

PRINCIPLES OF APPLIED ENGINEERING



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

Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering and mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects.

Upon completing this course, students will have an understanding of the various fields of engineering and will be able to make informed career decisions.

Further students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course deliverables.

What Will We Do?

Students will engage in the engineering design process while learning to document and evaluate solutions. Students will assume team roles and contribute productively. Solutions will often be designed in CAD (Computer Aided Design). Many pieces will be manufactured using CNC equipment (3D Printers, Laser cutters, etc) while other will be hand manufactured.

**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

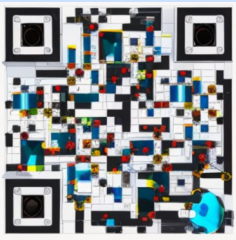
Independent Practice, Daily Work,
Project stages
8-10/Quarter

60% Major Grades

Summary Projects,
Major Milestones,
Daily Professional Conduct
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

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

