

Department of Aerospace Studies -- AFJ 100

AFJROTC Unit 20051 Fall/Spring Semester

Instructors: Colonel Stansell/MSgt Cullum

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A JOURNEY INTO AVIATION HISTORY

Course Management Plan

INTRODUCTION

The mission of Air Force Junior ROTC is to "Develop citizens of character dedicated to serving their nation and community." During this course you will be presented with many opportunities to challenge yourself as you attempt to assume the responsibilities associated with becoming an exceptional student, citizen, and member of Air Force Junior ROTC; an elite, professional organization. As such, you will be held to the higher standards of conduct and integrity required of all members such an organization. These standards are spelled out in your Cadet Guide and your Basha High School Student Handbook. You alone are responsible for your level of personal and professional development; a level ultimately determined by the strength of your personal commitment.

COURSE DESCRIPTION

Aerospace Science: A Journey into Aviation History is an aviation history course focusing on the development of flight throughout the centuries. It starts with ancient civilizations and progresses through time to modern day. The emphasis is on civilian and military contributions to aviation; the development, modernization, and transformation of the Air Force; and, a brief astronomical and space exploration history. It is interspersed with concise overviews of the principles of flight to include basic aeronautics, aircraft motion and control, flight power, and rockets. Throughout the course there are readings, videos, hands-on activities, and in-text and student workbook exercises to guide in the reinforcement of the course material presented.

Leadership Education: The study and performance of Air Force customs and courtesies, leadership styles, personal development skills, study habits, time management/personal organization, personal appearance, self-image, health awareness, drill and ceremonies, military commands and a strong focus on attitude and discipline. Cadets will comprehend the importance of adhering to Air Force Core Values and participate in the same events as the AS 200, 300, and 400 level cadets while applying Air Force customs and courtesies and dress and grooming standards. (Integrated into Aerospace Science)

Drill and Ceremonies: As a part of Leadership Education (LE) course instruction, cadets will become proficient in formation marching, drill of the flight, individual facing movements, and military commands. There will be a strong focus on attitude and discipline. The drill and ceremonies portion of leadership education will take place in both a classroom setting and on the drill pad during LE 100 class time.

Wellness Program: It is AFJROTC policy that cadets are capable of participating in the school's standard physical education program as a condition for admission into the cadet corps. Both Title

10 USC and DOD Instruction 1205.13 reference the enrollment requirement of physically fit students.

The AFJROTC wellness program at Basha High School is designed to develop leaders of character who are physically and mentally tough by engaging cadets in activities that promote and enhance a healthy life style, physical fitness, movement behavior, and psychomotor performance. Wellness class (WP 100) will be held weekly. Uniform for the Wellness Program class is the issued AFJROTC PT uniform. All students are required to "dress out" for the Wellness Program class in the prescribed uniform. You will be evaluated at the beginning of the semester and again at the end of the semester in several fitness areas. This portion of the program is worth 20% of your overall grade.

TEXTS

Aerospace Science

A Journey into Aviation History (Textbook)

Leadership Education

Citizenship, Character, and Air Force Tradition (Textbook)

Drill and Ceremonies/Learn to Lead

COURSE OBJECTIVES

Aerospace Science

Know the historical facts and impacts of the early attempts to fly

Know the major historical contributors to the development of flight

Know the contributions of the U.S. Air Force to modern aviation history

Leadership Education

Know the Importance of AFJROTC history, mission, purpose, goals, and objectives.

Know military traditions and the importance of maintaining a high standard of dress and personal appearance.

Know the importance of attitude, discipline, and respect, and why values and ethics are so important.

Know the importance of individual self-control and that an effective stress management program improves the quality of life.

Know why courtesies are rendered to the United States flag and the National Anthem.

Know why it is important to be a good democratic citizen and to be familiar with the different forms of governments.

