AEROSPACE STUDIES

Undergraduate Program Information

Air Force Reserve Officer Training Corps (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, 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.

Freshman and Sophomore Years (General Military Course or GMC)

This group provides a general background knowledge of the military establishment with emphasis on the Air Force. GMC courses may be taken out of sequence.

- **AERO 121** The Air Force Today I 4
- **& AERO 122** and The Air Force Today II 4
- **AERO 221** The Air Force Way I 2
- **AERO 222** The Air Force Way II 2
- **AERO 223** Air Force Leadership Development 1
- **Total Credits** 9

Junior and Senior Years (Professional Officer Course or POC)

This group constitutes an in-depth study of topics that provides a broad preparation for a career as an Air Force officer. Students must have certain qualifications for entry and have a desire to be commissioned in the Air Force. These qualifications include, achieving a passing score on the Air Force Officer’s Qualifying Test, passing a physical fitness test, and successfully completing a medical exam. They must also complete a four- or five-week summer orientation course.

Students may, with departmental approval, take POC courses out of normal sequence. However, compressed or dual enrollment in upper-division POC courses is normally prohibited. Through this department, you can also earn a minor in Aerospace Studies.

- **AERO 301** Air Force Leadership and Management I 4
- **AERO 302** Air Force Leadership and Management II 4
- **AERO 401** Preparation for Active Duty I 4
- **AERO 402** Preparation for Active Duty II 4
- **Total Credits** 16

Leadership Laboratory

This is an integral and mandatory portion of the Aerospace Studies curriculum. Within the framework of the cadet wing, it provides a progression of experiences designed to develop each student’s leadership potential and serves as an orientation to military life.

Minors for the Department

Aerospace Studies - Undergraduate Minor (http://catalogs.nmsu.edu/nmsu/arts-sciences/aerospace-studies/aerospace-studies-undergraduate-minor)

Lieutenant Colonel Wendy Woodard, Department Head

Assistant Professors and Staff: Capt Evin Greensfelder, Capt Rebecca Johnson, TSgt Melissa Cadman, SSgt Jeffrey Mayo, and Patti Alarcon

Aerospace Studies Courses

- **AERO 121. The Air Force Today I**
  2 Credits (1.25+2P)
  Survey course on the USAF and AFROTC. Includes mission and organization of the Air Force, officer ship and professionalism, military customs and courtesies, as well as basic communication skills. Leadership Lab practicum, AERO 000 is included.

- **AERO 122. The Air Force Today II**
  2 Credits (1.25+2P)
  Continuation of AERO 121, with emphasis on Air Force officer opportunities, group leadership problems, and further development of communication skills (oral and written). Includes Leadership Lab practicum, AERO 000.

- **AERO 221. The Air Force Way I**
  2 Credits (1.25+2P)
  Topics include: Air Force heritage, Air Force leaders, an introduction to ethics and values, and an application of communication skills. Facilitates the transition from Air Force ROTC cadet to Air Force ROTC candidate. Includes Leadership Lab practicum, AERO CIOD.

- **AERO 222. The Air Force Way II**
  2 Credits (1.25+2P)
  Continuation of AERO 221, including an introduction to leadership, quality Air Force, and continued application of communication skills. Includes Leadership Lab practicum, AERO 000.

- **AERO 223. Air Force Leadership Development**
  1 Credit
  This course prepares cadets to excel in field training. Cadets are prepared in all facets of field training, including: leadership competency evaluations, the Cadet’s Guide to Field Training, individual drill evaluations, attention to detail, dining hall procedures, maintenance of living areas, and the group problem solving process. Restricted to: Main campus only.

- **AERO 301. Air Force Leadership and Management I**
  4 Credits (3+2P)
  Study of the leadership and quality management fundamentals, professional knowledge, Air Force doctrine, leadership ethics, and communication skills required of an Air Force junior officer. Includes Leadership Lab practicum, AERO 000.

  **Prerequisites:** Completion of AERO 121/122 and 221/222, or permission of instructor.
AERO 302. Air Force Leadership and Management II  
4 Credits (3+2P)  
Continuation of AERO 301, with case studies used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts studied. Continued emphasis on developing communication skills. Includes Leadership Lab practicum, AERO 000. May be repeated up to 4 credits.  
**Prerequisite(s):** Completion of AERO 121/122 and 221/222, or permission of instructor.

AERO 401. Preparation for Active Duty I  
4 Credits (3+2P)  
Examines the national security process, regional studies, and Air Force doctrine. Special topics focus on the military as a profession, officership, and civilian control of the military. Communication skills (oral and written) are refined. Includes Leadership Lab practicum, AERO 000.  
**Prerequisites:** Completion of AERO 121/122, and AERO 221/222 or permission of instructor.

AERO 402. Preparation for Active Duty II  
4 Credits (3+2P)  
Continuation of AERO 401, concentrating on advanced leadership ethics, military justice, preparation for active duty, and current issues affecting military professionalism. Continued emphasis on communication skills necessary to succeed as a junior Air Force officer. Includes Leadership Lab practicum, AERO 000. May be repeated up to 4 credits.  
**Prerequisite(s):** Completion of AERO 121/122,221/222,301/302, and 401 or permission of instructor.

AERO 411. Aerospace Studies Independent Study  
1 Credit  
This course provides in-depth research on specified topics of the United States Air Force and NMSU's Detachment 505 history. Consent of instructor required.  
**Prerequisite(s):** AERO 301, AERO 302, AERO 401, AERO 402.

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