

TX-936

**Air Force Junior Reserve Officer
Training Corps (AFJROTC)
Course Outline/Syllabus**

AFJROTC III & IV

**School Year 2023-24
Central High School
San Angelo, TX**



Instructors: Maj Christopher Carney (ret), Senior Aerospace Science Instructor
CMSgt Kathleen Prince (ret), Aerospace Science Instructor

Subjects: Aerospace Science III – Exploring Space: The High Frontier
Aerospace Science IV – Management of the Cadet Corps
Leadership Education III – Life Skills and Career Opportunities
Leadership Education IV – Principles of Management
Cadet Health and Wellness Program

Credit Hours: 1 PE or Elective Credit per academic year (must complete both semesters)

JROTC MISSION

The mission of Air Force JROTC is to develop citizens of character dedicated to serving their nation and community.

REQUIRED TEXTS WITH COURSE DESCRIPTIONS

Note: Cadets taking JROTC III & IV cover courseware from both JROTC III & IV texts during the same academic year. The courseware is spread out over two academic years so cadets do not repeat courseware.

Aerospace Science 300 – Exploring Space: The High Frontier

This is a science course that includes the latest information available in space science and space exploration. The course begins with the study of the space environment from the earliest days of interest in astronomy and early ideas of the heavens, through the Renaissance, and on into modern astronomy. It provides an in-depth study of the Earth, Sun, stars, Moon, and solar system, including the terrestrial and the outer planets. It discusses issues critical to travel in the upper atmosphere such as orbits and trajectories unmanned satellites, and space probes. It investigates the importance of entering space and discusses manned and unmanned space flights, focusing on concepts surrounding spaceflight, space vehicles, launch systems, and space missions. The section on manned spaceflight focuses on the Space Shuttle, space stations and beyond, covering milestones in the endeavor to land on the Moon and to safely orbit humans and crafts for temporary and prolonged periods. The course covers the human aspect of spaceflight, focusing on the human experience in space. It also examines the latest advances in space technology, including robotics in space, the Mars Rover, and commercial uses of space.

21st Century Skills as defined by the Partnership for 21st Century Skills are also integrated into as well. These include learning and innovation (thinking) skills—critical thinking and problem solving, creativity and innovation, and communication and collaboration; information, media and technology skills—information literacy, media literacy, and ICT (information, communications and technology) literacy; and life and career skills—flexibility and adaptability, initiative and self-direction, social and cross-cultural skills, productivity and accountability, and leadership and responsibility.

During the Fall Semester, chapter 2 covering the Solar System will be taught. During the Spring Semester, chapter 3 covering Space Exploration will be taught.

Aerospace Science 400 – Management of the Cadet Corps

Cadets manage the entire corps during their 4th year in the AFJROTC program. This hands-on experience affords cadets the opportunity to put theories of previous leadership courses into practice. Planning, organizing, coordinating, directing, controlling and decision-making will be done by cadets. They will put into practice their communication, decision-making, personal-interaction, managerial, and organizational skills.

During the Fall Semester, unit c will be taught. During the Spring Semester, unit d will be taught.

Leadership Education 300 – Life Skills and Career Opportunities

This course is designed to prepare students for life after high school in the high-tech, globally oriented and diverse workplace of the 21st century.

Students will learn how to become a more confident financial planner and to save, invest and spend money wisely, as well as how to avoid the credit trap. They will learn about real-life issues such as understanding contracts, leases, warranties, legal notices, personal bills, practical and money-saving strategies for grocery shopping, apartment selection and life with roommates. The Holland Interest Inventory and other self-assessments will help them to reveal their attitudes, aptitudes and personal skills. This self-understanding will allow them to explore career paths and understand requirements they will need to be successful at work and in life.

To help students increase their potential for success through education, they will learn how to select a school that is right for them; how to apply for admission to a vocational or technical school, community college, or college/university; and how to succeed in these learning environments. Information is provided on how to conduct the job search for students who wish to enter the workforce right after high school or after additional education and training. They will learn how to prepare a winning résumé, and how to develop effective interviewing skills. Students will become more skilled at using the Internet for career research and learn how to network safely using social media. The text also provides information on working for the federal government to include careers in the military, aerospace industry, and public service. Finally, students will consider the most important elements of life skills for all Americans: civic responsibilities, such as volunteering, registering to vote, jury duty and draft registration.

During the Fall Semester, chapters 2 & 6 covering Managing Resources & Applying for Jobs will be taught. During the Spring Semester, chapters 7 & 8 covering Working for the Federal Government & Developing Your Career Skills will be taught.

