading and on effective analytical writing utilizing multiple sources from various disciplines. The course meets the criteria for Gordon Rule writing requirements.

### **REA 2505 Vocabulary (3) AS ENG**

A practical course in rapid vocabulary improvement for students in all areas. Stress is on words in context. Will not be counted toward the English major.

### **REA 2604 Strategic Learning (1) US REA**

For students in academic difficulty, this course introduces students to advanced learning system used to understand individual learning preferences, analyze task demands, and then intentionally select effective strategies for each learning challenge.

### **REA 2930 Selected Topics (1-4) US REA**

Topics will vary to meet the needs of students. Will not be counted toward the English major.

### **RED 4310 Reading and Learning to Read (3) ED EDE**

PR: Admission to College of Education. This course will prepare pre-service teachers to understand the foundations of reading and the inherent learning principles to produce successful readers. The course focuses on appropriate instructional strategies to enhance reading development and reading across the curriculum.

### **RED 4511 Linking Literacy Assessment to Instruction (3) ED EDR**

PR: RED 4310. This course will prepare pre-service teachers to use multiple assessment measures to assess and diagnose students' strengths and needs in literacy learning. Based on individual student profiles, teachers will design instruction to enhance literacy development.

### **REE 3043 Real Estate Decision Making (3) BA FIN**

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

### **REE 4303 Real Estate Investment Analysis (3) BA FIN**

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

### **REL 2210 Hebrew Bible/Old Testament (4) AS REL**

An introduction to the critical study of the Hebrew Scriptures against the background of the ancient Near East, with attention to the history and religion of the Hebrew people.

### **REL 2240 Introduction to the New Testament (4) AS REL**

An introduction to the critical study of the New Testament in the context of Christian beginnings in the first century C.E. This will include readings from the Apocrypha, other Gospels, and letters.

### **REL 2300 Introduction to World Religions HP SS (4) AS REL**

This course is an introduction to the world's major religions. Students are exposed to myths, rituals, history, primary beliefs, leaders, and other information germane to understanding each religion. Open to majors and non-majors.

### **REL 2306 Contemporary World Religions HP (4) AS REL**

This course will explore the unity and diversity of religious traditions in our contemporary global context in order to understand the mutual interactions between religions and cultures. Emphasis will be placed on the role of religions in shaping human values which can either create or resolve social conflicts, and the impact these values can have on issues of race, ethnicity and religious diversity in a multicultural world.

### **REL 3000 Ancient Religions in Context (4) AS REL**

Study of the religions in their cultural setting of the peoples of the Ancient Middle East and Mediterranean.

### **REL 3003 Introduction to Religious Studies (4) AS REL**

This course introduces students to the academic study of religion. Religious thought and behavior are examined from a variety of

methodological perspectives. Restricted to majors and minors. Required for the major and the minor in Religious Studies.

**REL 3014 Introduction to Major Religious Texts (3) AS REL**

The course provides an introduction to the study of some of the foundational texts of selected religious traditions by focusing on reading and interpretative strategies in order to understand the central beliefs and practices presented in these texts.

**REL 3101 Religion and Popular Culture SS HP (3) AS REL**

An exploration and analysis of the relationship between religion and popular culture, which will include inquiry into the definition and meaning of both religion and popular culture, the impact of secularization on traditional religious systems, and the widely diverse expressions of religion in contemporary popular culture.

**REL 3111 The Religious Quest in Contemporary Films 6A SS HP (4) AS REL**

This course will use contemporary films such as Gandhi, Malcolm X, the Long Walk Home, the Color Purple, the Leap of Faith, the Chosen, and Grand Canyon, to explore the personal and social dimensions of religion in modern secular societies, with an emphasis on issues of racism, sexism and human liberation and reconciliation.

**REL 3114 Comedy, Tragedy, and Religion 6A MW (3) AS REL**

Examines the visions of life in comedy and tragedy, and relates both to Judaism, Christianity, and Zen Buddhism.

**REL 3116 Religion and Contemporary American Holidays HP SS (3) AS REL**

Introduces students to the academic study of religion through an exploration of issues and questions related to the character and function of holidays in contemporary America. Open to majors and non-majors.

**REL 3117 Religion and Contemporary American Sports HP SS (3) AS REL**

This course explores the function of sports in America. It covers the history of sports; the status of American sports; and sports as religious events. The course is open to majors and nonmajors and is not repeatable for credit.

**REL 3120 Religion in America (3) AS REL**

To examine the movement from state church to pluralism in American religious institutions, the religious results of non-Protestant immigration; the Jewish factor; the effect of home missions and social concern programs upon American life; political entanglements and the concept of church/state separation.

**REL 3131 New Religions in America (3) AS REL**

A course designed to allow the student to survey the wide spectrum of contemporary sects and cults in America and learn what motivates their development.

**REL 3132 Witchcraft and Paganism in America (3) AS REL**

A study of contemporary witchcraft and paganism, including theories, methods, history, myths and symbols, beliefs, rituals and practices, believers, recruitment, socialization, and organizations.

**REL 3140 Religion, Culture, and Society (3) AS REL**

Introductory scholarly survey of religion in its complex relationship to culture and society, including definitions and theories of religion, research methods, becoming religious, social organization, and interconnections with other social institutions. Open to non majors.

**REL 3145 Women and Religion 6A (3) AS REL**

Analysis of the status and roles of women as compared to men in the Judeo-Christian tradition. Contemporary issues of feminist theology, and the controversies surrounding them.

**REL 3146 Womanist Vision in Religion MW (3) AS REL**

This course examines the works of Black Womanist writers in religion for their contributions to and insights into the phenomena of religion in America and the world.

**REL 3170 Religion, Ethics and Society Through Film 6A SS HP (4) AS REL**

An ethical analysis of contemporary social issues through contemporary films such as Wall Street and Crimes and Misdemeanors, drawing on religious narrative traditions from Eastern and Western cultures which have contributed to the development of an ethic of human dignity, human rights and human liberation after Auschwitz and Hiroshima.

**REL 3191 Life After Death MW (4) AS REL**

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

**REL 3208 Biblical Archaeology MW (3) AS REL**

An in depth examination of the archaeological data relating to the background and content of the Bible, including ancient customs, Biblical sites and cities, Biblical history, and material culture of the Biblical period. Special attention will also be given to excavation methods and interpretation of archaeological evidence.

**REL 3303 Comparative Religion: Judaism and Islam MW (4) AS REL**

This course is framed within the academic study of religion, and it does not concern itself with contemporary political difference in the Middle East. It treats as Islam the normative statements of the Quran and related traditions, and as Judaism the authoritative statements of the Torah, oral and written.

**REL 3308 World Religions 6A HP SS (3) AS REL**

World Religions gives students an overview of the major religions of the world from their origins through the modern period. Special attention is given to the analysis of myths, rituals, history, and other features of the religions.

**REL 3318 Introduction to Chinese Religion AF HP SS (3) AS REL**

The course is for majors and nonmajors, and may not be repeated for credit. The course introduces the history and present state of the religious thoughts and practices in mainland China and the geographical areas in which the Chinese language is spoken.

**REL 3330 Religions of South Asia AF (3) AS REL**

All religions of the world came to India and all became Indian. What is this "Indianness" which stems from Hinduism, Buddhism, Jainism and Sikhism, but extended itself to include Judaism, Christianity, Islam, Zoroastrianism and Baha'i. Readings from classical texts and modern literature.

**REL 3335 Gods and Goddesses of India (3) AS REL**

This course explores the ways Hindus see, speak about, and encounter the Divine through an examination of the multitude of stories about the gods and goddesses and their various physical manifestations in the sacred geography of India.

**REL 3340 Buddhism Truths and Paths (3) AS REL**

This course provides an historical survey of Buddhist religion from its inception through today by focusing on the life and teachings of the historical Buddha, doctrinal development, the various denominations, and canon formation.

**REL 3363 Introduction to Islam HP AF (3) AS REL**

This course introduces the basic elements of Islamic belief and practice, placing the rise of Islam in its historical context in the Middle East, and stressing issues of diversity (including ethnicity and gender).

**REL 3367 Islam in the Modern World 6A HP AF (3) AS REL**

Examines the major developments in Islamic thought since the 13th century, with emphasis on the 19th and 20th century Islamic resurgence. Issues of diversity, gender, and social values will be stressed.

**REL 3375 Issues in Caribbean Religions MW (3) AS REL**

This course concentrates on major social and cultural issues in Caribbean religions mainly in Cuba, Haiti, Jamaica, and Trinidad, with emphasis on African-derived religions and Western and Eastern religious encounters.

**REL 3380 Native American Religions (3) AS REL**

Introduction to and survey of Native American Religions. A variety of multiplicity of perspectives, including anthropological, historical, social psychological, sociological, and philosophical.

**REL 3391 In Search of the Goddess AF HP SS (3) AS REL**

This course explores Goddess religion/sacred Feminine, from prehistory, to the pagan Near East and Mediterranean, Western monotheistic religions, pluralistic religions of the East, and revivals of Goddess spirituality in contemporary Europe/N. America.

**REL 3420 Contemporary Religious Thought (3) AS REL**

An examination of the central ideas of recent religious thinkers; such as Gandhi, Martin Luther King, Jr., Elie Wiesel, Thich Nhat Hanh, Dorothy Day, Dorothee Soelle, Howard Thurman, Thomas Merton and others.

**REL 3465 Religion and the Meaning of Life 6A MW (3) AS REL**

What is the meaning of life? An exploration of answers to this question in Eastern and Western religions, and in humanistic philosophies of life.

**REL 3500 History of Christianity 6A HP (4) AS REL**

Historical development of Western Christianity, its ideas and institutions, from the first century to the rise of religious modernism in the 19th century.

**REL 3561 Roman Catholicism 6A MW (3) AS REL**

An examination of the history, doctrine, and ethics of the Roman Catholic Church.

**REL 3602 Classics of Judaism 6A MW (3) AS REL**

PR: One course in Religious Studies. How to read the principal documents of Judaism beyond the Hebrew Bible, including the Mishnah, Talmuds, Midrash, and classics of philosophy, mysticism, and theology through the modern period.

**REL 3607 Introduction to Judaism 6A SS HP AF (3) AS REL**

An introduction to Judaism: its religious tenets; its codes of ethics; its rites and customs. This course is intended as a description of what it means to be a Jew.

## 334 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

### REL 3611 History of Judaism (4) AS REL

A study of the evolution of the religion of ancient Israel from the Second Temple period to the end of the second century C.E., seen against the background of its historical, geographical, political, social and spiritual setting.

### REL 3613 Modern Judaism 6A MW LW (3) AS REL

A study of modern Jewish life and thought in the West, including the study of beliefs, practices, institutions, major thinkers, and intellectual trends.

### REL 3801 History of Writing (2) AS REL

Study, in reasonable detail, of the history and evolution of writing within its societal context. We will stress the development of writing in Mesopotamia, Egypt, and the Mediterranean World, looking at the transition from oral to written literature and its impact on religion.

### REL 3900 Directed Readings (1-4) AS REL

PR: CI. Individual guidance in concentrated reading on a selected topic.

### REL 3936 Selected Topics (1-4) AS REL

Course contents depend on students' needs.

### REL 4113 The Hero and Religion 6A MW (3) AS REL

A study of the way in which embedded religious models help to fashion the representation of an heroic protagonist. The focus of the course will be on the relationship between the hero and the "other," as differentiated by race, gender, ethnicity, or merely inner being.

### REL 4133 Mormonism in America MW (3) AS REL

A study of Mormonism in America as an example of a new religion. Includes the study of history, myths and symbols, texts, beliefs, rituals and practices, believers, recruitment, socialization, and organizations.

### REL 4161 Religion, Technology and Society (3) AS REL

An exploration of the way in which religion and technology have interacted in Western civilization so as to both express and transform human values and identity. Special emphasis will be given to the value questions raised by modern technology.

### REL 4171 Contemporary Christian Ethics 6A MW (4) AS REL

PR: Jr. standing or CI. A survey of representative approaches to contemporary Christian ethics and their application to a number of ethical issues peculiar to personal and social life in contemporary society, with an emphasis on issues of race and gender and of violence and non-violence.

### REL 4177 Comparative Religious Ethics 6A MW LW (4) AS REL

A comparative study of religious ethics emphasizing how 20th century social activists, such as Ghandi and M. L. King Jr. and eco-feminists such as Rosemary Ruether and Joanna Macy, have drawn upon and transformed traditional religious stories and spiritual practices in order to create a cross-cultural and inter-religious ethic for a multi-cultural world.

### REL 4193 Comparative Mysticism (4) AS REL

A course designed to acquaint the student with the nature of mystical experience, and some of the varieties of mystical experience recorded in the writings of the mystics, East and West.

### REL 4215 Ancient Israel and the Development of the Hebrew Bible 6A HP AF MW LW (3) AS REL

An exploration of the formation and composition of the Hebrew Bible in light of the religious, social, political, and historical developments in antiquity.

### REL 4217 Who Wrote the Bible (Genesis-Kings) 6A MW LW (4) AS REL

A critical examination of Genesis through 2 Kings. This course focuses on the history of the formation of the text and the development of the religious traditions represented therein. Special attention will be paid to Israelite Law, Covenant Theology, and the history of the religion(s) of the Children of Israel in their Ancient Near Eastern context.

### REL 4218 Women and the Bible 6A HP AF MW LW (3) AS REL

How the redactors of Genesis through 2 Kings viewed women; the role women played in the society of the time in which they are portrayed and in that of the redactors; and, an attempt to find the "women's voices," however muted, within the biblical text.

### REL 4245 New Testament I: Gospels, Acts (4) AS REL

An exploration of the Gospels and Acts, including their backgrounds in Judaism and Greco-Roman religion, literary and form criticism, historical Jesus research, and the social history of earliest Christianity.

### REL 4250 Jesus' Life and Teachings (4) AS REL

An examination of the various historical studies made in the quest of identifying Jesus as an historical figure. The concern is to make a reasonable assessment of who Jesus was and what he was saying to the Jews in Palestine at the beginning of the common era.

### REL 4252 New Testament II: Pauline Letters (4) AS REL

An examination of the text of the thirteen "Pauline Letters" in the New Testament, comparing them with the Pauline sections of Acts, and ascertaining possible theological development of Paul and the "Pauline wing" of Christianity.

### REL 4333 Hindu Texts and Contexts (3) AS REL

PR: REL 3330 or similar course focusing on Hinduism; consult instructor. An in-depth of the classical texts of the Hindu Tradition. We will examine religious, philosophical, ethical, ritual, and mythological themes presented in these texts in order to gain a deeper understanding to the larger tradition we call "Hinduism".

### REL 4343 Buddhism in India, Sri Lanka, and South East Asia (4) AS REL

The life and teachings of the Buddha; the order of monks and nuns; the Buddhist Emperor Ashoka; schisms; the rise of the Great Vehicle and the philosophy of emptiness; Buddhist missions; Buddhist art and culture; Buddhism and national liberation; contemporary social and political issues.

### REL 4344 Buddhism in China, Japan, and Tibet (4) AS REL

Mahayana Buddhism followed the silk routes to China and Japan, and later it crossed the Himalayas into Tibet. An overview of the variety of schools and practices of Buddhism and its adaptation by these ancient cultures.

