Acknowledgments

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The framework was edited and produced by the CTE Resource Center:
Course Description

Suggested Grade Level: 10 or 11 or 12

Students explore the Air Force JROTC program, focusing on aerospace science, the fundamentals of management, and personal wellness. Aerospace science acquaints students with the elements of aerospace and the aerospace environment and introduces them to the history and development of air power. Leadership education develops leadership skills and acquaints students with the practical applications of life skills and includes a drill and ceremonies component. Personal wellness studies encourage cadets to lead healthy, active lifestyles into adulthood.

Instructors are asked to continue relying heavily on their branch-specific curriculum guides to complement this core set of competencies.

Per the 2017 Air Force Junior Reserve Officer Training Corps Curriculum Document (p.12), “Course Offerings: All units have the option to determine which [courses] to offer to first-, second-, third-, and fourth-year cadets.”

Task Essentials Table
For the indicated course(s):

- Tasks/competencies designated by plus icons (⊕) in the left-hand column(s) are essential
- Tasks/competencies designated by empty-circle icons (⊙) are optional
- Tasks/competencies designated by minus icons (⊖) are omitted
- Tasks marked with an asterisk (*) are sensitive.

<table>
<thead>
<tr>
<th>Task Number</th>
<th>AF7919</th>
<th>Tasks/Competencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exploring Aerospace Science</td>
<td></td>
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</tr>
<tr>
<td>Task Number</td>
<td>Description</td>
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**Exploring Leadership: Principles of Management**

<table>
<thead>
<tr>
<th>Task Number</th>
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<tbody>
<tr>
<td>43</td>
<td>Identify characteristics of management and managers.</td>
</tr>
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<td>44</td>
<td>Identify the techniques and skills involved in planning and decision making.</td>
</tr>
<tr>
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**Maintaining Personal Wellness, Health, and Fitness**

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<tr>
<th>Task Number</th>
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<tbody>
<tr>
<td>51</td>
<td>Maintain a physical fitness program.</td>
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<tr>
<td>52</td>
<td>Improve physical performance over time.</td>
</tr>
</tbody>
</table>

Legend: ☑Essential ☐Non-essential ☞Omitted

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**Curriculum Framework**

**Exploring Aerospace Science**

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**Task Number 39**

**Manage a cadet corps.**
Definition

Management should include

- applying theories of previous leadership courses into practice, such as
  - motivation
  - planning and organization
  - identifying resources and assets
- exercising decision-making skills while applying Air Force standards, discipline, and conduct.

Process/Skill Questions

- What is an organizational chart?
- What is the role of the first sergeant?
- What is the purpose of standards and evaluations?

Task Number 40

Examine how global cultures and interactions affect relationships between different cultural groups.

Definition

Examination could include

- the Middle East
- Asia
- Africa
- Russia and the former Soviet Republics
- Latin America
- Europe

Process/Skill Questions

- Why is it important to understand other cultures?
- What three major religions are present in the Middle East?
- When and why did the Soviet Union collapse?

Task Number 41

Investigate the elements of survival.

Definition

Investigation should include
• personal protection
• necessities to maintain life
• orientation
• travel.

Process/Skill Questions

• What are the elements of personal protection?
• What type of shelter is used in a desert environment?
• What are the cardinal directions?

Task Number 42

Prepare to take and pass the Federal Aviation Administration (FAA) private pilot written exam.

Definition

Preparation should include

• comprehending the fundamentals of flight
• comprehending flight operations
• comprehending the atmosphere and its effects on aircraft operations
• comprehending the basics of navigation using charts and radio aids
• applying the principles of aeronautical space decision-making and flight-related physiological factors.

Prerequisite: AS 200

Process/Skill Questions

• How old does one have to be to get a private pilot license (PPL)?
• What is Class C airspace?
• What is a sectional?

Exploring Leadership: Principles of Management

Task Number 43

Identify characteristics of management and managers.

Definition
Identification should include

- who managers are
- where they work
- what management is
- what managers do.

