

UNDERGRADUATE STUDIES

UNIVERSITY OF SOUTH FLORIDA - 2009/2010 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 Applied Science Program, the Bachelor of General Studies Program, BS in Applied Science 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.

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, national and international 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.

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 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-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.

Tutoring & Learning Services

Location/phone: LIB 206, (813) 974-2713

Tutoring & Learning Services is part of the Library Learning Commons and is located on the second floor in 206, LIB 206. Offering a variety of academic support services, the mission of the department is to strengthen students' ability to learn effectively and efficiently. Tutoring is available in many different subject areas including math, science, languages, and all CLAST subtests and is free for all registered USF students. Appointments are encouraged and can be scheduled by phone or in person. 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 Center

Location/phone: LIB 109, (813) 974-2713

The Writing Center is a place for writers of all skill levels to take chances, ask questions, and develop their abilities. The Writing Center is another academic support partner in the Library Learning Commons and is located at LIB 109, just beyond the Reference Desk. Writing support is free to all registered USF students. Writing consultants are graduate students from the English Department who are qualified to assist all levels of students from first-year undergraduate, to doctoral level and including staff and faculty. Appointments are encouraged and can be scheduled by phone or in person.

First Generation Access and Pre-collegiate Programs

Location/phone: SVC 2034, (813) 974-4227

Web address:

The First Generation Access and Pre-collegiate Programs (FGAPP) consist of retention programs providing access to a university education for promising first year students who are first-generation college students and/or come from limited income

302 UNDERGRADUATE STUDIES

UNIVERSITY OF SOUTH FLORIDA - 2009/2010 UNDERGRADUATE CATALOG

households. The Freshman Summer Institute and the Student Support Services programs provide services and activities that focus on helping students transition from high school to college, improving student persistence and graduation, promoting academic achievement and providing academic, social, and cultural support during their matriculation at the University.

FGAPP also administers federal and state funded pre-collegiate programs charged with serving the needs of underserved students in Hillsborough County. These programs, Upward Bound and the College Reach-Out Program (CROP), work with first-generation and limited income secondary students (grades 8 thru 12) who aspire to attain a post-secondary education. Both programs encourage, support, and prepare students to successfully complete high school on a timely basis and acquire the necessary skills, to successfully enter and graduate from their college of choice.

The Freshman Summer Institute

Location/phone: SVC 2034, (813) 974-4227

Web address:

The Freshman Summer Institute (FSI) provides access to a university education for students from first generation and/or limited income families and identifies qualified individuals through a review of admission applications, academic records, and family income as determined by the Free Application for Federal Student Aid. Each year a limited number of students enter USF through this program.

All students admitted to FSI must enroll in a six-week summer session. 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 a rigorous academic schedule over a six-week period consisting of nine credits in general education courses. 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. Students 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. Continuous counseling and advising is a crucial element of the program. Counselors 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

Location/phone: SVC 2042, (813) 974-4301

Web address:

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.

ENLACE

Location/phone: SVC 2031, (813) 974-2563

Web address:

ENLACE (Engaging Latino Communities for Education) is a program designed to promote academic success, retention, and graduation of Latino students on the University of South Florida campus. Focusing on first generation in college students from limited income families, the program helps students make a smooth transition to campus life and provides services designed to help create a strong sense of community of students. ENLACE provides motivation, encouragement, and guidance in

professional and personal development. Students are encouraged to participate in community outreach programs through activities that celebrate their culture, educate their community, and provide opportunities for growth and development.

College Reach-Out Program

Location/phone: HMF 218, (813) 974-3713

Web address:

The College Reach-Out Program (CROP) is a statewide program designed to increase the number of students who successfully complete a postsecondary institution. The program's primary objective is to strengthen the educational motivation and preparation of low-income and educationally disadvantaged students in grades 8 through 12, representing various cultural backgrounds, who otherwise would be unlikely to seek admission to a community college, state university, or independent post secondary institution without special support and recruitment efforts.