### REL 4626 Reason in Religion: Talmudic Logic MW (3) AS REL

Analyzes the modes of thought and of logical analysis of the Talmud of Babylonia; the way in which applied logic and practical reason work in a religious definition of the social order; the dialectical argument.

### REL 4670 Judaism and Christianity After the Holocaust 6A MW LW (4) AS REL

This course will explore the impact of the Holocaust on Jewish and Christian thought and identity in the light of the history of religious and cultural anti-Semitism in Western civilization.

### REL 4910 Undergraduate Research (1-4) AS REL

PR: Junior standing and CI. Individual investigations with faculty supervision.

### REL 4911 Undergraduate Research (1-4) AS REL

PR: Junior standing and CI. Individual investigations with faculty supervision.

### REL 4930 Selected Topics (3) AS REL

Course contents depend on student demand and instructor's interest and may range over the whole field of Ancient Religions. Offerings on a semi-regular basis include the Bible as History 3.

### REL 4931 Seminar in Religion (3) AS REL

PR: Majors and minors only or CI A course required for Religious Studies majors and minors, whose prior religious studies have prepared them for a cooperative creative and/or research effort in the area of religion.

### REL 4936 Selected Topics (1-4) AS REL

PR: Junior standing. Individual investigations with faculty supervision.

### REL 4937 Selected Topics: Fall Honors Seminar (3) AS REL

PR: Acceptance into the Religious Studies Honors Program. The course content will depend upon student demand and instructor's interest.

### REL 4938 Selected Topics: Spring Honors Seminar (2) AS REL

PR: Acceptance into the Religious Studies Honors Program. The course content will depend upon student demand and instructor's interest.

### REL 4939 The Development of Religious Studies (4) AS REL

Course designed for senior majors and minors in religious studies. Discussion of key figures and methodological advances in the development of the field from the 18th century to present, with readings of classics in the development.

### RMI 3011 Principles of Insurance (3) BA FIN

Analysis of insurable risks of both businesses and individuals. An examination of the characteristics of those areas of risk and uncertainty where the mechanisms of insurance are effective alternatives. The concept, contracts, and institutions involved in insurance are examined in relation to the socio-economic environment.

### RMI 4115 Life, Health, And Disability Insurance (3) BA FIN

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

### RMI 4210 Property Insurance (3) BA FIN

PR: RMI 3011. Course dealing with recognition of personal and business property risks, and coverage that can be used in dealing with these risks. Considers the underwriting, marketing, and social

problems associated with these coverages. Topics include commercial and residential fire insurance, inland marine and transportation coverages, and multiperil contracts. Not limited to Finance majors.

**RMI 4220 Casualty Insurance (3) BA FIN**

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

**RTV 2100 Writing For Radio and TV (3) AS COM**

PR: CRW 2100 or ENC 3310 and RTV 3001. The art and practice of script planning and writing for radio and television and for corporate videos.

**RTV 3001 Introduction to Telecommunications (3) AS COM**

PR: MMC 2100 and MMC 3602. A survey of the organization, structure, and function of the broadcasting industry.

**RTV 3301 Broadcast News (4) AS COM**

PR: MMC 2100 and MMC 3602. Methods in gathering, writing, and editing newscasts for radio and television.

**RTV 3941 Radio Practicum (1) AS COM**

PR: RTV 3001 and CI. For telecommunications sequence majors. S/U only. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.

**RTV 4220 TV Production and Direction (3) AS COM**

PR: RTV 3001 and RTV 3301. A basic course in the techniques of producing and directing TV programs. Restricted to majors only.

**RTV 4304 TV News (3) AS COM**

PR: RTV 4320. Advanced television reporting, integrating broadcast news writing, ENG production and television performance.

**RTV 4320 Electronic Field Production (3) AS COM**

PR: RTV 3001 and RTV 3301. Advanced producing, scripting, lighting, camera, and editing for video and news production. Introduction to computer editing and graphics.

**RTV 4500 Telecommunications Programming and Management (3) AS COM**

PR: RTV 3001. Program and management concepts, resources, costs, selection, and scheduling. Analysis of programming and management in terms of structures, appeals and strengths.

**RTV 4942 TV Practicum (1) AS COM**

PR: RTV 4220 and CI. For telecommunications sequence majors. S/U only. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.

**RUS 1120 Beginning Russian I (4) AS WLE**

CR: RUS 1120L. The first course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading.

**RUS 1120L Beginning Russian I Laboratory (1) AS WLE**

CR: RUS 1120. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

**RUS 1121 Beginning Russian II (4) AS WLE**

PR: RUS 1120 or CI. CR: RUS 1121L. The second course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading.

**RUS 1121L Beginning Russian II Laboratory (1) AS WLE**

CR: RUS 1121. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

**RUS 2220 Russian III (4) AS WLE**

PR: First year Russian or equivalent. Review and development of basic skills in conversation, composition, and reading.

**RUS 2221 Russian IV (4) AS WLE**

PR: RUS 2220 or equivalent. Review and development of basic skills in conversation, composition, and reading.

**RUS 2270 Overseas Study (1-6) AS WLE**

Intensive study of the Russian language in Russia involving at least 20 hours per week of classroom instruction and cultural excursions conducted in Russian around Moscow and other parts of Russia.

**RUS 3240 Conversation I (4) AS WLE**

PR: Second year Russian or equivalent. Development of basic conversational skills.

**RUS 3470 Overseas Study (1-6) AS WLE**

Must be enrolled in the USF Summer Study in Moscow program. Two years Russian required. Intensive Russian at Moscow

Linguistic University with excursions in Moscow and Russia. Students from other institutions eligible.

**RUS 3500 Russian Civilization 6A MW (3) AS WLE**

A survey of the cultural history of Russia.

**RUS 4241 Conversation II (4) AS WLE**

PR: Previous course in series or equivalent. Development of conversational skills.

**RUS 4402 Advanced Russian Conversation & Composition I (4) AS WLE**

PR: RUS 4241 or CI. Third year Russian.

**RUS 4403 Advanced Russian Conversation & Composition II (4) AS WLE**

PR: RUS 4241 or CI. Third year Russian.

**RUS 4471 Advanced Overseas Study (1-6) AS WLE**

Must be enrolled in the USF Summer Study in Moscow program. Three years Russian required. Intensive Russian at Moscow Linguistic University with excursions in Moscow and Russia. Students from other institutions eligible.

**RUS 4900 Selected Topics (1-3) AS WLE**

Study of an author, movement or theme.

**RUS 4905 Directed Study (1-3) AS WLE**

Departmental approval required.

**RUT 3110 Russian Classics in English 6A MW LW (3) AS WLE**

Masterpieces of 19th century Russian literature in English. The major works of Pushkin, Lermontov, Gogol, Turgenev, Dostoevsky, Tolstoy, and Chekhov. Elective for all students in all departments.

**RUT 3111 Twentieth-Century Russian Literature in English 6A MW LW (3) AS WLE**

Masterpieces of 20th century Soviet literature in English. The major works of Bely, Olesha, Babel, Zamyatin, Bulgakov, Pasternak, and Solzhenitzyn. Elective for all students in all departments.

**SCE 4305 Communication Skills in the Science Classroom (3) EDEDN**

Reading and communication skills important in understanding scientific and science education literature and communicating findings to others.

**SCE 4310 Teaching Elementary School Science (3) ED EDE**

PR: Admission to College of Education and completion of General Distribution Requirements in the Natural Science area. Techniques and materials for teaching science in the elementary school.

**SCE 4320 Teaching Methods in Middle Grade Science (3) ED EDN**

PR: Completion of 25 semester hours of Science or CC. Not designed for high school certification purposes. Survey techniques and materials unique to science, grades 5-9.

**SCE 4330 Teaching Methods in the Secondary School-Sciences (3) EDEDN**

PR: Completion of 26 hours in approved science areas, EDG 4620 or CP, and CC. Techniques and materials of instruction in secondary school sciences.

**SCE 4863 Science, Technology, Society Interaction 6A MW (4) EDEDN**

Achieve an historical and philosophical understanding of (1) the nature of the scientific enterprise: interaction of science, technology, and society (STS); (2) how to teach STS including the use of computers and related technologies, and (3) intricacies of sample STS topics.

**SCE 4936 Senior Seminar in Science Education (1-3) ED EDN**

PR: Senior standing; CR: SCE 4940. Synthesis of teacher candidate's courses in complete college program.

**SCE 4940 Internship: Science Education (1-12) ED EDN**

CR: SCE 4936. One full semester of internship in a public or private school.

**SCE 5325 Methods of Middle Grades Science Education (3) ED EDN**

PR: 18 sem hrs in science, meeting FL content standards for middle grades general science. Prepare 5-9 sci teachers to teach sci skills, content; interrelationship, applications of sci as a human endeavor; nature of sci; instructional methods; nature scientific inquiry; development of sci process skills; integration of subj areas; & assessment.

**SCE 5337 Methods of Secondary Science Education (3) ED EDN**

Course concentrates on goals, subject matter teaching strategies for high school curricula; assessment and using data to improve student achievement; and development pedagogical content knowledge as it pertains to the teaching and learning of science.

**SCE 5564 Reading and Communication in Science Education (3) EDEDN**

This course prepares secondary science teachers to teach literacy practices in science. It includes methods for selecting appropriate reading and language approaches. Communication in science and functional aspects of scientific literacy are examined.

## 336 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

### **SCE 5937 Selected Topics in Science Education (1-4) ED EDN** **SLS 1101 The University Experience (1-2) US DEA**

PR: Freshman only. An extended introduction to USF. Topics include purposes of higher education, structure and function of USF, career planning, selecting a major, study skills, managing time, academic advising, computer resources, and decision-making.

### **SLS 2260 Leadership Fundamentals (3) US STL**

Covers a broad range of leadership topics from self-development and understanding of self, to group behavior, organizational design, ethics and teamwork. The potential of every individual to develop effective leadership skills is examined.

### **SLS 2401 Career Development Process (2) US DEA**

Students will study vocational choice theories and participate in career decision processes. Development of self-awareness and knowledge of career opportunities and requirements necessary for decision making. Available to lower level majors or non-majors.

### **SLS 3930 Selected Topics in Student Leadership (1-4) US STL**

Course content will depend upon the interest of the faculty member and student demand.

### **SLS 3948 Community Leadership Practicum (3) US STL**

PR: SLS 2260, PR: SLS 4272. This course involves the transference of leadership theories into practice. It provides a practical forum for students to examine and develop personal leadership skills.

### **SLS 4271 Organizational Theories and Processes (3) US STL**

PR: SLS 2260 and SLS 4272. Participants will delve into the nature of organizational dynamics, they will utilize concepts, generalizations, theories, and frames of reference to analyze organizations and leadership to understand and improve their function.

### **SLS 4272 Survey of Leadership Readings (3) US STL**

PR: SLS 2260. Survey of historical and contemporary writings on leadership skills and practices. Examines the contextual manner in which the leader functions.

### **SLS 4273 Theories of Leadership HP (3) US STL**

PR: SLS 2260, PR: SLS 4272. Focuses on historical and modern views of leadership. It is designed to assist students analyzing and understanding the historical, social, political aspects of leadership theories and styles as well as the application of leadership theories in settings.

### **SLS 4274 Ethics and Power in Leadership (3) US STL**

PR: SLS 2260, SLS 4272. Course reviews arguments for ethics in leadership as proposed by both contemporary and ancient leadership theories. It also examines theories of power and authority, and seeks answers to the apparent dilemmas through applied moral theory and psychology.

### **SLS 4276 Images of Leadership in Print and Film (3) US STL**

PR: SLS 2260, PR: SLS 4272. This course examines the historical development of leadership theory through contemporary times. Surveys literature and other media relevant to role of the leader and to the development and application of leadership skills.

### **SOP 3742 Psychology of Women SS (3) AS WST**

An examination of theories of female personality in historical perspective. Current research on sex differences, socialization, sexuality, psychology of reproduction. Emerging roles of women as related to social change and developmental tasks of the life cycle.

### **SOP 4004 Social Psychology (3) AS PSY**

PR: PSY 3213 with a grade of C or better or CI. Survey of methods, empirical findings, and theoretical interpretations in the study of an individual's behavior as it is affected by others.

### **SOP 4330 Social Psychology of HIV/AIDS (3) AS PSY**

PR: PSY 2012, PSY 3017, PSY 3213 Students study social psychology theory and research while working at an AIDS service organization. They use the research as a framework for understanding, and developing solutions to, problems confronting the organization's staff and clients.

### **SOP 4514 The Holocaust, Social Prejudice, and Morality (3) AS PSY**

PR: PSY 2012. Examines the Holocaust from social, psychological, and communication/language perspectives. Reviews root causes of prejudice, the manifestations of hatred in language, relationships, and the ultimate impacts on victims and survivors and rescuers.

### **SOP 4714C Environmental Psychology (3) AS PSY**

PR: PSY 3213 with a grade of C or better or CI. Explores the influences of environment on behavior. Topics considered include crowding, privacy, territorial behavior, environmental design, and pollution effects. Designed for both psychology majors and non-majors.

### **SOW 3101 Human Behavior and the Social Environment I (4) AS SOK**

PR: All provisional major courses. Restricted to full Social Work majors, others by School permission. An integrating human behavior-social environment course emphasizing dynamics of behavior and environmental factors as they relate to social work practice with individuals, and families.

### **SOW 3102 Human Behavior And The Social Environment II (3) AS SOK**

PR: SOW 3101, SOW 4341, SOW 4522. Restricted to Full Social Work majors, others by School permission. An integrating course emphasizing dynamics of behavior and environmental factors as they relate to social work practice with families, groups, organizations and communities.

### **SOW 3203 Introduction to Social Work (3) AS SOK**

An introductory course tracing the development of social work as a profession including an examination of the knowledge, skill and attitudinal base of the profession and professional roles and functions.

### **SOW 3210 The American Social Welfare System SS (3) AS SOK**

A general education introductory course which provides students with a framework for understanding the historical development of American social welfare, its value base, and its response to minorities, women, children, the elderly, and the disabled.

### **SOW 3401 Research and Statistics For Social Work (3) AS SOK**

PR: SOW 3101, SOW 4343, SOW 4522. Restricted to Full Social Work majors, others by School permission. The purpose of this course is two-fold: to familiarize the student with research as it is practiced in the profession of Social Work; and to equip the student with those theoretical understandings necessary to be a critical consumer of social work research.

### **SOW 4233 Social Welfare: Policy & Program (3) AS SOK**

PR: All provisional major courses, SOW 3101, SOW 3401, SOW 4341, SOW 4522, SOW 3102, SOW 4343. CR: SOW 4510, SOW 4510L. Restricted to full Social Work majors, others by School permission. An advanced policy course taking an analytical approach to contemporary social welfare policy issues and current social welfare programs.

### **SOW 4341 Multi-Methods of Social Work Practice I: Micro-System Intervention (5) AS SOK**

PR or CR: SOW 3101; SOW 4522. All provisional major courses. Restricted to full Social Work majors; others by School permission. First practice course emphasizing development of skills and interventive methods with individuals, families and small groups. Course includes both didactic and experiential learning components.

### **SOW 4343 Multi-Methods of Social Work Practice II: Macro-System Intervention (5) AS SOK**

PR: All provisional major courses, SOW 3101, SOW 4522, SOW 4341; must be taken as PR. CR: SOW 3401, and SOW 3102. Restricted to full Social Work majors, others by School permission. Second practice course emphasizing intervention at the community and organizational level. Builds upon theoretical and practical content of SOW 4341. Course includes both didactic and experiential learning components.

