

# UNDERGRADUATE STUDIES

UNIVERSITY OF SOUTH FLORIDA - 2004/2005 UNDERGRADUATE CATALOG

**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. The Dean supervises several units and undergraduate academic programs that are not the purview of a single school or college including the offices of Evaluation and Testing, Air Force ROTC Program, Army ROTC Program, and Navy ROTC Program and acts on recommendations from the Undergraduate Council, the Academic Regulations Committee, the Council on Academic Advising, and the Faculty Committee on Student Admissions. As the Director of Community College Relations, the Dean develops articulation agreements with community colleges, area school boards, and area high schools.

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.

## Evaluation and Testing

**Location/Phone:** SVC 2054; (813) 974-2742  
**Office Hours:** 8 a.m. – 5 p.m., Monday through Friday  
**Web Address:** <http://www.usf.edu/testing>

The Office of Evaluation and Testing serves four 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 SAT, ACT, CPT, CLAST, GRE, MCAT, and LSAT.
2. Scanning and Scoring Services: Analysis and advisory services aid in construction and validation of tests used in classes; survey design and data analysis are also available for research purposes as well as test scoring and analysis by machine. In addition, this office coordinates the student assessment of instruction process.
3. Credit-By-Examination: The College-Level Examination Program (CLEP) is administered through this office. Information on other programs such as the Advanced Placement Test (APT) is available.
4. College Level Academic Skills Test (CLAST): This office, in addition to administering the CLAST, implements many of the rules and policies of the College Level Academic Skills Program (CLASP).

## 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/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 efficiently into most 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 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 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 also complete:

- a minimum of 48 credit hours of upper-level (3000-4000) 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 the Behavioral Healthcare Area of Concentration (ABH)****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 4407	Exemplary Practices in Behavioral Healthcare Treatment	(3)
MHS 4820	Field Experience in Behavioral Healthcare	(3)
SOC 4930	Clinical Case Management in Community Care	(3)

AND, ONE OF THE FOLLOWING:

MHS 4931	Selected Topics in Behavioral Healthcare	(3)
MHS 4906	Directed Study/Readings	(3)

**Requirements for the Criminal Justice Area of Concentration (ACJ)****BSAS - Criminal Justice Concentration (ACJ) consists of 18 credit hours:**

Only available at Lakeland or Sarasota campus

CCJ 3024	Survey of Criminal Justice	(3)
CCJ 3610	Theories of Criminal Behavior	(3)
CJL 3110	Substantive Criminal Law	(3)
CJC 4010	American Correctional Systems	(3)
CCJ 4934	Seminar in Criminology	(3)
CJE 4144	American Law Enforcement	(3)

**Requirements for the General Business Area of Concentration (ABU)****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 4XXX	Managerial Applications	(3)
MAR 3023	Basic Marketing	(3)

**Requirements of the Gerontology Area of Concentration (AGR)****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 any 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)

**Requirements for the Public Administration Area of Concentration (APU)****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)

**Requirements for the Urban Studies Area of Concentration (AUR)****BSAS - Urban Studies Concentration (AUR) consists of 18-21 credit hours:**

URS 3002	Introduction to Urban Studies	(3)
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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: Sarasota/Manatee Campus, PMD 223

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 prepares individuals for entry-level management and supervisory level positions in the hospitality industry. A general business education 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 with the review

of the curriculum, school development and programming, prepares students for future career challenges.

Students should have 60 transferable hours and an overall GPA of 2.0 prior to admission to the University of South Florida.

**Prerequisites (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements, thereby transferring maximum hours to the university. 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
- ACG X071 Principles of Managerial Accounting
- ECO X013 Macroeconomics
- ECO X023 Microeconomics
- QMB X100 Statistics I or STA X023
- CGS X100 Computers in Business or CGS X000
- MAC X233 Elementary Calculus or MAC X230

**Major requirements for the B. S. Degree In Hospitality Management** are as follows:

**Business Courses (12 Credits)**

- FIN 3403 Principles of Finance
- ISM 3011 Information Systems in Organizations
- MAN 3025 Principles of Management
- MAR 3023 Basic Marketing

**Hospitality Courses (36 Credits)**

- FSS 3220 Introductory Food Preparation Management
- HFT 3000 Introduction to Hospitality and Tourism
- HFT 3261 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 4474 Mgmt Accounting & Finance for the Hospitality Industry

- HFT 4930 Selected Topics in Hospitality Management
- HFT 4945 Advanced Internship (300 hours)

**Communications Courses (6 Credits)**

- COM 3110 Communication for Business and the Professions or SPC 2600 Public Speaking
- ENC 3310 Expository Writing or ENC 3213 Professional Writing

**Non-Credit Major Requirement**

In addition to completion of HTF 4945, students must complete an additional 700 documented working hours in the hotel and/or restaurant industry before graduation.

