

# Department of Aerospace Studies

AIR FORCE RESERVE OFFICER TRAINING CORPS  
DETACHMENT 840

Derrick Hall 301  
T: 512.245.2182 F: 512.245.7474  
www.afrotc.txstate.edu

**MINOR OFFERED**  
Aerospace Studies

The Air Force Reserve Officer Training Corps (AFROTC) Program at Texas State develops skills and attitudes vital to professional Air Force Officers. The purpose of the program is to commission qualified students who wish to serve in the United States Air Force.

For the four-year program, students may register in the same manner as for other college courses. During the freshman and sophomore years of the program, students enroll in the General Military Course (GMC). Membership in the GMC does not confer any military status or commitment upon the cadet. After completion of the GMC, students compete for entry into the Professional Officer Course (POC), which is outlined below and normally is taken during the last two years of college.

The POC is designed to provide greater flexibility to meet the needs of students desiring a commission in the Air Force. The basic requirement is that the student has two full-time academic years remaining at either the undergraduate or graduate level to meet the minimum requirement of four semesters of POC academics and Leadership Laboratory.

Selection for the POC is highly competitive. Criteria used to assess qualifications of applicants are the Air Force Officer Qualification Test (testing material and information is available through AFROTC), cumulative GPA, physical fitness test, and the recommendation of the Professor of Aerospace Studies. Before formal induction into the POC, applicants must complete a four-week summer Field Training encampment paid for and conducted annually by the Air Force at various Air Force installations.

Both GMC and POC members must attend a weekly two-hour laboratory each semester. The laboratory provides cadets an environment to develop, learn and practice Air Force leadership skills. Students interested in learning more about AFROTC may visit <http://www.afrotc.com> or contact the Department of Aerospace Studies and Detachment 840.

Students may compete for a variety of scholarships. Qualified students may apply during the fall or spring semester for a scholarship that covers the remaining years in the program. The scholarships provide up to full tuition, laboratory and incidental fees, and an allowance for books. All students must complete a minimum of 24 semester hours of math and physical science or

four semester hours of the same foreign language. In addition, scholarship students, based on their classification, may receive up to \$500.00 per month tax-free subsistence. Students may obtain complete scholarship information at the department.

Pursuant to Texas Education Code §51.302, up to three semester hours of credit in an upper-level ROTC course may be applied to the core curriculum history requirement (HIST 1310 or 1320) and up to three hours to the core curriculum government requirement (POSI 2320 only).

## MINOR IN AEROSPACE STUDIES

A minor in Aerospace Studies requires 19 hours, including AS 1110, 1120, 2110, 2120, 3311, 3312, 4311, 4312 and 3 hours of MATH. Cadets must enroll in A S 1000 every term until graduation.

## Courses in Aerospace Studies (A S)

- 1000 Leadership Laboratory. (0-2) An integral and mandatory two-hour lab accomplished concurrently with all Aerospace Studies courses. It is a progression of practical command and staff experiences that develop leadership potential. AFROTC cadets plan, organize, direct, coordinate, and control all activities. The lab is repeatable without credit because it focuses on different leadership processes.
- 1110 The Air Force Today I. (1-0) A study of the doctrine, mission, and organization of the United States Air Force; United States strategic offensive and defensive forces, their missions and functions; and employment of nuclear weapons. Co-requisite: A S 1000.
- 1120 The Air Force Today II. (1-0) An introduction to flight, oral and written communication for the Air Force officer, Air Force installations, the Air Force profession and how the Air Force integrates with the U.S. Army, Navy, Marines, and Coast Guard. Co-requisite: A S 1000.
- 2110 The Development of Air Power I. (1-0) A historical study of the development of air and space power beginning before the first powered flights through WWI, the inter-war years, and WWII, tracing the development of various air power concepts with a focus on factors prompting aerospace research and technological change. Co-requisite: A S 1000.
- 2120 The Development of Air Power II. (1-0) A continuation of A S 2110 studying the historical development of air and space power from Vietnam to the present. Events and trends in the history of airpower are examined, emphasizing examples of the impact of air and space power on strategic thought. Co-requisite: A S 1000.
- 3311 Leadership and Management I. (3-0) A study of the framework of leadership in the Air Force (AF), part 1. Practical case studies examine AF leadership and management situations and discipline and ethics scenarios that demonstrate applications of the concepts. The course emphasizes communication skills used by officers in the AF. Co-requisite: A S 1000.
- 3312 Leadership and Management II. (3-0) A study of the framework of leadership in the Air Force (AF), part 2. Practical case studies examine AF leadership and management situations and discipline and ethics scenarios that demonstrate applications of the concepts. The course

emphasizes communication skills used by officers in the AF.  
Co-requisite: A S 1000.

