

WHAT IS T-STEM

The Texas Science, Technology, Engineering and Mathematics (T-STEM) Initiative provides a foundational approach to empower teachers, inspire students, and advance the studies in these four fields. The public-private initiative of academies, professional development centers and networks is designed to improve instruction and academic performance in science and mathematics-related subjects at secondary schools.



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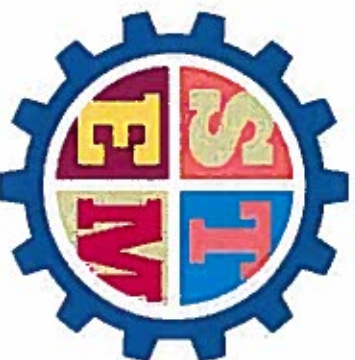
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Canutillo
High School
T-STEM
Academy



CANUTILLO HIGH SCHOOL

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Mission

THE TEXAS SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS PROGRAM (T-STEM) AT CANUTILLO HIGH SCHOOL IS A DEMANDING FOUR-YEAR EDUCATIONAL PLATFORM WHICH WILL GIVE STUDENTS THE OPPORTUNITY TO EXPLORE CAREERS IN THE STEM-RELATED FIELDS AND PROVIDE SUPERIOR ACADEMIC INSTRUCTION WITH INNOVATIVE TECHNIQUES TO HELP ENSURE STUDENTS SUCCESS IN OUR CONSTANTLY CHANGING WORLD.



Vision

THE VISION OF CANUTILLO HIGH SCHOOL T-STEM PROGRAM IS TO DEVELOP LIFELONG LEARNERS, WHO WILL THINK CRITICALLY TO SOLVE COMPLEX PROBLEMS AND HELP EDUCATE AND ASSIST THEIR FELLOW PEERS/CO-WORKERS USING SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS. ULTIMATELY, CHS WILL PRODUCE HIGHLY MOTIVATED STUDENTS WHO WILL EXHIBIT LEADERSHIP, SCHOLARSHIP AND SELF-SUPPORT IN ADDITION TO DEMONSTRATING SOCIAL MATURITY THROUGHOUT THEIR T-STEM EDUCATIONAL CAREER. STUDENTS WHO GRADUATE FROM THIS PROGRAM WILL LEAVE HIGH SCHOOL WITH 12-30 COLLEGE COURSE CREDITS AND WILL BE PREPARED FOR COLLEGE COURSES LEADING TO SUCCESSFUL AND INNOVATIVE CAREERS.

Benefits

- HANDS ON COURSES
- PROJECT BASED LEARNING
- DUAL CREDIT & ADVANCED PLACEMENT COURSES
- CAREER EXPLORATION
- RESEARCH 9TH-12TH GRADE
- INTERNSHIPS & JOB SHADOWING
- DEVELOP PROFESSIONAL RELATIONSHIPS WITH PROFESSORS & EMPLOYERS
- LEADERSHIP DEVELOPMENT
- PARTICIPATION IN NATIONAL COMPETITIONS & PROJECTS

Expectations

- TAKEN ALGEBRA 1 PREFERRED
- CTSO CLUBS
- SENIOR PROJECT
- GRADUATE WITH COURSES IN PRE-AP/AP/ DUAL CREDIT
- COMMUNITY SERVICE HOURS
- PARTICIPATION IN COMPETITIONS/PROJECTS

Courses

OPTION 1:

PROJECT LEAD THE WAY

- INTRODUCTION TO ENGINEERING
- PRINCIPLES OF ENGINEERING
- COMPUTER INTEGRATED MANUFACTURING
- OR COMPUTER SCIENCE & SOFTWARE ENGINEERING
- ENGINEERING DESIGN & DEVELOPMENT OR CPS

OPTION 2:

- PRINCIPLES OF INFORMATION TECHNOLOGY
- PLTW COMPUTER SCIENCE & SOFTWARE ENGINEERING OR AP COMPUTER PRINCIPLES
- AP COMPUTER SCIENCE
- RESEARCH IN IT SOLUTIONS

YEAR 1 (Must take classes)

- PAP-ALGEBRA 1 OR PAP- GEOMETRY
- PAP-BIOLOGY
- AP-HUMAN GEOGRAPHY
- PAP- WORLD GEOGRAPHY
- PAP-ENGLISH 1 OR ENGLISH 1
- FOREIGN LANGUAGE
- PE OR PE EQUIVALENT