CFISD Principles of Manufacturing

Scope and Sequence

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.

- Grades 8 – 11
- Required Prerequisite: None
- Lab/supply fee is required.

TEKS

Program of Study: *Manufacturing*

Cluster: *Manufacturing*

Endorsement: *Business & Industry*

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

Industry Certification/Credentials: *None*

Instructional Units	Pacing
1st Semester Safety & Standards* Development of Technology Technological Systems* ● Career Exploration ● Design, Plan, Build First Project CNC Design and Fabrication ● Design, Plan, and Build Manufacturing Project	1st Grading Per 2nd Grading Per
2nd Semester Applied Mathematics* ● Design, Plan, and Build Manufacturing Project Manufacturing & Marketing Mass & Custom Production* ● Design, Plan, and Build Manufacturing Project Shop/Tool(s) Preventative Maintenance* ● Design, Plan, and Build Manufacturing Project	3rd Grading Per 4th Grading Per

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

Primary Instructional Materials: *Teacher supplied resources, Equipment specific software*