

# AEROSPACE STUDIES (AERO)

## Aerospace Studies Undergraduate Courses

### **AERO 1010 LEADERSHIP LABORATORY (0 credits)**

AERO 1010, "Leadership Laboratory" (LLAB) augments the Air Force ROTC academic curriculum by providing prospective Air Force officers opportunities and feedback needed to develop leadership, managerial, and supervisory skills. Applications include a study of Air Force customs and courtesies, drill and ceremonies, problem solving, communication, and learning about career opportunities available to commissioned officers. During the junior and senior year, LLABs consist of activities classified as leadership and management experiences. Instruction is conducted within the framework of an organized cadet corps with a progression of experiences designed to develop leadership potential.

**Prerequisite(s):** Corequisite - Students need to register for respective year-level equivalent Aerospace Studies Course (AERO 1310/1320, AERO 2310/2320, AERO 3110/3120, AERO 4110/4120)

### **AERO 1310 U.S. AIR FORCE HERITAGE AND VALUES I (1 credit)**

AERO 1310, "Air Force Heritage and Values I," is a survey course designed to introduce students to the United States Air and Space Forces. It provides an overview of the basic characteristics, missions, and organization of the Air and Space Forces. As a foundational course, the topics covered in AERO 1310 will include Air Force Core Values, Formation of the Air Force, Customs and Courtesies, Writing and Verbal Communications, Benefits of Services as well as Introduction to Leadership to name a few. For students who continue in the Air Force ROTC (AFROTC) program, this course will be the foundation for becoming an Air or Space professional by outlining our heritage and values. Leadership Laboratory (AERO 1010) is mandatory for AFROTC cadets and complements this course by providing advanced leadership experiences in a hands-on, supervised environment. (Fall)

**Prerequisite(s):** Corequisite - AERO 1010

### **AERO 1320 U.S. AIR FORCE HERITAGE AND VALUES II (1 credit)**

AERO 1320, "Air Force Heritage and Values II," is a survey course designed to introduce students to the United States Air and Space Forces. It provides an overview of the basic characteristics, missions, and organization of the Air and Space Forces. As a foundational course, the topics covered in AERO 1320 will include What is War?, Evolution of the Air Force, Principles of War and Tenets of Airpower, Ethical Decision-Making as well as Air Force Major Commands to name a few. For students who continue in the Air Force ROTC (AFROTC) program, this course will be the foundation for becoming an Air or Space professional by outlining our heritage and values. Leadership Laboratory (AERO 1010) is mandatory for AFROTC cadets and complements this course by providing advanced leadership experiences in a hands-on, supervised environment. (Spring)

**Prerequisite(s):** Corequisite - AERO 1010

### **AERO 2310 TEAM AND LEADERSHIP FUNDAMENTALS I (1 credit)**

AERO 2310, "Team and Leadership Fundamentals I," is designed to provide students the foundation for both leadership and team building. The topics covered will include Listening, Followership, Problem Solving, Motivation as well as Standards and Accountability to name a few. All these concepts will be applied during activities and class discussions. Students will also practice and apply their verbal and written communication skills throughout the course. The lessons and course flow are designed to prepare students for field training and leadership positions in the detachment. Leadership Laboratory (AERO 1010) is mandatory for AFROTC cadets and complements this course by providing advanced leadership experiences in a hands-on, supervised environment. (Fall)

**Prerequisite(s):** Corequisite - AERO 1010, Prerequisite - AERO 1310/1320 or permission from instructor

### **AERO 2320 TEAM AND LEADERSHIP FUNDAMENTALS II (1 credit)**

AERO 2320, "Team and Leadership Fundamentals II," is designed to provide students the foundation for both leadership and team building. The topics covered will include Team Building, Human Relations, Conflict Management, Stress Management and Resiliency as well as Ethical Decision Making to name a few. All these concepts will be applied during activities and class discussions. Students will also practice and apply their verbal and written communication skills throughout the course. The lessons and course flow are designed to prepare students for field training and leadership positions in the detachment. Leadership Laboratory (AERO 1010) is mandatory for Air Force ROTC cadets and complements this course by providing advanced leadership experiences in a hands-on, supervised environment. (Spring)

