CFISD Precision Metal Manufacturing II

Scope and Sequence

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. (*2 Credits*)

- Grades 12
- Required prerequisite: *Precision Metal 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 & Business* Technical Knowledge for Precision Metal Manufacturing Workplace Regulations & Safety* Project Layout and Blueprints Review Machine Processes	1st grading Per 2nd Grading Per
2nd Semester CNC Systems • CNC Process Planning • CNC Milling Machine Processes • CNC Lathe Processes • Advanced Quality Control	3rd Grading Per 4th Grading Per

*Items with * are taught throughout the year.*

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