## **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):

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

Industry Certification/Credentials: NCCER Core Certification

Instructional Units	Pacing
1st Semester	1st Grading Per
NCCER Core Curriculum*	
Safety & Standards*	
Development of Technology Technological Systems*	2nd Grading Per
Design, Plan, Build First Project Career Exploration	
NCCER Core Certification Tests taken as modules are completed.	
2nd Semester	3rd Grading Per
Applied Mathematics*	
<ul> <li>Design, Plan, and Build Manufacturing Project</li> </ul>	
Manufacturing & Marketing Mass & Custom	
Production*	4th Grading Per
Design, Plan, and Build Manufacturing	
Project Maintenance & Preventative Maintenance*	
Design, Plan, and Build Manufacturing Project	
NCCER Core Certification Tests taken as modules are completed.  oplications with * are continuously taught throughout the year.	

Primary Instructional Materials: NCCER Core Curriculum