

**LUCY RAGSDALE HIGH SCHOOL AFJROTC**  
**AEROSPACE SCIENCE III (3rd YEAR CADETS)**  
**1<sup>st</sup> Semester**

**COURSE NAME:** Aerospace Science II/III Blended

**CREDIT TYPE:** One General Elective Credit

**INSTRUCTORS:** Chief Michael McMillan (ret), Senior Instructor [mcmillm@gcsnc.com](mailto:mcmillm@gcsnc.com)  
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**AIR FORCE JUNIOR RESERVE OFFICER TRAINING CORPS (AFJROTC) MISSION:**

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

\*\*This class is a combination of all second- and third-year cadets. The curriculum is broken out as follows: Leadership Education (50%), Aerospace Science (30%), and Wellness/Physical Fitness (20%).

**TEXT AND MATERIALS (provided):**

1. GCS Issued Chrome Book
2. LE 100: Traditions, Wellness, and Foundations of Citizenship
3. LE 200: Communication, Awareness and Leadership
4. LE 300: Life Skills and Career Opportunities
5. AS 300: Exploring Space - The High Frontier
6. L2L AFJROTC Cadet Drill Guide
7. DAF Pamphlet 34-1203
8. RHS Cadet Guide

**Leadership Education:**

Leadership education begins with a review of the importance of physical fitness, as physical training is an integral part of the program. Then we will turn our attention to the essence of group and team dynamics, including how to build mutual respect and how to establish a common vision for a group or team. Next, we will examine how to identify levels of conflict, a series of steps for problem solving and how to build consensus among team members.

Our discussion with will take a turn as we explore aspects of college campus life and making healthy choices. We will learn how selecting a major, leads to associated career paths. Finally, we will learn about the job search process and pursuing a career.

## Course Outcomes and Objectives

### **Leadership Education 100: Traditions, Wellness and Foundations of Citizenship**

1. Chapter 3: Be Health Smart (Lesson 3)
  - a. Evaluate the importance of physical fitness

### **Leadership Education 200: Communication, Awareness and Leadership**

1. Chapter 5: Developing Vision and Teams (Lesson 1-2)
  - a. Evaluate the importance of working as a team
  - b. Analyze the importance of mutual respect in team building and performance
2. Chapter 6: Solving Conflicts and Problems (Lesson 1-2)
  - a. Analyze the conflicts that arise in groups and the ways group members react to them
  - b. Examine how to apply problem-solving steps to group problems

### **Leadership Education 300: Life Skills and Career Opportunities**

1. Chapter 5: Charting Your Course (Lesson 1-2)
  - a. Evaluate the importance of personal accountability
  - b. Analyze careers associated with possible majors
2. Chapter 6: Applying for Jobs (Lesson 1-2)
  - a. Evaluate multiple sources for finding job openings
  - b. Create personal resume and cover letter specific to a job opening

### **Drill**

1. Know the importance of drill and ceremonies
2. Know basic command and characteristics of the command voice
3. Perform basic drill positions and movements

## **Aerospace Science:**

Our aerospace science lessons will start with the history of astronomy. We will begin with the prehistoric astronomy models and trace its evolution through modern astronomy models. Then, we will focus on the components of our solar system and their relationship to each other.

## **Course Outcomes**

### **Aerospace Science 300: Exploring Space - The High Frontier**

1. Chapter 1: The History of Astronomy (Lesson 1-3)
  - a. Describe the key prehistoric and classical astronomy models
  - b. Explain the models of astronomy discovered during the renaissance period
  - c. Describe the models of astronomy from the enlightenment period and modern ages
2. Chapter 2: The Solar System (Lesson 1-3)
  - a. Describe the components of the Earth and the Moon
  - b. Analyze the sun and the structure of the solar system
  - c. Examine the planets and objects of the solar system

## **Wellness/Physical Fitness:**

Our wellness 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 Wednesdays and the PT uniform on Fridays 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 including Attendance, 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

## **Honors Project**

Choose an employment opportunity. Complete a 2-page resume. Prepare to interview for employment with selected employer. Resume will be used during interview.

## **\*Attendance**

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.