

AEROSPACE STUDIES

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The Air Force Reserve Officer Training Corps (AFROTC) offers eligible students education and training that leads to a commission as a second lieutenant in the U.S. Air Force. Air Force ROTC students may major in any degree program offered at UI; they supplement their major curricula with the specialized aerospace studies courses to prepare for active commissioned service.

Four-Year Program (General Military Course and Professional Officer Course). A formal application is not required for students entering the four-year program. They may register for the program at the same time and in the same manner as they enroll in their other college courses. During their freshman and sophomore years, students enroll in the General Military Course (GMC), and there is NO MILITARY OBLIGATION. They then may compete for entry into the Professional Officer Course (POC), which is normally taken during the last two years of college. Selection into the POC is highly competitive and is based on qualification on an Air Force medical examination, a physical fitness test, scores achieved on the Air Force Officer Qualifying Test (AFOQT), successful completion of a paid four-week field training course at an Air Force base, and the recommendation of the professor of aerospace studies.

Air Force ROTC also offers financial assistance to selected students in the form of scholarships and subsistence allowances. The students compete for the scholarships through a national screening process. The Air Force offers 1- to 4-year scholarships that cover tuition, fees, and a book allowance, and also provide a stipend allowance (\$300-\$500 per month, depending on their level in the program) for each school year a student is on scholarship. Students interested in applying for scholarships should get in touch with this department. Nonscholarship students receive a stipend allowance (\$450-\$500 per month) while in the POC.

Air Force places a strong emphasis on physical fitness, and all ROTC cadets are required to participate at least three times a week in an organized, early morning fitness program with other cadets as part of the Leadership Laboratory requirements.

Field Training. Air Force ROTC field training is offered during the summer months at Maxwell Air Force Base, Alabama. Students in the four-year program participate in four weeks of field training, usually between their sophomore and junior years. Field Training is a mandatory program for all individuals qualified to pursue an Air Force commission through AFROTC. The program is designed to evaluate military leadership and discipline, determine potential for entry into the POC, and stratify among peers.

Leadership Laboratory. Leadership Laboratory is taken an average of two hours a week throughout the student's enrollment in Air Force ROTC. Instruction is conducted within the framework of an organized cadet wing with a progression of experiences designed to develop each student's leadership potential. Leadership Laboratory involves a study of Air Force customs and courtesies, drill and ceremonies, career opportunities in the Air Force, and the life and work of an Air Force junior officer. Students develop their leadership potential in a practical, supervised laboratory, which typically includes field trips to Air Force installations throughout the U.S. In addition, students are required to participate at least three times a week in an organized, early morning fitness program with other cadets.

Courses

See the course description section for courses in Aerospace Studies (Aero).

Aerospace Studies Programs

The following programs are designed to provide students with a good military and leadership foundation so students completing them can serve as effective Air Force officers. They are not designed to be academic majors and thus no bachelor's degree is offered.

For a student to receive an Air Force commission, he or she must have completed either the Four-Year Program or the Two-Year Program. Students may enter the program at points other than the two and four year points, however this requires a specialized academic program and department head approval. Contact the department head for more information.

Prior-service students should consult the department to find out what course of study will be required for them.

Four-Year Program

Aero 101	Foundations of the U.S. Air Force (1 cr)
Aero 102	Foundations of the U.S. Air Force (1 cr)
Aero 103	Leadership Laboratory I (2 cr, max 4)
Aero 201	Evolution of U.S. Air Force Air and Space Power (1 cr)
Aero 202	Evolution of U.S. Air Force Air and Space Power (1 cr)
Aero 205	Leadership Laboratory II (2 cr, max 4)
Aero 311	Air Force Leadership and Management (3 cr)
Aero 312	Air Force Leadership and Management (3 cr)
Aero 313	Leadership Laboratory III (2 cr, max 4)
Aero 411	National Security Affairs/Preparation for Active Duty (3 cr)
Aero 412	National Security Affairs/Preparation for Active Duty (3 cr)
Aero 413	Leadership Laboratory IV (2 cr, max 4)

Aerospace Studies Academic Minor Requirements

Aerospace Studies Minor

Courses selected from the following (at least 12 credits must be in courses numbered 300 and above) (20 cr):

Aero 101	Foundations of the U.S. Air Force (1 cr)
Aero 102	Foundations of the U.S. Air Force (1 cr)
Aero 201	Evolution of U.S. Air Force Air and Space Power (1 cr)
Aero 202	Evolution of U.S. Air Force Air and Space Power (1 cr)
Aero 311	Air Force Leadership and Management (3 cr)
Aero 312	Air Force Leadership and Management (3 cr)
Aero 313	Leadership Laboratory III (2 cr, max 4)
Aero 411	National Security Affairs/Preparation for Active Duty (3 cr)
Aero 412	National Security Affairs/Preparation for Active Duty (3 cr)
Aero 413	Leadership Laboratory IV (2 cr, max 4)

