

# Aerospace Studies

The Craig School of Business

## Department of Aerospace Studies

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## Air Force Reserve Officer Training Corps (AFROTC)

### Minor in Aerospace Studies

## The Department

The Air Force Reserve Officer Training Corps Program is a college-based program open to men and women. Under this program the Air Force pays the full tuition for scholarship winners and provides a monthly stipend of between \$250 and \$400. Other incentive programs are available to pay \$250 and \$350 per month and cost of tuition up to \$1,500 per semester, plus a book allowance.

The primary goal of AFROTC is to provide students with the opportunity for well-paying, challenging and rewarding positions as commissioned Air Force officers and leaders after graduation.

The few years of service will provide young officers with leadership experience that will be invaluable for either an Air Force or civilian career.

Two routes for an Air Force commission are available to college students in Air Force ROTC. Entering students may enroll in the four-year program, while students with at least two academic years remaining in college may apply for the two-year program.

The Air Force ROTC education program provides professional preparation for future Air Force officers. It is designed to develop men and women who can apply their education to their initial active duty assignments as Air Force commissioned officers. In order to receive a commission, an Air Force ROTC cadet must complete all requirements for a degree in accordance with



university guidelines as well as completing certain courses specified by the Air Force.

Air Force ROTC courses are taken for academic credit as part of a student's electives. The two major phases of the curriculum are the General Military Course (GMC) and the Professional Officer Course (POC). The first two years of the Air Force ROTC Program may be completed at California State University, Fresno if you are enrolled in one of the local junior colleges and plan to transfer to the university at the beginning of your junior year. In the Aerospace Studies program, all books, supplies, and uniforms are furnished at no cost to the student.

Air Force ROTC scholarships are available to qualified applicants in both the four- and two-year program. Each scholarship provides full tuition, laboratory and incidental fees, and a semester allowance for curriculum-required textbooks. In addition, scholarship cadets receive a nontaxable \$250-\$400 subsistence each month during the school year. All two-year program cadets, regardless of scholarship status, receive \$300-\$400 per month, and may be eligible to receive the cost of tuition (up to \$1,500 per semester) and a book allowance.

Other scholarship programs are available to fill critical Air Force requirements. Additional money through express and incentive programs is available as well as the one-year commissioning program. Contact the unit admissions officer for the latest information.

## Aerospace Studies Minor

A Minor in Aerospace Studies consists of satisfactory completion of the AFROTC

program (16 upper-division units of which 6 must be in residence) and a 2.0 GPA.

## Career Outlook

Although flying is the primary mission of the Air Force, it is not the only job that has to be done. Today, since science and technology are a large part of the national defense, the Air Force needs the best scientists and engineers the nation can produce. It also needs other professional men and women with a broad range of knowledge and skills.

Most young officers who enter the Air Force today do not expect to be pilots or astronauts. They want to be part of the large research and development program of the vast support organization that keeps our country strong and progressive. Exciting job opportunities exist in a broad range of Air Force specialties.

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 important and responsible positions of leadership in the modern Air Force.

## Faculty

Lt. Col. James Harper, *Chair*

Captain Evette Rees

Captain Brian Winklepleck

*Advisers:*

Technical Sgt. George Alvarez

Staff Sgt. Alonzo Etheridge

## Faculty and Facilities

The teaching staff in the Department of Aerospace Studies is composed of highly educated and experienced Air Force officers who are selected for their professional experience, academic background, and instructor qualifications. These officers attend the Air University's Academic Instructor School, the "teacher's college of the Air Force," and all have at least a master's degree.

## General Military Course (GMC)

To be eligible for the GMC you must:

1. be a full-time college student
2. be age 14 or older
3. be of good moral character
4. meet the academic standards for admission to California State University, Fresno

**Professional Officer Course (POC)**

To be eligible for the POC you must:

1. be a citizen of the United States and not less than 17 years of age;
2. be physically, mentally, and morally qualified in accordance with standards established by the Department of the Air Force;
3. have two academic years, either undergraduate or graduate, remaining at the time of POC entry;
4. take and pass the Air Force Officer Qualifying Test;
5. (a) For pilot and navigator: be not more than 29 years of age at date of commissioning;  
(b) For all other categories: be not more than 30 years of age (34 years for those with prior military service) at date of commissioning;
6. be a full-time student according to the rules of California State University, Fresno; and
7. be approved for AFROTC training by the professor of aerospace studies.

