

Aerospace Studies

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Admissions Officer

Florida International University, in cooperation with the Department of Aerospace Studies, Air Force Reserve Officers' Training Corps (AFROTC) at the University of Miami, provides academic instruction and training experiences leading to commissioned service in the United States Air Force.

There is no military obligation to sign up for AFROTC. To take classes students must be U.S. citizens or resident aliens, and must be U.S. citizens to receive a commission. AFROTC cadets must also pass the Air Force Officer Qualifying Test, a physical fitness test including a 1.5 mile timed run, push-ups and sit-ups and pass a Department of Defense physical exam in order to be eligible for scholarships and ultimately commissioning.

All AFROTC cadets receive uniforms, books and equipment for ROTC classes at no cost. Upon being commissioned a 2nd Lieutenant in the Air Force, you will receive a starting salary and allowances worth more than \$40,000 per year. Free medical and dental care, 30 days annual vacation with pay tax deferred Federal Government-sponsored retirement savings and investment plan (similar to a "401(k)" plan) and added educational benefits are also part of the compensation package.

Educational Objectives

AFROTC is an educational program designed to give men and women the opportunity to become Air Force officers while completing a Bachelor's degree. Exciting job opportunities exist everywhere in the Air Force. In addition to the recurring need for pilots, the Air Force also needs personnel to work in navigation, space and missile operations, engineering, mathematics, physics, computer science, and in the support fields of personnel, administration, logistics, finance, education, security forces, health, and others. In the years ahead, Air Force ROTC will continue to concentrate on preparing men and women to assume vital positions of leadership in the modern Air Force.

AFROTC cadets receive junior officer training, career orientation, and learn how the Air Force operates. The end product of the AFROTC program is to produce 2nd lieutenants in the Air Force upon graduation. For more information, contact Detachment 155 at (305) 284-2870.

Minor in Aerospace Studies

The Aerospace Studies minor consists of eight courses totaling 16 credit hours.

Required Courses

AFR 1101C	First Semester Basic - First Term	1
AFR 1121C	First Year Basic - Second Term	1
AFR 2130C	Second Year Basic - First Term	1
AFR 2131C	Second Year Basic - Second Term	1
AFR 3220*	First Year Advanced - First Term	3

AFR 3230*	First Year Advanced - Second Term	3
AFR 4201*	Second Year Advanced - First Term	3
AFR 4210*	Second Year Advanced - Second Term	3

*Denotes writing course

Course Descriptions

Definitions of Prefixes

AFR-Aerospace Studies

AFR 1101C First Semester Basic - First Term (1).

Survey course designed to introduce students to the United States Air Force and encourage participation in Air Force Reserve Officer Training Corps (AFROTC). Featured topics include: overview of AFROTC, special programs offered through AFROTC, mission and organization of the Air Force, brief history of the Air Force, introduction to leadership, Air Force officer career opportunities, and an introduction to communication skills. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences. Prerequisite: Must be taken with PT Lab.

AFR 1121C First Year Basic - Second Term (1).

A survey and follow-on course to AFR 1101C designed to introduce students to the United States Air Force and encourage participation in Air Force Reserve Officer Training Corps (AFROTC). Featured topics include: introduction to leadership, Air Force Core Values, introduction to interpersonal communication and team building, and a continuation of communication skills. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

AFR 2130C Second Year Basic - First Term (1).

Course designed to examine general aspects of air and space power through a historical perspective. Covers time period from first balloons and dirigibles to space-age global positioning systems of the Afghan/Iraqi Wars. Examines several fundamental truths associated with war in the third dimension: e.g. Principles of War and Tenets of Air and Space Power. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

AFR 2131C Second Year Basic - Second Term (1).

Continuation of AFR 2130C which provides students with knowledge level understanding for general element and employment of air and space power. Discusses the importance of Air Force Core Values with use of operational examples and historical Air Force leaders. Continues to develop communication skills. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

AFR 3220 First Year Advanced - First Term (3).

Study of leadership, management fundamentals, professional knowledge, and communication skills required of Air Force junior officers. Case studies are used to examine Air Force leadership and management situations. Mandatory Leadership Laboratory complements this course by providing advanced leadership experiences in officer-type activities.

