

# AEROSPACE STUDIES

Air Force Reserve Officer Training Corps (AFROTC) is an outstanding opportunity to commission as an Officer in the United States Air Force or United States Space Force. Through this program, you will hone your leadership, time-management and analytical skills, while improving your physical fitness. If you meet military and academic requirements, at the completion of this program, you will commission as a Second Lieutenant in the Air Force or Space Force. From there you will have the opportunity to see the world and lead people in diverse career fields including pilot, logistics, special warfare, engineer, doctor, lawyer, program manager, space or nuclear operations, and many more. No matter your degree or life ambitions, there may be a place for you in the United States Air and Space Forces.

Students complete one credit hour of basic Aerospace Studies each semester during their freshman and sophomore years. These credits consist of one lecture hour and two hours of leadership laboratory per week, providing an understanding of the Department of the Air Force structure, history, procedures, military customs and courtesies, and military uniform wear. Students also attend two hours of fitness training each week in order to maintain physical fitness and meet fitness test requirements. Unless receiving scholarship through AFROTC, students are under no military obligation throughout this time. Students with an AFROTC scholarship receive \$300-\$350 per month subsistence allowance during their first two years at OSU.

Students are required to meet academic and military retention standards in order to compete for the opportunity to attend Field Training following their sophomore year. Successful completion of Field Training qualifies them to enter the Professional Officer Corps (POC) as an upper classman. Upon entering the POC, students will complete 12 credit hours of Aerospace Studies during their junior and senior years. These credits consist of three lecture hours, two hours of leadership laboratory and two hours of fitness training per week, each semester. The POC provides students with increased leadership opportunities within the cadet wing, preparing them for commissioning as a second lieutenant at the end of their senior year. Additionally, all POC cadets receive \$450-\$500 per month subsistence allowance.

Furthermore, all students have the opportunity to participate in various cadet wing-sponsored extracurricular activities throughout their AFROTC career. These include visits to active Air Force installations to gain first-hand knowledge of the duties of junior Air Force officers, often including incentive flights in USAF aircraft!

Multiple scholarships are available for competitive applicants; from Air Force ROTC-funded, in-college scholarships, to a four-year, no less than \$2,000 per-year OSU Incentive Scholarship for the top students in each class year, and in-state tuition for out-of-state cadets in good standing, with intent to earn their military commission.

AFROTC is available to undergraduate and graduate students with at least three years remaining at OSU. To get started as a freshman during the Fall semester simply register for the AERO 1111 class. During the summer you'll be contacted about orientation events. Orientation typically takes place the Thursday or Friday prior to the start of the Fall semester. If you're not a freshman please contact Detachment 670 for specific information on how to get started and how your path will be slightly different.

For more information or if this program interests you, please contact Detachment 670 at 405#744-7744 or afrotc@okstate.edu.

## Courses

### AERO 1111 United States Air Force Heritage and Values I

**Description:** This course allows students to examine general aspects of the Air Force, leadership, benefits, and opportunities for AF officers. As a foundational course, AERO 1111 also provides a historical perspective such as lessons on war and US military, AF operations, principles of war, and airpower. This provides students with a knowledge-level understanding of the Air Force way of life and the employment of air and space power, from an institutional, doctrinal, and historical perspective.

**Credit hours:** 1

**Contact hours:** Lecture: 1 Lab: 0 Contact: 1

**Levels:** Undergraduate

**Schedule types:** Lab, Lecture, Combined lecture and lab

**Department/School:** Aerospace Studies

### AERO 1211 United States Air Force Heritage and Values II

**Description:** Continuation of the knowledge-level instruction of the employment of air and space power, from an institutional, doctrinal, and historical perspective. The students will be introduced to the Air Force way of life and gain knowledge on what it means to be an Airman.

**Credit hours:** 1

**Contact hours:** Lecture: 0 Lab: 1 Contact: 2

**Levels:** Undergraduate

**Schedule types:** Lab, Lecture, Combined lecture and lab

**Department/School:** Aerospace Studies

### AERO 2111 Team and Leadership Fundamentals I

**Description:** This course is designed to provide a fundamental understanding of both leadership and team building. Topics include listening, understanding themselves, being a good follower and problem solving efficiently. The students will apply these leadership perspectives when completing team building activities and discussing things like conflict management. Cadets will apply these lessons at Field Training, which follows the AS200 year.