### **SOW 4510 Integrative Seminar (3) AS SOK**

PR: SOW 3302, SOW 3210, SOW 3101, SOW 3401, SOW 4341, SOW 3102, SOW 4343, SOW 4522. CR: SOW 4233, SOW 4510L. Restricted to full Social Work majors in senior year. Integrates content and theory from core classes with practice experiences students are having in field placement.

### **SOW 4510L Field Placement (6) AS SOK**

PR: SOW 3302, SOW 3210, SOW 3101, SOW 3401, SOW 4341, SOW 3102, SOW 4522, SOW 4343. CR: SOW 4233, SOW 4510. S/U only. Supervised field placement in a social welfare organization consisting of 32 hours per week in the field with a total of 480 clock hours per semester.

### **SOW 4522 Multicultural America (3) AS SOK**

PR: All provisional major courses. The course focuses on the students' understanding of multicultural and intergenerational issues.

### **SOW 4900 Directed Readings (1-9) AS SOK**

PR: Completion of four social work courses including SOW 3401, upper level standing, and School permission. Content dependent upon student interest and ability. A contract will be jointly developed by student and instructor specifying nature of work to be completed.

### **SOW 4910 Directed Research (1-6) AS SOK**

PR: Completion of four social work courses including SOW 3401, upper level standing and school permission. Majors only. Directed Research is intended to provide students with research experience in areas of specific interest in social work. A contract will be developed between student and instructor specifying nature of work to be completed.

## **SOW 4930 Variable Topics in Social Work (1-3) AS SOK**

Restricted to Social Work majors; others by School permission. Variable title courses to expand on the four sequence areas in the Social Work core curriculum. Allows focus on areas relevant to student's educational interest.

## **SOW 5930C Selected Topics in Social Work (1-4) AS SOK**

PR: CC. Restricted to Social Work majors, both graduate and undergraduate; other by School permission. Course is taken as an elective. Various title course will selectively expand specific social work content areas.

## **SPA 2612C Basic American Sign Language (4) AS CSD**

PR: DPR. Introduction to American Sign Language (ASL) as used in the deaf community. General discussion of ASL structure and introduction to various manual communication systems and philosophies. Emphasis on building a basic vocabulary. One hour of laboratory course work is included. Open to all majors.

## **SPA 2613C Intermediate American Sign Language (4) AS CSD**

PR: SPA 2612C, DPR. A continuation of the basic course which expands the student's signing skills and introduces American Sign Language (ASL) idioms. Provides a greater opportunity for skill development in ASL structure and idiomatic usage. One hour of laboratory course work is included.

## **SPA 3002 Introduction to Disorders of Speech and Language SS (3) AS CSD**

PR: Junior standing and DPR. The scope of speech-language pathology as a profession and a field of study. An introduction to speech and language disorders, etiologies, major treatment approaches, and research findings.

## **SPA 3004 Introduction to Language Development and Disorders (3) AS CSD**

PR: SPA 3002, SPA 3112 or DPR. This course introduces theoretical concepts and research findings concerning the normal developmental process of language learning as a basis for differentiating developmental delay or disorder of language.

## **SPA 3011 Introduction to Speech Science (3) AS CSD**

PR: SPA 3030, SPA 3101 and SPA 3112. Concentrated study of the acoustic, physiological and perceptual aspects of sound as related to normal and pathological speech communication. Introduction to instrumentation and measurement procedures.

## **SPA 3030 Introduction to Hearing Science (3) AS CSD**

PR: Junior standing, SPA 3101, SPA 3112, SPA 3310. Introduction to the field of hearing including: physics of sound, auditory anatomy and physiology, and psychophysics of hearing.

## **SPA 3101 Anatomy and Physiology of the Speech and Hearing Mechanism (3) AS CSD**

PR: Junior standing. The neurological and anatomical basis of communication disorders. Comparisons of normal and pathological organic structures and their functional dynamics.

## **SPA 3112 Applied Phonetics in Communication Disorders (3) AS CSD**

PR: Junior standing. Introduction to phonetic analysis of normal and disordered speech, including extensive training in transcription using the International Phonetic Alphabet.

## **SPA 3310 Introduction to Disorders of Hearing (3) AS CSD**

PR: SPA 3030 and SPA 3101. The etiology, pathology, and management of disorders of the outer ear, middle ear, inner ear, retrocochlear, and central auditory systems.

## **SPA 3633 American Deaf Culture (3) AS CSD**

PR: SPA 4614C. An overview to American Deaf Culture, including its norms, values and belief systems. This course will also provide insight to deaf history in North America, and the importance of ASL to the culturally Deaf community.

## **SPA 3650 Fundamentals of Interpreting (3) AS CSD**

PR: SPA 4615C. An overview of the profession of interpreting, its standards and settings is provided. It provides a basic practical experience component of interpreting and transliterating skills.

## **SPA 3653 Overview of Language Learning in Deaf Children (3) AS CSD**

PR: Admission to ITT Program. CR: SPA 3653L. This course is restricted to majors only. Overview of language development of deaf children from infancy through young adulthood, including various theories of language development in the deaf and communication/language of the deaf assessment techniques, and interpreting skills relating to learning processes.

## **SPA 3653L Overview of Language Learning in Deaf Children Lab (1) AS CSD**

PR: Admission to ITT Program. CR: SPA 3653. This course is restricted to majors only. An exploration and overview of communication modes and language used in public school settings by deaf children. Includes a study of how systems overlap and a development of flexibility in using different modes and languages, and the implications for interpreters.

## **SPA 3664 Language and Cognitive Processing Skills in English (4) AS CSD**

PR: SPA 4615C; CR: SPA 3665. Students develop the cognitive processing and language skills within English that are preliminary steps for interpretation. It will develop student's ability to segment information to perform various cognitive tasks intralingually. For Majors only.

## **SPA 3665 Language and Cognitive Skills in ASL (4) AS CSD**

PR: SPA 4615C; CR: SPA 3664. Students acquire cognitive processing and language development within ASL that are preliminary steps for performing simultaneous interpretation. This course also includes a service component by volunteering in various deaf communities. For majors only.

## **SPA 3666 Translation from English and from ASL (3) AS CSD**

PR: SPA 3664, SPA 3665. A course of intralingual language exercises that introduces students to and provides practice in techniques of rephrasing and restructuring meaning in ASL and in English. For majors only.

## **SPA 3673 Introduction to Auditory Functions (3) AS CSD**

PR: Admission to ITT Program. This course is restricted to majors. An overview of hearing science and speech science relating to the educational environment. This course orients the student to the variables extent in oral-aural communication among children who have hearing impairment. It addresses techniques and methods of hearing measurement and amplification of sound as well as the interpreter's role in audiological evaluation and speech language therapy.

## **SPA 4000 Communication Disorders in the Public Schools (3) AS CSD**

PR: DPR. (Non-major course only). An examination of the speech, language and hearing problems affecting school-age children and the classroom teacher's role in the detection, prevention and amelioration of communication disorders.

## **SPA 4050 Introduction to the Clinical Process MW (3) AS CSD**

PR: SPA 3004 and SPA 3310. Observation and participation in speech-language pathology and audiology practicum in the University clinical laboratory. Ethical issues, multicultural concerns, and creativity are stressed through clinical and practical projects.

## **SPA 4201 Phonological Development and Disorders (3) AS CSD**

PR: SPA 3004, SPA 3011. An examination of normal and deviant articulatory and phonological acquisition and behavior. Presentation of major theoretical orientations and the therapeutic principles based upon them.

## **SPA 4210 Vocal Disorders (3) AS CSD**

PR: SPA 3011 and SPA 3310. A comprehensive study of the medical and physical aspects of voice disorders. Differential diagnosis, principles of therapeutic intervention, and procedures for children and adults will be stressed.

## **SPA 4222 Fluency Disorders (3) AS CSD**

PR: SPA 4201. A comprehensive study of disfluent speech behavior. Differential diagnosis, principles of therapeutic intervention, and procedures for children and adults will be studied. Major theories and models of the development and origin of stuttering are also presented.

## **SPA 4335 Sign Language Codes (3) AS CSD**

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

## **SPA 4555 Counseling of Communicatively Handicapped and Family (3) AS CSD**

PR: SPA 3011 and SPA 3310. Discussion of role of counseling in the treatment of communication disorders. Based on exploration of theoretical constructs, this course demonstrates application of therapeutic methodologies to reduction of communication handicaps.

## **SPA 4614C Advanced American Sign Language (4) AS CSD**

PR: SPA 2613C, DPR. A continuation of the study of American Sign Language (ASL) at the advanced skill level. Added emphasis on idioms, body language, and facial expression as an integral part of ASL. An hour of laboratory course work is included.

## **SPA 4615C American Sign Language 4 (4) AS CSD**

PR: SPA 4614C. This course is a continuation of the study of American Sign Language (ASL) at the highly advanced level. It provides added emphasis on skill development of the language, including storytelling and poetry. One-hour laboratory course work is included.

## **SPA 4617C Structure of Sign Language (4) AS CSD**

PR: SPA 2612C and SPA 2613C. This course is a basic introduction of semiotic and linguistic consideration of American Sign Language (ASL). It includes aspects of phonology, morphology, syntax,

## 338 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

semantics, and discourse of ASL. A one-hour laboratory is incorporated into the coursework.

### **SPA 4624 Sign Language Codes (3) AS CSD**

PR: CI. A review of the sign systems (SEE I, SEE II, LOVE, and Signed English) used to code messages through the use of sign. The student will have the opportunity to practice one of the sign systems.

### **SPA 4626 Fundamentals of Fingerspelling (2) AS CSD**

PR: DPR. A concentrated study of technique in fingerspelling emphasizing clarity and rhythm in expression as well as receptive understanding.

### **SPA 4632 Nature and Needs of the Deaf and Hard of Hearing (3) AS CSD**

A study of the effects of auditory disorders upon the organization and expression of behavioral patterns as they relate to motivation, adjustment and personality.

### **SPA 4654 ASL to English Consecutive Interpretation (2) AS CSD**

PR: SPA 3650, SPA 3666; CR: SPA 4655. Students consecutively interpret conversational discourse of planned and unplanned conversational language samples from ASL to English with delays of a few seconds after the source utterance is finished. For majors only.

### **SPA 4655 English to ASL Consecutive Interpretation (2) AS CSD**

PR: SPA 3650, SPA 3666; CR: SPA 4654. Students consecutively interpret conversational discourse from English to ASL with delays from conversational language samples of various lengths ranging from single utterances to discourse units of several minutes duration. For majors only.

### **SPA 4656 Simultaneous Interpretation Monologic (4) AS CSD**

PR: SPA 3650, SPA 3666. Students simultaneously interpret monologic talk from ASL and from English with target language beginning before the conclusion of the source utterance and continuing as the student listens to the continuing source utterance. For majors only.

### **SPA 4658 Simultaneous Interpretation Dialogic (4) AS CSD**

PR: SPA 4656. Students interpret dialogues from ASL to English and from English to ASL with the target language production beginning before the conclusion of the source utterance and continuing as the student listens to the continuing source utterance. For majors only.

### **SPA 4685 Practicum: Interpreting in the Schools (1-8) AS CSD**

This course provides practice sessions in school settings under supervision of an experienced interpreter and course instructor. Each practicum student will shadow an interpreter, and participate in discussion about the overall performance.

### **SPA 4685 Practicum: Interpreting in Schools (1-8) AS CSD**

This course is restricted to ITT majors. This course provides practice sessions in school settings under supervision of an experienced interpreter and course instructor. Each practicum student will shadow an interpreter, and participate in discussion about the overall performance.

### **SPA 4691 Senior Seminar in Interpreter Training (3) AS CSD**

PR: SPA 4656. Students expand upon previously learned topics and discuss factors that will affect their profession. Topics include: professional organization, certification, ethics and discuss best practices and will produce a professional portfolio. For majors only.

### **SPA 4906 Independent Study (1-10) AS CSD**

Indep. Study will allow UG students to work independently under the supervision of Faculty members in the pursuit of content gained independently. The course is repeatable for a total of 10 credits. Majors only.

### **SPA 4910 Directed Research (1-10) AS CSD**

Directed Research will allow the UG student to obtain supervised research experience under the direction of a Faculty member. The course is repeatable for a total of 10 credits. Majors only.

### **SPA 4930 Selected Topics (1-6) AS CSD**

PR: DPR. Intensive study of topics in Speech-Language Pathology, Audiology, and/or Aural Rehabilitation conducted under the supervision of a faculty member.

### **SPA 4962 Undergraduate Comprehensive Examination (1) AS CSD**

PR: SPA 4656. This purpose of this course is to ensure that graduates from ITT are thoroughly prepared for entry into the job market. For majors only and repeatable if necessary. It consists of 2 parts: individual meetings with an advisor and a comprehensive exam.

### **SPA 4970 Honors Thesis (1-10) AS CSD**

The student, under the supervision of a Faculty member will formalize, conduct, analyze and report in writing a research

project in the Department of Communication Sciences and Disorders. The course is repeatable for a total of 10 credits. Majors only.

### **SPA 5120 Psychoacoustics (3) AS CSD**

Relationship between physical auditory stimuli and psychological response. Human perception of intensity, loudness, frequency, and pitch. Impact of cochlear hearing loss and age on auditory perception. Measurement of auditory perception.

### **SPA 5132 Instrumentation (3) AS CSD**

PR: SPA 5120, SPA 6930, SPA 5506. Instruction in the use of clinical and laboratory instrumentation. Emphasis placed on electronic circuitry, signal generation, filtering, and calibration. Hands-on experience with equipment typically used in clinical auditory research will be provided.

### **SPA 5133C Speech Science Instrumentation (3) AS CSD**

PR: DPR or SPA 3011 or equivalent. Underlying principles and laboratory exercises in the use of audio recording, acoustic analysis, and clinical instrumentation.

### **SPA 5153 Quantitative Problem Solving in Speech Pathology and Audiology (2) AS CSD**

Fundamental mathematical and statistical concepts; meaningful, practical, and interesting presentation. Students get a solid foundation in the mathematical and statistical concepts in CSD and apply those concepts to solve practical or clinical problems.

### **SPA 5204 Advanced Clinical Phonology (3) AS CSD**

The principles of generative phonology will be applied to the assessment and treatment of phonological disorders. Emphasis is placed on making a child's phonology more functional for communication purposes.

### **SPA 5303 Auditory Anatomy and Physiology (3) AS CSD**

Provide a comprehensive understanding of the physiological acoustics of the auditory periphery, neuroanatomy and electrophysiology of the central auditory system, and psychoacoustic principles as they relate to clinical audiology measurement paradigms.

### **SPA 5312 Peripheral and Central Auditory Tests (4) AS CSD**

PR: DPR. The study of behavioral and electro physiologic clinical tests designed to assess the functions of the peripheral and the central auditory system. Tests that incorporate nonspeech stimuli and those that utilize speech stimuli will be included.

### **SPA 5328 Rehabilitative Audiology for Adults (3) AS CSD**

PR: DPR. Assess and manage persons with hearing loss. Effects of hearing impairment, assessment issues, and appropriate intervention strategies. Prosthetic intervention, perceptual intervention, communication strategies intervention, and counseling issues.

