**COURSE NAME:** AFJROTC III  
**CREDITS:** 2 (Science)  
**INSTRUCTORS:** Colonel Robert Huber, SMSgt Archuleta, MSgt Reyes

**REQUIRED TEXTS:**  
Aerospace Science: Exploring Space The High Frontier  
Leadership Education III: Life Skills and Career Opportunities

**COURSE DESCRIPTION:** The third year of AFJROTC is “Exploring Space, The High Frontier” and “Life Skills and Career Opportunities.” In this course, students will examine our Earth, the Moon and the planets, the latest advances in space technology and the continuing challenges of manned flight. Students will also learn about life skills, personal finances, aiming towards college and pursuing a career.

**COURSE OBJECTIVES:** Upon completion of the course students will:

1. Know the history of astronomy, and the specific characteristics of the Earth, Moon, solar system and the planets.
2. Comprehend the big picture of space exploration, including the history of spaceflight, organizations doing work in space and the overall space environment.
3. Comprehend the importance of entering space, characteristics of manned and unmanned spaceflight, and how humans are affected during spaceflight.
4. Comprehend the key concepts of getting from the surface of the Earth into Earth orbit and to other planets and back again.
5. Comprehend how spacecraft, rockets, and launch vehicles are designed and built.
6. Comprehend the latest advances in space technology.
7. Analyze the elements of successful financial management skills.
8. Create a plan to safeguard personal resources.
9. Analyze the different ways of pursuing a career path.
10. Analyze the requirements for applying to a college or university.
11. Analyze positive and negative impact of college life in meeting career goals.
12. Evaluate the essential process for successfully pursuing desired career or job.
13. Evaluate the benefits for working for the Federal Government.
14. Create a plan for successful career development.

**ASSESSMENTS/GRADING PROCEDURES** (per semester):

**Academic Performance 70%**
- 8 Quizzes (5% each) = 40%
- Oral Presentation = 5%
- Cumulative Final Exam = 25%

**Leadership Performance 30%**
- Participation and Conduct: quarterly participation and conduct grade = 10%
- Uniform & Appearance: weekly uniform wear and personal grooming inspections = 10%
- Community Service: quarterly participation in service projects (8hrs/quarter) = 10%

**OTHER REQUIREMENTS:**  
Classroom Presentations will be required. The oral presentation will 4-6 minutes in length.

**COURSE OUTLINE:**

<table>
<thead>
<tr>
<th>Aerospace Science: Exploring Space The High Frontier</th>
<th>Leadership Education: Life Skills and Career Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit 1: Space Environment</strong></td>
<td></td>
</tr>
<tr>
<td>Chap 1 The History of Astronomy</td>
<td>Chap 1 Charting your Financial Course</td>
</tr>
<tr>
<td>Chap 2 The Earth and the Moon</td>
<td>Chap 2 Managing Your Resources</td>
</tr>
<tr>
<td>Chap 3 The Sun and the Solar System</td>
<td>Chap 3 Career Opportunities</td>
</tr>
<tr>
<td>Chap 4 Deep Space</td>
<td>Chap 4 Aiming Toward a College Degree</td>
</tr>
<tr>
<td><strong>Unit 2: Exploring Space</strong></td>
<td>Chap 5 Charting Your Course</td>
</tr>
<tr>
<td>Chap 5 Exploring, Living and Working in Space</td>
<td>Chap 6 Applying for Jobs</td>
</tr>
<tr>
<td><strong>Unit 3: Manned and Unmanned Spaceflight</strong></td>
<td>Chap 7 Working for the Federal Government</td>
</tr>
<tr>
<td>Chap 6 Space Programs</td>
<td>Chap 8 Developing Your Career Skills</td>
</tr>
<tr>
<td>Chap 7 The Space Shuttle</td>
<td></td>
</tr>
<tr>
<td>Chap 8 Space Station and Beyond</td>
<td></td>
</tr>
<tr>
<td>Chap 9 The Unmanned Missions of Space Probes</td>
<td></td>
</tr>
<tr>
<td><strong>Unit 4: Space Technology</strong></td>
<td></td>
</tr>
<tr>
<td>Chap 10 Orbits and Trajectories</td>
<td></td>
</tr>
<tr>
<td>Chap 11 Rockets and Launch Vehicles</td>
<td></td>
</tr>
<tr>
<td>Chap 12 Robotics in Space</td>
<td></td>
</tr>
<tr>
<td>Chap 13 Commercial Use of Space</td>
<td></td>
</tr>
</tbody>
</table>
STANDARDS OF CONDUCT

- Cadets who fail to maintain the standards of good conduct and behavior may be relieved from leadership positions, demoted to a lower grade, denied participation in certain AFJROTC activities and under the worst circumstances removed from the AFJROTC program. An incident does not have to be repeated in order to be considered severe. All cadets are briefed at the beginning of the year on classroom and school policies as described in the CO-20021 Cadet Guide and the School’s Student Handbook.