**COURSES*****Aerospace Studies (ASP)*****1A, 1B. The Foundations of the United States Air Force (1, 1)**

Corequisite: ASP 3 Leadership Laboratory (one unit) if student desires an Air Force Commission. The Air Force in the contemporary world. Focuses on the organizational structure and missions of Air Force organizations; officership and professionalism; and includes an introduction to communication skills.

**2A, 2B. The Evolution of USAF Air and Space Power (1, 1)**

Corequisite: ASP 3 Leadership Laboratory (one unit) if student desires an Air Force Commission. Focuses on factors contributing to the development of air power from its earliest beginnings to the space-age global positioning systems of the Gulf war; the evolution of air power concepts and doctrine; and an assessment of communication skills.

**3. Leadership Laboratory (1; max total 6)**

Open to students who are members of the Reserve Officer Training Corps or are eligible to pursue a commission as determined by the professor of aerospace studies. Course must be taken each semester of the General Military Course (GMC). A study of Air

Force customs and courtesies, issuing military commands, instructing, directing and evaluating the preceding skills, studying the environment of an Air Force officer and learning about areas of opportunity available to commissioned officers. *CR/NC* grading only.

**5. Drill and Ceremony Fundamentals (1; max total 8)**

The elements of military drill, individual and group precision movements, development of command voice; technical, stylistic and aesthetic aspects of creative drill maneuvers; encompasses both rehearsal and public performance.

**25. Air Force ROTC Field Training (3)**

Taken during summer preceding entry into POC. Five-week field training provides leadership and officership training in a military environment which demands conformity to high physical and moral standards. Within this structured environment cadets are screened for officer potential as measured against field training standards. Motivation and professional development is achieved through various programs such as flight orientation, marksmanship and survival training. The Air Force provides meals, housing, pay, and travel to and from base.

**103C. Air Force ROTC Field Training (3)**

For those completed GMC and prior-service cadets. Four weeks of training taken during the summer preceding entry into POC. Field training provides leadership and officership training in a military environment which demands conformity to high physical and moral standards. Within this structured environment cadets are screened for officer potential as measured against field training standards. Motivation and professional development is achieved through various programs such as flight orientation, marksmanship and survival training. The Air Force provides meals, housing, pay, and travel to and from base.

**104A, 104B. Air Force Leadership Studies (3, 3)**

Corequisite: ASP 113 Leadership Laboratory (one unit) if student desires an Air Force Commission. A study of leadership and management fundamentals, leadership responsibilities, ethics, and communicative skills required of an Air Force junior 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.

**105A, 105B. National Security Affairs/Preparation for Active Duty (3, 3; max total 6)**

ASP 105B is not open to students with credit in ASP 105BW. Corequisite: ASP 113 (one unit) if student desires an Air Force Commission. An examination of the needs for national security; an analysis of the evolution of the American defense strategy and policy; aerospace doctrine; overview of alliances and regional security, arms control, and terrorism. Special topics of interest focus on the military as a profession, officership, and the military justice system, and current issues affecting military professionalism. Within this structure, continued emphasis is given to developing communication skills. (Formerly ASP 105AW-BW)

**105AW/BW. National Security Affairs/Preparation for Active Duty (3)**

Not open to students with credit in ASP 105A/B. Prerequisite: satisfactory completion (C or better) of the ENGL 1 graduation requirement. Corequisite: ASP 113 (one unit) if student desires an Air Force Commission. An examination of the needs for national security; an analysis of the evolution of the American defense strategy and policy; aerospace doctrine; overview of alliances and regional security, arms control, and terrorism. Special topics of interest focus on the military as a profession, officership, and the military justice system, and current issues affecting military professionalism. Within this structure, continued emphasis is given to developing communication skills. Meets the upper-division writing skills requirement for graduation. (See note below.) (Formerly ASP 105BW)

**113. Leadership Laboratory (1; max total 6)**

Prerequisite: ASP 25 or equivalent military training. Must be taken each semester of the Professional Officer Course (POC). Activities classified as advanced leadership experiences. They involve the planning and controlling of the military activities of the cadet corps, the preparation and presentation of briefings and other oral and written communications, and the providing of interviews, guidance, and information which will increase the understanding, motivation, and performance of other cadets. *CR/NC* grading only.

*Note:* to meet the California State University, Fresno upper-division writing requirement, students must complete **four semesters** of aerospace studies curriculum consisting of ASP 104A/B and ASP 105A/B. In addition, during one semester, the 105A/B course must have the writing requirement (i.e. it must be 105AW or 105BW).