AFR 3230 First Year Advanced - Second Term (3). Continuation of AFR 3220 and is a study of Air Force personnel and evaluation systems, leadership ethics, and communication skills required of Air Force junior officers. Case studies are used to examine Air Force leadership and management situations. Mandatory Leadership Laboratory complements this course by providing advanced leadership experiences in officer-type activities.

AFR 4201 Second Year Advanced - First Term (3). Examines national security process, regional studies, and Air Force doctrine. Special topics of interest focus on civilian control of military and current issues affecting military professionalism. Continued emphasis is given to refining communication skills. Mandatory Leadership Laboratory complements this course by providing students advanced leadership experiences.

AFR 4210 Second Year Advanced - Second Term (3). Continuation of AFR 4201 which examines regional studies and advanced leadership ethics. Special topics of interest focus on the military as a profession, officership, military justice, preparation for active duty, and current issues affecting military professionalism. Continued emphasis is given to refining communication skills. Mandatory Leadership Laboratory complements this course by providing students advanced leadership experiences.

**Leadership Laboratory (LLAB)
0 credits Fall & Spring Semester**

Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force 2nd lieutenants and complement the AFROTC academic program. It is a student planned, organized, and executed practicum conducted under the supervision of the detachment commander and commandant of cadets.

Military Science

Lieutenant Colonel Son P. Vo, *Professor and
Chairperson, Military Science*

Major Byron Greene, *Assistant Professor, Battalion
Executive Officer*

Master Sergeant Gordon, *Senior Military Instructor*

John Holtz, *Assistant Professor*

Wally Gallart, *Scholarship and Enrollment Officer*

The Army Reserve Officer Training Corps is a college elective that will help students succeed in their desired career, whether civilian or military. Students who complete all ROTC requirements may be commissioned second lieutenants and serve in the Army, Army National Guard or Army Reserve. ROTC electives may also be used by FIU students in pursuit of the school's Certificate of Professional Leadership Studies.

Enrollment

Enrollment is open to full-time male and female students attending Florida International University. Any students may enroll in MSL 1000 and 2000 level courses in a participation status. Any student enrolling in the MSL 3201/2 and MSL 4301/2 must have the approval of the Department Chairperson.

Instructions and Training

The freshmen and sophomore students will take Basic Military Science Courses. There is no military obligation associated with the first two years of the program. These courses will introduce students to leadership skills. The curriculum involves understanding how to communicate, set goals, how and when to make decisions, engage in creative problem solving, planning and organization. Many of the activities are taken from, or are adaptations of executive and leadership training workshops. The curriculum also focuses on building character, providing opportunities to apply, practice and experience leadership principles. Courses consist of outdoor/indoor instruction and practical 'hands-on' training on university intramural fields and at various South Florida military training sites. Qualified juniors, seniors, or graduate students may take the Advanced Military Science Courses upon approval of the department. The Advance Course provides intense training for students in experimental leadership positions. Students are taught the fundamentals of serving as a military officer. They will have numerous opportunities to lead small teams in a variety of challenging leadership situations. The seniors manage the ROTC Corps of Cadets, mentor junior cadets, plan and conduct training, management, and fund raising activities.

Scholarships

Army ROTC offers a number of scholarships that will pay either tuition and fees or room and board, along with an allowance for books and a monthly stipend ranging from \$300 to \$500.

Organizations

Ranger Challenge Team - A voluntary organization that is a physically demanding course designed to prepare cadets for area and regional competition against other ROTC units. Cadets train weekly to perfect skills in weapons handling and assembly, marksmanship, orienteering, hand grenade throwing, physical fitness, combat patrolling and combat load road marching.

Scabbard and Blade - An honor society for outstanding cadets selected for membership by their peers for academic and military excellence.

Color Guard - An elite organization of cadets skilled in drill and ceremony. Members post the colors at Golden Panther basketball games, baseball games, football games, civic/veteran events and campus functions.

Association of the U.S. Army - A fraternal organization chartered by the national association to perpetuate the ideals of the U.S. Army.

Special Programs

Students who are unable to participate in ROTC during their freshman and sophomore years may qualify for admission to advanced ROTC (junior and senior years) by attending a four-week course at Ft. Knox, KY. Attendees receive pay, travel costs, lodging and food.

Students with prior military service must have a valid DD 214 and honorable discharge to qualify for the advance course program.

Students who want to pursue an advanced degree in certain fields after receiving a baccalaureate may qualify for delayed entry on active duty.

