

# 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 – 10
- Required Prerequisite: None
- Lab/supply fee is required.

### TEKS

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
<b>1st Semester</b> Employability Skills* Safety & Standards* History & Development of Technology Technological Systems* <ul style="list-style-type: none"> <li>• Design, Plan, Build First Project</li> </ul> Career Exploration	1st Grading Per     2nd Grading Per
<b>2nd Semester</b> Applied Mathematics* <ul style="list-style-type: none"> <li>• Design, Plan, and Build Manufacturing Project</li> </ul> Manufacturing & Marketing Mass & Custom Production* <ul style="list-style-type: none"> <li>• Design, Plan, and Build Manufacturing Project</li> </ul> Maintenance & Preventative Maintenance* <ul style="list-style-type: none"> <li>• Design, Plan, and Build Manufacturing Project</li> </ul>	3rd Grading Per    4th Grading Per

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

Primary Instructional Materials: *CFISD Safety Curriculum, ICEV Multimedia LTD. Web Based curriculum*