

## Aerospace Studies

AFROTC is a nationwide program that allows students to pursue commissions (become officers) in the United States Air Force (USAF) while simultaneously attending college. AFROTC classes are held on college campuses throughout the United States and Puerto Rico; students can register through normal course registration processes. AFROTC consists of four years of Aerospace Studies classes (Foundations of the USAF, Evolution of USAF and Space Power, Air Force Leadership Studies, and National Security Affairs/Preparation for Active Duty), and a corresponding Leadership Laboratory for each year (where students apply leadership skills, demonstrate command and effective communication, develop physical fitness, and practice military customs and courtesies). College students enrolled in the AFROTC program (known as "cadets") who successfully complete both AFROTC training and college degree requirements will graduate and simultaneously commission as Second Lieutenants in the Active Duty Air Force.

The AFROTC program is currently offered at the University of Miami, but they have a crosstown agreement that allows our students to enroll in AFROTC and become full-fledged cadet participants. For more information on AFROTC course descriptions, please review <http://miami.edu/>. For more information on the AFROTC program, please review <http://www.as.miami.edu/afrotc/>.

### Enrollment

There is no military obligation to enroll in AFROTC. To enroll students must meet the following criteria:

- Be a U.S. citizen or resident alien, or be able to become a U.S. citizen prior to attending Field Training the summer following sophomore year;
- Be full-time college students, enrolled in 12 credits per semester;
- Be able to participate in a demanding physical fitness program;
- Be able to pass a Department of Defense Medical Examination;
- Have solid moral character; and
- Maintain AFROTC minimum required grade point average.

### Scholarships

More than 60% of Air Force ROTC scholarships are awarded to undergraduate students in engineering or other scientific and technical disciplines. However, students in every degree program enjoy scholarship opportunities, as the Air Force seeks to engage students who excel both academically and militarily. Scholarships are awarded in increments of two, three, and four years. Air Force ROTC offers several types of scholarships. Type 1 covers full tuition and most required fees. Type 2 covers tuition and fees, but is capped at \$18,000 annually. Type 7 scholarships are designated for in-state tuition-level institutions. All types of awards provide an allowance for books and a monthly non-taxable stipend. All scholarship cadets are required to meet academic, military, and physical fitness standards to earn and maintain scholarship benefits.

Additionally, University of Miami undergraduates enrolled in the Air Force ROTC program are assured

annual 25% subsidy of the University's tuition for up to four years. Students must maintain continuous enrollment in the AFROTC program and full time enrollment in one of the University's undergraduate degree program. No application required. Awards are made automatically based on information provided by the University's AFROTC detachment.

### Benefits

All AFROTC cadets receive uniforms, books and equipment for ROTC classes at no cost. Upon being commissioned a Second Lieutenant in the Air Force, you will receive a starting salary and allowances worth more than \$58,000 annually\*. Free medical and dental care, 30 days paid annual vacation and educational benefits are also part of the compensation package.

*\*Based on 2013 Pay Chart and Miami FL Housing Allowance for an O-1\**

### Educational Objectives

#### Minor in Aerospace Studies

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

#### Required Courses

AFR 1101C	The Foundations for the United States Air Force I	1
AFR 1121C	The Foundations for the United States Air Force II	1
AFR 2130C	The Evolution of USAF Air and Space Power I	1
AFR 2131C	The Evolution of USAF Air and Space Power II	1
AFR 3220*	Air Force Leadership Studies I	3
AFR 3230*	Air Force Leadership Studies II	3
AFR 4201*	USAF Security Affairs and Preparation for Active Duty I	3
AFR 4210*	USAF Security Affairs and Preparation for Active Duty II	3

\*Denotes writing course

### Course Descriptions

#### Definitions of Prefixes

AFR-Aerospace Studies

**AFR 1101C The Foundations for the United States Air Force I (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 The Foundations for the United States Air Force II (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 The Evolution of USAF Air and Space Power I (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 The Evolution of USAF Air and Space Power II (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 Air Force Leadership Studies I (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 Air Force Leadership Studies II (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 USAF Security Affairs and Preparation for Active Duty I (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 USAF Security Affairs and Preparation for Active Duty II (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 Heath Papkov, Professor and Chairperson, Military Science**

The Army Reserve Officer Training Corps is a college elective that enables students to succeed in their desired career, whether civilian or military. Students who complete all ROTC requirements may be commissioned Second Lieutenants and serve in the Active Duty Army, Army National Guard or Army Reserve. ROTC electives may also be used by students in pursuit of the Certificate of Professional Leadership Studies.

### **Enrollment**

Enrollment is open to full-time students attending Florida International University and Florida Atlantic University. The Army ROTC program has crosstown agreements that allow students from other universities and colleges (University of Miami, Florida Memorial University, Palm Beach Atlantic University, Broward College, Miami-Dade College, Barry University) to enroll in Army ROTC and become full-fledged cadet participants. 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 and Leadership Courses. There is no military obligation associated with the first two years of the program. These courses introduce students to leadership skills and concepts. The curriculum involves understanding how to communicate, set goals, how and when to make decisions, enhance physical fitness, how to build and operate in a team, and engage in creative problem solving, planning and organization. The curriculum 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 from the department chair. The Advanced Course provides intense training for students in simulated leadership positions. Students are taught the fundamentals of serving as an Army 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 fundraising activities.

### **Scholarships**

Army ROTC offers a number of scholarships that will pay either full tuition and fees or room and board, up to \$10,000 per Academic Year, along with a \$600 book allowance per semester and a monthly stipend of \$400.

## Organizations

**Ranger Challenge Team** - A voluntary organization that is a physically demanding leader development program designed to prepare cadets for state 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.

**Color Guard** - An elite organization of cadets skilled in drill and ceremony. Members post the colors at university 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 advanced 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 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, Second Lieutenant's earn a starting salary of over \$34,000 plus additional housing allowances and special pays that can total more than \$58,000 annually\*. Free medical and dental care, 30 days paid annual vacation and educational benefits are also part of the compensation package. 2LTs earn about \$3,500 per year in the Army National Guard or Army Reserve in a part-time status.

*\*Based on 2013 Pay Chart and Miami FL Housing Allowance for an O-1\**

## 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 and Leadership	3
MSL 4400	United States Military History	3

## Course Descriptions

### Definition of Prefixes

MSL-Military Science

**MSL 1001 Foundations of Officership and Leadership (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 and Leadership (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.