**School of Hotel and Restaurant Management Faculty**

Director: Jay R. Schrock; Coordinator: Amanda M. Kulaw  
 Program Email: [hospitality@sar.usf.edu](mailto:hospitality@sar.usf.edu) Location: Sarasota/Manatee Campus, PMD 223

**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	
ECO X013	
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 1147	Coll. Alg. and Trig.	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
CDA 3101	Computer Organization for Information Technology	3
ENC 3211	Communication for Engineers	3
INR 3033	International Political Cultures	3
CEN 3722	Human Computer Interfaces for IT	3
Total		15

#### Semester VI

EEL 4854	Data Structures and Algorithms for IT	3
COP 4610	Operating Systems for IT	3
ENC 4260	Advanced Technical Writing	3
COP 3451	IT Concepts	3
IT Approved Electives		3
Total		15

#### Semester VII

CIS 4703	Database Systems for IT	3
CEN 4031	Software Engineering Concepts for IT	3
EEL 4782	Computer Information Networks for IT	3
IT Approved Electives		6
Total		15

#### Semester VIII

COP 4930	Information Technology Seminar	1
CIS 4935	Senior Project in IT	3-5
CIS 4253	Ethical Issues for Information Technology	3
IT Approved Electives		6
Total		13 - 15

### 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 that may 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:

ETG 3931	ST: IT Electronic Commerce	3
CEN 3722	IT Human Computer Interface	3

ETG 4931	IT Web Page Design & Adm.	3
COP 4930	IT Seminar	3
CIS 4925	IT Senior Project	3
ENC 4260	Advanced Technical Writing	3
CIS 4361	IT Security Management	3
CIS 4412	IT Resource Management	3
	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 (12 credit hours):

COP 3515	IT Program Design	3
COP 4610	IT Operating Systems	3
COP 4610L	IT Operating Systems Lab	1
CDA 3200	IT Computer Organization	3
EEL 4854	IT Data Structures and Algorithms	3
Electives (18 credit hours):		
ETG 3931	ST: IT Electronic Commerce	3
CEN 3722	IT Human Computer Interface	3
CIS 4500	IT Database Systems	3
CEN 4031	IT Software Engineering	3
EEL 4782	Comuter Information Networks for IT	3
EEL 4782L	Computer Information Networks for IT Lab	1
ETG 4931	IT Web Page Design and Administration	3
COP 4930	IT Seminar	3
CIS 4935	IT Senior Project	3
ENC 4260	Advanced Technical Writing	3
CIS 4361	IT Security Management	3
CIS 4412	IT Resource Management	3
	IT Current Topics	3
	IT Approved Elective	3
Total		30

**Information Studies Faculty**

Chair: A. Karshmer; Faculty: W.D. Armitage, F. Fleischute, A. Gaspar, B. Harding, Q. Zhang.

**Aerospace Studies  
Air Force ROTC**

Location/Phone: BEH 360; (813) 974-3367

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

Web Address: <http://web.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 one- 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 \$36,000 per year.

AFROTC is offered as a one-, 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 and 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 one-year program is provided to students entering their senior year - per the needs of the Air Force. The student attends a five-week field training encampment in the summer prior to 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, 2, and 1-year scholarships are available for eligible applicants. These scholarships pay all tuition, fees, books, and a \$250-\$400 per month tax-free stipend. Non-scholarship sophomores are eligible for the General Military Course Incentive, receive up to \$1,500 in tuition. Non-scholarship students in the final two years of the program are eligible for the Professional Officer Course Incentive (POCI) and a monthly \$350-\$400 tax-free stipend. Qualified POCI students receive up to \$3,850 a year which covers tuition, fees, and books. 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 BEH 360 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 Forces in Contemporary American Society I	3
AFR 4211 National Security Forces in Contemporary American Society II	3
c. Other specifications: combination of 4 credit hours from any of the military elective courses below:	
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 2940 Basic Aerospace Internship	
Optional Courses:	
MSL 1001C Fundamentals of Officership	2
MSL 1002C Basic Leadership	2

MSL 2101 Leadership and Teamwork	2
MSL 2102 Leadership and Teamwork	2
MSL 3201C Leadership and Problem Solving	3
MSL 3202C Leadership and Ethics	3
MSL 4302C Officership	3

### Aerospace Studies Faculty

Professor: Robert J. Butler; Assistant Professors: Bob Ingraham, Honoré Spencer, Michael Wilson.

