

CFISD Engineering Design and Presentation I

Scope and Sequence

Course Description

Students will use multiple software applications and tools necessary to produce and present working drawings, solid models, renderings, and prototypes relating to the engineering design and drafting fields. Students will use a variety of computer hardware and software applications to complete assignments and projects.

- 1 Credit
- Grades 9 – 12
- Required Prerequisite: Principles of Applied Engineering
- Lab fee will be required.

TEKS

Cluster: *Engineering*

Program of Study: *Engineering Foundations*

Endorsement: *STEM*

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

Industry Certification/Credentials: *n/a*

Instructional Units	Pacing
1st Semester	
Career Paths in Engineering Safety Technical Sketching Presentation Skills	1st Grading Pd
Drafting & 3D Modeling Geometric Construction Multi-View Drawings	2nd Grading Pd
2nd Semester	
Drafting & 3D Modeling Pictorials Auxiliary Views/Advanced Dimensioning	3rd Grading pd
Drafting & 3D Modeling Design Development Application	4th Grading Pd

Primary Instructional Materials: *Exploring Drafting G-W*