4311 National Security Forces in Contemporary American Society I. (3-0) Part 1 of the study of professional Air Force (AF) officers in a democratic society; societal attitudes toward the armed forces; national defense structure, policy development; and military law. AFROTC cadets study topics that prepare them for duty as AF officers. The course emphasizes AF communication skills. Co-requisite: A S 1000.

4312 National Security Forces in Contemporary American Society II. (3-0) Part 2 of the study of professional Air Force (AF) officers in a democratic society; societal attitudes toward the armed forces; national defense structure, policy development; and military law. AFROTC cadets study topics that prepare them for duty as AF officers. The course emphasizes AF communication skills. Co-requisite: A S 1000.

## Department of Agriculture

Agriculture Building 206  
T: 512.245.2130 F: 512.245.3320  
www.ag.txstate.edu

### DEGREE PROGRAMS OFFERED

Bachelor of Science in Agriculture (BSAG), major in Agriculture

Bachelor of Science in Agriculture (BSAG), major in  
Agriculture (Teacher Certification in Agriculture  
Science and Technology, Grades 6-12)

Bachelor of Science in Agriculture (BSAG), major in  
Agriculture-Animal Science (Integrated Ranch and  
Natural Resources Management Specialization)

Bachelor of Science in Agriculture (BSAG), major in Agriculture-  
Animal Science (Basic Science and Pre-Vet Specialization)

Bachelor of Science in Agriculture (BSAG), major  
in Agriculture-Business and Management  
(Agribusiness Management Specialization)

Bachelor of Science in Agriculture (BSAG), major in  
Agriculture-Business and Management (Agricultural  
Systems Management Specialization)

Bachelor of Science in Agriculture (BSAG), major  
in Agriculture-Business and Management  
(Horticultural Business Specialization)

### MINORS OFFERED

Agriculture  
Animal Science  
Horticulture  
Plant and Soil Science

Agriculture majors have a choice of four different degree tracks: Agriculture, Agriculture-Teacher Certification, Agriculture-Animal Science, and Agriculture-Business and Management. The Department of Agriculture offers programs reflecting the diversity of choices available and skills required in modern agriculture and its related professions. This dynamic, global industry uses new technologies to improve the production, management, manufacture, and distribution of food and agricultural products.

### Major in Agriculture

Agriculture majors are provided a broad exposure to agriculture. With this curriculum, students may expect to manage a ranch or a farm, or work in any career that requires a general agriculture education such as county extension agents, banking or government service.

### Major in Agriculture with Teacher Certification in Agriculture Science and Technology

A comprehensive educational program concerned with the broad field of agriculture. Emphasis in the major is on production techniques, managerial skills and competencies necessary to function as agricultural scientists, educators, or agricultural managers in today's complex agricultural industry. Agricultural science teachers are certified to teach in grades six through twelve in the public schools of Texas.

### Major in Agriculture-Animal Science

The study of all aspects of the livestock and poultry industries including commercial production and management; food processing; and animal feed/animal health including nutrition, biotechnology and veterinary medicine. Involvement of students in ongoing faculty research prepares graduates for careers in research and industry; and for further education in veterinary schools or graduate schools.

### Major in Agriculture-Business and Management

This major reaches far beyond the farm to encompass the activities involved in bringing food and fiber to consumers. Students may pursue three specializations with this major: Agribusiness Management, Agricultural Systems Management, or Horticultural Business.

### Major in Agribusiness Management

In this specialization students learn about the acquisition and use of capital, the working of the marketplace, financial institutions, and the effect of government policies on agriculture. Therefore, the Agribusiness Management specialization includes courses in agricultural finance, marketing and policies dealing with resource use as well as courses in technical agriculture and general education.

### Major in Agricultural Systems Management

This specialization integrates and applies engineering technology, agricultural sciences, and business. It prepares graduates for careers in technical fields and engineering such as agricultural machinery and power systems, electrical energy systems including sensors and controls, agricultural structures, surveying, and environmental systems including water utilization and quality. Students are involved with ongoing research, farm power and machinery, and precision farming and global positioning systems. Graduates are expected to assume positions of leadership and responsibility in careers such as product testing and service management, agricultural sales and services, and agricultural production systems.

### Major in Horticultural Business

This specialization teaches management of commercial establishments and institutions that produce ornamental plants such as greenhouses and nurseries, floral shops and plant therapy businesses. The major also contains specialized courses in horticulture that