

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

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

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