Wellness Program

Develop cadets to be leaders through a challenging physical education and sports program

Provide cadets with positive moral-ethical training and developmental opportunities

Develop in cadets the qualities of initiative, courage, confidence, teamwork, self-sacrifice, and a will to win

Develop cadet knowledge of exercise science

Develop optimal cadet physical fitness in a sequential, developmental, and progressive four-year program

Teach cadets lifetime fitness and activity skills and knowledge

COURSE REQUIREMENTS/POLICIES

Academic Performance is your NUMBER ONE priority in ALL of your courses!

Class Attendance: Class attendance and participation demonstrate your level of commitment, reflects your character, and your ability and willingness to accept responsibility. Therefore, unexcused class absences will be regarded as a failure to accept and meet individual responsibility.

Tardiness: Classes will begin and end on time. Cadets are expected to be in their seats and ready to participate when the bell rings. Cadets who arrive late without a pass will be counted as tardy. If a cadet is tardy four times in a semester, they will be referred to administration for further disciplinary action. Be responsible---don't be tardy.

Uniform Wear: You are required to wear your uniform on designated uniform wear days. Wear of the uniform is 25% of your overall grade. Reference your Cadet Guide for additional instructions.

Personal Appearance: Sunglasses, ear buds/headphones and hats are not allowed in the classroom. The school dress code will be adhered to and enforced, to the letter, without exception. Remember, your name is on the "mailbox;" you are fully expected to **BE THE EXAMPLE!** Your character and personal/ professional pride will be reflected through your conduct and appearance; **MAKE YOURSELF COUNT!** (Note: For additional information concerning the dress code, reference your Student Handbook)

Classroom Conduct: Strict adherence to customs and courtesies is essential to the success of your learning experience. Classroom conduct is basically the same as any other classes you may have, with one exception: you are expected to follow the directions of your class section leader. Profanity is strictly prohibited. Food, drinks and gum are not permitted in class. Water is allowed.

Academic Freedom: Academic freedom is recognized in class. To enhance intellectual and perhaps controversial discussion, there will not be any type of reprisal for students stating their opinions. Cadets will ensure that stated personal opinions are not offensive to other students. Mutual respect will be maintained at all times. Open, frank discussion is encouraged; however, mature common sense is expected.

Academic Integrity: Integrity is a Core Value. As a cadet in an academic environment you must demonstrate unquestionable integrity, "do the right thing even when no-one is looking." Plagiarism and cheating are but two examples of behavior that reflect a lack of integrity and very poor judgment. This type of conduct is ZERO tolerance and will be cause for an immediate investigation that may result in a failing grade for this course. Strict adherence to the Cadet Honor Code is required and expected. Reference your Cadet Guide for additional information.

Examinations: There will be four examinations: an examination prior to each progress report (2 each), and a final. Examinations may consist of multiple-choice, fill in the blank, and short

answer/essay type questions taken directly from the "Samples of Behavior" established for each lesson, your textbooks, classroom discussions, lectures, and current events.

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Extra Credit Work: Extra credit points may be awarded for work such as an article for the school or local newspaper, book reports, and cadet corps event participation. A maximum of two extra credit book reports will be allowed this semester. Book selection is at your discretion but must first be approved by the instructor.

Grading Policy: Point values for course requirements are:

Assignments/Exams	100 points	25% of Qtr grade
Wellness Program	100 points	25% of Qtr grade
Uniform/Drill/Participation	100 points	25% of Qtr grade
Military Bearing	100 points	25% of Qtr grade
Semester Exam	100 points	20% of Semester grade

TOTAL: 500 points

Grading Scale

90% or above = A
80% or above = B
70% or above = C
60% or above = D
Less than 60% = F

Diversity Statement:

All individuals have a right to an educational environment free from bias, prejudice and bigotry. As members of the Basha High School educational community, students are expected to refrain from participating in acts of harassment that are designed to demean another student's race, gender, ethnicity, religious preference, disability or sexual orientation.