## Military Science Army Reserve Officer's Training Corps (ROTC)

**Location/Phone:** BEH 336/(813) 974-4065

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

**Web Address:** <http://web.usf.edu/~usfarotc/>

**Email Address:** [armyrotc@arotc.usf.edu](mailto:armyrotc@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, books, lab **and mandatory** fees, and certain other academic expenses. All Advanced Course and scholarship students receive a monthly subsistence payment that ranges from \$250.00 as a freshman to \$350.00 as a senior. This is in addition to the pay of approximately \$700.00 while attending the five-week field training course at the **National Advanced Leadership Training 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 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 **National Advanced Leadership 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 **National Advanced Leadership Course**, maintain and graduate with a minimum of a 2.0 GPA, successful completion of the Army Physical Readiness 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 Leadership and Problem Solving	(3)
MSL 3202C Leadership and Ethics	(3)
MSL 4301C Leadership and Management	(3)
MSL 4302C Officership	(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 Foundations of Officership	(2)
MSL 1002C Basic Leadership	(2)
MSL 2101C Individual Leadership Studies	(2)
MSL 2102C Leadership and Teamwork	(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: Joseph M.J. Kools; Assistant Professors: Daniel Eadens, Jason Miller, Richard Lexvold; Instructor: James Lang.

## Naval Science Naval ROTC

**Location/Phone:** BEH 301

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

**Web Address:** <http://www.ugs.usf.edu/nrotc/nrotc.htm>

**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 programs, 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 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 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 reserve commission as Ensign in the U.S. Naval Reserve or Second Lieutenant in the U.S. Marine Corps Reserve and serve on active duty for a minimum of four years.

**The Navy-Marine 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 all 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 Reserve commission as an Ensign in the U.S. Naval Reserve or a Second Lieutenant in the U.S. Marine Corps Reserve and serve on active duty for a minimum of three years.

**Two-Year NROTC College Program (Non-Scholarship)**—The USF NROTC offers 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 subsistence allowance.

**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.

**Summer Training**—The NROTC Scholarship Program student is required to complete training of approximately four weeks during each of the three summer recesses. The second summer training will be performed aboard operational ships of the U.S. Fleet. 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. During the third summer, candidates for U.S. Navy commissions will perform training aboard operational ships 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 designed to prepare mid-shipmen 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 Summer Training at Quantico attends the Woman Officer Candidate Course at Officer Candidates School 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.

<b>Freshman Year</b>	<i>Sem. Hrs.</i>
NSC 1110 Introduction to Naval Organization (Note 1)	3
NSC 1140 Seapower and Maritime Affairs (Note 1)	3
NSC 1101 Naval Science Lab	0
<b>Sophomore Year</b>	
NSC 2121 Naval Ships System I (Note 1)	3
NSC 4231 Principles of Naval Management I	3
NSC 2213 Naval Operations (Note 1)	3
NSC 2221 Evolution of Warfare (Note 2)	3
MAC 3311, 3312 Calculus I, II (Note 3)	8
<b>Junior Year</b>	
NSC 3214, 3213 Navigation I, II (Note 4)	3
Amer. Military History/International Relations (Note 5)	3
Computer Science Elective (Note 5)	3
PHY 3048, 3049 Physics I, II (Note 3)	10
<b>Senior Year</b>	
NSC 3122 Naval Ships Systems II (Note 4)	3
NSC 4232 Principles of Naval Management II (Note 4)	3
NSC 4224 Amphibious Warfare (Note 2)	3

**NOTES:**

- (1) Undergraduate naval sciences required to be completed for a scholarship student before Fall Semester junior year.
  - (2) Required of Marine Option midshipmen only
  - (3) One year each of calculus and calculus based physics is required for every Navy, option scholarship student. Recommended but optional for College Program and Marine Options.
  - (4) Upper division Naval Sciences required of Navy Options are not required of Marine Options.
  - (5) The following courses may be used to meet the American Military History/National Security Policy and Computer Science requirements:
    - \*AMH 3540 American Military History
    - INR 3002 International Relations
    - INR 4102 American Foreign Policy
    - \*COP 1215 and 1215L Fundamentals of Programming
    - CGS 1160 Microcomputer Applications
    - CGS 2120 Introduction to Computing with Programming
- \*Indicates recommended courses

**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 two-hour laboratory covering professional and military subject matter. Attendance is mandatory for all midshipmen.

**Naval Science Faculty**

*Professor:* Richard L. Dick; *Assistant Professor:* Henry Allen, John Sarao.

**STUDENT LEADERSHIP 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 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