**Credit hours:** 1

**Contact hours:** Lecture: 1 Lab: 0 Contact: 1

**Levels:** Undergraduate

**Schedule types:** Lab, Lecture, Combined lecture and lab

**Department/School:** Aerospace Studies

### AERO 2211 Team and Leadership Fundamentals II

**Description:** This course builds on the fundamental understanding of both leadership and team building. Topics include listening, understanding themselves, being a good follower and problem solving efficiently. The students will apply these leadership perspectives when completing team building activities and discussing things like conflict management. Cadets will apply these lessons at Field Training, which follows the AS200 year.

**Credit hours:** 1

**Contact hours:** Lecture: 1 Lab: 0 Contact: 1

**Levels:** Undergraduate

**Schedule types:** Lab, Lecture, Combined lecture and lab

**Department/School:** Aerospace Studies

**AERO 3103 Leading People and Effective Communication I**

**Description:** This course designed to build on the leadership fundamentals taught in AERO 2X11. The cadets will have the opportunity to utilize their skills as they begin more of a leadership in the detachment. The goal is for cadets to have a more in-depth understanding of how to effectively lead people, and provide them with the tools to use throughout their detachment leadership roles. Secondly, students will hone their writing and briefing skills. The course continues into advanced skills and ethics training to prepare them for becoming an officer and a supervisor in the United States Air Force.

**Credit hours:** 3

**Contact hours:** Lecture: 2 Lab: 2 Contact: 4

**Levels:** Undergraduate

**Schedule types:** Lab, Lecture, Combined lecture and lab

**Department/School:** Aerospace Studies

**AERO 3203 Leading People and Effective Communication II**

**Description:** "Leading People and Effective Communication" utilizes student's field training experience to take a more in-depth look at leadership. Special emphasis is placed on enhancing communication skills, and why that is important as a leader. Students have an opportunity to try out leadership and management techniques in a supervised environment as juniors and seniors.

**Credit hours:** 3

**Contact hours:** Lecture: 2 Lab: 2 Contact: 4

**Levels:** Undergraduate

**Schedule types:** Lab, Lecture, Combined lecture and lab

**Department/School:** Aerospace Studies

**AERO 3504 Field Training Encampment Program**

**Prerequisites:** Consent of professor of aerospace studies.

**Description:** Practical training on an Air Force base. Junior officer training, familiarization training in most functional aspects of a typical Air Force base. Includes career orientation, small arms firing, flight orientation rides, and survival training.

**Credit hours:** 4

**Contact hours:** Lecture: 4 Contact: 4

**Levels:** Undergraduate

**Schedule types:** Lecture

**Department/School:** Aerospace Studies

**AERO 4103 National Security, Leadership Responsibilities and Commissioning Preparation I**

**Description:** The formulation, organization and context of national - security; civil-military interaction and the evolution of strategy. Review of the military profession and officership. The AS400 cadet should comprehend the 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.

**Credit hours:** 3

**Contact hours:** Lecture: 2 Lab: 2 Contact: 4

**Levels:** Undergraduate

**Schedule types:** Lab, Lecture, Combined lecture and lab

**Department/School:** Aerospace Studies

**AERO 4203 National Security, Leadership Responsibilities and Commissioning Preparation II**

**Description:** Students are instructed on the responsibility, authority, and functions on an Air Force commander and selected provisions of the military justice system. The final semester of the AS400 course is designed to prepare cadets for life as a second lieutenant. "National Security and Preparation for Active-Duty" is designed for college seniors and provides them the foundation to understand their role as military officers and how they are directly tied to our National Security.

**Credit hours:** 3

**Contact hours:** Lecture: 2 Lab: 2 Contact: 4

**Levels:** Undergraduate

**Schedule types:** Lab, Lecture, Combined lecture and lab

**Department/School:** Aerospace Studies

**AERO 4402 Summer Professional Development Training Program**

**Prerequisites:** Consent of professor of aerospace studies.

**Description:** Students spend from two to three weeks on an Air Force base working in their intended specialty under supervision of experienced officer. Leadership and management principles applied to day-to-day experiences.

**Credit hours:** 2

**Contact hours:** Lecture: 2 Contact: 2

**Levels:** Undergraduate

**Schedule types:** Lecture

**Department/School:** Aerospace Studies

## Minors

- Aerospace Studies (AERO), Minor (<http://catalog.okstate.edu/arts-sciences/aerospace-studies/aerospace-minor/>)

## Faculty

Lieutenant Colonel Michael J. Cheatham—Commander, Professor and Department Head

**Assistant Professors:** Major Morgan Dolan; Captain Michael Vander Sys; Captain Jason Nadle

**Staff:** Mendi Cronister; Technical Sergeant Ephraim Davis; Staff Sergeant Payton Andersen