Infinite Campus: Parents/Guardians can use Infinite Campus, available through Basha's website, to track their student's grades and progress.

Clifford B. Stansell

CLIFFORD B. STANSELL, Col, USAF, Ret
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THE SCIENCE OF FLIGHT

Course Management Plan

INTRODUCTION

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COURSE DESCRIPTION

Aerospace Science: "The Science of Flight" is a science course designed to acquaint students with the aerospace environment, the human requirements of flight, principles of aircraft flight, and principles of navigation. The course begins with a discussion of the atmosphere and weather. After developing an understanding of the environment, the impact of the environment on flight is introduced and examined. Discussions include the forces of lift, drag, thrust, and weight. Students also learn basic navigation, to include map reading, course plotting, and the effects of wind on navigation. The portion on the human requirements of flight is a survey course on human physiology, to include the human circulatory system, the effects of acceleration and deceleration, and protective equipment.

Leadership Education: Emphasis is on communication skills tied into cadet corps activities. Written reports and speeches are designed to complement academic materials. Cadet corps activities include holding positions of responsibility within the corps organization that require the planning and execution of corps projects. Cadets study the concepts of effective communication; learn to understand themselves in relation to others and the society they live in; learn to understand individual and group behavior; comprehend how teams work to succeed in improving quality and productivity; and, comprehend that leadership is a very complex art that is essential to the success of the mission. Cadets will comprehend the importance of adhering to Air Force Core Values and participate in the same events as the AS 100, 300 and 400 level cadets while applying Air Force customs and courtesies and dress and grooming standards. Cadet corps projects are planned, organized, and performed.

Drill and Ceremonies: As a part of Leadership Education (LE) course instruction, cadets will become proficient in formation marching, drill of the flight, individual facing movements, and

military commands. There will be a strong focus on attitude and discipline. The drill and ceremonies portion of leadership education will take place in both a classroom setting and on the drill pad during LE 210 class time.

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TEXTS

Aerospace Science

The Science of Flight

Leadership Education

Communication, Awareness, and Leadership

COURSE OBJECTIVES

Aerospace Science

Understand the atmosphere environment

Know the basic human requirements of flight

Understand why Bernoulli's principles and Newton's Laws of Motion are applied to the theory of flight and the operating principles of reciprocating engines, jet engines, and rocket engines

Know the basic elements of navigation

Leadership Education

Apply the key factors of effective communications.

Know the ways in which personal awareness affects individual actions.

Know the key elements of building and encouraging effective teams.

Apply the key behaviors for becoming a credible and competent leader.

Wellness Program

Develop cadets to be leaders through a challenging physical education and sports program
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Semester Exam	100 points	20% of grade

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THE EXPLORATION OF SPACE

Course Management Plan

INTRODUCTION

The mission of Air Force Junior ROTC is to "Develop citizens of character dedicated to serving their nation and community." During this course you will be presented with many opportunities to challenge yourself as you attempt to assume the responsibilities associated with becoming an exceptional student, citizen, and member of Air Force Junior ROTC; an elite, professional organization. As such, you will be held to the higher standards of conduct and integrity required of all members such an organization. These standards are spelled out in your Cadet Guide and your Basha High School Student Handbook. You alone are responsible for your level of personal and professional development; a level ultimately determined by the strength of your personal commitment.

COURSE DESCRIPTION

Aerospace Science: *The Exploration of Space* science course examines the Earth, the Moon and the planets, the latest advances in space technology, and continuing challenges of space and manned spaceflight. The issues critical to travel in the upper atmosphere, such as orbits and trajectories, unmanned satellites, space probes, guidance and control systems are explained. Major milestones of manned space flight in the endeavor to land on the moon and to safely orbit humans and crafts in space for temporary and prolonged periods are examined, as well as the development of space stations, the Space Shuttle, and international laws for the use of, and travel in, space.

