

CFISD Principles of Manufacturing

Scope and Sequence

Endorsement: Business & Industry

Cluster: Manufacturing

Meets advanced course requirement? NO ▾

Program of Study: Manufacturing Technology

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

Course Description:

Principles of Manufacturing will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting, relevant activities and problems in a manufacturing setting. Students will design, produce, and assess products, services, and systems. They will use a variety of hand tools, power tools, machinery, computer hardware, and software applications to complete assignments and projects individually or with teams.

[TEKS link](#)

- 1 credit
- Grades 8-11
- Lab supplies or fee may be required
- Required prerequisites: n/a
- Recommended prerequisites:

Industry Certification/Credential: n/a

Instructional Units	Grading Period
Safety & Standards* Development of Technology Technological Systems* - Career Exploration - Design, Plan, Build First Project	N1 (fall)
CNC Design and Fabrication - Design, Plan, and Build Manufacturing Project	N2 (fall)
Applied Mathematics* - Design, Plan, and Build Manufacturing Project	N3 (spring)
Manufacturing & Marketing Mass & Custom Production* - Design, Plan, and Build Manufacturing Project Shop/Tool(s) Preventative Maintenance* - Design, Plan, and Build Manufacturing Project	N4 (spring)

*Applications with * are continuously taught throughout the year.*

Primary Instructional Materials: Teacher supplied resources, Equipment specific software