

Public Services

**CTE Programs of Study and Course Descriptions are located within the Career and Technical Education tile*

- **EDUCATION AND TRAINING***
 - Teaching and Training
- **HEALTH SCIENCE***
 - Health Science: Biomedicine
 - Health Science: Clinical Rotations
 - Health Science: Certified Nursing Assistant (CNA)
 - Health Science: Emergency Medican Technician (EMT)
 - Health Science: Pharmacy
 - Health Science: Exercise Science and Sports Medicine
- **LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY***
 - Legal Studies
 - Law Enforcement: Police
- **HUMAN SERVICES***
 - Cosmetology
 - Military Science (ROTC)

Reserve Officer Training Corp (ROTC)*				
Program of Study Course Sequence	9th Grade	10th Grade	11th Grade	12th Grade

Military Science	ROTC I (1 credit)	ROTC II (1 credit) <i>Prerequisite:</i> <i>ROTC I</i>	ROTC III (1 credit) <i>Prerequisite:</i> <i>ROTC II</i>	ROTC IV (1 credit) <i>Prerequisite:</i> <i>ROTC III</i>
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*Denotes non-CTE pathway

Certifications / Certificate Opportunities Based on Program of Study	Additional Course Information
Leadership and College Scholarship Opportunities	<p><i>All ROTC Courses Include:</i></p> <p>Wellness and Physical Training (PT): provides a standardized, facility variations minded curriculum offering substantial individual health improvements. The objective is to motivate cadets to lead healthy, active lifestyles. PT/Wellness provides leadership opportunities, builds esprit de corps, and increases cadet confidence.</p>
Career and Technical Student Organization (CTSO)	
Air Force ROTC	

ROTC I

Leadership Education I (LE-1)

Aerospace Science I (AS-1)

TEDS: PES00004

KISD: 50403

Credit: 1

Grade: 9-12

Recommended prerequisite: None

The first half of the sixty-hour course is dedicated to leadership studies relating directly to citizenship, individual self-control, time management, stress management, study skills, and wellness and fitness. Wearing of the uniform, customs and courtesies and basic drill skills are introduced. The aerospace science half of the course is designed to acquaint the student with the historical development of flight and the role of the military in history. Over half of the course describes the makeup of the aerospace community and the United States Air Force.

ROTC II

Leadership Education II (LE-2)

Aerospace Science II (AS-2)

TEDS: 03160200

KISD: 5153

Credit: 1

Grade: 10-12

Recommended prerequisite: ROTC I

This science course is designed to acquaint the student with navigation and the human limitations of flight. The course begins with a discussion of the atmosphere and weather. The study is expanded to include the planets and space beyond our solar system. After developing an understanding of the environment, how that environment affects flight is introduced. Discussions include the forces of lift, drag, thrust, and weight. Students also learn basic navigation including map reading, course plotting, and the effects of wind. The portion of the Human Requirements of flight is a survey course on human physiology. Discussed here is the human circulatory system, the effects of acceleration and deceleration, protective equipment and space environment. Leadership hours' stress communications and skills cadet corps activities. Written reports and speeches complement academic materials. Cadet corps activities include holding positions of greater responsibility in the planning and executing of corps projects.

ROTC III

Leadership Education III (LE-3)

Aerospace Science III (AS-3)

TEDS: 03160300

KISD: 5163

Credit: 1

Grade: 10-12

Recommended prerequisite: ROTC II

The third year is a science course, which discusses principles of propulsion system, fundamentals of rocketry and its application to spacecraft, principles of underlying space travel, and various aspects

of space exploration. This year's materials are perhaps the most technical. Turbojet, turbofan, rocket, reciprocating engines, and a detailed examination of propulsion systems are explained. Rocketry and spacecraft portions cover rocket propulsion, guidance, and control and orbits. The space travel section further discusses the development, use and future of artificial earth satellites, and interplanetary probes. Leadership hours continue emphasis on written and oral communication skills. Additionally, basic management skills such as planning, directing, and controlling are introduced. Third year cadets put these skills into practice by holding key leadership positions in the cadet corps.

ROTC IV

Leadership Education IV (LE-4)

Aerospace Science IV (AS-4)

TEDS: 03160400

KISD: 5173

Credit: 1

Grade: 10-12

Recommended prerequisite: ROTC III

This fourth year is a civics course. Subjects covered include civil aviation's primary features and impact on our society, careers available in the civil and military aerospace community and descriptions and uses of modern aerospace vehicles. The civil aviation portion of the course adds to the basic knowledge of the aerospace industry given in AS-1. This information sets the stage for the discussion on careers in aerospace. The careers section not only describes career options and educational possibilities; it also provides practical advice for the new job hunter. The academic section fine-tunes developing communication skills and top-level cadet corps jobs provide a laboratory to experiment with newly learned leadership and management skills.

