

Aerospace Studies

AFROTC is a nationwide program that allows students to pursue commissions (become officers) in the United States Air Force (USAF) or United States Space Force (USSF) 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 (Heritage and Values, Team and Leadership Fundamentals, Leading People and Effective Communication 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 during weekly physical training, 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 or Active Duty Space Force.

The AFROTC program is currently held 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 <https://bulletin.miami.edu/undergraduate-academic-programs/arts-sciences/aerospace-studies/#text>. 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. citizens 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; with at least 3 academic years remaining in undergraduate/graduate level courses.
- 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.
- Prior to enrolling in Aerospace classes, students should speak with a professor/cadre member at (305) 284-2870 or email recruitingflightcommander@det155aces.com

Scholarships

Scholarship opportunities within AFROTC are highly competitive and 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.

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 \$66,000 annually*. Free medical and dental care, 30 days paid annual vacation and educational benefits are also part of the compensation package.

Based on 2021 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	Heritage and Values I	1
AFR 1121C	Heritage and Values II	1
AFR 2130C	Team and Leadership Fundamentals I	1
AFR 2131C	Team and Leadership Fundamentals II	1
AFR 3220*	Leading People and Effective Communication I	3
AFR 3230*	Leading People and Effective Communication II	3
AFR 4201*	National Security, Leadership Res and Com Preparation I	3
AFR 4210*	National Security, Leadership Res and Com Preparation II	3

*Denotes writing course

Course Descriptions

Definitions of Prefixes

AFR-Aerospace Studies

AFR 1101C Heritage and Values I (1). Survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force. Topics include: The Air Force Core Values, mission and organization structure, military customs and courtesies, dress and appearance, teambuilding, officership, professionalism, career opportunities for officers, communication skill development, and more. Prerequisite: Must be taken with PT Lab.

AFR 1121C Heritage and Values II (1). Survey and follow on course to AFR 1101 designed to introduce students to the United States Air Force and Air Force Reserve Officer I raining Corps. Featured topics include: The Air Force Core Values, mission and organization structure, military customs and courtesies, dress and appearance, team building, AF Operations, Making policy and Strategy, Air

Force Power through WWI, career opportunities for officers, communication skill development, and more.

AFR 2130C Team and Leadership Fundamentals I (1). AFR 2130 focuses on laying the foundation for teams and leadership. The topics include skills that will allow cadets to improve their leadership on a personal level and within a team. Featured topics include: Introduction to Critical Thinking, Airpower: End of WW1 Through WWII, The Profession of Arms and The Department of Defense. Students also continue to develop communication skills. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

AFR 2131C Team and Leadership Fundamentals II (1). AFR 2131 is a continuation of Team and Leadership Fundamentals I and provides students a leadership mindset. Features topics include: The US Constitution, Civilian Control of the Military, Air and Space System Capabilities and Introduction to Leadership Theory. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

AFR 3220 Leading People and Effective Communication I (3). AFR 3220 is designed to build on the leadership fundamentals taught in AFR 3220. The theme of this year is "Leading People and Effective Communication." You will have the opportunity to utilize your skills as they begin more of a leadership role in the detachment. The goal is for each of you to have a more in-depth understanding of how to effectively lead people, and this semester will provide some of the tools to apply in detachment leadership roles. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences, giving students the opportunity to apply the leadership and management principles of this course.

AFR 3230 Leading People and Effective Communication II (3). AFR 3230 is designed to build on the leadership fundamentals taught in AFR 2130 and AFR 2131. The theme of this year is "Leading People and Effective Communication." You will have the opportunity to utilize your skills as they begin more of a leadership role in the detachment. The goal is for each of you to have a more in-depth understanding of how to effectively lead people, and this semester will provide some of the tools to apply in detachment leadership roles. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences, giving students the opportunity to apply the leadership and management principles of this course.

AFR 4201 National Security, Leadership Res and Com Preparation I (3). AFR 4201 is basic elements of national security policy and process. The student should comprehend the air and space power operations as well as understand selected roles of the military in society and current domestic and international issues affecting the military profession. Cadets should comprehend the responsibility, authority, and functions of an Air Force commander and selected provisions of the military justice system. The final semester of the course is designed to prepare cadets for life as a second lieutenant. This is a great time for instructors to include any information they

feel would help their cadets as they transition from military life to civilian life.

AFR 4210 National Security, Leadership Res and Com Preparation II (3). AFR 4210 is an examination of the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism with a continuing emphasis on the refinement of communication skills.

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, Nova Southeastern 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 \$420.

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.

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.