The goals of CROP are to motivate students to pursue a postsecondary institution, develop students' basic learning skills, to strengthen students' and parents' understanding of the benefits of postsecondary education, and foster academic, personal, and career development through supplemental instruction.

Upward Bound Program

Location/phone: SVC 2050, (813) 974-4301

Web address:

The Upward Bound Program (UBP) at the University of South Florida provides fundamental support to participants in their preparation for college placement. The program provides opportunities for participants to succeed in their pre-college performance and ultimately in their higher education pursuits. UBP serves high school students (grades 9 through 12) from low-income and first-generation college households.

The goal of UBP is to increase the rates at which high school students enroll in and graduate from institutions of post-secondary education. The purpose of UBP is to provide assistances in developing goals, improving academic skills, and providing the motivation necessary to achieve success in a college or post-secondary program. The program serves 130 students from 10 target schools in the Hillsborough County School District that have been determined to have a high need for academic support.

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 GENERAL STUDIES (BGS)

Location: SVC 1072

Phone: 1-888-873-4968 (USF4YOU)

FAX: 813-974-7061

E-mail: usf4you@admin.usf.edu

<http://www.usf4you.usf.edu/programs/bachelorsBGS.asp>

USF's Bachelor of General Studies Degree (BGS) is a customized, interdisciplinary degree that provides students with options to choose an appropriate academic program that fits their educational and professional goals. The BGS program will provide mid-career adult students with the opportunity to integrate completion of the baccalaureate degree into their established lifestyle.

304 UNDERGRADUATE STUDIES

UNIVERSITY OF SOUTH FLORIDA - 2009/2010 UNDERGRADUATE CATALOG

To be eligible for admission to the BGS program, students must first be admitted to USF. After admission to USF, students must:

- Have completed at least 60 credit hours at a regionally accredited college or university
- Have been out of school for approximately three (3) or more years
- Complete a screened application process conducted by a program advisor
- Be in good standing with former educational institutions
- Demonstrate ability and desire to complete the degree (personal statement, letters of recommendation)

BGS applications include three (3) letters of recommendation, a Personal Goal Statement, Resume (1-2 pages). These documents should be sent directly to:

Bachelor of General Studies Program
Metro Initiatives/USF4YOU
University of South Florida
4202 E. Fowler Avenue, SVC 1072
Tampa, FL 33620

Upon acceptance to the BGS, students will complete the necessary coursework to reach 120 credit hours. The 120-hour requirement includes completing the following:

- USF General Education (GE) requirements or approved equivalents – unless GE credits were completed at another Florida institution
- USF residency requirements (at least 30 hours earned at USF)
- One or two disciplinary concentrations selected by the student and approved by the advisor
- All USF exit requirements
- All CLAST and foreign language requirements
- A minimum of 48 semester hours of upper-level work, (courses numbered 3000 and above)

BGS students will take an active role in creating their academic programs. Rather than choosing a traditional major, BGS students can choose from a number of established plans of study or can create their own individualized plan of study. BGS students complete 18-24 credits (core courses and electives) within selected concentrations:

Aging Studies
Behavioral Healthcare Services
Business
Environmental Policy and Management
Hospitality Management
Information Technology
Public Administration
Public Health
Urban Studies
Women's Studies

All BGS students complete a capstone experience identified by the home department of each concentration. Each department may develop specific capstone courses or prefer to enroll their students in a BGS capstone course developed by the faculty members on the BGS advisory committee.

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 21st 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	6
USF Area of Concentration*	18-21
USF Electives**	<u>15-18</u>
Total BSAS Credit Hours	<u>120</u>

*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 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)

Online Programs: The only BSAS Areas of Concentration available completely online are Criminal Justice, Industrial Operations and Information technology. All courses required for Public Health are available online with the exception of a mandatory first day attendance on-campus requirement for one course – HSC4531 Medical Terminology.