### **SPA 5403 Language-Learning in the School-Age Years (3) AS CSD**

PR: SPA 4201 and DPR. Metalinguistic and metacognitive development are linked to the interactional demands of classroom and clinical discourse; observational tools are applied to evaluation and intervention planning.

### **SPA 5506 Speech-Language Pathology and Audiology Practicum (1-8) AS CSD**

PR: DPR. Participation in speech-language pathology and audiology practicum in the University Communication Disorders Center and selected field settings.

### **SPA 5552 Diagnostic Principles and Practices (3) AS CSD**

PR: Admission to the graduate program or DPR. The administration, evaluation, and reporting of diagnostic tests and procedures used in assessment of speech and language disorders.

### **SPC 2541 Persuasion SS (3) AS SPE**

Examines the role of persuasion in public and social life. Students will be introduced to key concepts and theories of persuasion from a variety of historical and contemporary perspectives. Students will use these concepts to create, analyze, and respond to persuasive messages.

### **SPC 2600 Public Speaking SS (3) AS SPE**

The nature and basic principles of human communication; emphasis on improving speaking and listening skills common to all forms of oral communication through a variety of experience in public discourse.

### **SPC 3212 Communication Theory (3) AS SPE**

PR: SPC 2600 and COM 2000 each with a C or above or CI. The study of source, message, and receiver variables in human communication; communication settings; descriptive and predictive models of communication; communication as a process.

### **SPC 3230 Rhetorical Theory HP (3) AS SPE**

PR: SPC 2600 and COM 2000 each with a C or above or CI. This course surveys the foundations and historical evolution of major concepts, issues, theorists, and approaches to the study of rhetoric from Plato to recent contemporary theorists.

**SPC 3301 Interpersonal Communication SS (3) AS SPE**

A study of interpersonal communication in informally structured settings with emphasis on the understanding, description, and analysis of human communication.

**SPC 3425 Group Communication 6A (3) AS SPE**

PR: SPC 2600 and COM 2000 each with a C or above or CI. A survey of theory and research in group communication. Group discussions and communication exercises to increase awareness of the dynamics of human communication in small group settings.

**SPC 3513 Argumentation and Debate (3) AS SPE**

PR: Junior standing or CI. Study of principles of argumentation as applied in oral discourse, analysis of evidence and modes of reasoning. Practice in debate preparation and delivery.

**SPC 3602 Advanced Public Speaking (3) AS SPE**

PR: SPC 2600 and COM 2000 each with a C or above or CI. Study and application of communication strategies in speaking extemporaneously and from manuscript. The course includes study of selected public addresses as aids to increased understanding of speaking skills.

**SPC 3631 Rhetoric of the Sixties HP (3) AS SPE**

Survey of the rhetorics associated with the civil rights movement, the Great Society, the anti-Vietnam War movement, the counterculture, the black power movement, and the women's movement.

**SPC 3653 Popular Forms of Public Communication (3) AS SPE**

PR: COM 2000 with C or above or consent of instructor (CI). Analysis of public communication with emphasis on various presentational forms.

**SPC 3680 Rhetorical Analysis (3) AS SPE**

PR: SPC 2600 and COM 2000 each with a C or above or CI. This course introduces students to fundamentals of message analysis. Student examines persuasive strategies and language in oral and written discourse.

**SPC 3710 Communication and Cultural Diversity SS (3) AS SPE**

Examination of communication and cultural diversity within the United States. Cultural groups include gender, racial and ethnic (e.g., African American, Latino American, Asian American), social class, age and generation, religious (e.g. Jewish) and physical ability.

**SPC 4201 Oral Tradition MW (3) AS SPE**

Study of orality, its forms, functions, and transformations, in traditional and literate societies from folkloric and psychological traditions and from contemporary communication and cultural studies perspectives.

**SPC 4305 Communicating Emotions 6A (3) AS SPE**

PR: COM 2000 with C or above or consent of instructor (CI). Study of emotional experience, what emotions mean to us, how we talk about them, and the ways group and cultural membership influence them. Focus on attachment and loss in romantic, family and group relationships.

**SPC 4310 Relationships on Film (3) AS SPE**

PR: COM 2000 with C or above or consent of instructor (CI). Examination of the ways in which cinema inscribes conceptions and meanings of romance, love, intimacy and sexuality. Focus on systems of interpretation fostered by cinema representations of intimacy, sexuality, emotional, subjectivity, and betrayal.

**SPC 4431 Family Communication (3) AS SPE**

PR: SPC 3301 or COM 2000 with a C or above or CI. Examines the processes and functions of communication in family relationships. Examination of scholarly and popular literature on family structure, family systems, family development, and family stories. Analysis of families in fiction and cinema.

**SPC 4632 Rhetoric and Social Change 6A MW (3) AS SPE**

PR: SPC 3230 or SPC 3681. This course examines how social change is symbolized and motivated in the rhetorics of institutions, campaigns, social movements and individuals.

**SPC 4683 Rhetorical Analysis of Mass Media (3) AS SPE**

PR: SPC 3230 or SPC 3680, SPC 2600 and COM 2000 each with a C or above or CI. An introduction to the criticism of media forms and effects. Contemporary perspectives of the aesthetic and persuasive dimensions of mass media are examined. Students will engage in critical study of media artifacts.

**SPC 4714 Communication, Culture and Community MW (3) AS SPE**

Examines the relationships among culture, communication, institutions, and public and private life. Students explore the possibilities and problems of contemporary forms of community through service in a volunteer organization.

**SPC 4900 Directed Readings (1-3) AS SPE**

PR: Senior standing, COM 2000, a minimum GPA of 2.5, 15 hours of core requirements and 9 elective hours completed, and/or CI.

Individualized reading with professor to complement undergraduate research projects.

**SPC 4903 Honors Readings (3) AS SPE**

PR: Admission to Communication Honors Program, COM 2000 AND SPC 2600 with grades of C or better. Focused readings directed toward preparation of a proposal for an undergraduate honors thesis.

**SPC 4905 Undergraduate Research (1-3) AS SPE**

PR: Senior standing, COM 2000, a minimum GPA of 2.5, 15 hours of core requirements and 9 elective hours completed, and/or CI. Individual investigations with faculty supervision.

**SPC 4930 Selected Topics (1-3) AS SPE**

PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and CI. Variable topics.

**SPC 4932 Senior Seminar in Communication (3) AS SPE**

PR: Senior standing, COM 2000, a minimum GPA of 2.5, 15 hours of core requirements and 9 elective hours completed, and/or CI. Exploration of selected topics of current significance to the several areas of communication through group discussion and research.

**SPC 4970 Honors Thesis (3) AS SPE**

PR: Admission to Communication Honors Program. Involves individual research and preparation of an undergraduate honors thesis.

**SPC 5238 Topics in Rhetorical Analysis (3) AS SPE**

Introduces a variety of critical perspectives applied to rhetoric in specialized contexts. Topics vary depending upon interest of students and faculty.

**SPC 5930 Topics in Discourse (3) AS SPE**

Variable topics course.

**SPM 3256 Sport in Society: Contemporary Issues (3) ED EDP**

A study of organized sport in society. Individuals will be able to understand issues such as race, social class, gender, politics, religion, economics, media, physical disabilities, sexual orientation, and ethics as they relate to sports.

**SPN 1120 Beginning Spanish I (4) AS WLE**

CR: SPN 1120L. Not open to native or near-native speakers of Spanish. Development of basic skills in listening and reading comprehension, speaking and writing of Spanish.

**SPN 1120L Beginning Spanish I Laboratory (1) AS WLE**

CR: SPN 1120. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. Not open to native or near-native speakers of Spanish. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

**SPN 1121 Beginning Spanish II (4) AS WLE**

PR: SPN 1120 or equivalent. CR: SPN 1121L. Not open to native or near-native speakers of Spanish. Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish.

**SPN 1121L Beginning Spanish II Laboratory (1) AS WLE**

CR: SPN 1121. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. Not open to native or near-native speakers of Spanish. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

**SPN 1130 Accelerated Spanish For Near-Native Speakers and Others (1-6) AS WLE**

PR: CI. Accelerated course for near-native speakers and others with some knowledge of Spanish capable of making rapid progress.

**SPN 2200 Spanish III (3) AS WLE**

PR: SPN 1121 or equivalent. May NOT be taken concurrently with SPN 2201. Not open to native or near-native speakers of Spanish. Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish.

**SPN 2201 Spanish IV (3) AS WLE**

PR: SPN 2200 or equivalent. May NOT be taken concurrently with SPN 2200. Not open to native or near-native speakers of Spanish. Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish.

**SPN 2240 Conversation I (3) AS WLE**

PR: SPN 2201. Not open to native or near-native speakers of Spanish. For development of basic conversational skills.

**SPN 2241 Conversation II (3) AS WLE**

PR: SPN 2240 or equivalent. Not open to native or near-native speakers of Spanish. To improve fluency in spoken Spanish.

**SPN 2270 Overseas Study (1-6) AS WLE**

PR: SPN 1121. Prior departmental approval and early registration are required. An intensive study-travel program in a Spanish-speaking country.

## 340 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

**SPN 2340 Advanced Spanish for Native Speakers I (3) AS WLE**  
PR: Native and near-native oral/aural proficiency. May not count as Spanish major elective. Course for native and near-native speakers of Spanish due to home environment and/or residence in a Spanish speaking country, but without formal training in the language. Emphasis on cultural exploration and the grammatical problems of such speakers.

**SPN 2341 Advanced Spanish for Native Speakers II (3) AS WLE**  
PR: SPN 2340. May not count as Spanish major elective. Continuation of SPN 3340. Course for native and near-native speakers of Spanish due to home environment and/or residence in a Spanish speaking country, but with limited or no training in the language. Emphasis on grammar problems affecting such speakers.

**SPN 3300 Advanced Spanish Grammar and Composition (3) AS WLE**  
PR: SPN 2201 or equivalent. Not open to native or near-native speakers of Spanish. A study of syntax, grammar and writing.

**SPN 3440 Spanish for Business and International Trade I (3) AS WLE**  
PR: SPN 2201 or equivalent. A study of vocabulary and business practices of the Spanish speaking world. Overview of cultural differences within the Spanish speaking world, with emphasis on their impact on business and international trade.

**SPN 3441 Spanish for Business and International Trade II (3) AS WLE**  
PR: SPN 3440 or equivalent. Open to Spanish and Business majors and minors. Continuation of SPN 3440. A study of vocabulary and business practices of the Spanish speaking world. Overview of cultural differences within the Spanish speaking world, with emphasis on their impact on business and international trade.

**SPN 3500 Spanish Civilization (3) AS WLE**  
PR: SPN 2201 or equivalent. The culture and civilization of Spain. For majors and non-majors.

**SPN 3520 Spanish American Civilization (3) AS WLE**  
PR: SPN 2201 or equivalent. Readings and discussions on the culture and civilization of Spanish America. For majors and non-majors.

**SPN 4301 Expository Writing (3) AS WLE**  
PR: SPN 3300 or SPN 2340. Practical training in contemporary Spanish structure, usage and stylistic devices.

**SPN 4410 Advanced Conversation (3) AS WLE**  
PR: SPN 2241 or equivalent. Not open to native or near-native speakers of Spanish. Intensive practice in the formulation and expression of ideas in standard Spanish.

**SPN 4470 Advanced Overseas Study (1-6) AS WLE**  
PR: SPN 2270. Departmental approval required. Intensive language study in Spain.

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

**SPN 5525 Modern Spanish American Civilization (3) AS WLE**  
PR: SPN 3520 or equivalent or graduate standing. Advanced readings and discussions dealing with Spanish American civilization and culture, including a study of social, artistic and political trends. Text and discussion in Spanish.

**SPN 5567 Modern Spanish Civilization (3) AS WLE**  
PR: SPN 3500 or equivalent or graduate standing. Advanced readings and discussions dealing with contemporary Spanish civilization and culture, including a study of recent social, artistic and political trends. Texts and discussions in Spanish.

**SPT 3520 Spanish American Civilization (3) AS WLE**  
Readings and discussions on the culture and civilization of Spanish America. For majors and non-majors.

**SPW 3030 Introduction to Hispanic Literary Studies (3) AS WLE**  
PR: SPN 3300 or SPN 2340. Prose fiction, drama, poetry, and essay; techniques of literary analysis.

**SPW 4100 Survey of Spanish Literature I (3) AS WLE**  
PR: SPW 3030 or equivalent. A study of Spanish literature from its origins through the 17th century.

**SPW 4101 Survey of Spanish Literature II (3) AS WLE**  
PR: SPW 3030 or equivalent. A study of the later periods of Spanish literature.

**SPW 4130 Survey of Spanish American Literature I AF (3) AS WLE**  
PR: SPW 3030 or equivalent. Introduction to the study of Spanish American literature from the Discovery to the Romantic period. Emphasis will be on foundational writers of history, descriptive and lyric poetry, theater, fiction and essay.

**SPW 4131 Survey of Spanish-American Literature II (3) AS WLE**  
PR: SPW 3030 or equivalent. An introduction to the study of Spanish-American literature from the Modernism period to the present. Emphasis on modern writers since Dario.

**SPW 4900 Directed Study (1-3) AS WLE**  
Departmental approval required.

**SPW 4930 Selected Topics (1-3) AS WLE**  
Study of an author, movement or theme.

**SPW 5135 Colonial Spanish American Literature (3) AS WLE**  
PR: SPW 4131. Introduction to Colonial Spanish American Literature from the discovery through the Romantic Period.

**SPW 5355 Spanish American Drama and Poetry (3) AS WLE**  
PR: SPW 4131. Major writers of all genres. Emphasis on modern writers.

**SPW 5387 Spanish American Prose (3) AS WLE**  
PR: SPW 4131. Emphasis on the gaucho theme and contemporary prose fiction.

**SPW 5388 Golden Age Poetry and Drama (3) AS WLE**  
PR: SPW 4100. Lope de Vega, Alarcon, Tirso, Calderon, and others.

**SPW 5405 Medieval Literature (3) AS WLE**  
PR: SPW 4100 or equiv. Course gives an in-depth study of principal works and authors of the period such as El Poema de Mio Cid, Libro de Buen Amor, and La Celestina.

**SPW 5465 19th Century Literature (3) AS WLE**  
PR: SPW 4101. An appreciation of the romantic and realist periods in Spanish literature.

**SPW 5605 Cervantes (3) AS WLE**  
Cervantes' masterpiece Don Quijote de la Mancha.

**SPW 5725 Generation of 1898 (3) AS WLE**  
PR: SPW 4101. The major figures of the period and their main followers.

**SPW 5726 Vanguard Literature 1918 and 1936 (3) AS WLE**  
PR: SPW 4101. A study of Vanguard literature in Spain between 1918 and 1936.

**SPW 5934 Selected Topics (3) AS WLE**  
PR: Upper-level or GS. Study of an author, movement, or theme.

**SSE 4313 Teaching Elementary (K-6) Social Studies (3) ED EDE**  
PR: Admission to College of Education or CI. This course is designed to study techniques and strategies employed by K-6 social studies teachers that are effective in motivating elementary school aged youth to acquire the information, skills, and modes of reasoning unique to the social sciences.

