

CFISD Diversified Manufacturing I

Scope and Sequence

Course Description:

Diversified Manufacturing provides the knowledge, skills, and technologies required for employment in multi-material technology systems. This project-based course will allow the student to apply academic skills to various manufacturing operations such as welding, machining, forming, manual and CNC technologies. Students will use a variety of power tools, hand tools and stationary equipment throughout this course. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills are included.

- Grades 9 – 11
- Required prerequisite: *Principles of Manufacturing*
- Lab/supplies 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 |
|---|--|
| 1st Semester Employability Skills* Safety & Standards* History & Development of Technology Technological Systems* <ul style="list-style-type: none"> • Design, Plan, Build First Project Career Exploration | 1st Grading Per 2nd Grading Per |
| 2nd Semester Applied Mathematics* <ul style="list-style-type: none"> • Design, Plan, and Build Manufacturing Project Manufacturing & Marketing Mass & Custom Production* <ul style="list-style-type: none"> • Design, Plan, and Build Manufacturing Project Maintenance & Preventative Maintenance* <ul style="list-style-type: none"> • Design, Plan, and Build Manufacturing Project | 3rd Grading Per 4th Grading Per |

Items with * are taught throughout the year.

Primary Instructional Materials: *Teacher supplied resources, CFISD Safety Curriculum, ICEV online*