**Process/Skill Questions**

- What is the role of a manager?
- What is the difference between a manager and a leader?
- What are the characteristics of a good manager?

**Task Number 44**

**Identify the techniques and skills involved in planning and decision making.**

**Definition**

Identification should include

- types of plans
- management by objectives
- approaches to establishing goals
- contemporary issues in planning.

**Process/Skill Questions**

- How can a person overcome indecisiveness?
- What is prioritizing?
- Why is it important to plan?

**Task Number 45**

**Explain organizational methods.**

**Definition**

Explanation should include

- forces for change
- two views of the change process
- employee resistance to change
- time management.
Process/Skill Questions

- What are some of the forces for change?
- How does a person overcome resistance to change?
- How has technology influenced change?

Task Number 46

Examine leading.

Definition

Examination should include

- explaining and predicting behavior
- knowledge of personality theories
- perceptions
- learning styles
- group behavior.

Process/Skill Questions

- What are three types of learning styles?
- Why are perceptions important?
- How does group behavior differ from individual behavior?

Task Number 47

Comply with procedures in the cadet guide or handbook.

Definition

Compliance should include identification of and adherence to branch-specific curriculum expectations that coincide with performance evaluation.

Process/Skill Questions

- Who is responsible for producing the cadet guide?
- What are some consequences for non-compliance?
- What is the proper way to wear one’s uniform?

Task Number 48

Execute a community-service opportunity.

Definition
Execution should include

- coordinating with community partners
- collaborating with community leaders
- securing resources
- assigning roles to team members
- predicting tasks and time required to perform community service
- evaluating benefits of community service.

Process/Skill Questions

- What local organizations provide service opportunities?
- How can one contribute to national opportunities for service?
- What are some national service organizations?

Task Number 49

Complete the Armed Services Vocational Aptitude Battery (ASVAB).

Definition

Completion could identify potentially satisfying careers.

Process/Skill Questions

- How can the ASVAB help one identify career opportunities?
- What is the minimum score required to get in the Air Force?
- What are the components of the ASVAB?

Task Number 50

Teach others the principles and procedures of drill and ceremonies.

Definition

Teaching could include

- identification of different types of ceremonies and parades
- definition of *reveille* and *retreat*
- pass and review
- drill of the flight
- change of command.

Process/Skill Questions

- What is the role of the guidon in the change of command?
- What bugle calls may be played for *reveille* and *retreat*?
• What is the position of the color guard in a parade?

Maintaining Personal Wellness, Health, and Fitness

Task Number 51

Maintain a physical fitness program.

Definition

Maintenance should include

• Education
• Participation
• Evaluation

Process/Skill Questions

• What are benefits of regular exercise?
• What is the difference between cardiovascular and strength training?

Task Number 52

Improve physical performance over time.

Definition

Improvement could be based on striving for better performance and documenting those achievements over time in the following categories:

• Shuttle run
• One-mile run
• V sit-and-reach
• Push-ups
• Curl-ups

Process/Skill Questions

• How can a person decrease his or her run time?
• What is the importance of flexibility in a regular exercise program?
• What are the dangers of a sedentary lifestyle?
<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
<th>Subject Areas</th>
<th>Language Level</th>
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<td>History and Social Science: VUS.3, VUS.6, VUS.8, VUS.12</td>
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Appendix: Credentials, Course Sequences, and Career Cluster Information

Industry Credentials: Only apply to 36-week courses

- Armed Services Vocational Aptitude Battery Examination
- College and Work Readiness Assessment (CWRA+)
- National Career Readiness Certificate Assessment
- Workplace Readiness Skills for the Commonwealth Examination

Concentration sequences: A combination of this course and those below, equivalent to two 36-week courses, is a concentration sequence. Students wishing to complete a specialization may take additional courses based on their career pathways. A program completer is a student who has met the requirements for a CTE concentration sequence and all other requirements for high school graduation or an approved alternative education program.