**SSE 4333 Teaching Middle Grades Social Science (3) ED EDW**  
This course is designed to study techniques and strategies employed by social sciences teachers that are effective in motivating teenage youth to acquire the information, skills, and modes of reasoning unique to the social sciences. Students are expected to plan and present instructional plan(s) demonstrating use of various methods, techniques, and material that achieve concrete outcomes. Theoretical foundations of social studies are also studied. Field work is required.

**SSE 4334 Teaching Secondary Grades Social Science (3) ED EDW**  
PR: SSE 4333. This course is a continuation of SSE 4333 with further development of the instructional techniques and strategies and the information, skills, and modes of reasoning unique to the social sciences with an emphasis on the secondary school environment. The teaching profession, school settings, legal, and classroom management issues are also studied. Fieldwork in a high school is required.

**SSE 4335 Teaching Social Science Themes (3) ED EDI**  
PR: SSE 4333 for Undergraduate Students; SSE 5331 for Graduate Students; SSE Majors only. The course is a laboratory-based, capstone course in which knowledge, skills, and dispositions are demonstrated by students teaching social studies content using the thematic approaches adopted by the National and State accrediting bodies.

**SSE 4380 Global And Multicultural Perspectives in Education MW (3) ED EDW**

PR: EDG 3604 and EDG 4620, or DPR. Examination of the major issues surrounding global and multicultural perspectives in education. Available to non-Education majors.

**SSE 4600 Reading and Basic Skills in the Social Studies Class (3) ED EDW**  
Reading skills and other basic skills as applied to the social studies are examined. Students plan and present instruction appropriate to the social studies classroom. Fieldwork in middle or senior high schools is required. Restricted to majors.

**SSE 4670 Economics USA: Principles of Economics for Teachers (3) ED EDW**

S/U only. A television course focusing on content and teaching methodology related to micro/macro economic principles.

**SSE 4936 Senior Seminar in Social Science Education (2) ED EDW**

PR: Senior standing; CR: SSE 4940. Synthesis of teacher candidate's courses and preparation for the professional interview and application process.

**SSE 4940 Internship: Social Science Education (1-12) ED EDW**

CR: SSE 4936. S/U only. One full semester of internship in a public or private school. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 Semester hours.

**SSE 5331 Foundations, Curriculum & Instruction of Social Science Education (3) ED EDI**

Social studies curriculum, methods of instruction and social, philosophical and psychological foundations are examined. Students are expected to plan and present instructional plan(s) appropriate to middle and secondary school levels demonstrating command of the course content.

**SSE 5332 Methods & Strategies in Social Science Education (3) EDEDI**

Social studies methods and strategies are examined with an emphasis on the secondary school environment. The teaching profession, school settings, and current issues are examined. Students are expected to plan and present instructional plan(s) appropriate to senior high school demonstrating command of the course content.

**SSE 5641 Reading and Basic Skills in the Content Area (3) ED EDI**

Reading skills and the other basic skills as applied to the social studies are examined. Students are expected to plan and present instructional plan(s) appropriate to the social studies classroom demonstrating command of the course content. Fieldwork in a middle school is required.

**SSE 5644 Economic Decision-Making for Teachers (3) ED EDW**

PR: Admission to College of Education or DPR. Provides teachers (K-12) with content related to the operation of businesses in a market economy. Teachers analyze economic/business concepts from the perspective of individuals currently operating businesses in the Tampa Bay area. Focus of the instruction is on the application of content to K-12 instructional programs.

**STA 1022 Basic Statistics 6A QM (3) AS MTH**

PR: C (2.0) or better in MAT 1033, or 440 or better SAT Math score, or 19 or better ACT Math Score, or 72 or better Elementary Algebra CPT score. No credit for Mathematics majors. Basic philosophy of statistical thinking. Acquisition of data. Techniques for organizing and presenting statistical data. Sample mean, variance and standard deviation. Statistical decisions—estimation and hypothesis testing. Design of experiments, linear association and prediction. Statistical software: MINITAB.

**STA 2023 Introductory Statistics I 6A QM (4) AS MTH**

PR: C (2.0) or better in MAT 1033, or 440 or better SAT Math score, or 19 or better ACT Math Score, or 72 or better Elementary Algebra CPT score. No credit for Mathematics Majors. Descriptive statistics, basic probability principles, discrete and continuous probability distributions: binomial, Poisson, uniform, normal, t, chi-square and F; point estimation, confidence limits, hypothesis testing, correlation analysis and linear regression. Emphasis on applications to social sciences, life sciences, physical sciences, engineering and business.

**STA 2122 Social Science Statistics 6A QM (3) AS ISS**

Descriptive and inferential statistics - through ANOVA, correlation-regression, chi-square and now-parametrics. The course presents statistics with the view that numbers are a limited, but important aspect of understanding the world. Draws concepts and hypothesis from a wide range of disciplines.

**STA 3024 Introductory Statistics II 6A (3) AS MTH**

PR: STA 2023 or CC. Factorials, ANCOV; multiple curvilinear regression; response surfaces; Latin squares, Split Plots, incomplete designs; distribution free methods.

**STA 4321 Essentials of Statistics 6A (3) AS MTH**

PR: STA 4442. Basic statistical methods. Estimation, hypothesis testing, regression, ANOVA, and nonparametric methods.

**STA 4442 Introduction to Probability 6A (3) AS MTH**

PR: MAC 2313. Introduction to probability theory using calculus. Basic ideas of probability and random variables, discrete probability functions, continuous probability densities, joint distributions, transformations of random variables, moments and generating functions of random variables, limit theorems.

**STA 5166 Statistical Methods I (3) AS MTH**

PR: STA 4321 or CI. Statistical analysis of data by means of statistics package programs. Regression, ANOVA, discriminant analysis, and analysis of categorical data. Emphasis is on inter-relation between statistical theory, numerical methods, and analysis of real life data.

**STA 5228 Sampling Techniques (3) AS MTH**

PR: STA 4321 or CI. Sampling versus total enumeration. Planning of a survey. Statistical sampling methods and their analysis; simple, stratified, systematic cluster, and double and multistage sampling. Use of auxiliary information in sampling. Ratio and regression estimates. Case study.

**STA 5326 Mathematical Statistics I (3) AS MTH**

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

**STA 5446 Probability Theory I (3) AS MTH**

PR: STA 4442 and MAA 4212 or CI. Axioms of probability, random variables in Euclidean spaces, moments and moment generating functions, modes of convergence, limit theory for sums of independent random variables.

**STA 5526 Non-Parametric Statistics (3) AS MTH**

PR: STA 5326 or CC. Theory and methods of non-parametric statistics, order statistics, tolerance regions, and their applications.

**SUR 2101C Engineering Land Surveying (3) EN EGX**

Principles of land surveying for engineering practice. Traverses, levels, boundary surveys, route surveys, coordinate geometry, and mapping.

**SYA 3110 Classical Theory (3) AS SOC**

PR: SYG 2000 or CI. The analysis of the philosophical foundations, central principles, and historical development of Sociological theory. Required for Sociology majors and minors.

**SYA 3120 Contemporary Theory (3) AS SOC**

PR: SYA 3110 and SYG 2000 or CI. An examination of recent trends in sociological theory. Emphasis is on theories examining symbolic interactions, lived experience, popular culture, and social structures.

**SYA 3300 Research Methods (3) AS SOC**

PR: STA 2122 or equivalent. Introduction to the scientific method and its application to social science research. Research design, sampling techniques, and critical evaluation of social research. Required for Sociology majors.

**SYA 3310 Qualitative Inquiry 6A LW (4) AS SOC**

PR: SYG 2000 or CI. DPR. Exploration of human relationships and behaviors, organizations, and the larger culture through research techniques such as interviews, participant observation, life histories, and narratives.

**SYA 4304 Sociological Research Experience (1-3) AS SOC**

PR: SYG 2000 and class standing of sophomore, junior or senior. A flexible-unit course for advanced undergraduate students interested in participating in an ongoing faculty research project. Students will complete selected research tasks (background research, data collection and data analysis) with faculty supervision.

**SYA 4910 Individual Research (1-3) AS SOC**

PR: Four courses in sociology, including SYA 3300, upper level standing, at least 3.0 overall GPA, or CI. DPR. Content depends on the interest of the student. A contract between the student and the sponsoring faculty member must be signed before class registration.

**SYA 4930 Topics in Sociology (3) AS SOC**

Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester. This course, in different content areas, may be repeated for credit.

**SYA 4935 Senior Seminar MW (3) AS SOC**

PR: Senior standing, SYG 2000, SYA 3110, SYA 3300 plus 6 hours of Sociology electives. Majors only. DPR. The opportunity for senior Sociology majors to apply theory and methods to a selected topic of relevance in today's society. Topic changes by instructor.

**SYA 4949 Sociological Internship (1-6) AS SOC**

PR: Senior or graduate standing in Sociology plus CI. Supervised placement in community organization or agency for a minimum of 10 hours of volunteer work per week, and a weekly seminar on applying sociological skills and methods in the placement setting.

**SYD 3441 Peasant Perspectives AF (3) AS SOC**

PR: SYG 2000 or 6 hours of other Social Sciences Gen. Ed. coursework or CI. Examines the applicability of sociological concepts to peasant life around the world, and explores the roles played by "western" societies in creating and sustaining the conditions under which peasants live.

## 342 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

### **SYD 3700 Racial and Ethnic Relations SS HP (3) AS SOC**

Comparative study of interracial relations, social tensions, attitudes, and modes of adjustment in various areas of the world.

### **SYD 4410 Urban Sociology (3) AS SOC**

The social structure of the community in modern industrial societies. Analysis of community change.

### **SYD 4411 Urban Life (3) AS SOC**

PR: SYG 2000 This course provides a number of insights into how living in cities has changed throughout history, how it varies culturally, and how it has been theorized in sociology.

### **SYD 4800 Gender and Society (3) AS SOC**

Historical and current issues surrounding gender in America. Emphasis on exploring the causes, meaning, and consequences of gender differences, interpersonal relationships, and institutional participation.

### **SYG 2000 Introduction to Sociology SS (3) AS SOC**

An introduction to sociological perspectives and methods and the basic areas of sociological interests such as socialization, gender, race and ethnic relations, deviance, social control, and social stratification. Required for Sociology majors and minor.

### **SYG 2010 Contemporary Social Problems SS (3) AS SOC**

The analysis of social causes and dimensions of major public issues such as crime, the environment, inequality, gender, employment, and substance abuse.

### **SYG 2412 Marriage (3) AS SOC**

Study of pre-marital relations. Social, cultural, and personal factors related to success and failure in mate selection and marriage. Does not count for sociology major credit.

### **SYG 3011 Social Problems Through Film (3) AS SOC**

PR: SYG 2000 or SYG 2010. Examines, through films, how sociologists define and study social problems, and investigates the role of the popular media in the construction of social problems. Explores the solutions aimed at social problems in a comparative, international perspective.

### **SYG 3235 Latina Lives 6A AF LW (3) AS SOC**

PR: SYG 2000 or SYG 2010. An exploration of the experiences of Latinas in the United States. Uncover and examine such sociological themes as oppression, migration, work, family, activism, spirituality, and sexuality through short stories, poetry, and scholarly research.

### **SYO 3120 Sociology of Families (3) AS SOC**

With a goal to understand American families in the present, this course will examine variations in family types by social class, race, ethnicity, and historical era. Exploration of current controversies about how families should be organized and about what they should do for their members as well as social policies related to families.

### **SYO 3200 Sociology of Religion (3) AS SOC**

PR: SYG 2000 or CI. An examination of the meanings of religion lived in experiences in the contemporary United States. Includes the construction and maintenance of religious meanings and communities, the impact of those meanings and communities on daily lives, use and impact of religious discourse in daily lives, social movements motivated by religious beliefs.

### **SYO 3500 Social Organization (3) AS SOC**

PR: SYG 2000 or CI. Social organization in the broadest sense, including institutions and associations, as well as variations in role and status.

### **SYO 3530 Social Inequalities in a Global Society (3) AS SOC**

Introduction to the major concepts and theories used to explain inequality. The topics of race, gender, and sexual orientation will be treated in relation to class, rather than as a parallel dimension of stratification.

### **SYO 4250 Sociology of Education (3) AS SOC**

PR: SYG 2000 Application of sociological theory to the social institution of education. Primary attention directed toward the social organization of educational systems.

### **SYO 4300 Political Sociology (3) AS SOC**

PR: SYG 2000 or CI. An examination of the social factors that affect government, politics, and political behavior.

### **SYO 4370 Occupations and Professions (3) AS SOC**

PR: SYG 2000 or CI. A comparative analysis of professions, particularly medicine, law, teaching, allied health professions, engineering. Focus on the process of professionalizing service occupations like police work, business management, public administration and social work.

### **SYO 4400 Medical Sociology (3) AS SOC**

PR: SYG 2000 or CI. The study of disease and the sick person including the analysis of health practices, beliefs, and practitioners, the hospital as an organization, the cost, financing, and politics of health care.

### **SYO 4430 Disability and Society MW (3) AS SOC**

PR: SYG 2000 or CI. Examination of the applicability of sociological concepts to the experience of disability, and of disability as a means to a better understanding of the nature of social experience.

### **SYO 5365 Industrial Sociology (3) AS SOC**

### **SYP 3000 Social Psychology SS (3) AS SOC**

An exploration of the social forces that help shape individual perceptions, behaviors, and personality. The study of ways individuals develop identity and self-worth.

### **SYP 3004 Constructing Social Problems (3) AS SOC**

Examination of how activists, media, politicians, and scientists construct public images of social problems; analysis of the process of forming social policy and how public images of social problems shape the characteristics of social service agencies.

### **SYP 3060 Sociology of Sexualities (3) AS SOC**

Explores the interactions, among and between people, and people and institutions that form the boundaries through which sexualities are understood in the United States. Addresses interactions with and within medical and religious institutions, racial/ethnic cultures, families and popular culture.

### **SYP 3562 Family Violence (3) AS SOC**

An exploration of the complexity of the causes and consequences of physical and emotional violence among family members. Topics include the meanings and behaviors of violence, the process of help-seeking, and social interventions for offenders and victims. Open to nonmajors.

### **SYP 4012 Emotions in Society (3) AS SOC**

PR: SYG 2000 or SYG 2010. Examines the theories, concepts, and larger social contexts of emotions, and investigates sociological research on feelings such as anger and fear; pride and shame; love, friendship and sympathy; sadness and depression; grief and loss.

### **SYP 4111 Identity and Community (3) AS SOC**

This course is a sociological examination of the meanings of identity in the post-modern era. Topics will include the characteristics of identity at the levels of individuals, institutions, culture, and the processes of identity construction and change.

### **SYP 4420 Consumer Culture 6A MW LW (3) AS SOC**

PR: SYG 2000 or CI. The exploration of how Americans' purchasing behavior connects to larger historical shifts in our economy, including disenchantment, alienation, inequality, and the rise of the credit card society.

### **SYP 4510 Sociological Aspects of Deviance (3) AS SOC**

The examination of the social construction of deviance: how deviance is defined, implications of deviance designations. Applications of theories of deviance to questions such as motivations of deviants and implications of criminal justice processing of deviants.

### **SYP 4530 Sociology of Juvenile Delinquency (3) AS SOC**

Sociological issues in defining delinquency; the nature of adolescence and delinquency; sociological theories of the causes of delinquency; types and consequences of social control applied to delinquents.