Leadership Education 400 – Principles of Management

This course provides exposure to the fundamentals of management. The text contains many leadership topics that will benefit students as well as provide them with some of the necessary skills needed to put into practice what they have learned during their time in AFJROTC. We are confident this course, coupled with what cadets have already learned during their time in AFJROTC, will equip them with the qualities needed to serve in leadership positions within the corps. Throughout the text are many ethical dilemmas, case studies, and role play activities built into the lessons. These activities are based on real life experiences and will allow students the opportunity to practice what they learn by getting involved in discussions and expressing their opinions.

During the Fall Semester, unit 3 covering Organizing will be taught. During the Fall Semester, unit 4 covering Leading will be taught.

Drill and Ceremonies

Cadets will continue to build on what they learned during AFJROTC I and II. They will also put into practice what they have learned during their time in AFJROTC as they will have the opportunity to lead and teach AFJROTC I and II cadets.

Cadet Health and Wellness Program

Wellness is an official part of the AFJROTC program. It is an exercise program focused upon individual base line improvements with the goal of achieving a national standard as calculated with age and gender. The program is provided as a tool to help you develop individualized training programs. Cadets will be given the opportunity to put into practice the wellness concepts taught in Leadership Education I.

Instructors are free to include other activities cadets enjoy such as team sports in order to keep the Wellness Program fun and motivating.

COURSE OBJECTIVES/OUTCOMES

Aerospace Science 300 – *Exploring Space: The High Frontier*

Fall Semester/Chapter 2 (The Solar System)

- Describe the components of the Earth and the Moon.
- Analyze the sun and the structure of the solar system.
- Examine the planets and objects of the solar system.
- Explore the Milky Way galaxy and deep space.

Spring Semester/Chapter 3 (Space Exploration)

- Analyze the current strategic goals for space exploration.
- Evaluate the key components of planning a space mission.
- Investigate hazards faced by spacecraft while in space.

Aerospace Science 400 – *Management of the Corps*

Fall Semester/Unit c

Spring Semester/Unit d

- Apply theories and techniques learned in previous leadership courses.
- Analyze how to develop leadership and management competency through participation.
- Analyze strengthened organizational skills through active incorporation.
- Evaluate how to develop confidence in ability by exercising decision-making skills.
- Evaluate Air Force standards, discipline, and conduct.

Leadership Education 300 – *Life Skills and Career Opportunities*

Fall Semester/Chapters 2 & 6 (Managing Resources & Applying for Jobs)

- Analyze the elements of successful financial management skills.
- Create a plan to safeguard personal resources.
- Evaluate the essential process for successfully pursuing desired career or job.

Spring Semester/Chapters 7 & 8 (Working for the Federal Government & Developing Your Career Skills)

- Evaluate the benefits of working for the Federal Government.
- Create a plan for successful career development.

Leadership Education 400 – *Principles of Management*

Fall Semester/Unit 3 (Organizing)

- Know the importance of managing change, stress and innovation.

Spring Semester/Unit 4 (Leading)

- Know the key elements of individual and group behavior, the importance of the communication process and the characteristics of a good leader.

Drill and Ceremonies

- Know the importance of drill and ceremonies.
- Know basic commands and characteristics of the command voice.
- Apply and execute the concepts and principles of basic drill positions and movements.-. Know when and how to salute.
- Apply the principles and procedures of drill movements used with smaller units to the movement of a squadron.
- Know the function of the group and the wing.
- Know how groups and wings are formed.
- Know the purpose and definition of ceremonies and parades.

Cadet Health and Wellness Program

Motivate AFJROTC cadets to lead active, healthy lifestyles beyond program requirements and into their adult lives.

TECHNIQUES AND METHODS OF INSTRUCTION

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|----------------------------------|-------------------------------|---------------------|
| a. Lecture/Discussion | b. Demonstration | c. Text assignments |
| d. Practical exercises | e. Oral/written presentations | |
| f. Audiovisual/Computer material | g. CPS / TPC | |

STUDENT EXPECTATIONS AND CONDUCT

1. Follow the rules of Central High School, and the guidelines in the **TX-936 AFJROTC Cadet Guide**.
2. Behave in a respectful manner conducive to learning.
3. Be in the bay area of Powell Hall prior to the tardy bell.
4. Come to class with all course materials and writing instruments.
5. No food, drink, or gum is permitted in the classroom. No gum in the bay!

GRADING PROCEDURES

Major grades make up **60%** and include Uniform Wear & Academics.

Minor grades make up **40%** and include Wellness & Drill.

CLASS WORK

Grades are based on a 100-point scale and include lessons from the Aerospace Science and Leadership Education Textbooks, lesson worksheets, quizzes, chapter tests, stationary drill and marching. Grading scale is per Central High School guidance:

<u>Grade</u>	<u>Percentage Required</u>
A	90% & above
B	80%-90%
C	70%-80%
F	69% & below

Presentations: You may be assigned an oral briefing. This assignment will demonstrate your verbal communication skills as well as your ability to research and present on a particular topic. Topics and length of a presentation will vary and will be assigned to each cadet by the instructor.

