AIR SCIENCE DIVISION

Professor: Lt. Col. Stambaugh (Head)
Assistant Professors: Major Wasserman; Captain Carlson

MINOR

A minor in air science consists of 15 units including Air Sci. 101a-b-c, 10

BASIC AIR SCIENCE

The basic course, besides laying a foundation for intelligent citizenship in space age, provides education in military subjects. In addition, specified co courses in the areas of mathematics, physical science, natural science, fo languages, the humanities, or social sciences satisfy pre-commission officer educa requirements and are designated as part of the air science curriculum. Consult Air Science Division Head for a list of these approved courses from which courses must be selected.

The basic course is a prerequisite to enrollment in the advanced course. male students who are physically qualified for military training and who citizens of the United States are eligible to take the basic course. They are however, in the military service and assume no military obligation. Uniforms military textbooks, as required, are provided by the government and mus returned in good condition upon completion of the course.

ADVANCED AIR SCIENCE

The advanced course, to which selected upper division students are admi leads to a reserve commission as second lieutenant in the United States Air Fo if successfully completed. The students are not, however, in the military service normally assume no military obligations while enrolled in the college.

To be eligible for admission to the advanced course, a student must:

(1) Be a citizen of the United States and not less than 14 years of age.

(2) Be physically qualified under standards of the Department of Air Force.

(3) Be accepted by the institution as a regularly enrolled student.

(4) Be not more than 26½ years of age, if programmed for flying training 28 years of age, if programmed for other than flying training, at date of gra tion and commissioning.

(5) Successfully complete such survey and general screening tests as may required.

(6) Be selected by the Professor of Air Science and the President of the Col

(7) Execute a written agreement with the United States Government and President of the College to complete the advanced course contingent upon c pletion of college at the institution at which he is enrolled or any other institu where such course is given in the case of a transfer from one institution to anot

(8) Devote five hours per week to the military education prescribed and pu the courses of the Summer Training Unit during such period as prescribed by Secretary of the Department of the Air Force, in consideration of commuta of subsistence to be paid to the student by the government.

(9) Have completed the basic course, Senior Division AFROTC, or h received credit in lieu thereof for previous honorable active service in the Force, Army, Navy, Marine Corps, or Coast Guard or for previous training the United States Air Force Academy, United States Military Academy, United States Naval Academy, or the United States Coast Guard Academy, o the Naval Reserve Officers' Training Corps, or the Army Specialized Trai Program, as approved by the President of the College and the Professor of Science under regulations established by the Department of the Air Fo However, veterans must complete as much of the basic course as possible intending to enroll in the advanced course.

Students enrolled in the advanced course receive a monthly monetary allowance in lieu of subsistence at a daily rate equal to the value of the commuted ration (90c per day). During the summer training, which will normally be during the summer preceding the senior year, with the exception that special provisions may apply to veterans, students receive rations, quarters, and the base pay of the first grade ($78 per month) and mileage to and from place of encampment. Textbooks, reference books, and officer-type uniforms are provided by the government. All AFROTC payments or other benefits are in addition to benefits to which a veteran is entitled under the GI Bill or other laws.

Courses

AIR SCIENCE

1a. Basic Air Science (1) F — **Staff**
Leadership Laboratory: Systematic instruction and education to provide the cadet with guided learning experiences in the application of leadership principles.

1b. Basic Air Science (2) S — **Staff**
Introduction to Fundamentals of Air Power: Foundations of air power, military instruments of national security, elements and potentials of air power, evolution of aerial warfare, air vehicles and principles of flight. (2 lecture, 1 lab hour)

2a. Basic Air Science (2) F — **Staff**
Prerequisite: Air Sci. 1a-b or equivalent. Foundations of Air Power: Survey of elements of aerial warfare, employment of Air Forces, space operations and vehicles, professional opportunities in the United States Air Force. (2 lecture, 1 lab hour)

2b. Basic Air Science (1) S — **Staff**
Prerequisite: Air Sci. 2a or equivalent. Leadership Laboratory: Systematic instruction and education to provide the cadet with guided learning experiences in the application of leadership principles.

101a. Advanced Air Science (3) F — **Staff**
Prerequisite: Air Sci. 2a-b or equivalent. Knowledge and skills required of a junior officer in the Air Force; staff organization and functions, communicating, instructing, and techniques of problem solving. (4 lecture, 1 lab hours)

101b. Advanced Air Science (3) S — **Staff**
Prerequisite: Air Sci. 101a. Principles and practices of leadership; basic psychology of leadership; the military justice system; application of problem solving techniques and leadership theory to simulated and real Air Force problems. (4 lecture, 1 lab hours)

101c. AFROTC Summer Training Unit (3) — **Staff**
Prerequisites: Air Sci. 101a-b or 102a-b. One month's training required for advanced students at designated Air Force installation to qualify for reserve commission. Summer training unit attendance normally precedes the senior year except that special provisions may apply to veterans. Summer training unit subjects include physical training; drill; individual weapons; familiarization flying; field exercise, USAF base activities; equipment and problems.

102a. Advanced Air Science (3) F — **Buckman and Staff**
Prerequisite: Air Sci. 101a-b or equivalent. Weather and Navigation; International Relations: Weather and navigational aspects of airmanship; temperature, pressure, air masses, precipitation, weather charts, navigational charts; dead reckoning navigation. Major factors underlying international tensions; attempts to alleviate these tensions; balance of power concepts; rise of the superpowers, United States and U.S.S.R. (4 lecture, 1 lab hour)