Requirements for Areas of Concentration

BSAS - American Sign Language (ASG) Concentration consists of 19 credit hours:

- ASL 2140C Basic American Sign Language (4)
- ASL 2150C Intermediate American Sign Language (4)
- ASL 4161C Advanced American Sign Language (4)

PLUS ONE OF THE FOLLOWING:

- ASL 4201C American Sign Language IV (4)
- ASL 4301C Structure of Sign Language (4)

PLUS ONE OF THE FOLLOWING:

- ASL 3514 American Deaf Culture (3)
- SPA 4632 Nature and Needs of Deaf and Hard of Hearing (3)

306 UNDERGRADUATE STUDIES

UNIVERSITY OF SOUTH FLORIDA - 2009/2010 UNDERGRADUATE CATALOG

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 USF Polytechnic or Sarasota-Manatee 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)
OR	
GEB 4890 Strategic Management & Decision Making	(3)
MAR 3023 Basic Marketing	(3)

BSAS – Early Childhood Development Concentration (AEC) consists of 18 credit hours:

Only available at USF Polytechnic or Sarasota-Manatee 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 21st 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-Manatee 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 3003 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 USF Polytechnic 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)
MAN 3025 Principles of Management	(3)
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)

308 UNDERGRADUATE STUDIES

UNIVERSITY OF SOUTH FLORIDA - 2009/2010 UNDERGRADUATE CATALOG

BSAS - Information Technology (ATC) consists of 18 credit hours:

Available at the Polytechnic, Sarasota-Manatee, and Tampa campuses.

The BSAS-IT concentration consists of 19 to 21 credit hours. Students will formulate a program of study for the concentration, which will be evaluated and approved by the department on the basis of how well it fits their stated educational and career goals. The concentration will typically consist of two required courses and four additional courses selected from those offered by the department or other departments.

Required Courses:

CGS 3303 IT Concepts (3 credit hours)

EEL 4782 & EEL 4782L IT Networks and Lab (4 credit hours)

Select four additional courses:

Students select four courses that support their educational or career goals. These could aim toward a specialization in IT (such as application development, web design, networking, information security, etc.) or a particular industry segment (health care, education, manufacturing, logistics, etc.).

Please note that selection of some courses may require that the student must fulfill additional prerequisite requirements.

BSAS – Leadership Studies (ALS) consists of 18 credit hours:

Students must complete 6 credit hours from each tier (total 18 cr. hrs.).

Tier I (6 hrs): Personal Systems

LDR 2010 Leadership Fundamentals (3)

or

LDR 3930 Leading in the Workplace (3)

plus

LDR 4104 Leadership Theories (3)

Tier II (6hrs): Organizational Systems — select any two

LDR 4114 Contemporary Leadership Readings (3)

LDR 4164 Organizational Theory and Process (3)

LDR 4564 Images of Leadership in Print & Film (3)

LDR 3214 Leadership in the Fraternal Movement (3)

LDR3930-Special Topics (organizational) (3)

Tier III (6hrs): Global Systems — select any two

LDR 3263 Leadership Practicum (3)

LDR 4204 Ethics & Power in Leadership (3)

LDR 4230 Global Leadership (3)

LDR 3930 Special Topics (global) (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

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.

310 UNDERGRADUATE STUDIES

UNIVERSITY OF SOUTH FLORIDA - 2009/2010 UNDERGRADUATE CATALOG

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 or ACG X022 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 (CLAS) requirements 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 2600/2608 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*

312 UNDERGRADUATE STUDIES

UNIVERSITY OF SOUTH FLORIDA - 2009/2010 UNDERGRADUATE CATALOG

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.

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; *Associate Professor:* "David" Yao-Jen Chang; *Assistant Professors:* Katerina D. Annaraud, Gregory E. Dunn.

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 at the Polytechnic, Sarasota-Manatee, and Tampa Campuses.

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.

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, and students must have a 2.5 GPA in the pre-requisite courses overall.

