

CFISD Precision Metal Manufacturing II

Scope and Sequence

Endorsement: Business & Industry**Cluster:** Manufacturing**Meets advanced course requirement?** YES ▾**Program of Study:** Manufacturing Technology**Meets foundation requirement for math, science, fine arts, English, LOTE?** NO ▾**Course Description:**

This course will provide students advanced knowledge, skills, and technologies required for employment in precision machining. While this course is designed to provide necessary skills in machining, it also provides a real-world foundation for any engineering discipline. This course addresses a variety of materials such as plastics, ceramics, and wood in addition to metal. Students will develop knowledge of the concepts and skills related to these systems to apply them to personal and career development.

TEKS link

- 2 credits
- Grade 12
- Lab supplies or fee may be required
- Required prerequisites: Precision Metal Manufacturing I

Industry Certification/Credential: AWS D1.1**TEA recognized IBC (to count toward program of study completion)?** YES ▾

Instructional Units	Grading Period
Career, Exploration & Business* Technical Knowledge for Precision Metal Manufacturing Workplace Regulations & Safety*	N1 (fall)
Project Layout and Blueprints Review Machine Processes	N2 (fall)
CNC Systems - CNC Process Planning - CNC Milling Machine Processes - CNC Lathe Processes - Advanced Quality Control	N3 (spring)
CNC Systems - CNC Process Planning - CNC Milling Machine Processes - CNC Lathe Processes - Advanced Quality Control	N4 (spring)

*Items with * are taught throughout the year.*

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