Leadership Education: *Life Skills* is a course that presents instruction on four building blocks of leadership from both the military and civilian perspective: Management Techniques, Management Decisions, Management Functions, and Managing Self and Others. Cadets are expected to comprehend the importance of management, the techniques and skills involved in making management decisions, the concepts and skills of problem solving, and negotiating as they accept the challenge of managing the entire cadet corps. Cadets will plan, organize, coordinate, direct, control, and make decisions concerning how the cadet corps will be run as they practice their written and oral communication abilities, personal interaction, managerial, and organizational skills. Cadets will comprehend the importance of adhering to Air Force Core Values and participate in the same events as the AS 100, 200, and 300 level cadets while applying Air Force customs and courtesies and dress and grooming standards. Cadet corps projects are planned, organized, and performed. (Integrated into Aerospace Science).

Drill and Ceremonies: As a part of the Leadership Education (LE) course instruction, cadets will become proficient in formation marching, drill of the flight, individual facing movements,

and military commands. There will be a strong focus on attitude and discipline. The drill and ceremonies portion of leadership education will take place in both a classroom setting and on the drill pad during LE 300 class time.

Wellness Program: It is AFJROTC policy that cadets are capable of participating in the school's standard physical education program as a condition for admission into the cadet corps. Both Title 10 USC and DODI 1205.13 reference the enrollment requirement of physically fit students.

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TEXTS

Aerospace Science

Space Exploration

Leadership Education

Life Skills

COURSE OBJECTIVES

Aerospace Science

Comprehend the "big picture" of space exploration to include history of space flight, organizations doing work in space, and the overall space environment

Know and use key concepts for getting from the surface of the Earth into Earth orbit, to other planets and back again

Know how spacecraft and launch vehicles, and their associated parts, are designed and built to support the needs of the United States

Apply techniques used to manage the development and operation of space systems within government and industry

Know what effects the Sun and its planetary system have on living matter

Know the national and international space programs and the progress each country has made

Know how space technology has developed over the years

Know what impact space exploration has had on everyday living

Leadership Education

Comprehend the concepts and skills of problem solving, decision making, and negotiating

Comprehend the importance of managing yourself and others

Wellness Program

Develop cadets to be leaders through a challenging physical education and sports program
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PRINCIPLES OF MANAGEMENT

Course Management Plan

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COURSE DESCRIPTION

Aerospace Science: *Principles of Management* is a course that presents instruction on four building blocks of leadership, from both the military and civilian perspective: Management Techniques, Management Decisions, Management Functions, and Managing Self and Others. Cadets are expected to comprehend the importance of management, the techniques and skills involved in making management decisions, the concepts and skills of problem solving, and negotiating as they accept the challenge of managing the entire cadet corps. This hands-on experience affords the opportunity to put the theories of classroom instruction into real-time practice. Cadets will plan, organize, coordinate, direct, control, and make decisions concerning how the cadet corps will be run as they practice their written and oral communication abilities, personal interaction, managerial, and organizational skills. Cadets will comprehend the importance of adhering to Air Force Core Values and participate in the same events as the AS 100, 200, and 400 level cadets while applying Air Force customs and courtesies and dress and grooming standards. Cadet corps projects are planned, organized, and performed.

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TEXT

Leadership Education

Principles of Management

Leadership Education

Comprehend the importance of management

Comprehend the techniques and skills involved in making management decisions

Comprehend the concepts and skills of problem solving, decision making, and negotiating

Comprehend the importance of managing yourself and others

Wellness Program

Develop cadets to be leaders through a challenging physical education and sports program

Provide cadets with positive moral-ethical training and developmental opportunities

Develop in cadets the qualities of initiative, courage, confidence, teamwork, self-sacrifice, and a will to win

Develop cadet knowledge of exercise science

Develop optimal cadet physical fitness in a sequential, developmental, and progressive four-year program

Teach cadets lifetime fitness and activity skills and knowledge

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Class Attendance: Class attendance and participation demonstrate your level of commitment, reflects your character, and your ability and willingness to accept responsibility. Therefore, unexcused class absences will be regarded as a failure to accept and meet individual responsibility.

