

# 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 various metals and composites. (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: *AWS Certification*

Instructional Units	Pacing
<b>1st Semester</b> Career Exploration Safety * Machine Tools* Applied Math and Measurement <ul style="list-style-type: none"><li>• Fractions/Decimals*</li></ul> Project Layout and Blueprints*	1st grading Per    2nd Grading Per
<b>2nd Semester</b> 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*