

AFJROTC DETACHMENT NE-771

COURSE SYLLABUS



Course: Aerospace Science II

BELLEVUE WEST HIGH SCHOOL

BELLEVUE, NEBRASKA

STUDENT ACADEMIC COURSE OUTLINE

INSTRUCTORS: SMSgt Guy Hale

SUBJECT AREA:

Aerospace Science – The Science of Flight
Leadership Education - Leadership Education II:
Communication, Awareness, and Leadership

I. GOALS:

A. Aerospace Science – The Science of Flight

This course provides an introduction to the atmosphere and weather elements; the effects of flight on the human body; basic principles of aerodynamics, and basic elements of navigation.

B. Leadership Education – Leadership Education II: Communication, Awareness, and Leadership

This course provides a guide to understanding the fundamentals of leadership. There are four building blocks of leadership considered in this course: Learning, Communication, and Personal Development; Building Personal Awareness; Understanding Groups and Teams; and Solving Conflicts and Problems.

C. Cadet Health and Wellness Program

This course is designed to motivate JROTC cadets to lead active, healthy lifestyles beyond basic program requirements and into their adult lives. It involves an exercise program developed around individual base line improvements with the focus of achieving a national standard as calculated with age and gender.

II. Course Objectives:

A. Aerospace Science – The Science of Flight

The students will be able to:

1. Analyze the elements of flight.
 - Ch. 1 Lesson 1 – Principles of Flight
 - Ch. 1 Lesson 2 – The Physics of Flight
 - Ch. 1 Lesson 3 – The Purpose and Function of Airplane Parts
 - Ch. 1 Lesson 4 – Aircraft Motion and Control
2. Evaluate how atmospheric conditions affect flight.
 - Ch. 2 Lesson 1 – The Atmosphere
3. Evaluate how flight affects the human body.
 - Ch. 3 Lesson 1 – Human Physiology and Air Flight
 - Ch. 3 Lesson 2 Protective Equipment and Aircrew Training
4. Analyze flight navigation and the purpose of aerial navigation aids.
 - Navigational Elements

B. Leadership Education – Leadership Education II: Communication, Awareness, and Leadership

The Students will:

1. Apply the key factors of effective communication.
 - Ch. 1 Lesson 1 – Learning to Communicate
 - Ch. 1 Lesson 2 – Learning to Listen
 - Ch. 2 Lesson 1 – The Basic Checklist
 - Ch. 2 Lesson 2 – Writing Effectively
 - Ch. 2 Lesson 3 – Speaking Effectively
2. Know the ways in which personal awareness affects individual actions.
 - Ch. 3 Lesson 1 – Interpreting Events and Experiences
 - Ch. 3 Lesson 2 – Building a Positive Attitude
 - Ch. 3 Lesson 3 – Overcoming Challenges
 - Ch. 4 Lesson 1 – Integrity and Character
 - Ch. 4 Lesson 2 – Personality and Style

3. Know the key elements of building and encouraging effective teams.
 - Ch. 5 Lesson 1 – Group and Team Dynamics
 - Ch. 5 Lesson 2 – Building Mutual Respect
 - Ch. 6 Lesson 1 – Identifying Levels of Conflict
 - Ch. 6 Lesson 2 – Steps for Problem Solving
4. Apply the key behaviors for becoming a credible and competent leader.
 - Ch. 7 Lesson 1 – Leadership Factors
 - Ch. 7 Lesson 3 – Leadership Principles
 - Ch. 8 Lesson 1 – Leadership Styles and Mission Demands

C. Cadet Health and Wellness

The Students will:

1. Create individualized training programs based on national standards by age and gender.
2. Identify areas of improvement.
3. Incorporate a physical training program to reach individual goals.

