
Department of Aerospace Studies

<http://www.ncat.edu/~afrotc>

Lt. Col. Robert Payne, Jr., Professor

OBJECTIVES

The objective of the Department of Aerospace Studies is to develop leaders who will serve as commissioned officers in the United States Air Force (USAF). To meet this objective, the department offers a four-year Air Force Reserve Officer Training Corps (AFROTC) Program where students enroll at the beginning of their freshman year and continue through award of a bachelor's degree and commissioning into the USAF. The four-year program can be modified for students up until the beginning of the spring semester of a student's sophomore year.

The AFROTC Program begins with the General Military Course. As freshmen or sophomores, students normally attend a one-hour class and a two-hour Leadership Laboratory each week in addition to two one-hour physical training sessions. The freshman course is a survey course designed to introduce students to the USAF and provides an overview of the basic characteristics, missions, and organization of the Air Force. The sophomore course is designed to examine the general aspects of air and space power through a historical perspective; utilizing this perspective, the course covers a time period from the first balloons and dirigibles to the space-age global positioning systems of the Persian Gulf War. Students who compete favorably for the award of Professional Officer Corps (POC) status will attend a four-week summer Field Training Program, at Maxwell Air Force Base, AL, to give them a firsthand look at the Air Force environment.

During the junior and senior years, students begin and complete the POC Program, which is designed to equip them with the tools and strategies they will use on active duty. The junior year begins a study of leadership, management fundamentals, professional knowledge, Air Force personnel and evaluation systems, leadership ethics, and communication skills required of a Second Lieutenant in the USAF. Seniors examine the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest in the senior curriculum 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. Leadership Laboratory puts the knowledge obtained and skills developed in the classroom into practical application. Depending on classification (freshman through senior) and contractual obligation to the USAF, the qualified student will receive a monthly, non-taxable stipend of between \$300 and \$500.

When one successfully completes the AFROTC Program and receives a degree, he/she is then commissioned as a Second Lieutenant and serves a minimum of four years in the Air Force. Everyone enters the Air Force in a specific career field, usually correlating to their field of study, which is subject to the needs of the Air Force. There are many exciting career fields for active duty officers including Engineering, Medical, Legal, Nursing, Transportation and Logistics, and Aviation (i.e., pilot and navigator).

For more information on the AFROTC Program, you may contact any instructor or the Unit Admissions Officer in the Department of Aerospace Studies, Campbell Hall, telephone (336) 334-7707, or view the AFROTC/DET 605 Website at <http://www.ncat.edu/~afrotc>.

PROGRAM REQUIREMENTS

The requirements for entry into the program are as follows:

- Must be a full-time student of NCA&TSU, a Greensboro Consortium Institution, Winston-Salem State University or Wake Forest University
- Must be at least 14 years old to participate and at least 17 to receive a scholarship; if entering into the two-year program, must be at least 18 years old or have the consent of a legal guardian
- Must be physically qualified
- Must be a U.S. citizen
- Must pass the Air Force Officer Qualifying Test
- Must complete summer Field Training
- Must have 2.5 academic years remaining (undergraduate, graduate, or combination)
- Must be able to complete all commissioning requirements in accordance with the following:

Rated (pilot or combat systems officer): commissioned before reaching the age of 29

Scholarship applicants: be less than 31 years old as of December 31 of the year you will commission

Tech, non-tech and non-rated: commissioned by age 30 (waiverable up to age 35)

UNIFORMS

All cadets will receive two ROTC uniforms. The uniform must be dry cleaned prior to returning it. Each cadet is responsible for the maintenance and security of property they have been issued. All uniform items must be returned prior to the end of each academic year.

SCHOLARSHIPS

Scholarships may be granted for periods of two, two and a half, three, three and a half, and four years. All scholarship students, depending on classification, receive a monthly tax-free stipend of between \$300 and \$500. The Air Force pays tuition, laboratory fees, and a book allowance. In addition, the university will provide free room and board for a limited number of four-year scholarship recipients. Details on scholarships may be obtained by contacting the Unit Admissions Officer in the Department of Aerospace Studies.

GENERAL MILITARY COURSE

AERO 121. Foundations of the USAF I **Credit 1(1-0)**

This course introduces the students to the USAF. It includes a study of the foundations of officership, mission and organization of the Air Force, US military customs, courtesies, rank structure and Air Force Core Values. (F)

AERO 122. Foundations of the USAF II **Credit 1(1-0)**

This course is a continuation of AERO 121. Featured topics include Air Force organization and command structure, communication skills application and structure of the Department of Defense. (S)

AERO 131. General Military Course Leadership Laboratory I **Credit 1(0-3)**

This course puts into practice the Air Force customs and courtesies, drill and ceremonies, and leadership techniques learned during the associated class. In addition, one hour of physical training, beginning at 6:00 a.m., two times per week, is mandatory. This course must be taken in conjunction with AERO 121. (F)

AERO 132. General Military Course Leadership Laboratory II **Credit 1(0-3)**

This course is a continuation of AERO-131. This course puts into practice the Air Force customs and courtesies, drill and ceremonies, and leadership techniques learned during the associated class. Provides more detailed information about the Air Force and career opportunities available. In addition, one hour of physical training, beginning at 6:00 a.m., two times per week, is mandatory. Must be taken in conjunction with AERO 122. (S)

