

CFISD Engineering Design & Presentation II

Scope and Sequence

Endorsement: Business & Industry (or STEM with required math & science)

Meets advanced course requirement? YES ▾

Cluster: Engineering

Program of Study: Engineering Foundations

Meets foundation requirement for math, science, fine arts, English, LOTE? NO ▾

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.

TEKS link

- 2 credits
- Grades 10-12
- Lab supplies or fee may be required
- Required prerequisites: Engineering Design & Presentation I

Industry Certification/Credential: Autodesk Certified User Inventor

TEA recognized IBC (to count toward program of study completion)? YES ▾

Instructional Units	Grading Period
Career Paths in Engineering Review Documenting the process The Design Process Reverse Engineering Codes and Standards	N1 (fall)
Advanced CAD Software Interface Prototypes Project Constraints	N2 (fall)
Multiview Projection Pictorials Auxiliary Views Section Views Assemblies	N3 (spring)
Design Development & Application Systems Work Team Dynamics Documentation Prototyping Certification Practice (GMetrix) Certification Testing: Autodesk Certified User	N4 (spring)

Primary Instructional Materials: iCEV Architecture, Construction, Transportation & Manufacturing

Supplementary Instructional Materials: Autodesk software