

CFISD Precision Metal Manufacturing I

Scope and Sequence

Course Description: This course will provide the knowledge, skills, and technologies required for employment in precision machining. While the course is designed to provide necessary skills in machining, it also provides a real-world foundation for any engineering discipline. This course may address a variety of materials such as plastics, ceramics, and wood in addition to metal. (2 Credits)

- Grades 11 – 12
- Required prerequisite: *Diversified Manufacturing I*
- Lab supplies or fee is required.

TEKS

Program of Study: *Manufacturing*

Cluster: *Manufacturing*

Endorsement: *Business & Industry*

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

Industry Certification/Credentials: *None*

Instructional Units	Pacing
1st Semester Career Exploration Safety * Machine Tools* Applied Math and Measurement <ul style="list-style-type: none"> • Fractions/Decimals* Project Layout and Blueprints*	1st grading Per 2nd Grading Per
2nd Semester Machine Processes* Computerized Numerical Control CNC Careers, Employment, & Business*	3rd Grading Per 4th Grading Per

Items with * are taught throughout the year.

Primary Instructional Materials: *Teacher supplied resources, NIMS, Starrett Handbook for Machinists*