AERO 221. Air Power History I **Credit 1(1-0)**

This course is designed to examine the general aspects of air and space power through a historical perspective. Historical examples are provided to extrapolate the development of Air Force capabilities and missions to demonstrate the evolution of what has become today's USAF air and space power. (F)

AERO 222. Air Power History II **Credit 1(1-0)**

This course is a continuation of AERO 221 and further examines the aspects of air and space power through a historical perspective but incorporates most recent world events and how they pertain to the capabilities and missions of the USAF. (S)

AERO 231. General Military Course Leadership Laboratory III **Credit 1(0-3)**

This course is an application of Air Force customs and courtesies; drill and ceremonies; and examines the Air Force environment, life, and work of an Air Force Officer. In addition, one hour of physical training, beginning at 6:00 a.m., two times per week, is mandatory. Must be taken in conjunction with AERO 221. (F)

AERO 232. General Military Course Leadership Laboratory IV **Credit 1(0-3)**

This course continues the application of Air Force customs and courtesies, and leadership training. In addition, one hour of physical training, beginning at 6:00 a.m., two times per week, is mandatory. This course must be taken in conjunction with AERO 222. (S)

PROFESSIONAL OFFICER COURSE

AERO 321. Leadership Studies I **Credit 3(3-0)**

This course is a study of leadership, management fundamentals, and professional knowledge, leadership ethics, and communication skills required of a junior officer in the United States Air Force. 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. (F)

AERO 322. Leadership Studies II **Credit 3(3-0)**

This course is a continuation of AERO 321. Studies of teambuilding fundamentals, roles and responsibilities of the Air Force supervisor, officer professional development, and advanced topics on Military Ethics and communication skills applications are covered. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical applications of the concepts being studied. (S)

AERO 331. Professional Officer Course Leadership Laboratory I **Credit 1(0-3)**

This course provides advanced leadership experiences in training and command activities. This gives the advanced students the opportunity to apply leadership and management principles and techniques. In addition,

one hour of physical training, beginning at 6:00 a.m., two times per week, is mandatory. This course must be taken in conjunction with AERO 321. (F)

AERO 332. Professional Officer Course Leadership Laboratory II **Credit 1(0-3)**

This course is a continuation of AERO 331. It gives students an opportunity to develop personal leadership and management concepts through participation in advanced leadership experiences. In addition, one hour of physical training, beginning at 6:00 a.m., two times per week, is mandatory. This course must be taken in conjunction with AERO 322. (S)

AERO 421. National Security Affairs I **Credit 3(3-0)**

This course examines the national security process, regional studies, and Air Force doctrine. Within this structure, continued emphasis is given to refining communication skills. (F)

AERO 422. National Security Affairs II **Credit 3(3-0)**

This course focuses on officership, military justice, civilian control of the military, preparation for active duty and military professionalism. (S)

AERO 431. Professional Officer Course Leadership Laboratory III **Credit 1(0-3)**

This course is designed to develop each student's leadership potential and serve as an orientation to active duty. Students are involved in the planning, organizing, coordinating, directing, and controlling of military activities in the cadet corps. In addition, one hour of physical training, beginning at 6:00 a.m., two times per week, is mandatory. This course must be taken in conjunction with AERO 421. (F)

AERO 432. Professional Officer Course Leadership Laboratory IV **Credit 1(0-3)**

This course is a continuation of AERO 431. It provides the students with practical command and staff leadership experiences through their performance of various tasks within the framework of an organized cadet corps. In addition, one hour of physical training, beginning at 6:00 a.m., two times per week, is mandatory. This course must be taken in conjunction with AERO 422. (S)

CURRICULUM GUIDE FOR AIR FORCE RESERVE OFFICER TRAINING CORPS CADETS

General Military Course

Freshman Year

<i>Fall Semester</i>	<i>Credit</i>	<i>Spring Semester</i>	<i>Credit</i>
AERO 121	1	AERO 122	1
AERO 131	$\frac{1}{2}$	AERO 132	$\frac{1}{2}$
	2		2

Sophomore Year

<i>Fall Semester</i>	<i>Credit</i>	<i>Spring Semester</i>	<i>Credit</i>
AERO 221	1	AERO 222	1
AERO 231	$\frac{1}{2}$	AERO 232	$\frac{1}{2}$
	2		2

Professional Officer Course

Junior Year

<i>Fall Semester</i>	<i>Credit</i>	<i>Spring Semester</i>	<i>Credit</i>
AERO 321	3	AERO 322	3
AERO 331	$\frac{1}{4}$	AERO 332	$\frac{1}{4}$
	4		4

Senior Year

<i>Fall Semester</i>	<i>Credit</i>	<i>Spring Semester</i>	<i>Credit</i>
AERO 421 ¹	3	AERO 422 ¹	3
AERO 431	$\frac{1}{4}$	AERO 432	$\frac{1}{4}$
	4		4

¹AERO 421 and 422 may be used to fulfill some University Studies requirement.

DIRECTORY OF FACULTY

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