

Welcome to the Fighting 55TH

AIR FORCE JUNIOR ROTC (GA- 20055) COURSE SYLLABUS 2021-2022 AFJROTC II-IV

COURSE NAMES: **Aerospace Science 300:** *Exploring Space: The High Frontier*
Leadership Education 400: *Fundamentals of Management*

CREDIT HOURS: 1 per semester

INSTRUCTORS' NAMES: Lt Col John Terry and MSgt Corey Lockhart

REQUIRED TEXT / MATERIALS:

- Aerospace Science 300: Exploring Space: The High Frontier
- Leadership Education 400: Fundamentals of Management
- AF Manual 36-2203, Personnel Drill and Ceremonies, V-2627(Chapters 1 – 3)
- Cadet Handbook

COURSE DESCRIPTION:

AFJROTC II-IV is the advanced course for 2nd- 4th- year cadets. The course consists of three components: Aerospace Science (40%), Leadership Education (40%), and Wellness/Physical Fitness (20%).

The **Aerospace Science 300:** *Exploring Space: The High Frontier* is typically the third/fourth-year science course in the high school sequence of Aerospace Science courses for the Air Force Junior ROTC. In the fall, we'll cover **chapters 1-4**. This course provides students with the latest information on exploring space and an introduction to cybersecurity and technology. The course will begin with early astronomy and the basic interest in the universe from the Greeks through the Renaissance and Enlightenment ages. Students will be provided an in-depth view of the solar system, including Earth, the Sun, the Moon, and planets. The text also discussed the history of space travel and more modern space probes and robotics. The text is intended for high school students and complements the material taught in high school math, physics, and other STEM-related courses.

Leadership Education 400: *Fundamentals of Management* discusses principles of management. During the spring, we'll cover **chapters 1-5**. The course includes definitions and histories of the discipline, conflict management, negotiation, and mentoring. It covers management techniques including principles and functions of management; management decisions involving conflict management, personal coping mechanisms, skills, roles, performance of management, and delegation; management functions of problem solving,

decision making, negotiation, and mentoring, and managing one's self and others by managing self-development, time, and information.

Wellness/Physical Fitness portion is an exercise program focused on individual base line improvements with the goal of achieving a fit lifestyle. The goal is to motivate JROTC cadets to lead active, healthy lifestyles beyond program requirements and into their adult lives. Cadets will be given the opportunity to put into practice the wellness concepts that are taught in the classroom environment.

COURSE OBJECTIVES:

First Semester

Aerospace Science/ Drill and Ceremonies: After completing Exploring Space: The High Frontier, the student will be able to:

1. Know the history of astronomy and the characteristics of the earth, moon, and planets.
2. Comprehend the big picture of space exploration, including the history of spaceflight.
3. Comprehend the importance of entering space, and characteristics of manned and unmanned spaceflight.
4. Comprehend the concepts of getting from the surface of the earth into orbit and to other planets and then back again
5. Comprehend how spacecraft, rockets, and launch vehicles are designed and built.
6. Comprehend the latest advances in space technology.
7. Know basic and advanced drill movements in order to participate in order to participate in military drill and ceremonies.
8. Comprehend and demonstrate proper wear of the uniform.

Second Semester

Leadership Education/Drill and Ceremonies: After completing Principles of Management, the student will:

1. Know the history and importance of management.
2. Know the techniques and skills involved in planning and decision making.
3. Know the importance of managing change, stress, and innovation.
4. Know the key elements of individual and group behavior, the importance of the communication process, and the characteristics of a good leader.
5. Know basic and advanced drill movements in order to participate in order to participate in military drill and ceremonies.
6. Comprehend and demonstrate proper wear of the uniform.

Wellness and Physical Fitness

1. Motivate AFJROTC cadets to lead active, healthy lifestyles beyond program requirements and into their adult lives.
2. Create an individualized training program based on national standards by age and gender.
3. Identify areas of improvements for each cadet.

4. Incorporate a physical training program to reach goals.

UNIFORM WEAR DAY:

Students WILL wear the Air Force JROTC uniform weekly (Tuesday) and the issued PT uniform on Thursdays, unless directed otherwise. Uniform wear guidance can be found in the cadet handbook.

Additionally, cadets who fail to return their uniforms at the end of the school year will receive an overall "Incomplete" (I) grade for the course and the cadet will be placed on the "Fines/Holds" list and not receive a report card, transcript or diploma until the obligation(s) is cleared.

DRILL AND CEREMONY:

Drill and ceremony is a critical part of the JROTC overall program. Cadets are required to participate in drill every week. A cadet who does not participate will receive a failing drill/uniform inspection grade. First-year cadets will be evaluated on their proficiency in marching. All second through fourth-year cadets will be evaluated on their proficiency in performing drill procedures and commanding. A cadet who is injured and temporarily unable to participate in drill must provide a note from their parent/guardian. A repeated or long term injury that prevents a cadet from performing drill will require a physician's note.

WELLNESS AND PHYSICAL TRAINING (PT):

All cadets are required to participate in PT every Thursday. Cadets must have a physical fitness consent form signed by their parent or guardian on file prior to participating in PT. The primary goal of the program is to motivate each cadet to lead an active and healthy lifestyle. Cadets' PT grade is based on their level of participation in the fitness program. Cadets are required to wear athletic shoes and their issued JROTC t-shirt. Fifteen points each will be deducted from the weekly grade of those who failed to wear the t-shirt or athletic shoes. Athletic shoes are required for cadets to participate in activities that require running. Cadets are required to bring their PT shoes and t-shirt to class. They will not be permitted to leave class to go and get the items. Cadets who are injured and temporarily unable to participate in PT are required to bring a note from their parent/guardian or physician.

GRADING PROCEDURES:

Scheduled Exams: Exams will be announced several days in advance. Cadets who are absent on an exam date are required to take it on their first day back to school unless they are advised otherwise by the Instructor.

Quizzes: Quizzes will usually occur each week unless otherwise advised by the Instructor.

Assignments: Ten points may be deducted for each day an assignment is late up to a maximum of 30 points.

Absences (excused/unexcused): Cadets who are absent on the assignment due date are required to submit it on the first day back to school.

Course Evaluation

Uniform/Drill/Summative Tests	60%
Quizzes	25%
Classwork/PT/Homework	15%
Final Exam	20%

Grading Scale

A	90% and above
B	89%-80%
C	79%-70%
F	69% and below

Community Service and Field Trips: Cadets will have multiple opportunities to perform Air Force JROTC sponsored community service activities and field trips.

Discipline: AFJROTC is a citizenship development course. Cadets are required to always conduct themselves as honorable citizens. The instructor will contact parents/guardians for substandard behavior.

Again, Welcome to the Fighting 55TH

SYLLABUS VERIFICATION

I have read this syllabus and understand the policies, standards, and objective for the JROTC course.

CADET NAME (Print last, first, M.I.)

SIGNATURE

DATE

PARENT NAME

PARENT SIGNATURE

DATE

John Terry

John Terry, Lt. Col, USAF (Ret)
Senior Aerospace Science Instructor

Corey Lockhart

Corey Lockhart, MSgt, USAF (Ret)
Aerospace Science Instructor