Courses to total 20 credits for this minor

AEROSPACE STUDIES COURSES

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Aero 101 Foundations of the U.S. Air Force (1 cr)

Survey course introduces students to the United States Air Force and the Air Force Reserve Officer Training Corps (AFROTC). The course primarily focuses on the mission and organization of the Air Force, Air Force dress and appearance standards, military customs and courtesies, Air Force heritage and introduction to communications skills. Weekly lab consisting of Air Force customs and courtesies, health and physical fitness, and drill ceremonies is mandatory for cadets. (Fall only)

Aero 102 Foundations of the U.S. Air Force (1 cr)

Survey course introduces students to the United States Air Force and the Air Force Reserve Officer Training Corps (AFROTC). The course primarily focuses on the mission and organization of the Air Force, Air Force dress and appearance standards, military customs and courtesies, Air Force heritage and introduction to communications skills. Weekly lab consisting of Air Force customs and courtesies, health and physical fitness, and drill ceremonies is mandatory for cadets. (Spring only)

Aero 103 Leadership Laboratory I (2 cr, max 4)

Introduces students to leadership principles, military experience, and management practice; 2 hours of laboratory and 2 hours of required physical training. Graded Pass/Fail.

Coreq: Aero 101 or Aero 102

Aero 201 Evolution of U.S. Air Force and Space Power (1 cr)

Survey course that presents and overview of the history of the Air Force and key airpower concepts, development of the U.S. Air Force and its guiding principles, the employment of airpower from the advent of manned flight through the post-World War II period to current air and space operations and continued application of communication skills. Weekly lab of applied leadership exercises is required for cadets. (Fall only)

Aero 202 Evolution of U.S. Air Force and Space Power (1 cr)

Survey course that presents and overview of the history of the Air Force and key airpower concepts, development of the U.S. Air Force and its guiding principles, the employment of airpower from the advent of manned flight through the post-World War II period to current air and space operations and continued application of communication skills. Weekly lab of applied leadership exercises is required for cadets. (Spring only)

Aero 205 Leadership Laboratory II (2 cr, max 4)

Introduces students to leadership principles, military experience, and management practice; 2 hours of laboratory and 2 hours of required physical training. Graded Pass/Fail.

Coreq: Aero 201 or Aero 202

Aero 299 (s) Directed Study (cr arr)

Aero 311 Air Force Leadership and Management (3 cr)

Leadership and quality management fundamentals, professional knowledge, leadership ethics, and communicative skills required of an Air Force officer; case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied; a weekly lab provides advanced leadership experience in officer-type activities, giving students the opportunity to apply leadership and management principles of this course (the lab is mandatory for cadets). (Fall only)

Aero 312 Air Force Leadership and Management (3 cr)

Leadership and quality management fundamentals, professional knowledge, leadership ethics, and communicative skills required of an Air Force officer; case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied; a weekly lab provides advanced leadership experience in officer-type activities, giving students the opportunity to apply leadership and management principles of this course (the lab is mandatory for cadets). (Spring only)

Aero 313 Leadership Laboratory III (2 cr, max 4)

Introduces students to leadership principles, military experience, and management practice; 2 hours of laboratory and 2 hours of required physical training. Graded Pass/Fail.

Coreq: Aero 311 or Aero 312

Aero 391 Private Pilot Ground School (2 cr)

All aspects of preparation for the FAA Private Pilot Written Test. Additional fees will be required. Cooperative: open to WSU degree-seeking students.

Aero 392 Instrument Pilot Ground School (2 cr)

All ground-based aspects of instrument flying to prepare students to take the FAA Instrument Pilot Written Test. Must have a FAA Private Pilot license to obtain credit for this course. Additional fees will be required. Cooperative: open to WSU degree-seeking students.

Aero 411 National Security Affairs/Preparation for Active Duty (3 cr)

An examination of the national security process, regional studies, advanced leadership ethics, and Air Force doctrine; focus of the military profession, officership, military justice, civilian control of the military, preparation for active duty, and refinement of communication skills; a lab consisting of advanced leadership experiences is mandatory for cadets. (Fall only)

Aero 412 National Security Affairs/Preparation for Active Duty (3 cr)

An examination of the national security process, regional studies, advanced leadership ethics, and Air Force doctrine; focus of the military profession, officership, military justice, civilian control of the military, preparation for active duty, and refinement of communication skills; a lab consisting of advanced leadership experiences is mandatory for cadets. (Spring only)

Aero 413 Leadership Laboratory IV (2 cr, max 4)

Introduces students to leadership principles, military experience, and management practice; 2 hours of laboratory and 2 hours of required physical training. Graded Pass/Fail.

Coreq: Aero 411 or Aero 412

Aero 499 (s) Directed Study (cr arr)

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