III. TECHNIQUES AND METHODS OF INSTRUCTION:

- A. Lecture/Discussion
- B. Guided discussion
- C. Text assignments
- D. Practical exercises
- E. Oral/written presentations
- F. Uniform inspections
- G. Audiovisual/Computer aided learning
- H. Special Considerations
 1. Student who require assistance with special learning needs are a special concern. These students will receive instructor support in order to achieve desired levels of performance.

2. There are a variety of English Language Learner (ELL) strategies that will be used to assist those students with special needs. These range from personal attention with assignments to the use of bi-lingual students to assist the student with daily work and evaluation instruments.

IV. STUDENT EXPECTATIONS AND CONDUCT:

1. In addition to the Bellevue West High School rules, each student is expected to follow the guidelines outlined in the NE-771 AFJROTC Cadet Handbook and the Cadet Student Agreement which must be signed by both the cadet and their parent/guardian.
2. Each cadet is expected to arrive to class on time.
3. Cadets are expected to come to class with all course materials, paper and writing implement.
4. No food, drink (except water), or gum is permitted in the classroom. Unless, approval is given by the instructor or designated substitute.

V. EVALUATIONS

- A. Formative, Summative and Final weighted by percentage:

Formative 30%, Summative 70% (60% Summatives and Final Exams 10%)

1. Formative Assessment Description:

Quizzes
Homework/Worksheets
Fitness Participation

2. Summative Assessment Description

Uniform Inspections Military Ball Attendance
Fitness Testing Parade Participation
Change of Command Attendance
Citizenship (Leadership, Class Participation, Community Service, etc.)
Final Exams

3. Other types of daily assignments: (non-graded activities)
Classroom Participation Customs & Courtesies

Drill

4. Academic performance will be determined through previous discussed evaluations of academic material.
5. Corps participation will be assessed on an individual basis; dependent upon an individual cadets schedule and effort to participate in corps activities. Leadership will be based on the cadets participation in corps activities and community service. Uniform evaluations will be based on weekly uniform inspections.

B. Uniform Inspections

1. Wear of the AFJROTC Cadet Uniform is **MANDATORY** once a week to all classes. Improper or disrespectful wear of the uniform or and/or not wearing the uniform to all classes on corps day will result in an inspection score of zero. Guidelines for the wear of the uniform can be found in the NE-771 Cadet Handbook.
2. Weekly uniform inspections will be conducted and with a possible score of 20 points for each inspection. The inspections will be conducted using the standards in AFI 36-2903 and AFJROTCI 36-2001. These standards are listed in the NE-771 Cadet Handbook. The cadet inspection checklist will be annotated with any discrepancies discovered during the inspection. An additional point will be given to the cadet who is selected as Cadet of the Week.

C. District Grading Scale:

- A 90-100
- B 80-89
- C 70-79
- D 60-69
- F Under 60

D. Homework/Make-up Policy

1. Relearning Plan - Students will write a short paragraph on each missed item to show they reviewed the material before being allowed a retake.
2. Time Frame - Uniforms must be worn the next two days to receive credit for uniform wear

3. Quiz retakes may be completed at anytime prior to the end of semester. Test retakes may be completed before the end of the semester, if granted.
4. Re-Assessment Format - The retake will be identical to the original assessment (no changes)
5. Assessment Retake Grading Plan - Students who complete a retake will receive full credit (no penalty)
6. Define Late Work Plan - Late work may be completed by the end of the unit, without penalty.
7. It is the cadet's responsibility to find out what work was missed due to a class absence of any type. All course work is available in Schoology.
8. Course work may be turned in at anytime without penalty.
9. Cadets are expected to be in uniform the first day back to class if they missed a required Corps Day (refer to the NE-771 Cadet Handbook for further guidance).
10. Tardy Policy - Students late to class (any time after the tardy bell rings) are considered tardy.

Tardy 1-3	Teacher communication with student
Tardy 4	Teacher communication with parent
Tardy 5	Student sent to the dean - 15-minute detention
Tardy 6-7	Teacher communicate with student
Tardy 8, 10, 12...	Student sent to the dean