

CFISD Engineering Design and Presentation II

Scope and Sequence

Course Description: Students will work on a variety of projects that will help them develop design skills including those related to team building, problem solving, time management, project design and development. Students will be encouraged to enter competitive events that lead to the completion of industry certifications, internships, and career opportunities. (2 Credits)

- Grades 10 – 12
- Required prerequisite: Engineering Design I
- Lab supplies or fee is required.

TEKS:

Cluster: STEM (Science, Technology, Engineering and Mathematics)

Endorsement: STEM (Science, Technology, Engineering and Mathematics)

- Meets advanced course requirement (Y/N): Yes
- Meets foundation requirement for math, science, fine arts, English, LOTE (Y/N-area): No

Industry Certification/Credentials: Autodesk certified user certification

Instructional Units	Pacing
<p>1st Semester Career Paths in Engineering Review: Documenting the process The design process Reverse Engineering Codes and Standards Advanced CAD Software interface Prototypes Project Constraints Assemblies</p>	<p>1st Grading Prd</p> <p>2nd Grading Prd</p>
<p>2nd Semester Multiview Projection Pictorials Auxiliary Views Sections Assemblies Design Development & Application Systems Work Team Dynamics Documentation Prototyping Application of skills Certification Testing</p>	<p>3rd Grading Prd</p> <p>4th Grading Prd</p>

Primary Instructional Materials: *Exploring Drafting- GW, Autodesk software.*