Tardiness: Classes will begin and end on time. Cadets are expected to be in their seats and ready to participate when the bell rings. Cadets who arrive late without a pass will be counted as tardy. If a cadet is tardy four times in a semester, they will be referred to administration for further disciplinary action. Be responsible---don't be tardy.

Uniform Wear: You are required to wear your uniform on designated uniform wear days. Wear of the uniform is 25% of your overall grade. Reference your Cadet Guide for additional instructions.

Personal Appearance: Sunglasses, ear buds/headphones and hats are not allowed in the classroom. The school dress code will be adhered to and enforced, to the letter, without exception. Remember, your name is on the "mailbox;" you are fully expected to **BE THE EXAMPLE!** Your character and personal/ professional pride will be reflected through your conduct and appearance; **MAKE YOURSELF COUNT!** (Note: For additional information concerning the dress code, reference your Student Handbook)

Classroom Conduct: Strict adherence to customs and courtesies is essential to the success of your learning experience. Classroom conduct is basically the same as any other classes you may have, with one exception: you are expected to follow the directions of your class section leader. Profanity is strictly prohibited. Food, drink and gum are not permitted. Water is allowed.

Academic Freedom: Academic freedom is recognized in class. To enhance intellectual and perhaps controversial discussion, there will not be any type of reprisal for students stating their opinions. Cadets will ensure that stated personal opinions are not offensive to other students. Mutual respect will be maintained at all times. Open, frank discussion is encouraged; however, mature common sense is expected.

Academic Integrity: Integrity is a core value. As a cadet in an academic environment you must demonstrate unquestionable integrity, "do the right thing even when no-one is looking." Plagiarism and cheating are but two examples of behavior that reflect a lack of integrity and very poor judgment. This type of conduct is ZERO tolerance and will be cause for an immediate investigation that may result in a failing grade for this course. Strict adherence to the Cadet Honor Code is required and expected. Reference your Cadet Guide for additional information.

Examinations: Cadets will be graded on successful program/event management as well as management/leadership of the corps.

Class Participation: You are expected to come to class prepared to intelligently discuss assigned material. Cadets are required and expected to have all appropriate textbooks for each specific class. In several cases you will find that current events center directly on your assigned readings. It would be very beneficial to you, both personally and professionally, to watch CNN/CNN Headline news and read *USA Today*, *The Wall Street Journal*, *The New York Times*, *The Christian Science Monitor*, *The Washington Post*, *The Arizona Republic*, *The East Valley News*, etc. Most, if not all, are available free of charge on the Internet and may also be available at the Library for you to read. As a student, citizen, and cadet, you have a significant vested interest in the events that shape the world you are attempting to enter.

Extra Credit Work: Extra credit points may be awarded for work such as an article for the school or local newspaper, book reports, and cadet corps event participation. A maximum of two extra credit book reports will be allowed this semester. Book selection is at your discretion but must first be approved by the instructor.

Grading Policy: Point values for course requirements are:

Assignments/Exams	100 points	25% of Qtr grade
Wellness Program	100 points	25% of Qtr grade
Uniform/Drill/Participation	100 points	25% of Qtr grade
Military Bearing	100 points	25% of Qtr grade
Semester Exam	100 points	20% of total grade

TOTAL: 500 points

Grading Scale

90% or above = A
80% or above = B
70% or above = C
60% or above = D
Less than 60% = F

DIVERSITY STATEMENT

All individuals have a right to an educational environment free from bias prejudice and bigotry. As members of the Basha/Perry High School educational community, students are expected to refrain from participating in acts of harassment that are designed to demean another student's race, gender, ethnicity, religious preference, disability or sexual orientation.

Infinite Campus: Parents/Guardians can use Infinite Campus, available through Basha's website, to track their student's grades and progress.

Clifford B. Stansell

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