Undergraduate Aerospace Studies Courses

AEST 1101. Foundation of the US Air Force I. 1 Credit Hour (Lecture: 1 Hour, Lab: 1 Hour).
Air Force AEST 1101 in the fall and AEST 1102 in the spring: A survey course designed to introduce students to the U.S. Air Force and Air Force ROTC. Featured topics include: mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, group leadership problems, and an introduction to communication skills. Leadership Laboratory L100 must be taken and complements this course by providing cadets with followership experiences.

AEST 1102. Foundation of the US Air Force II. 1 Credit Hour (Lecture: 1 Hour, Lab: 1 Hour).
Air Force AEST 1101 in the fall and AEST 1102 in the spring: A survey course designed to introduce students to the U.S. Air Force and Air Force ROTC. Featured topics include: mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, group leadership problems, and an introduction to communication skills. Leadership Laboratory L100 must be taken and complements this course by providing cadets with followership experiences.

AEST 2101. Evolution of US Air & Space Power I. 1 Credit Hour (Lecture: 1 Hour, Lab: 1 Hour).
Air and Space Power (AEST 2101 in the fall and AEST 2102 in the spring): A survey course designed to examine 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. Historical examples are provided to extrapolate the development of Air Force capabilities (competencies), and missions (functions) to demonstrate the evolution of what has become today's USAF air and space power. Furthermore, the course examines several fundamental truths associated with war in the third dimension: e.g. Principles of War and Tenets of Air and Space Power. As a whole, this course provides the student with a knowledge level understanding for the general element and employment of air and space power, from an institutional, doctrinal, and historical perspective. In addition, the students will continue to discuss the importance of the Air Force Core Values with the use of operational examples and historical Air Force leaders and will continue to develop their communication skills. Laboratory L100 must be taken and complements this course by providing cadets with followership experiences.

AEST 2102. Evolution of US Air & Space Power II. 1 Credit Hour (Lecture: 1 Hour, Lab: 1 Hour).
Air and Space Power (AEST 2101 in the fall and AEST 2102 in the spring): A survey course designed to examine 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. Historical examples are provided to extrapolate the development of Air Force capabilities (competencies), and missions (functions) to demonstrate the evolution of what has become today's USAF air and space power. Furthermore, the course examines several fundamental truths associated with war in the third dimension: e.g. Principles of War and Tenets of Air and Space Power. As a whole, this course provides the student with a knowledge level understanding for the general element and employment of air and space power, from an institutional, doctrinal, and historical perspective. In addition, the students will continue to discuss the importance of the Air Force Core Values with the use of operational examples and historical Air Force leaders and will continue to develop their communication skills. Laboratory L100 must be taken and complements this course by providing cadets with followership experiences.

AEST 3301. Leadership Studies I. 3 Credit Hours (Lecture: 3 Hours, Lab: 3 Hours).
AEST 3301 is a study of leadership, management fundamentals, professional knowledge, leadership ethics and the communication skills required of a junior military officer. Case studies are used to examine leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. Course objective is for student to comprehend and apply the concepts of ethical behavior as well as comprehend the selected concepts, principles and theories of leadership and management. Laboratory L100 must be taken and consists of activities classified as leadership and management experiences. It involves the planning and controlling of military activities of the Cadet Corps; and the preparation and presentation of briefings and other oral and written communications.

AEST 3302. Leadership Studies II. 3 Credit Hours (Lecture: 3 Hours, Lab: 3 Hours).
AEST 3302 builds upon the concepts established in AEST 3301. 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. Course objective is for the student to comprehend and apply the concepts of conflict management, mentorship and counseling in a military environment, understand the principles of leadership authority and responsibility as it pertains to the military officer. Laboratory L100 must be taken and consists of activities classified as leadership and management experiences. It involves the planning and controlling of military activities of the Cadet Corps; and the preparation and presentation of briefings and other oral and written communications. Prerequisite: AEST 3301 or permission of the instructor.

AEST 4301. National Security Affairs I. 3 Credit Hours (Lecture: 3 Hours, Lab: 3 Hours).
Course is designed to examine the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officership, military justice, civilian control of the military and current issues affecting military professionalism. Course objective is for student to comprehend basic elements of national security policy, Air Force functions and competencies and role of the military as it pertains to national security policy. Laboratory L100 must be taken and consists of activities classified as leadership and management experiences. It involves the planning and controlling of military activities of the Cadet Corps; and the preparation and presentation of briefings and other oral and written communications.

AEST 4302. National Security Affairs II. 3 Credit Hours (Lecture: 3 Hours, Lab: 3 Hours).
AEST 4302 builds upon the concepts established in AEST 4301. Course is designed to examine the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on responsibility, authority and functions of an Air Force Commander, the military Major Commands Area of Responsibilities, basic introduction of military law and the Code of Conduct. Laboratory L100 must be taken and consists of activities classified as leadership and management experiences. It involves the planning and controlling of military activities of the Cadet Corps; and the preparation and presentation of briefings and other oral and written communications. Prerequisite: AEST 4301 or permission of the instructor.

AEST L100. Leadership Lab. 1 Credit Hour (Lecture: 0 Hours, Lab: 1 Hour).
Leadership Lab (LLab) is the "hands-on" leadership training portion of the Air Force ROTC program. The Leadership Lab (LLab) also includes studying the environment of an Air Force officer and learning about areas of opportunity available to commissioned officers. The AEST3000 and AEST4000 LLabs consist of activities classified as leadership and management experiences. They involve the planning and controlling of military activities of the cadet corps; and the preparation and presentation of briefings and other oral and written communications. LLabs also include interviews, guidance, and information which will increase the understanding, motivation, and performance of other cadets. (This course is only offered as P/NC.).