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 or STA X122
- ECO X013 Economics (Macroeconomics)
- CGS XXXX Any Database Course
- COP 2XXX Programming Concepts Course
- COP 2XXX Any Object-Oriented Computer Programming Course
- MAC XXXX Pre-Calculus Course
- PHY XXXX Any Physics Course
- XXX XXXX Discrete Mathematics Course

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

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

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 Laboratory 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

314 UNDERGRADUATE STUDIES

UNIVERSITY OF SOUTH FLORIDA - 2009/2010 UNDERGRADUATE CATALOG

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 Laboratory 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 are a four year undergraduate degree plus the following:

MAC xxx Pre-Calculus	3 hrs.
STA 2023 Intro. To Statistics	3 hrs.
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 are a four year undergraduate degree plus the following:

STA 2023 Intro. To Statistics	3 hrs.
CGS xxxx Any Data Base	3 hrs.
COP 2xxx Programming Concepts	3 hrs.
COP 2xxx Object-Oriented Programming	3 hrs.
MAC xxxx Pre-Calculus	3 hrs.
MAC 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	<u>3</u>

Total	30
-------	----

UNDERGRADUATE CERTIFICATE PROGRAMS IN INFORMATION TECHNOLOGY (IT)

There are two undergraduate specialization certificates available to BSIT or BSAS/BGS IT Concentration students. To earn either of these certificates, a student must complete a specified list of courses, earning in each course a minimum grade of B. All prerequisites for these courses must also be satisfied.

CERTIFICATE OF SPECIALIZATION IN INFORMATION SECURITY

The student must complete five courses (15 credit hours) in Information Security. The certificate will be issued when a student has earned and received no less than a grade of B in each of the five classes in their concentrated certificate program. The certificate can be completed in one full year if the student takes all courses available each semester.

The student must complete **15 hours** selected from the following:

CIS 3360 Principles of Information Security	3
CIS 3362 Cryptography and Information Security	3
CIS 3374 Architecting Operating Systems Security	3
CNT 3403 Network Security and Firewalls	3
CIS 4365 Computer Security Policies & Disaster Recovery	3
CIS 4361 Information Security Management	3
ETG 493x Special Topics in Information Security	<u>3</u>
Total	15

CERTIFICATE OF SPECIALIZATION IN WEB DEVELOPMENT

The student must complete five courses (15 credit hours) in Web Development. The certificate will be issued when a student has earned and received no less than a grade of B in each of the five classes in their concentrated certificate program. The certificate can be completed in one full year if the student takes all courses available each semester.

The student must complete 15 hours selected from the following:

316 UNDERGRADUATE STUDIES

UNIVERSITY OF SOUTH FLORIDA - 2009/2010 UNDERGRADUATE CATALOG

CGS 3823	Web Page Design	3
COP 4703	Database Systems	3
COP 4834	Data-Driven Web Sites	3
CGS 4786	Web Development Tools	3
CTS 3801	e-Commerce	3
COP 4816	XML Applications	3
COP 4814	Web Services	3
ETG 493x	Special Topics in Web Development	3
Total		15

Information Technology Faculty

Chair (Interim): W. D. Armitage; *Faculty:* P. Bao, A. Ejnoui, F. Fleschute, A. Gaspar, R. Hawat, S. Ludwig, R. Walsh, A. Weitzenfeld, 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 Officers 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

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

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 Corps 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 Corps Four-Year 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

320 UNDERGRADUATE STUDIES

UNIVERSITY OF SOUTH FLORIDA - 2009/2010 UNDERGRADUATE CATALOG

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	<i>Sem. Hrs.</i>	
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, Roger Phelps, Michelle Stanforth.

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.

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):

LDR 2010 Leadership Fundamentals	3
LDR 4114 Survey of Leadership Readings	3

Elective Courses (12 hours):

LDR 3263 Community Leadership Practicum	3
LDR 4104 Theories of Leadership	3
LDR 4164 Organizational Theories and Processes	3
LDR 4204 Ethics and Power in Leadership	3
LDR 4564 Images of Leadership in Print and Film	3
SLS 3930 Selected Topics in Leadership	1-4