



PLATTSMOUTH HIGH SCHOOL AFJROTC COURSE SYLLABUS AEROSPACE SCIENCE IV



Course Title: Aerospace Science IV
NDE Course Number: 230101
Course Instructor: CMSgt Bruce Price
Career Academy: STEAM

I. MISSION STATEMENTS

District Mission: Working in partnership to ensure Academic achievement, responsible Behavior and Civic engagement.

Plattsmouth High School Mission: To challenge all students to reach their full potential, to become lifelong learners, responsible citizens, and productive members of society. Plattsmouth students and staff will be **P**ositive, **R**espectful, **I**ntentional, **D**etermined, and **E**ngaged.

AFJROTC MISSION, GOALS, and OBJECTIVES

The **mission** of the Plattsmouth High School Air Force Junior Reserve Officer Training Corps (AFJROTC), NE - 951, is to develop citizens of character, dedicated to serving their nation and community.

The **goals** of the program are to instill values of citizenship, service to the United States, personal responsibility, and a sense of accomplishment in high school students.

The **objectives** of AFJROTC are to educate and train high school cadets in citizenship; promote community service; instill responsibility, character, and self-discipline; and provide instruction in air and space fundamentals.

II. COURSE DESCRIPTION

Management of the Cadet Corps is the Aerospace Science component of Aerospace Science IV. Management of the Cadet Corps is a leadership and management course where cadets assume leadership roles in the cadet squadron and manage the entire cadet corps operation. **Principles of Management** is the Leadership Education component of Aerospace Science IV. Principles of Management covers the fundamentals of management theory, planning, organizing, and leading. Drill and ceremonies is also part of the Leadership Education portion of the course. **Wellness** is the third component of Aerospace Science III and consists of physical conditioning exercises and sports competition to promote physical fitness.

Course Objectives

The Aerospace Science IV curriculum has three focal points: Leadership Education, Aerospace Science, and Wellness.

A. Leadership Education (40%)

(1). Leadership Education 400: Principles of Management provides exposure to the fundamentals of management. Ethical dilemmas, case studies and role play activities based on real life experiences allow students the opportunity to practice what they learn by getting involved in discussions and expressing their opinions.

- (a). Describe traditional management theories/concepts and understand the importance of highly effective management in a global economy.
- (b). Explain how planning and goal setting relate to effective decision making.
- (c). Describe the stress within an organization that may result from change and/or innovation and the potential for effective management strategies to minimize the impact of these stresses on productivity.
- (d). Explain how a comprehensive understanding of individual and group behavior is key to building and sustaining effective teams.

B. Aerospace Science (40%)

(1). Aerospace Science 400: Management of the Cadet Corps:

- (a). Apply the theories and techniques learned in previous leadership courses.
- (b). Develop leadership and management competency through participation.
- (c). Apply strengthened organizational skills through active incorporation.
- (d). Develop confidence in ability by exercising decision-making skills.
- (e). Apply the Core Values of the United States Air Force.

C. Wellness (20%)

- (1). Encourage cadets to lead active, healthy lifestyles beyond program requirements and into their adult lives.
- (2). Participate in individual and group physical fitness activities one class day per week.

III. TEXTBOOKS/KEY RESOURCES

Leadership Education: Principles of Management - Textbook
Plattsmouth High School AFJROTC Cadet Guide

IV. COURSE STANDARDS

N/A

V. CAREER READINESS STANDARDS (CRS)

1. Applies appropriate academic and technical skills
2. Communicates effectively and appropriately
3. Contributes to employer and community success
4. Makes sense of problems and perseveres in solving them
5. Uses critical thinking
6. Demonstrates innovation and creativity
7. Models ethical leadership and effective management
8. Works productively in teams and demonstrates cultural competency
9. Utilizes technology
10. Manages personal career development
11. Attends to personal and financial well-being

VI. ASSESSMENT AND SUPPORT

Grading Procedures

Grading procedures used in AFJROTC courses are designed to provide students, parents and the instructors a framework for accurately reporting student achievement. Students will be given reassessment opportunities when they are not proficient or fail an assessment. Students will be held accountable for completing their work. If a student chooses not to complete an assessment by a given deadline, near the end of the grading term, a zero will be earned. The term grade for AFJROTC courses is calculated using the results of academic achievement and compliance (summative assessments) and academic practice (formative assessments).