Students interested in pursuing civilian careers after graduation may apply for duty with the Army National Guard or Army Reserve.

Students may enter into the Simultaneous Membership Program (SMP) in the Army National Guard or Army Reserve while in college. This allows students to earn valuable experience by serving in the Army National Guard or Army Reserves while enrolled in ROTC. Students continue their regular school curriculum and receive additional financial support from the Army National Guard or Army Reserve as an incentive to serve as officers upon graduation and commissioning.

Special Training

Outstanding Cadets may qualify to attend special Army schools such as Mountain Warfare Training, Northern Warfare School, Air Assault School or Airborne School. Selection is on a competitive basis.

Outstanding Cadets are honored during regular award ceremonies. Scholarship Cadets can fly space-available aboard military aircraft. Once commissioned, newly Second Lieutenant's earn a starting salary of over \$34,000, excluding housing allowances and special pays that are not taxed. 2LTs earn about \$3,500 per year in the Army National Guard or Army Reserve in a part-time status.

Minor in Military Science

Army Officer Professional Studies (Education Core)

MSL 3201	Leadership and Problem Solving	3
MSL 3202	Leadership and Ethics	3
MSL 4301	Leadership and Management	3
MSL 4302	Officership	3
MSL 4400	United States Military History	3

Course Descriptions

Definition of Prefixes

MSL-Military Science

MSL 1001 Foundations of Officership (2). MSL 1001L Foundations of Officership Laboratory (0). Examines the unique duties and responsibilities of officers, organization and role of the Army, review skills pertaining to fitness and communication, analyze Army values and expected ethical behavior. Leadership laboratory is mandatory for ROTC Cadets and complements this course with hands-on experiences.

MSL 1002 Basic Leadership (2). MSL 1002L Basic Leadership Laboratory (0). Presents fundamental leadership concepts and doctrine, practice basic skills that underlie effective problem solving, examine the officer experience. Leadership laboratory is mandatory for ROTC Cadets and complements this course with hands-on experiences.

MSL 2101 Individual Leadership Studies (2). MSL 2101L Individual Leadership Laboratory (0). Develops knowledge of self, self-confidence, and individual leadership skills, develop problem solving and critical thinking skills, apply communication, feedback, and conflict resolution skills. Leadership laboratory is mandatory for ROTC Cadets and complements this course with hands-on experiences.

MSL 2102 Leadership and Teamwork (2). MSL 2102L Leadership and Teamwork Laboratory (0). Focuses on self-development guided by knowledge of self and group processes, challenges current beliefs, knowledge, and skills. Leadership laboratory is mandatory for ROTC Cadets and complements this course with hands-on experiences.

MSL 3201 Leadership and Problem Solving (3). MSL 3201L Leadership and Problem Solving Laboratory (0). Examines skills that underlie effective problem solving, analyze military missions and plan military operations, execute squad battle drills. Leadership laboratory is mandatory for ROTC Cadets and complements this course with hands-on experiences.

MSL 3202 Leadership and Ethics (3). MSL 3202L Leadership and Ethics Laboratory (0). Probes leader responsibilities that foster an ethical command climate, develop Cadet leadership competencies, apply principles and techniques of effective written and oral communication. Leadership laboratory is mandatory for ROTC Cadets and complements this course with hands-on experiences.

MSL 4301 Leadership and Management (3). MSL 4301L Leadership and Management Laboratory (0). Discuss staff organization, functions, and processes, analyze counseling responsibilities and methods, and apply leadership and problem solving principles to a complex case study/simulation. Leadership laboratory is mandatory for ROTC Cadets and complements this course with hands-on experiences.

MSL 4302 Officership (3). MSL 4302L Officer Leadership Laboratory (0). Capstone course to explore topics relevant to Second Lieutenants entering the Army, describe legal aspects of decision making and leadership, analyze Army organization from tactical to strategic level. Leadership laboratory is mandatory for ROTC Cadets and complements this course with hands-on experiences.

MSL 4400 United States Military History (3). Examines the Military Heritage of the United States from colonial wars to the present; focuses on the tactical, operational, and strategic levels of warfare.

MSL 4900 Supervised and/or Independent Study (3). Supervised reading and independent study in United States Military History, writing requirements. Prerequisite: Permission of the instructor is required.