

ENGINEERING DESIGN AND PRESENTATION



2026-2027 Mr. Walker

Meeting Location:
Lake View : D226
Central : Sousa 124

The mission of SAISD's CTE Engineering Pathway is to serve students interested in pursuing engineering as a college major and career trajectory by engaging with coursework that mirrors or prepares for similar college work.

Students will be asked to engage in rigorous activity daily, reflective of the expected skills required to be successful in college-level engineering courses.

Course Description

Engineering Design and Presentation I is a continuation of knowledge and skills learned in Principles of Applied Engineering.

Students enrolled in this course will demonstrate knowledge and skills of the design process as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes.

Students will use a variety of computer hardware and software applications to complete assignments and projects.

Through implementation of the design process, students will transfer advanced academic skills to component designs.

Additionally, students explore career opportunities in engineering, technology, and drafting and what is required to gain and maintain employment in these areas.

In the second semester, students will demonstrate mastery of the engineering design process by producing a body of work during the development of a capstone project.

**Engineering Pathway
Industry- Based Certification:**



AUTODESK Fusion

Certified User—Autodesk Fusion

Grading Policy

Due Dates for assignments will be clearly posted.
One minor assignment will be dropped after each progress report.

40% Minor Grades

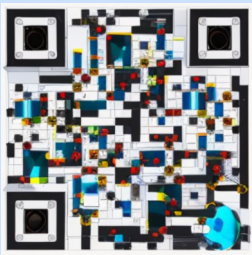
Independent Practice, Daily Work,
Project stages
8-10/Quarter

60% Major Grades

Summary Projects, Major Milestones
3-4/Quarter

School Policy on Late Work:
One makeup day received for each day absent.

Lesson plans can be viewed on the classroom website.



Classroom Technology

Microsoft OneNote
Google Suite
Autodesk Fusion
Festo Meclab, FluidSIM
Polyscope
Arduino Coding Environment

Class Norms:

- Follow all safety guidelines.**
- Respect yourself and others.**
- Ask Questions at any time.**
- Maintain a professional atmosphere.**
- Follow the student code of conduct and class social contract.**

Contact Information:

Email : Christopher.walker@salsd.org

As I move between campuses, email is the best way to reach me.

Conference Period :

Fourth Period, 11:47—12:36