**Prerequisite(s):** Corequisite - AERO 1010, Prerequisite - AERO 1310/1320/2310 or permission from instructor

### **AERO 3110 LEADING PEOPLE AND EFFECTIVE COMMUNICATION I (3 credits)**

AERO 3110, "Leading People/Effective Communication I," focuses on the development of advanced skills and knowledge in management and leadership. Special emphasis is placed on enhancing leadership and communication skills through case studies and practical application. The topics covered will include Critical Thinking, Change Management, Effective Supervision, Ethical Decision Making as well as Bias to name a few. As cadet officers in the Air Force ROTC program, students have an opportunity to apply these leadership and management techniques in a supervised environment. Leadership Laboratory (AERO 1010) is mandatory for Air Force ROTC cadets and complements this course by providing advanced leadership experiences in a hands-on, supervised environment. (Fall)

**Prerequisite(s):** Corequisite - AERO 1010, Prerequisite - AERO 1310/1320/2310/2320 or permission from instructor

### **AERO 3120 LEADING PEOPLE AND EFFECTIVE COMMUNICATION II (3 credits)**

AERO 3120, "Leading People/Effective Communication II," focuses on the development of advanced skills and knowledge in management and leadership. Special emphasis is placed on enhancing leadership and communication skills through case studies and practical application. The topics covered will include Leadership Theory, Mentoring, Professionalism, Self-Awareness, Organizational Climate as well as Establishing Expectations to name a few. As cadet officers in the Air Force ROTC program, students have an opportunity to apply these leadership and management techniques in a supervised environment. Leadership Laboratory (AERO 1010) is mandatory for Air Force ROTC cadets and complements this course by providing advanced leadership experiences in a hands-on, supervised environment. (Spring)

**Prerequisite(s):** Corequisite - AERO 1010, Prerequisite - AERO 1310/1320/2310/2320 or permission from instructor

### **AERO 4110 NATIONAL SECURITY AND COMMISSIONING PREPARATION I (3 credits)**

AERO 4110, "National Security and Commissioning Preparation I," is designed for college seniors and gives them the foundation to understand their role as Air or Space Force officers and how they are directly tied to our National Security Strategy. It is an overview of the complex social and political issues facing the military profession and requires a measure of sophistication commensurate with the senior college level. The topics covered will include Civilian Control of the Military, National Security Strategy, the Department of Defense, Joint Operations, Unified Combatant Commands, How the Department of the Air Force Deploys as well as the Law of War to name a few. Leadership Laboratory (AERO 1010) is mandatory for Air Force ROTC cadets and complements this course by providing advanced leadership experiences in a hands-on, supervised environment. (Fall)

**Prerequisite(s):** Corequisite - AERO 1010, Prerequisites - AERO 1310/1320/2310/2320/3110/3120 or permission from instructor

**AERO 4120 NATIONAL SECURITY AND COMMISSIONING**

**PREPARATION II (3 credits)**

AERO 4120, "National Security and Commissioning Preparation II," is designed for college seniors and gives them the foundation to understand their role as Air or Space Force officers. The topics covered will include Base Agencies, Ethical Decision-Making, Leadership Authority and Responsibility, Officer and Enlisted Evaluations Systems as well as Career Progression to name a few. As cadet officers in the Air Force ROTC program, students have an opportunity to apply these leadership and management techniques in a supervised environment. Leadership Laboratory (AERO 1010) is mandatory for Air Force ROTC cadets and complements this course by providing advanced leadership experiences in a hands-on, supervised environment.

(Fall)

**Prerequisite(s):** Corequisite - AERO 1010, Prerequisite - AERO 1310/1320/2310/2320/3110/3120/4110