- Air Force JROTC I (AF7913/36 weeks)
- Air Force JROTC II (AF7916/36 weeks)
- Air Force JROTC III (AF7918/36 weeks)

Career Cluster: Education and Training

<table>
<thead>
<tr>
<th>Pathway</th>
<th>Occupations</th>
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</thead>
<tbody>
<tr>
<td>Administration and Administrative Support</td>
<td>Instructional Coordinator, Training and Development Manager</td>
</tr>
<tr>
<td>Professional Support Services</td>
<td>Instructional Developer</td>
</tr>
<tr>
<td>Teaching and Training</td>
<td>Coach, Secondary Level, Instructional Coordinator, Training Consultant/Training Specialist</td>
</tr>
</tbody>
</table>

Career Cluster: Government and Public Administration

<table>
<thead>
<tr>
<th>Pathway</th>
<th>Occupations</th>
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</thead>
<tbody>
<tr>
<td>Foreign Service</td>
<td>Diplomatic Courier, Foreign Service Worker, Interpreter/Translator</td>
</tr>
<tr>
<td>Governance</td>
<td>Legislative Aide, Legislator</td>
</tr>
<tr>
<td>National Security</td>
<td>Combat Specialty Officer, Military Enlisted Personnel, Military Intelligence Specialist, Military Officer, Special Forces Personnel</td>
</tr>
<tr>
<td>Planning</td>
<td>Economic Development Coordinator, Urban and Regional Planner</td>
</tr>
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<th>Pathway</th>
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<tr>
<td>Public Management and Administration</td>
<td>Court Clerk</td>
</tr>
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<td></td>
<td>Government Accountant/Auditor</td>
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<td></td>
<td>Postal Service Clerk</td>
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<td></td>
<td>Postmaster/Mail Superintendent</td>
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<tr>
<td>Regulation</td>
<td>Compliance Officer</td>
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<tr>
<td></td>
<td>Environmental Compliance Inspector</td>
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<tr>
<td></td>
<td>Private Detective, Investigator</td>
</tr>
<tr>
<td>Revenue and Taxation</td>
<td>Compliance Officer</td>
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### Career Cluster: Law, Public Safety, Corrections and Security

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<tbody>
<tr>
<td>Correction Services</td>
<td>Corrections Officer</td>
</tr>
<tr>
<td></td>
<td>Probation, Parole Officer</td>
</tr>
<tr>
<td>Emergency and Fire Management Services</td>
<td>Emergency Medical Technician, Paramedic</td>
</tr>
<tr>
<td></td>
<td>Firefighter</td>
</tr>
<tr>
<td>Law Enforcement Services</td>
<td>Police Officer</td>
</tr>
<tr>
<td>Legal Services</td>
<td>Records Processing Assistant</td>
</tr>
<tr>
<td>Security and Protective Services</td>
<td>Private Detective, Investigator</td>
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<tr>
<td></td>
<td>Security Officer</td>
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### Career Cluster: Transportation, Distribution and Logistics

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<tbody>
<tr>
<td>Facility and Mobile Equipment Maintenance</td>
<td>Diesel Service Technician</td>
</tr>
<tr>
<td></td>
<td>Service Technician</td>
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<tr>
<td></td>
<td>Small Engine Mechanic</td>
</tr>
<tr>
<td>Health, Safety and Environmental Management</td>
<td>Health, Safety, and Environment Manager</td>
</tr>
<tr>
<td>Logistics Planning and Management Services</td>
<td>Logistics Analyst</td>
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<td></td>
<td>Logistics Engineer</td>
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<td>Logistics Manager</td>
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<td>Sales and Service</td>
<td>Dispatcher</td>
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<td>Transportation Operations</td>
<td>Transportation Manager</td>
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<tr>
<td>Transportation Systems/Infrastructure Planning, Management and Regulation</td>
<td>Civil Engineer</td>
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<tr>
<td></td>
<td>Civil Engineering Technician</td>
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<td>Transportation Manager</td>
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<tr>
<td>Warehousing and Distribution Center Operations</td>
<td>Traffic Engineer</td>
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