

LUCY RAGSDALE HIGH SCHOOL AFJROTC
AEROSPACE SCIENCE I (1st YEAR CADETS)
1st Semester

COURSE NAME: Aerospace Science I

CREDIT TYPE: One General Elective Credit

INSTRUCTORS: Chief Michael McMillan (ret), Senior Instructor mcmillm@gcsnc.com
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Office Hours 8am - 5pm \ Contact # 336-454-7400

AIR FORCE JUNIOR RESERVE OFFICER TRAINING CORPS (AFJROTC) MISSION:

Our mission is to develop citizens of character dedicated to serving their nation and community.

TEXT & MATERIALS (provided):

1. GCS Issued Chromebook
2. AS 100 - Milestones in Aviation History
3. LE 100 - Traditions, Wellness, and Foundations of Citizenship
4. L2L AFJROTC Cadet Drill Guide
5. DAF Pamphlet 34-1203
6. RHS AFJROTC Cadet Guide

**This class is for 1st year Cadets. The curriculum is broken out as follows: Leadership Education (50%), Aerospace Science (30%), and Wellness/Physical Fitness (20%).

Leadership Education 100: Traditions, Wellness and Foundations of Citizenship

Leadership Education 100 introduces the student to the Air Force Junior Reserve Officer Training Corps (AFJROTC) program, while instilling elements of good citizenship, strengthens and develops character; wear of the Air Force uniform and Air Force customs and courtesies. Cadets will gain an understanding of self-discipline and teamwork by way of military drill, which focuses on individual and group sequences, and attention to detail.

Course Outcomes:

1. Chapter 1: Intro to JROTC Programs (Lessons 1 - 5)

- a. Identify the purpose and structure of the JROTC Programs
- b. Determine proper wear of the military uniform
- c. Apply customs and courtesies in the Junior ROTC environment
- d. Demonstrate the roles of respect and integrity in Junior ROTC
- e. Demonstrate ethical concepts

2. Chapter 3: Be Health Smart (Lesson 3)

- a. Evaluate the importance of physical fitness

3. Drill

- a. Know the importance of drill and ceremonies
- b. Know basic command and characteristics of the command voice
- c. Perform basic drill positions and movements

Aerospace Science 100: Milestones in Aviation History

Aerospace Science 100 is an aviation history course focusing on the development of flight throughout the centuries. In chapter one we discuss early contributions to ancient flight. This chapter covers the discovery of how to fly using hot air balloons, early engines to propel dirigibles and early flight experiments with gliders. While exploring this chapter we will learn about the significant contributions of the Wright brothers. In chapter two our focus will be how military aviation advanced during World War I. Chapter three explores the evolution of the Army Air Corps after World War I through the end of World War II.

Course Outcomes

1. Chapter 1: Exploring Flight (Lessons 1 - 3)

- a. Examine the contributions that early civilization had on heavier than-air flight
- b. Analyze the significant contributions in early development of flight
- c. Summarize the contributions to the development of flight by the Wright Brothers

2. Chapter 2: Developing Flight (Lesson 1)

- a. Evaluate the significant contributions of air power during World War I

3. Chapter 3: The Evolution of the Early Air Force (Lesson 2)

- a. Analyze the role aerial bombing had on the outcome of World War II

Wellness/Physical Fitness: This part of the program is designed to motivate cadets to lead active, healthy lifestyles beyond program requirements. Cadets will learn proper exercise, stretching techniques, and teamwork. A Physical Fitness Test (PFT) consisting of 3 areas: push-ups, sit-ups and 1 mile run/walk is accomplished at the beginning and end of the semester.

Course Objectives

1. Wellness/Physical Fitness Program

- a. Motivate cadets to lead active, healthy lifestyles beyond program requirements and into their adult lives
- b. Identify areas of improvement for each cadet
- c. Incorporate a physical training plan to assist cadets with reaching improvement goals

Uniform Days: Cadets WILL wear the Air Force JROTC uniform on Wednesday and the PT uniform on Friday unless otherwise announced.

Grading

Dress & Appearance (40% of grade): Required to wear uniform on scheduled uniform days

Quizzes & Exams (20% of grade):

Leadership/Followership/Assignments (20% of grade) Weekly grade includes Class Participation & Assignments

Physical Training (20% of grade): Wear of Issued shorts/shirt & athletic shoes mandatory.

Grading Scale

- A - 90% and above
- B - 80% - 89%
- C - 70% - 79%
- D - 60% - 69%
- F - 59% and below

***Participation**

Attendance is taken daily and all cadets are expected to attend class every day. Each day cadets will earn a minimum of 20 Leadership/Followership points when they participate in class. Cadets can lose or earn additional points according to graded items outlined on the daily attendance sheet.