- AFJROTC Disciplinary Action Process
  - 1st violation = verbal warning
  - 2nd violation = letter of counseling (requiring parent signature)
  - 3rd violation = letter of reprimand (referral to administration, i.e. detention) (see Notes)
    - Note 1. If you drive to school, and you are routinely late, you may lose your parking pass
    - Note 2. If Phones/devices are confiscated parents must retrieve them from the Dean’s Office

PERSONAL APPEARANCE

- The school dress code will be enforced. Cadets may be asked to change or call parents for appropriate clothing.
- Cadets participating in official AFJROTC activities (in or out of uniform) are not allowed to attach or display objects or ornamentation to or through the ear (other than females wearing an earring in the ear lobe), nose, tongue, or other exposed body part (including anything that might be visible through the uniform).
- Male cadets may not wear earrings in uniform or during official AFJROTC activities (whether in uniform or not)
- Tattoos or brands are not allowed if they are obscene, or advocate sexual, racial, ethnic, or religious discrimination

UNIFORM POLICIES

- Each cadet will be issued a clean serviceable uniform. The uniform is the property of the United States Air Force and is provided to you on a loan basis. You are responsible for keeping it properly cleaned and in good repair. At the school year’s end, or when directed by the AFJROTC instructor, you must return all issued items within 7 days or make payment for items missing, damaged, or destroyed. The value of the uniform is approximately $400.00.
- Each cadets is required to provide a uniform fee:
  - $25.00 for returning cadets.
  - Please send payment no later than 3 September. If you pay by check, make check to AAHS/AFJROTC.
- It is the cadet’s responsibility to maintain all uniform items in a clean and orderly condition during the school year and when the uniform is turned in. Cadets will maintain (clean and repair) their uniform items at their own expense.
- Follow these instructions when cleaning uniforms:
  - Slacks, trousers, skirts, jackets, coats, caps, ties, tabs, cloth rank (all dark blue items) must be DRY-CLEANED; the material may be damaged if washed/dried at home.
  - Blouses, shirts (light blue items) and socks may be machine-washed. Use a laundry stain remover to remove collar and underarm stains.

When the uniform is turned in, the dry-cleaned items must be in garment covers provided by the cleaners and accompanied by a dry cleaning receipt/tag
09 Jan  Change of Command/Reception/Planning/Inspection
11 Jan  Researching Careers (LE) Chapter 3 Lesson 1 (ASVAB Interpretation/Library)
15 Jan  Self-Discovery (LE) Chapter 3 Lesson 2
17 Jan  Career Paths (LE) Chapter 3 Lessons 3/Inspection (Staff Meeting)
22 Jan  QUIZ #1 (LE CH 3 LS 1-3)/Private Industry Enters Space (AS) Chapter 13 Lesson 1
24 Jan  Space in our Daily Lives (AS) Chapter 13 Lesson 2/Inspection
28 Jan  QUIZ #2 (AS CH 13 LS 1-2)/ Creating a Budget (LE) Chapter 1 Lesson 1/Assign Oral Presentations
30 Jan  Savings and Bank Accounts (LE) Chapter 1 Lesson 2/Inspection (Staff Meeting)
01 Feb  Real Life Issues in Buying and Selling (LE) Chapter 1 Lesson 3
05 Feb  QUIZ #3 (LE CH 1 LS 1-3)/Oral Presentation review/Drill
07 Feb  Oral Presentations (ALL due today)/Inspection
11 Feb  US Manned Space Program (AS) Chapter 6 Lesson 1
13 Feb  The Soviet/Russian Manned Space Program (AS) Chapter 6 Lesson 2/Inspection (CS Hrs Due 14th)
19 Feb  Space Programs Around the World (AS) Chapter 6 Lesson 3 (Promotion Board)
21 Feb  QUIZ #4 (AS CH 6 LS 1-3)/ Avoiding the Credit Trap (LE) Chapter 2 Lesson 1/Inspection
25 Feb  Oral Presentations (Staff Meeting)
27 Feb  Insurance for Protecting Your Resources (LE) Chapter 2 Lesson 2/Inspection
01 Mar  QUIZ #5 (LE CH 2 LS 1-2)/Oral Presentations
05 Mar  Missions to the Sun, Moon, Venus, and Mars (AS) Chapter 9 Lesson 1
07 Mar  The HST & Missions to Comets and Outer Planets (AS) Chapter 9 Lesson 2/Inspection (Military Ball Prep)
11 Mar  QUIZ #6 (AS CH 9 LS 1-2) Oral Presentations
13 Mar  Financing for College (LE) Chapter 4 Lesson 1/Inspection
15 Mar  Selecting a College (LE) Chapter 4 Lesson 2
19 Mar  Navigating Testing (LE) Chapter 4 Lesson 3
21 Mar  Leaving to Ohio/PT w/ Wing Staff
02 Apr  Essays, Interviews and Campus Visits (LE) Chapter 4 Lesson 4
04 Apr  QUIZ #7 (LE CH 4 LS 1-4) Orbits and How They Work (AS) Chapter 10 Lesson 1/Inspection (Staff Meeting)
08 Apr  Maneuvering and Traveling in Space (AS) Chapter 10 Lesson 2
10 Apr  TBD (PSAT/SAT TESTING)
12 Apr  CMAS TESTING JUNIORS (CS Hrs due the 15th)
16 Apr  PFT (Parade Practice) (Promotion Board)
18 Apr  PFT (Awards Prep with Wing Staff, Awards 22 Apr 19)
23 Apr  Review AS Chapter 10 Lessons 1-2/In-class Assignments
25 Apr  QUIZ #8 (AS CH 10 LS 1-2)/Inspection (Staff Meeting, Parade Prep)
26 Apr  Parade Prep/EOY Parade
29 Apr  Curriculum-In-Action
01 May  Self-Reflection/Leadership Assessment
03 May  Life Skills Self-Assessment
07 May  Continuity Training w/Wing Staff
09 May  Exploration of Space Self-Assessment
13 May  Finals Review (13-17 uniform turn-in for those not returning)
15 May  No School Graduation
17 May  Finals Review
21 May  Final Assessment
23/30 May  TBD