### **SYP 4550 Drugs and Society (3) AS SOC**

PR: SYG 2000 or SYG 2010. Explores the social construction of substance use in the United States. Examines individual users and the popular perspectives on the causes of substance use and abuse such as the medical, psychoanalytic, and sociological models.

### **SYP 4640 Leisure in Society (3) AS SOC**

Sociological examination of leisure in the United States and other countries. Topics include changing leisure time patterns, relationships between leisure and work, personality, family, community, subcultures, religion, and social class.

### **SYP 4650 Sport in Society (3) AS SOC**

An examination of the broad issues concerning sport in both a historical and contemporary perspective. Sport will be viewed in relation to social institutions, economic considerations, mass media, and the sport group as a micro-social system.

### **TAX 4001 Concepts of Federal Income Taxation (3) BA ACC**

PR: ACG 3103 and ACG 3341 with a grade of "C" or better (not C-) in each course. Major concepts used in taxation of income by federal government including enactment of tax laws, basic tax research, preparation of basic tax returns and exploration of tax policy issues.

### **TAX 5015 Federal Taxation of Business Entities (3) BA ACC**

PR: TAX 4001 with a grade of "C" or better (not C-). Tax issues encountered by small businesses. Includes tax planning, capital formation and preservation, tax compliance and tax alternatives.

### **THE 2005 Issues in Theatre FA (3) VP TAR**

Focuses on the variety and range of contemporary performance using lecture, discussion, theatre attendance, and experiential

- learning. Encourages critical thinking and reflection about theatre in contemporary society. Restricted to non-theatre majors.
- THE 2020 Introduction to Theatre (3) VP TAR**  
An introduction to the art of theatre as part of the larger context of the nature of art itself. The approach will be both chronological and multi-cultural. Required of all theatre majors.
- THE 2252 Great Performances on Film FA (3) VP TAR**  
This class traces the evolution of acting styles, from Lillian Gish to Samuel L. Jackson and beyond, focusing on the analysis of performance technique, the history of cinema, and the social and political environment they parallel. No prerequisite.
- THE 2305 Script Analysis (3) VP TAR**  
PR: Sophomore standing, THE 2020. This course teaches theatre students the techniques of close reading of dramatic texts.
- THE 3110 Theatre History I MW (3) VP TAR**  
PR: Sophomore standing, THE 2020. The study of theatrical production in its cultural context, including theatre architecture, scenography, acting and directing. Normally fifteen plays will be read. Required of all theatre majors. Open to upper division non-majors.
- THE 3111 Theatre History II MW (3) VP TAR**  
PR: Sophomore standing, THE 2020. A study of Theatre History in more detail as a companion to Theatre History I. This course and the companion Theatre History I will offer the opportunity for more careful study and emphasis on particular aspects of cross-cultural theatre in context.
- THE 4174 New British Theatre and Drama 6A MW LW (3) VP TAR**  
PR: THE 2305 and Junior Standing. A study of contemporary theatrical practice and key dramatic texts in the British Isles. This course is restricted to majors.
- THE 4180 Theatre Origins 6A MW LW (3) VP TAR**  
PR: THE 3110 or THE 3111 and one of the following: THE 4320, THE 4330, THE 4360, THE 4401, THE 4434, THE 4435, THE 4442, THE 4480. Open to senior non-majors with CI. An analysis of the development of theatre out of myth, ritual, and liturgy. Emphasis placed on what attempts to understand the resulting phenomena (e.g. Aristotle's Poetics) can teach us about the nature of our art. Either THE 4180 or THE 4562 is required of all theatre majors.
- THE 4264 History Of Costume (3) VP TAR**  
PR: Sophomore standing. Open to upper level non-majors with CI. A survey of clothing and dress from Ancient Egypt to the 20th Century with an emphasis on cultural and social influences. (A requirement in the design track/costume.)
- THE 4266 Architecture And Decor (3) VP TAR**  
PR: Sophomore standing. Open to upper level non-majors with CI. A survey of architecture and furniture from ancient Egypt to the 20th Century. (A requirement in the design track/scenic.)
- THE 4320 Theatre of Myth and Ritual/Northern European (950-1600) & Oriental (400-1200) 6A MW LW (3) VP TAR**  
PR: THE 3110 or THE 3111. Open to upper level non-majors with CI. An investigation into the interrelationship of myth, ritual, and theatre. Considers northern European liturgical and secular plays as compared with Hindu, Chinese, and Japanese drama.
- THE 4330 Shakespeare for The Theatre 6A MW LW (3) VP TAR**  
PR: THE 2305. A close study of selected plays with special emphasis on their performance values. Web-based version open to non-majors with CI; campus based version restricted to majors.
- THE 4360 The 19th Century Theatre Revolution 6A LW (3) VP TAR**  
PR: THE 3110 or THE 3111. Open to upper level non-majors with CI. Survey of the European art theatre revolution against the romantic realism of the commercial stage and its effect on subsequent theatre activity.
- THE 4401 American Drama 6A MW LW (3) VP TAR**  
PR: THE 2305 and Junior Standing. A course in the function of the script for the theatre artist treating materials in the American Theatre. This class is restricted to majors only.
- THE 4434 Caribbean Theatre 6A MW LW (3) VP TAR**  
PR: THE 2305. CR: THE 3110 or THE 3111. Open to upper level non-majors with CI. This course is a study of plays and popular theatrical forms of the Caribbean. The student will investigate the social and political forces that shape the culture of the Caribbean, the residual effects of the colonialism and the turbulence of independence as expressed in the dramatic art and theatre of the English-speaking West Indies.
- THE 4435 Theatre of Pluralism 6A MW LW (3) VP TAR**  
PR: THE 3110 or THE 3111. Open to upper level non-majors with CI. The practice of theatre as it reflects cultural heritage, gender, race and sexual orientation. Study of contemporary scripts, critical and artistic statements.
- THE 4442 Comedy of The Classic And Neo-Classic Stage 6A LW (3) VP TAR**  
PR: THE 3110 or THE 3111. Open to upper level non-majors with CI. A study of comedic function in scripts from Greek and Roman, Restoration and French Neoclassic of the late 17th century and other plays from the late 18th and late 19th centuries which reflect similar characteristics.
- THE 4480 Drama-Special Topics (3) VP TAR**  
PR: THE 3110 or THE 3111. Open to upper level non-majors with CI. A study of a significant playwright or grouping of playwrights, e.g. Moliere, Brecht, recent American dramatists.
- THE 4562 Contemporary Performance Theory 6A MW LW (3) VP TAR**  
PR: THE 3110 or THE 3111 and one from the following: THE 4320, THE 4330, THE 4360, THE 4401, THE 4434, THE 4435, THE 4442, THE 4480; or CI. A seminar for advanced students focusing on the theory and practice of performance.
- THE 4593 Honors Seminar (2) VP TAR**  
Enrollment limited to upper level majors who have been formally admitted to the department honors program. Not available S/U. Readings in the literature, history and theory of the stage in preparation for Theatre Honors Practicum. Past topics have included New German Theatre, Popular Theatre, New American Theatre, Jacobean Theatre.
- THE 4594 Honors Practicum (3) VP TAR**  
PR: THE 4593. Honors Practicum grows out of the Honors Seminar and engages students in workshops or production with guest artists. Past artists have included the Free Theatre of Munich, the San Francisco Mime Troupe, playwrights Eric Overmeyer, Jeff Jones and Gary Hill.
- THE 4595 Honors Thesis (1-3) VP TAR**  
PR: THE 4594. A practical or written thesis related to the seminar and practicum and approved by the departmental honors committee.
- THE 4761 Methods of Teaching Theatre for Adolescents (3) VPEDD**  
Methods of effective drama and theatre instruction in middle school, junior and high schools, recreation centers, community, and professional theatres.
- THE 4905 Directed Studies (1-4) VP TAR**  
Independent studies in the various areas of Theatre. Course of study and credits must be assigned prior to registration.
- THE 4930 Selected Topics In Theatre (1-8) VP TAR**  
PR: CI. The content of the course will be governed by student demand and instructor interest. May be lecture or class discussion or studio format.
- THE 5909 Directed Studies (1-6) VP TAR**  
PR: CI and CC. Independent studies in the various areas of Theatre. Course of study and credits must be assigned prior to registration.
- THE 5931 Selected Topics In Theatre (1-8) VP TAR**  
PR: CI. The content of the course will be governed by the student demand and instructor interest. May be lecture or class discussion or studio format.
- TPA 2200 Introduction to Technical Theatre I (3) VP TAR**  
CR: TPA 2290L or CI. An introductory course in technical production including coursework in the areas of scenic construction, theatre production/organization, and sound. Required for Theatre majors. Requires sequential semester enrollment with TPA 2211 and TPA 2291L. Open to non-majors.
- TPA 2211 Introduction to Technical Theatre II (3) VP TAR**  
CR: TPA 2291L or CI. An introductory course in technical production including stage lighting, costume construction, and sound. Required for Theatre majors. Requires sequential semester enrollment with TPA 2200 and TPA 2290L. Open to non-majors.
- TPA 2248 Workshop In Stage Makeup (1) VP TAR**  
Beginning theory and practice in make-up for the stage. Open to non-majors. Theatre majors given preference. A studio course.
- TPA 2290L Technical Theatre Lab I (1) VP TAR**  
CR: TPA 2200 or CI. A practical laboratory involving the pre-performance preparation of all technical aspects of a major production such as: painting, sewing, lighting, and sound. Students are assigned two areas of study per semester. Required of all Theatre majors. Open to non-majors.
- TPA 2291L Technical Theatre Lab II (1) VP TAR**  
CR: TPA 2211 or CI. A practical laboratory involving the pre-performance preparation of all technical aspects of a major production such as: painting, sewing, lighting, and sound. Students are assigned two areas of study per semester. Required of all Theatre majors. Open to non-majors.
- TPA 2292 Production Involvement I (1) VP TAR**  
PR: TPA 2200, TPA 2290L, TPA 2211, TPA 2291L or CI. The rehearsal, construction, and performance of major theatrical works. Assignments are made by a faculty committee following

the students completion of a PI request form, available in the Theatre Office, and enrollment in this course.

**TPA 3007 Introduction to Design I (3) VP TAR**

PR: TPA 2200, TPA 2211, TPA 2290L, and TPA 2291L. Open to non-majors. This course will include lectures, demonstrations, individual student presentations, and studio activities. The course work will provide an introduction to the various aspects of design including: two and three dimensional design, basic presentation and visual communication skills, research, and project analysis/organization.

**TPA 3008 Introduction to Design II (3) VP TAR**

PR: TPA 3007. This course will include lectures, demonstrations, individual student presentations, and studio activities. The course work will provide an introduction to the various aspects of design including: two and three dimensional design, basic presentation and visual communication skills, research, and project analysis/organization. Open to non-majors.

**TPA 3208 Drafting and CAD I (3) VP TAR**

PR: TPA 2200, TPA 2211, TPA 2290L and TPA 2291L. The course will include lectures, demonstrations, individual student presentations, and studio activities. The course work will provide an opportunity to develop skills and techniques in the visual presentation of various design and technical draftings. Open to non-majors.

**TPA 3221 Lighting: Theory And Practice (3) VP TAR**

PR: TPA 3208 or CI. Intermediate lighting design course concerned with graphic presentations, color theory, design concepts, and practical experience with computer lighting systems. A requirement in the design track/lighting.

**TPA 3231 Costume Construction (3) VP TAR**

PR: TPA 3208 or CI. A practical course in the drafting of patterns for costuming the actor. Materials, skills, and techniques for construction of costumes and costume accessories will be treated. Included topics are millinery, footwear, jewelry, masks, armor, courtesy; both period and modern.

**TPA 3251 Drafting and CAD II (3) VP TAR**

PR: TPA 3208. Continuation of TPA 3208. The course will include lectures, demonstrations, field trip(s), individual student presentations, and studio activities. The course work will provide an opportunity to develop your skills and techniques in the visual presentation of various design and technical draftings. Open to non-majors.

**TPA 3265 Sound For The Stage (3) VP TAR**

PR: TPA 2200, TPA 2290L, TPA 2211, and TPA 2291L. Open to non-majors with CI. Basic study of audio components, fundamental properties of sound, multiple channel recording, editing, reproduction and reinforcement. Methods and techniques used in theatre to create sound effects.

**TPA 3296 Design Practicum (2) VP TAR**

PR: TPA 3008. This is a studio/laboratory course in the practical aspects of production. The course is intended to provide realized production experience to the advanced theatre design student in such areas as costume, lighting, and scenic design; stage properties design; technical direction; and theatrical production craft/skill areas. The student will be individually mentored by a faculty member through the process of developing and realizing a production design/craft/skill.

**TPA 3601 Stage Management (2) VP TAR**

PR: TPA 2200, TPA 2290L, TPA 2211, and TPA 2291L. Open to non-majors with CI. A practical course in the working organizational function of the stage manager in theatre, dance, opera, and other live performance situations.

**TPA 3840 Puppetry Performance And Production (4) VP TAR**

PR: TPA 2200, TPA 2290L, TPA 2211, and TPA 2291L. Open to non-majors with CI. The creation, building, rehearsal, and performance of plays for puppet theatre.

**TPA 4011 Design Studio I (3) VP TAR**

PR: TPA 3008 and TPA 3208 plus two of TPA 3231, TPA 3221, or TPA 3251. TPA 4011 will include studio design project activities in the areas of costume, lighting, and scenic design. The course work will stress the nature of collaborative work and the various stages and processes involved with the development of a design from the first meeting to the final paper/model design.

**TPA 4012 Design Studio II (3) VP TAR**

PR: TPA 4011. This course will include studio design project activities in the areas of costume, lighting, and scenic design. The course work will stress the nature of collaborative work and the various stages and processes involved with the development of a design from the first meeting to the final paper/model design. Evaluation of the project will emphasize the process followed in the development of the design including thimbnail/idea sketching, research, and production concept. The course will include seminar (production) discussions, lectures, demonstrations, individual and group work, and individual student presentations.

**TPA 4013 Design Studio III (3) VP TAR**

PR: TPA 4012. This course will include studio design project activities in an individual's selected primary and secondary areas of costume, lighting, and/or scenic design. The course work will stress the nature of collaborative work and the various stages and processes involved with the development of a design from the first meeting to the final paper/model design.

**TPA 4077 Scene Painting (2) VP TAR**

PR: TPA 3007. Open to upper level non-majors with CI. A practical course in the painting of stage scenery: media and application.

**TPA 4273 Stage Properties: Techniques And Materials Studio (2) VP TAR**

PR: TPA 3007. Open to upper level non-majors with CI. Demonstration of and experience with materials used in construction of stage properties. Modeling of prototypes and basic casting techniques. Organization of shop.

**TPA 4293 Production Involvement II (1) VP TAR**

PR: TPA 2292 or CI. The rehearsal, construction, and performance of major theatrical works. Assignments are made by a faculty committee following the student's completion of a PI request form, available in the Theatre Office, and enrollment in this course.

**TPA 4298 Advanced Design Practicum (3) VP TAR**

PR: TPA 4011. This is a studio/laboratory course in the practical aspects of production. The course is intended to provide realized production experience to the advanced theatre design student in such areas as costume, lighting, and scenic design; stage properties design; technical direction; and theatrical production craft/skill areas. The student will be individually mentored by a faculty member through the process of developing and realizing a production design/craft/skill.