Written Assignments: You may be required to prepare various written assignments. Assignments will be assigned as appropriate by an instructor to amplify course content.

UNIFORM WEAR

Uniform wear is a large part of the AFJROTC program. **ALL cadets WILL** wear the appropriate uniform each **Wednesday, from the start of the school day until released** unless otherwise designated by one of the instructors. Make-up day for excused absences on uniform day is the following school day returning from the excused absence. There will be no uniform make-up for unexcused absences. Improper or disrespectful wear of the uniform and/or failing to wear the uniform all day will result in a “0” (zero) grade for that uniform day. Weekly uniform inspections will be conducted with 100 points possible for each inspection. Multiple failures to wear your uniform can lead to disenrollment from the course. Guidelines for wear of the uniform can be found in TX-936 AFJROTC Cadet Guide.

Failure to turn in uniforms by the end of the course/year will result in a failing grade for the course. Additionally, the student will be placed on the “Fines/Fees” list until the missing uniform item(s) is (are) paid for/returned.

Habitual non-wear of the uniform and/or failure to maintain standards will result in a failing grade and possible dismissal from the program.

HOMEWORK/MAKE-UP POLICY

- It is the cadet’s responsibility to find out what assignments were missed due to class absence.
- Assignments are to be turned in on the day briefed by the instructor. If a cadet is absent, then the assignment is due in accordance with District policy.
- Students are expected to be in uniform the first day back to class if they missed a required uniform wear day and their absence was excused.

EXTRA CREDIT (MERITS)

Cadets may earn extra credit through participation in extracurricular activities (Drill team competition & practices) and through merits given by staff members. Cadets earn 1 point for every 3 merits with a maximum of 10 points total.

HEALTH AND WELLNESS PROGRAM

Wellness training will normally be conducted on **Fridays**. Each cadet's grade will be based on participation and progress in the wellness training exercises. Cadets that do not participate will receive a zero. Only cadets with a medical excuse from a doctor will be exempt from participation. All students are required to have a medical release form on file before participating in the Health and Wellness Program. The release form is handed out on the 1st day of class and must be returned within three school days. Failure to turn the release form in will result in not being able to participate on wellness days and receiving zeros for those days.

EXAMINATIONS

Exams will be based on lesson objectives and samples of behavior covered in your Aerospace Studies text books, TX-936 AFJROTC Cadet Guide and corresponding workbooks. Exams may be multiple choice, matching, short essay, and/or fill in the blank type questions. All exams have the same weight regardless of length. All questions will come from the assigned readings and classroom instruction. Any missed exams will be made up. The majority of non-essay exams will be given using TPC.

Semester exams are given at the end of the first and second semesters & cover all topics from that semester.

CADET EVALUATION

You will be constantly evaluated in some form or another during your life. This class is no different. Your overall attitude, demonstrated enthusiasm to learn & constructive participation in class will determine whether or not you are considered for a leadership position. If in a leadership position, it could determine whether or not you remain in that position. Everyone is expected to be prepared for class everyday by completing reading assignments and/or other assigned tasks & contribute by participating in classroom discussions. In addition, all assignments must be completed and turned in by the assigned date unless prior arrangements are made beforehand.

CELL PHONES

Cell phone policy is in accordance with Central HS instructions. Cell phones may not be used for texting or phone calls during class. When cell phone use is permitted, it is for academic use only. Students, who inappropriately use their device during the school day, will have the device confiscated. Parents may pick up the confiscated device for a fee of \$15 from the Student Service Center.

SAMPLE WEEKLY SCHEDULE

Monday:	Drill Evaluation/LE Lesson
Tuesday:	AS Lesson
Wednesday:	Uniform Evaluation/LE Lesson
Thursday:	AS Lesson
Friday:	Health & Wellness Program

NOTE: Schedule is subject to change.

CADET GUIDE

All cadets are required to read, understand and adhere to the information in the TX-936 AFJROTC Cadet Guide. Copies of the Guide are available for checkout as well as on-line at <http://afjrotctx936.weebly.com/>.

OFFICE HOURS

Our standard duty hours are 0730 to 1630. We are located in Powell Hall. We have an open-door policy and you can come by and discuss anything you need to if we are available. Appointments only required to guarantee an instructor will be available.

We want you to succeed. Stop in and see us if you have any questions. The Air Force is a great way of life full of exciting opportunities. We will do everything we can to help you and give you every opportunity and all the assistance available for you to succeed. We hope you will complete all four years of AF JROTC.