AEROSPACE SCIENCE 100: A JOURNEY INTO AVIATION HISTORY

Instructors: SASI, Lt Col Michael Hinsch, USAF (ret)
ASI, CMSgt Joe Johnson, USAF (ret)
ASI, MSgt Sharita Johnson, USAF (ret)

Course Description: This is the recommended first AS component for all new cadets. It is an aviation history course focusing on the development of flight throughout the centuries. It starts with ancient civilizations, then 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 materials.

Course Objectives:

1. Know the historical facts and impacts of early attempts to fly.
2. Know the major historical contributors to the development of flight.
3. Know the contributions for the U.S. Air Force to modern aviation history.
4. Know the key events of space exploration history.

Course Materials:

   a) Unit 1: Imagining Flight, Unit 2: Exploring Flight, Unit 3: Developing Flight, Unit 4: Extending Flight
   b) Unit 1-2, Chpt. 1-3; Unit 3-4, Chpt. 4-8
2. Selected video tapes/DVD
3. Instructor distributed associated Student Workbook pages
4. TX-20064 Cadet Handbook

Assignments:

1. Cadets will read assigned chapters, accomplish selected chapters in Student Workbook, which corresponds to textbook chapters, and participate in demonstration/participation quiz games.
2. Cadets will prepare speeches and written reports corresponding to textbook chapters and related subjects.
3. Cadets will prepare for unannounced quizzes and announced chapter tests.
4. Cadets will adhere to uniform wear requirements by wearing the Air Force issued uniform on Wednesday.

Grading: The Aerospace Science (AS) portion will be graded by the SASI and the Leadership Education (LE) portion will be graded by the ASI. Drill will be evaluated as part of LE by the ASI and may be evaluated by the SASI. Cadet Health & Wellness will be a stand alone grade but added to the overall grade. Cadets are required to participate in classroom activities for a portion of the grade. In addition, all cadets will be required to complete a number of community service hours during the semester for a portion of the overall grade. Uniform wear is a large part of the AFJROTC program. ALL cadets are required to wear the appropriate uniform each Wednesday, from the start of the school day until released. Cadets are allowed only two make up days during the semester if they forget to wear the uniform on Wednesday. Failure to wear the uniform all day will result in a “0” (zero) grade for that uniform wear day.

Formative: (50%)
1. Assignments, Quizzes, Community Service

Summative: (50%)
2. Health & Wellness
3. Uniform Wear
LEADERSHIP EDUCATION 100: TRADITIONS, WELLNESS, AND FOUNDATIONS OF CITIZENSHIP

Instructors: SASI, Lt Col Michael Hinsch, USAF (ret)
ASI, CMSgt Joe Johnson, USAF (ret)
ASI, MSgt Sharita Johnson, USAF (ret)

Course Description: Leadership education is an integral part of each year’s instruction. The first year is dedicated to leadership studies related directly to the academic subject matter, with study habits and time management. Additionally, wear of the uniform, Air Force customs and courtesies, and basic drill skills are introduced.

The Course Outcomes are:

After successfully completing Leadership Education 100: Traditions, Wellness, and Foundations of Citizenship, the student will be able to:

1. Analyze the heritage, organization, and tradition of service programs.
2. Analyze the benefits of positive personal behavior.
3. Evaluate healthy living through physical activity and good nutrition.
4. Apply safe, drug-free decisions.
5. Analyze the importance of citizenship in the United States.

Course Materials:

2. Instructor distributed Student Workbook pages
3. Excerpts from AFMAN 36-2203 – Personnel Drill and Ceremonies
4. Selected videotapes/DVD
5. Guest Speakers
6. TX-20064 Cadet Handbook

Assignments:

1. Cadets will read assigned chapters, accomplish selected chapter in the Student Workbook, which correspond to textbook chapters, and participate in oral quiz games.
2. Cadets will prepare speeches and written reports corresponding to textbook chapters and related subjects.
3. Cadets will prepare for Drill Evaluation.
4. Cadets will prepare for unannounced quizzes and announced chapter tests.
5. Cadets will adhere to uniform wear requirements by wearing the Air Force issued uniform on Wednesday.

Grading: The Aerospace Science (AS) portion will be graded by the SASI and the Leadership Education (LE) portion will be graded by the ASI. Drill will be evaluated as part of LE by the ASI and may be evaluated by the SASI. Cadet Health & Wellness will be a standalone grade but added to the overall grade. Cadets are required to participate in classroom activities for a portion of the grade. In addition, all cadets will be required to complete a number of community service hours during the semester for a portion of the overall grade. Uniform wear is a large part of the AFJROTC program. All cadets are required to wear the appropriate uniform each Wednesday, from the start of the school day until released. Cadets are allowed only two make up days during the semester if they forget to wear the uniform on Wednesday. Failure to wear the uniform all day will result in a “0” (zero) grade for that uniform wear day. Multiple failures to wear the uniform will lead to disenrollment from the program.