**TPP 2110 Voice-Body-Improvisation (3) VP TAR**

Exploring the elements basic to acting skills, a participation course. Required of all theatre majors. Open to non-majors.

**TPP 2190 Studio Theatre Performance I (1) VP TAR**

PR: TPP 2110, THE 2020. A practical laboratory involving the rehearsal and performance of a major production. Activities may include acting, directing, stage management, and the activities of the performance production crews. Placement by audition. If cast in production student must accept role. Required of all Theatre majors. May be repeated. Open to non-majors with CI.

**TPP 2500 Body Disciplines (3) VP TAR**

PR: TPP 2110. A laboratory course in various disciplines or systems and understanding the body's motive powers, with focus on their use for the stage performer.

**TPP 3121 Improvisation I (3) VP TAR**

PR: TPP 2110. An intensive study in improvisation as an enhancement of the actor's skill. Exercises and theatre games as flexible forms which accommodate improvisation and physical invention are examined and used to develop group creativity.

**TPP 3155 Scene Study I (3) VP TAR**

PR: Audition and all core 2000 level courses. Identify and investigate the fundamental elements of acting as applied to scene exploration, rehearsal, and presentation.

**TPP 3230 Laboratory Workshop In Performance (3) VP TAR**

PR: Audition and TPP 2110. May be repeated twice for a total of 9 hours credit. Open to upper level non-majors by audition only. The content of the course will be governed by student demand and instructor interest.

**TPP 3580 Special Skills In Movement (3) VP TAR**

PR: TPP 2110 or CI. May be repeated for credit. Open to upper level non-majors with CI. Stage combat, circus and acrobatic techniques, and other special techniques of movement.

**TPP 3790 Voice Preparation For The Actor (3) VP TAR**

PR: TPP 2110. A concentrated laboratory on freeing the breathing function, developing body and oral resonance, and strengthening muscles used on the formation of speech sounds.

**TPP 3920 Acting Studio I (8) VP TAR**

PR: Audition, all lower level core theatre courses and junior standing. An intensive and comprehensive ensemble workshop that explores the basic principles of acting and the skills necessary for play, scene and character analysis. An emphasis is placed on the integration of body, voice, mind and emotions. This course will be team taught by the Performance faculty.

**TPP 3921 Acting Studio II (8) VP TAR**

PR: TPP 3920. A continuation of Acting Studio I with greater emphasis on addressing individual needs in order to explore emotionally complex characters and scenes in an intensive and systematic way. This course will be team taught by the Performance faculty.

**TPP 4140 Styles Of Acting (3) VP TAR**

PR: TPP 4180 and audition or CI. Examination of the actor's craft and skills needed to fulfill the demands of classical theatre forms.

## TPP 4180 Advanced Scene Study (3) VP TAR

PR: Audition and TPP 3155 or TPP 3921. An acting workshop focusing on application of character development and rehearsal techniques over a sustained period leading toward a project showing at semester's end.

## TPP 4193 Studio Theatre Performance II (1) VP TAR

PR: TPP 2190. A practical laboratory involving the rehearsal and performance of a major production. Activities may include acting, directing, stage management, and the activities of the performance production crews. Placement by audition. If cast in production student must accept role. Required of all Theatre majors. May be repeated. Open to non-majors with CI.

## TPP 4221 Audition Workshop for Actors (3) VP TAR

PR: TPP 3155 or TPP 3921. Preparation for professional audition; discussion of professional objectives.

## TPP 4310 Directing I (3) VP TAR

PR: TPP 3155 or TPP 3230. An elective sequence in directing. A workshop course in which the student first encounters the basic tasks of the director by preparing and directing one or two scenes and then progresses to more complex scene work in a variety of styles and finally proceeds to the short play or theatre pieces.

## TPP 4311 Directing II (3) VP TAR

PR: TPP 4310 and CI. An elective sequence in directing. A workshop course in which the student first encounters the basic tasks of the director by preparing and directing one or two scenes and then progresses to more complex scene work in a variety of styles and finally proceeds to the short play or theatre pieces.

## TPP 4600 Writing For The Theatre (3) VP TAR

PR: TPP 3110 or THE 3111. An elective sequence in writing, in which the student first encounters the problems unique to dramatic language and situation, then progresses to complexities of character, plot, and stage dynamics. Normally the aim would be to complete several performance-worthy self-contained scenes.

## TPP 4920 Senior Workshop For Actors (3) VP TAR

PR: TPP 2500, TPP 3790, TPP 3155, or TPP 3921. A workshop in advanced vocal and movement techniques.

## TPP 4923 Music Theatre Workshop (3) VP TAR

PR: TPP 2110 and audition. Open to non-majors by audition only. Exploration of Musical Theatre materials and performance techniques for the performer. Individual and ensemble work.

## TSL 4374 Methodology of Teaching English Overseas (3) AS WLE

PR: Upper-level standing. Designed to introduce and prepare the enrollee in the various facets of teaching English as a foreign language in the overseas setting. It will include aspects of teaching verbal skills and comprehension as well as writing. It involves a practicum at the English Language Institute on campus.

## TSL 5321 ESOL Strategies for Content Area Teachers (3) AS WLE

Course designed for public school teachers working with limited English Proficient (foreign) students in the classroom. The new ESOL requirements specify that this course be offered to content area teachers and to ESOL teachers.

## TSL 5371 Methods of Teaching English As A Second Language (3) AS WLE

Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.

## TSL 5372 ESOL Curriculum and Instruction (3) AS WLE

Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.

## TSL 5471 Language Testing (3) AS WLE

PR: TSL 5371. Lecture course on testing English as a second/foreign language.

## TSL 5525 Cross-Cultural Issues in ESL (3) AS WLE

PR: LIN 5700. Lecture course on cultural issues in Teaching English as a Second/Foreign language.

## TTE 4003 Transportation and Society (3) EN EGX

This course provides a multidisciplinary introduction to transportation and its impacts on society. It explores how transportation interacts with the economy, the environment and the social and political nature of society.

## TTE 4004 Transportation Engineering I (3) EN EGX

PR: EGN 3321. Principles of surface transportation system development, design, and operations; administration, modal characteristics, capacities, and functional classifications; vehicle kinematics, human factors and minimum design standards; traffic flow theory and queuing, capacity and signalization; transportation planning and economics.

## TTE 4005 Transportation Engineering II (3) EN EGX

PR: TTE 4004. Techniques for the geometric route design of surface transportation systems; horizontal and vertical alignments. Spiral curves, superelevations and earthwork analysis; drainage,

soils, and a rigid and flexible pavement design; right-of-way acquisition and Environmental Impacts; site layout & design, and operation of alternate models including bus, air, rail, water, and pipeline facilities and terminals.

## TTE 5205 Traffic Systems Engineering (3) EN EGX

PR: TTE 4004 or equivalent. Traffic models, intersection analysis, capacity analysis, data methods collection, parking studies, volume and speed studies, freeway management, and advanced technologies.

## TTE 5501 Transportation Planning and Economics (3) EN EGX

PR: College Algebra & CI. Fundamentals of urban transportation planning: trip generation, trip distribution, modal split, traffic assignment. Introduction to environmental impact analysis, evaluation an choice of transportation alternatives.

## URP 4050 City Planning and Community Development (3) AS POL

An introduction to the development, role, and components of city planning, and the political and actual policies of government in attempting to regulate or control urbanization.

## URP 4052 Urban and Regional Planning (4) AS GPY

PR: GEO 2400, GEO 3602. The geographic foundations of the modern city, metropolitan development, and the trend toward megalopolis. Examined are the political problems of conflicting jurisdictions at the local, county, state, national, and international levels.

## URS 3002 Introduction to Urban Studies (3) AS ISS

An interdisciplinary introduction to the process of urbanization in the United States and the diverse communities it has created. Study of the Tampa Bay region is emphasized.

## VIC 3001 Introduction to Visual Communications (3) AS COM

PR: MMC 2100 and MMC 3602. Survey of visual communication theory, techniques and contemporary application in the visual media. Critical examination of visual communication in newspapers, magazines, television, motion pictures and new media.

## VIC 3943 Visual Communication Practicum (1) AS COM

PR: Senior standing and CI. For visual communications option majors. S/U only. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.

## WOH 3293 Islam in World History AF HP (4) AS HTY

This course examines the origins, spread, and development of Islam within the context of the main global historical processes and events of the past 1500 years.

## WST 2250 Female Experience in America HP (3) AS WST

The female experience in America, in historical context, with an emphasis on women in families of various classes, races, and ethnic groups from colonial times to 1870.

## WST 2600 Human Sexual Behavior SS (3) AS WST

The dynamics of human sexuality: biological, constitutional, cultural, and psychological aspects. The range of sexual behavior across groups. Sources of beliefs and attitudes about sex, including sex roles and especially human sexuality.

## WST 3015 Introduction to Women's Studies SS AF (3) AS WST

Survey of major issues relevant to the female experience. the women's movement: historical, psychological, sociological, anthropological perspectives.

## WST 3210 European Feminist History: Pre-18th Century 6A HP (3) AS WST

Survey of European feminist history prior to the 18th century (focusing primarily on Western Europe). Examines women's lives, roles, ideas, as well as origins of Western attitudes toward relation of power to gender, race and class. No prerequisites.

## WST 3220 European Feminist History: Enlightenment to the Present HP (3) AS WST

A survey of European feminist history from the 18th century through the 20th century (focusing primarily on Western Europe). Examining women's lives, roles and ideas, as well as the dominant attitudes toward women over this time period.

## WST 3225 Women, Environment and Gender MW (3) AS WST

Course designed to: provide students with a basic understanding of relationships between women's physical, health and occupational environments; consider the position of women regarding environmental issues; examine role that women can and do play in effecting environmental change; and analyze concepts related to ecofeminism.

## WST 3311 Issues in Feminism SS (3) AS WST

Survey of major issues relevant to the female experience: marriage and the family, sexuality, work, creativity.

## WST 3370 Women and Social Action SS (3) AS WST

Course focuses on ordinary women working collectively in diverse social settings to empower themselves and others to challenge

## 346 USF Course Descriptions

UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG

- gender stereotypes; to reduce harassment, poverty, violence and homelessness; to enhance health-care and family life and to confront barriers in education, the media and the criminal justice system.
- WST 3412 Women in the Developing World (3) AS WST**  
Survey of status of women in Asia, Africa, Latin and Caribbean America, compared to that in USA, Canada, West Europe, Marxist-Leninist countries. (May also be taken for credit in Government and International Affairs.)
- WST 3620 Men and Sexism (3) AS WST**  
Ways in which sex role conditioning affects the lives of men. Factors in this conditioning and alternatives to masculine sex role models.
- WST 4262 Literature by Women of Color in the Diaspora 6A LW (3) AS WST**  
Will not be counted toward the English major. An introduction to contemporary women writers of color in the U.S.: Native Americans, African Americans, Asian Americans, and Chicanas/U.S. Latinas. Readings will include literature and contextual articles on historical and cultural issues.
- WST 4310 History of Feminism in the U.S. 6A MW (3) AS WST**  
A study of feminist critiques of American women's experiences and status, and their implications for women's lives, by 19th- and 20th-century theorists, and how adequately these various critiques address the intersections of gender, class, ethnicity, and race.
- WST 4320 The Politics of Women's Health (3) AS WST**  
Explores current issues and concerns in the conceptualization and delivery of health information and health care for women from a feminist perspective, with a special emphasis on ways in which we can inform and help ourselves.
- WST 4335 Women and Film (3) AS WST**  
A study of representation of women in films and the responses of feminist film theorists and filmmakers.
- WST 4350 Women and Science MW (3) AS WST**  
An examination of selected issues related to women and the natural and physical sciences including: historical participation of women in science, current status of women in science, and feminist critiques of science as a discipline.
- WST 4410 Postcolonial Women Writers (3) AS WST**  
Will not be counted toward the English major. Introduces the literature of women from various anglophone countries in Africa, the Caribbean, and South Asia; some U.S. writers will be included to represent a third world diasporic consciousness.
- WST 4522 Classics in Feminist Theory MW (3) AS WST**  
A study of classic contributions to the elaboration of feminist thought from the 18th century to the present in an attempt to discover the roots of the contemporary feminist movement.
- WST 4561 Contemporary Feminist Theory (3) AS WST**  
PR: Completion of one upper division Women's Studies course. An exposure to and an exploration of a wide range of current feminist theories and debates, as well as an examination of the possible political and practical implications for various theoretical positions.
- WST 4900 Directed Readings (1-3) AS WST**  
PR: Registration requires instructor's written consent and signed contracts from instructor of choice. To provide advanced students with interdisciplinary research experience in areas of specific interest.
- WST 4910 Directed Research (1-3) AS WST**  
PR: Registration requires written contract signed by student and instructor of choice. To provide advanced students with interdisciplinary research experience in areas of specific interest.
- WST 4930 Selected Topics (1-4) AS WST**  
Study in special areas such as Women and Work, Reproductive Law, Women and Health.
- WST 4935 Seminar in Women's Studies (3) AS WST**  
PR: Women's Studies Major and 24 credit hours in Women's Studies. Recognizing the interplay between personal connections and intellectual experience, this capstone course is designed to focus on topical areas related to women's studies and facilitate linking student learning experience to future plans.
- WST 5308 Feminist Spirituality (3) AS WST**  
Open to non-majors. Focuses on the many voices of contemporary feminist spirituality, emerging from women's experiences in diverse religious, ethnic and cultural traditions, and representing a range of theoretical perspectives from biblical feminism to goddess worship and wicca.
- WST 5825 Internship in Women's Studies (3) AS WST**  
PR: Must have completed Comprehensive Exam. Majors Only. All required courses in MA program, CC. Student placement in approved intern setting for a minimum of 150 hours of supervised experience. S/U. Department Approval Required.