A. **Academic Practice (Formative Assessments)** – (Not more than 30% of the final grade). This grade is meant to communicate how a student is doing during the learning process (class work, homework, rough drafts, quizzes and wellness participation).

B. **Academic Achievement (Summative Assessments)** – (Not less than 70% of the final grade.) This grade reflects what a student knows and is able to do after adequate study (tests, exams, assignments, projects, and presentations) and the level of success a student achieves in meeting the compliance requirements of being a cadet in the AFJROTC program (PHS AFJROTC Cadet Guide). If a student is not proficient on an assessment they will be reassessed after doing self-assessment and re-teaching.

Uniform Days

Due to the new rotating schedule Mondays, Tuesdays or Wednesdays have been designated as the uniform day for all Plattsmouth High School AFJROTC senior cadets, depending on how the schedule falls for the week. The uniform will be worn during the entire school day and to and from school. **The course instructor must approve any exceptions to this requirement in advance.** Cadets will wear appropriate physical training attire to include the issued AF grey PT shirt on AFJROTC Wellness days (usually on Friday but subject to change).

Make-Up Course Work

Cadets are responsible for checking with the course instructor to determine what make-up work is required following a period of absence. They are allowed two days to complete make-up work for every day they are excused from school. Previously announced projects and tests will be turned in or taken upon the student's return to school.

VII. COURSE OUTLINE

Approximate Dates:	Subjects:
18 Aug – 18 Oct	LE Ch 1 & 2, drill and wellness AS Unit a and wellness
19 Oct – 18 Dec	LE Ch 3 & 4, drill and wellness AS Unit b and wellness
9 Jan – 7 Mar	LE Ch 5 & 6, drill and wellness AS Unit c and wellness
8 Mar – 15 May	LE Ch 7 & 8, drill and wellness AS Unit d and wellness

VIII. COURSE PROJECTS/PROJECT BASED LEARNING (not a complete list)

A. Freshmen Boot Camp Leaders

Train and administer fitness test to incoming freshmen

B. SERE

Prepare and participate in Survival, Evasion, Resistance and Escape training at Camp Ashland.

C. Military Ball Planning

Coordinate details of military ball

D. KC-135 Flight

Participate in a Nebraska ANG KC-135 flight (if possible)

E. Offutt RC-135 Simulator

Perform hands-on flying in the flight simulator at Offutt AFB

IX. CAREER CONNECTIONS

A. Academy: STEAM

B. Academy Mission: STEAM emphasizes academic rigor with visual learning in science, engineering, aeronautics, and math.

C. Academy Alignment:

Course Name:	How course content is aligned for students interested in the following career clusters
Aerospace Science IV (STEAM)	
Leadership Education 400: Fundamentals of Management (STEAM)	Relates directly to traditional management theories and practices, labor, unions, contracts, and negotiations.
Aerospace Science 400: Management of the Cadet Corps (STEAM)	Allows the senior cadets (occasionally assisted by some juniors as necessary) to manage cadet activities and events, and organize and execute community service activities.

X. BEHAVIOR EXPECTATIONS AND CONSEQUENCES

Daily Class Expectations

Cadets are expected to be on time and prepared for class every day. They should be in the AFJROTC classroom when the final bell rings and bring a pen or pencil, paper, their laptop computer, and the Cadet Guide.

Standards of Conduct and Behavior

Standards of conduct and behavior for AFJROTC cadets are described in the Plattsmouth High School Student Handbook, Plattsmouth High School AFJROTC Cadet Guide and the "NE-951 Cadet Contract/Agreement".