**Formative:** (50%)
1. Assignments, Quizzes, Community Service

**Summative:** (50%)
2. Health & Wellness
3. Uniform Wear
CADET HEALTH & WELLNESS PROGRAM

Instructors: SASI, Lt Col Michael Hinsch, USAF (ret)  
ASI, CMSgt Joe Johnson, USAF (ret)  
ASI, MSgt Sharita Johnson, USAF (ret)

Course Description: Wellness is an official part of the Air Force Junior ROTC program. The Wellness/Physical Fitness portion will incorporate the Cadet Health and Wellness Program (CHWP). The CHWP is an exercise program focused upon individual base line improvements with the goal of achieving a Presidential Physical Fitness standard calculated with age and gender. The goal of the CHWP is to motivate JROTC cadets to lead active, healthy lifestyles beyond program requirements and into their adult lives. Cadets will be given the opportunity to put into practice the wellness concepts that are taught in Leadership Education 1. Students will wear the Air Force JROTC uniform weekly (Wednesday) and the issued PT uniform on Fridays.

Course Objectives: To motivate JROTC cadets to lead active, healthy lifestyles beyond program requirements and into their adult lives.

Course Materials:

1. PT Gear consists of the AFJROTC issued shirt (USAF Logo, AFJROTC, or Skittle), AFJROTC issued athletic shorts and cadet supplied athletic shoes.
2. TX-20064 Cadet Handbook

Assignments:

1. Fridays are designated Health & Wellness days.
2. Cadets will perform specific exercises or play team sports as designated by the student commander / instructor.

Grading: Cadets are expected to have in their possession on each H&W day (generally Friday) the issued PT uniform to include athletic shoes. Grades will be issued for wearing the PT gear and participating in weekly PT. If a cadet fails to bring all of the PT items and dress and does not participate the grade for the H&W will be 0% for that day. If a cadet fails to bring the PT gear and does participate the grade will be 50% for that day. If a cadet brings the PT gear and dresses but does not participate, the grade will be 50% for that day. A cadet must bring the PT gear, dress, and participate for a grade of 100%. Only medical excuses will be accepted for non-participation then the H&W grade will be excused for the week.

Formative: (50%)
1. Assignments, Quizzes, Community Service

Summative: (50%)
2. Health & Wellness
3. Uniform Wear
COMMUNITY SERVICE REQUIREMENTS

Instructors: SASI, Lt Col Michael Hinsch, USAF (ret)  
ASI, CMSgt Joe Johnson, USAF (ret)  
ASI, MSgt Sharita Johnson, USAF (ret)

Course Description: Community activity and helping others is paramount in an organization such as JROTC. We strive to build better citizens for the nation and community. One of the ways to do this is to get cadets involved in what’s going on right in their own backyard. By giving cadets an opportunity to help out in their community we hope to motivate them into a lifetime of “Service Before Self”.

Course Objectives: To motivate JROTC cadets to become more involved in the activities and well being of their school, community, and state by promoting involvement in activities outside the classroom.

Course Materials:
1. Generally the AFJROTC uniform, as designated by the SASI, or the AFJROTC polo shirt.

Assignments:
1. Various

Grading: The Aerospace Science (AS History) portion of the course will be graded by the SASI. The Leadership Education (LE) portion will be graded by the ASI. Drill will be evaluated as part of LE by the ASI and may be evaluated by the SASI. Cadet Health & Wellness will be a stand alone grade but added to the overall grade. Cadets are required to participate in classroom activities for a portion of the grade. In addition, all cadets will be required to complete a number of community service hours during the semester for a portion of the overall grade.

Formative: (50%)
1. Assignments, Quizzes, Community Service

Summative: (50%)
2. Health & Wellness
3. Uniform Wear

Community Service Grading: Cadets are required to complete community service hours during the SY. Grades will not be posted until the 6 week point, leaving 3 weeks to complete the required hours. The SASI reserves the right to excuse any cadet, with a legitimate excuse, from participation in community service activities. Students are required to obtain a minimum of 5 hours, assigned by the SASI/ASI during each 9 week grading period. In lieu of the required AFJROTC hours, students may obtain a minimum of 20 service hours outside of AFJROTC, as long as they are verified by a legitimate entity managing the community service effort the student works on. Hours are not cumulative. They must be obtained during each 9 week reporting period. The easiest way to obtain hours is to participate in AFJROTC activities. For grading purposes, JROTC function hours will be used first then any outside JROTC hours will be added with the appropriate grade. (Ex. 9 hours outside JROTC = 2 hrs + 2 hrs in JROTC = 4 hrs total = 80%)

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<thead>
<tr>
<th>JROTC Functions</th>
<th>Outside JROTC</th>
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<tbody>
<tr>
<td>1. 5 or more Hours</td>
<td>100% 20 or more Hours</td>
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<tr>
<td>2. 4 Hours</td>
<td>80% 16 Hours</td>
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<tr>
<td>3. 3 Hours</td>
<td>60% 12 Hours</td>
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<tr>
<td>4. 2 Hours</td>
<td>40% 8 Hours</td>
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<tr>
<td>5. 1 Hour</td>
<td>20% 4 Hours</td>
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<tr>
<td>6. 0 Hours</td>
<td>0% 0 Hours</td>
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