- WST 5934 Selected Topics (1-4) AS WST**  
PR: DPR. Study of current research methods and scholarship on women from a multidisciplinary perspective.
- WST 5940 Internship in Women's Studies (3-6) AS WST**  
PR: Majors only. All required courses in MA program, CC. Permit. Student placement in an approved intern setting for a minimum of 240 hours of supervised experience. S/U only.
- YOR 1120 Yoruba I (4) AS WLE**  
This course is designed to familiarize students with modern orthography and to develop skills in reading, writing, speaking, and understanding spoken Yoruba. Pronunciation in Yoruba and achieving basic communicative competence in the language are among the skills to be attained in the course.
- ZOO 2303 Vertebrate Zoology (3) AS BIO**  
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L. The origin, diversity, and adaptations of the vertebrates. Phylogenetic systematics (cladistics) will be used as the basis for determining evolutionary relationships of organisms. Monophyletic groupings provide a framework for examining behavior, physiology, and ecology in an explicit evolutionary context. Vertebrates common to Florida and the southeastern United States will be emphasized.
- ZOO 2710C Anatomy of Chordates (4) AS BIO**  
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L. Anatomy of selected vertebrate types emphasizing evolutionary trends. Lec.-lab.
- ZOO 3205C Advanced Invertebrate Zoology (4) AS BIO**  
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course, or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712. An introduction to the major invertebrate groups, with emphasis on local forms. Fieldwork required. Lecture and Laboratory.
- ZOO 3713C Comparative Vertebrate Anatomy (4) AS BIO**  
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course, or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712. Anatomy of selected vertebrate types emphasizing evolutionary trends. Lecture and Laboratory.
- ZOO 4233 Parasitology (4) AS BIO**  
PR: BSC 2011, BSC 2011L and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211. Fundamentals of animal parasitology and parasitism, the biology of selected animal parasites, including those of major importance to man. Lecture and laboratory.
- ZOO 4512 Sociobiology MW (3) AS BIO**  
This course is restricted to seniors. Not for major's credit. An analysis of Animal and human behavior such as sex, territoriality, and aggression in the context of evolution.
- ZOO 4513 Animal Behavior (3) AS BIO**  
PR: PCB 3023 or PCB 3043 or PCB 3063 & CHM 2210 & MAC 1105 or higher-level MAC course or STA 2023. CP: CHM 2211. An introduction to comparative animal behavior, with analysis of types of animal behavior, their function and evolutionary origin. Lecture only.
- ZOO 4603C Animal Embryology (4) AS BIO**  
PR: PCB 3023 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023. CP: CHM 2211. Structural and functional events involved in differentiation and morphogenesis. Lec.-Lab.
- ZOO 4753C Human Histology and Histopathology (4) AS BIO**  
PR: PCB 3023, PCB 3063 & CHM 2210 & MAC 1105 or higher-level MAC course or STA 2023. CP: CHM 2211. The study of cellular and tissue organization as the basis of function in the human body. Functional morphology in normal and diseased states will be emphasized using an organ system approach.
- ZOO 5456 Ichthyology (3) AS BIO**  
PR: Senior or GS in Biology; ZOO 2701C, Cl. PCB 4674 is suggested. Evolution, systematics, structure, behavior, physiology, and ecology of fishes.
- ZOO 5456L Ichthyology Lab (1) AS BIO**  
CR/PR: ZOO 5456 Laboratory portion of Ichthyology relating to evolution, systematics, structure, behavior, physiology and ecology of fishes.
- ZOO 5463C Herpetology (4) AS BIO**  
PR: Cl. Major aspects of amphibian and reptilian biology emphasizing fossil history, evolutionary morphology, sensory physiology, life history and reproductive behavior. Lec.-lab. Field trip.
- ZOO 5555C Marine Animal Ecology (4) AS BIO**  
PR: PCB 3043, senior standing, Cl. Investigation of energy flow, biogeochemical cycles, and community structure in marine environments. Lec.-lab.

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**A**

Academic Advising for Undergraduate Students 34  
 Academic Calendar 4  
 Academic Computing 64  
 Academic Dishonesty 46  
 Academic Dismissal 42  
 Academic Grievance Procedures 44  
 Academic Load 38  
 Academic Major 56  
 Academic Minor 57  
 Academic Policies and Procedures 38  
 Academic Probation 42  
 Academic Programs and Services 61  
 Academic Record 37  
 Academic Regulations Committee 44  
 Academic Renewal 43  
 Academic Residence 55  
 Academic Scholarships 31  
 Accounting (ACC) 128, 233  
 Accreditation 6  
 Adds 35  
 Administrative Holds 37  
 Admission, Minimum Requirements for 12  
 Admission Policies, General 11  
 Admission of a College 44  
 Admission to the College of Arts and Sciences 70  
 Admission to the College of Business 126  
 Admission to the College of Engineering 150  
 Admission to the College of Visual and Performing Arts 194  
 Admission Requirements for Students Entering Educator Preparation Programs 134  
 Admissions and Related Matters 11  
 Adult, Career & Higher Education 136  
 Advanced Placement Credit Program 61  
 Advising and Records, College of Business Administration 127  
 Advising, College of Public Health 178  
 Advising, College of Visual and Performing Arts 192  
 Advising for Limited Access Programs 34

Advising for Non-Limited Access Programs 34  
 Advocacy Program 10  
 Aerospace Studies 188  
 Africa and the Diaspora, Center for 61  
 Africana Studies 78  
 Air Force ROTC 188  
 Anthropology 79  
 Applied Science, Bachelor of Science in 182, 212, 243  
 Applying for Admission 11  
 Architecture and Community Design 68  
 Army Reserve Officer's Training Corps (ROTC) 189  
 Art (ART) 195  
 Athletic Training 172  
 Arts and Sciences, College of 70, 225  
 Asian Studies, Certificate in 72  
 Associate of Arts 60  
 Attendance at First Class Meeting 34  
 Auditing Privileges and Fees 35  
 Availability of Courses 38

**B**

Baccalaureate Degree University Requirements 55  
 Bachelor of Science in Applied Science (APS) 182, 212, 243  
 Bachelor of Science in Hospitality Management 184, 244  
 Bachelor of Science in Information Technology 186, 217, 246  
 Behavioral Healthcare, Minor in 170  
 Biology 81  
 Biomedical Sciences 86  
 Biomedical Engineering, Certificate in 153  
 Bookstores, University 26  
 Business, College of 126, 231

**C**

Campus Dining Services 26  
 Campus Recreation 25  
 Cancellation Before First Class Day 35  
 Career Center 180  
 Certificate Programs, College of Public Health 179  
 Change of Major 44  
 Cheating 47  
 Chemical Engineering 154  
 Chemistry 84

Childhood Education 136, 237  
 Choice of Catalog, Student's 58  
 Civil and Environmental Engineering 156  
 Class Standing 43  
 Classics 117  
 CLAST 38  
 CLEP 61  
 College Level Academic Skills Test (CLAST) 38  
 College Level Examination Program (CLEP) 61  
 College of Arts and Sciences 70  
 College of Business 126  
 College of Education 133  
 College of Engineering 148  
 College of Marine Science 170  
 College of Medicine 172  
 College of Nursing 174  
 College of Public Health 177  
 College of Visual & Performing Arts 191  
 College Reach-out Program 61  
 Commencement 59  
 Communicating With The University 2  
 Communication 88  
 Communication Sciences and Disorders 89  
 Community Experiential Learning Program 72  
 Community Experiential Learning (CEL) Program 62, 72  
 Computer Science and Engineering 159  
 Confidentiality Policy 37  
 Contemporary Art Museum (CAM) 196  
 Correspondence Courses 62  
 Counseling Center for Human Development 21  
 Course Attendance at First Class Meeting 34  
 Course Information, General 250  
 Criminology 91, 225  
 Cross Enrollment 61

**D**

Dance (DAN) 198  
 Dean's List 44  
 Declaration of Major 38  
 Degrees Offered 6  
 Dining Services 26  
 Disruption of Academic Process 47  
 Double Undergraduate Major 58  
 Drops 35

**E**

Early Admission Applicants (Freshmen) 13  
 Early Childhood Education: Pre-Kindergarten/Primar 137, 238  
 Economics (ECO) 92  
 Economis (ECN) 128  
 Education, College of 134, 236  
 Education Advising 134, 236  
 Education Aborad Office 28  
 Education Baccalaureate Degree Progorams 135  
 Education Faculty 146  
 Education Requirements for Graduation 135  
 Educational Outreach 62  
 EducationalMeasurement and Research 142  
 English Language Institute 62  
 Elective Physical Education 142  
 Electrical Engineering 163  
 Elementary Education 138, 214, 239  
 Engineering, College of 148  
 Engineering Advising 151  
 Engineering Faculty 169  
 English 92, 226  
 English Education with ESOL Endorsement 138, 239  
 English Language Institute 61  
 Enhancement, Certificate in 154  
 Environmental Science and Policy 94  
 Evaluation of Transfer Credit 13  
 Evening Courses, Enrollment in 62  
 Exceptional Child Education with ESOL Endorsement 145, 222  
 Exit Requirements 51

**F**

Fees 29  
 Fees Liability 30  
 Fees Payment 30  
 Film Studies, Certificate in 73  
 Final Examinations 44  
 Finance (FIN) 129  
 Financial Aid 31  
 Financial Information 29  
 Florida College Exchange Program 62  
 Florida Mental Health Institute 170  
 Florida Public Community College Cross Enrollment 61  
 Florida Residency For Tuition Purposes 29

Foreign Language Education with ESOL Endorsement 139  
 Foreign Language Graduation Requirement 55  
 Foreign Language Placement 55  
 Former Student Returning 38  
 French (FRE) 119  
 Freshman English Requirement 54  
 Freshman Summer Institute 181

**G**

General Admission Policies 11  
 General Attendance 35  
 General Business (GBA) 127, 215  
 General Course Information 250  
 General Education Requirements 48  
 General Engineering 168  
 Geography 95  
 Geology 96  
 George Jenkins Scholars Program 66  
 German (GER) 119  
 Gerontology 98  
 Gordon Rule 39  
 Government & International Affairs 99  
 Grade Forgiveness Policy 42  
 Grade Point Average 41  
 Grades 41  
 Graduation, Application for 58  
 Graphicstudio 196  
 Guide to Resources for Students with Disabilities 8

**H**

Health Professions 77  
 History 101, 227  
 Honors at Graduation 59  
 Honors College 17, 66  
 Honors Research Major 66  
 Hospitality Management 184  
 Housing and Residential Education 23  
 Humanities and American Studies 102

**I**

"I" Grade Policy 41  
 I.D. Card 27  
 Immunization Policy 22  
 Independent Study 62

Industrial and Management Systems Engineering 164, 216  
 Information Systems and Decision Sciences (ISM) 130  
 Information Technologies/CFRDC 64  
 Information Technology, Bachelor of Science in 186, 217  
 Intercollegiate Athletics 25  
 Interdisciplinary Natural Sciences 86  
 Interdisciplinary Social Sciences 103, 219, 227  
 International Affairs 28  
 International Business (ITB) 131  
 International Services, Office 28  
 International Studies 99  
 IT Certificate Programs 186, 216, 245  
 Italian (ITA) 120  
 Italian Studies, Certificate in 73

**J**

Judicial Procedures 26  
 Jury Duty (Students) 35

**K**

Kosove Scholarship Program 67

**L**

Lakeland - USF Lakeland 211  
 Latin American & Caribbean Studies, Certificate in 74  
 Latin America and the Caribbean (ISLAC), Institute for the Study of 28  
 Leadership Studies 192, 223  
 Liberal Arts 48  
 Liberal Arts Exit Requirements 51  
 Liberal Arts General Education Requirements 48  
 Liberal Studies 104  
 Library and Information Science 104  
 Library System 63  
 Limited Access Programs, Advising 34  
 Linguistics 119  
 List of Majors and Programs - Sarasota 222  
 Louis de la Parte Florida Mental Health Institute 170

**M**

"M" Grade Policy 42  
 Major, Academic 56  
 Management and Organization (MAN) 130, 235  
 Mandatory Course Attendance at First Class Meeting 34  
 Marine Science, College of 171  
 Marketing (MKT) 130, 235  
 Marshall Student Center 24  
 Mass Communications 104  
 Materials Science and Engineering, Certificate in 154  
 Mathematics and Statistics 107  
 Mathematics Education 140  
 Mechanical Engineering 166  
 Medical Technology 87  
 Military Science 189  
 Minimum Requirements for Admission 12  
 Minor, Academic 57  
 Mission and Goals 7  
 Modern Languages 119  
 Modern Western European Studies, Certificate in 74  
 Music (MUS) 201

**N**

Naval Science 190  
 Navy ROTC 190  
 Nursing, College of 174, 242

**O**

Off-Campus Housing 23  
 Organization and Personnel 347  
 Orientation and Initial Advising 34

**P**

Parents Association 20  
 Parking and Transportation 31  
 Payment of Accounts Due the University 31  
 Pre-Law 100  
 Philosophy 109  
 Phyllis P. Marshall Center 23  
 Physical Education and Exercise Science 142  
 Physics 110  
 Plagiarism 46  
 Political Science 99  
 Professional Engineering 148  
 Project Thrust 181  
 Psychological and Social Foundations of Education 145

Psychology 111, 220, 228  
 Public Broadcasting 65  
 Public Administration 101  
 Public Health, College of 178

**Q**

Qualifications for Internship Experience 134, 235

**R**

Refund of Tuition 30  
 Registrar, Office of the 33  
 Registration 33  
 Registration for Admitted Degree-Seeking Students 34  
 Rehabilitation and Mental Health Counseling 112  
 Release of Student Information 36  
 Religious Days 35  
 Religious Studies 112  
 Repeat Course Surcharges 36  
 Repeat Course Work 58  
 Requirements for B.A. Degrees, College of Visual & 192  
 Requirements for B.A./B.S. Degree, College of Bus 126, 229  
 Research, Office of 65  
 Residence Services 23  
 ROTC Programs  
     Air Force 188  
     Army 189  
     Naval 190  
 Russian (RUS) 119  
 Russian Studies, Certificate in 75

**S**

S/U Grade System 42  
 Sarasota-Manatee 222  
 SASS 36  
 Science Education 140  
 Second Baccalaureate Degree (Transfer Students) 58  
 Second Undergraduate Major 58  
 Secondary Education 138, 239  
 Semester System 38  
 Scholarships, Academic 31  
 Social Science Education 142, 240  
 Social Work 114, 221, 229  
 Sociology 115  
 Spanish (SPA) 119  
 Special Education 145, 241  
 Sports Medicine 172  
 St. Petersburg 249

Standards of Student Conduct 25  
 Statement of Institutional Purpose 7  
 Statewide Course Numbering System 254  
 Student Academic Grievance Procedures 44  
 Student Academic Support System (SASS) 36  
 Student Activities 24, 25  
 Student Affairs and Student Services 20  
 Student Affairs, Division of 20  
 Student with Disability Services 20  
 Student Government 24  
 Student Health Services 21  
 Student Information, Release of 36  
 Student Information Changes 37  
 Student Information, Release of 36  
 Student Judicial Procedures 25  
 Student Learning Commons 21  
 Student Leadership 190, 220  
 Student Organizations and Activities 145  
 Student Organizations in the College of Arts and Sciences 121  
 Student Organizations within the College of Business 132  
 Student Organizations and Activities (Education) 146  
 Student Publications 25  
 Student Records Policy 36  
 Student Relations 21  
 Student Support Services Program 181  
 Student's Choice of Catalog 58  
 Study Abroad and Exchanges, Office of 28  
 Summer Enrollment Requirement 55  
 SunCoast Area Teacher Training Program (SCATT) 136

**T**

TAPS - Tracking the Academic Progress of Students 182  
 Teacher Education Programs 133, 233  
 Technology Management, Certificate in 154  
 Testing Services 61  
 Theatre (TAR) 208  
 Total Quality Management, Certificate in 154  
 Transcript Information 36

U		W
Transfer Applicants, Lower-Level 14	Undergraduate Studies 180	Washington Internship Program 62
Transfer Applicants, Undergraduate 13	University Bookstores 26	Wireless Engineering, Certificate in 154
Transfer Applicants, Upper-Level 14	University Police 9	Withdrawal 35
Transfer Credit, Evaluation of 15	Upward Bound 61	Women's Spirituality, Certificate in 77
Transfer of Credit to USF 38	Urban Studies, Certificate in 76	Women's Studies 116
Transient Students 61	USF I.D. Card 27	World Languages 117
Transitional Advising Center (TRAC) 180	USF St. Petersburg 249	WUSF-TV 65
V		
Tuition 29	Veterans Affairs (VA) Benefits 32	
Tuition, Release of 30	Visual and Performing Arts, College of 193	
Two Degrees 58		