



## Precision Machining (Eagle Manufacturing)

	Year 1	Year 2	Year 3	Advanced Education
Course Sequence	Principles of Precision Machining	Precision Machining Fundamentals (Eagle Mfg I)	Advanced Precision Machining (Eagle Mfg II)	<b>Precision Machining Capstone</b>

Suggested Electives
Introduction to Engineering Design (IED)

### Course Descriptions

#### Principles of Precision Machining

7109 PRIN PREC MACH

Principles of Precision Machining will provide students with a basic understanding of the processes used to produce industrial goods. Classroom instruction and labs will focus on shop safety, measurement, layout, blueprint reading, shop math, metallurgy, basic hand tools, milling, turning, grinding, and sawing operations. This course prepares the student for the optional National Institute for Metalworking Skills (NIMS) Measurement, Materials, & Safety certification that may be required for college dual credit.

- Recommended Grade(s): 9, 10, 11
- Required Prerequisites: none
- Recommended Prerequisites: Introduction to Advanced Manufacturing
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective for all diplomas





## Academy for ADVANCED TECHNOLOGIES & SCIENCE

### Eagle Manufacturing Program Description

Eagle Manufacturing is a student-run business at Brown County High School. Students in Eagle Manufacturing are considered student-employees and can hold various positions within the business. To be a member of Eagle Manufacturing in Precision Machining, students are required to take the Principles of Precision Machining course outlined above. Once that course has been taken and passed, students will have to complete an application with a resume, participate in an interview, and be “hired” into a position within Eagle Manufacturing. The second course (Precision Machining Fundamentals) and the third course (Advanced Precision Machining) in the program of study are both courses in which the student will be holding a position and participating in Eagle Manufacturing.

### Precision Machining Fundamentals - Eagle Mfg I

#### 7105 MACH FUN

- Recommended Grade(s): 10, 11, 12
- Required Prerequisites: Principles of Precision Machining
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective for all diplomas
- Qualifies as a quantitative reasoning course

### Advanced Precision Machining - Eagle Mfg II

#### 7107 PREC MACH

- Recommended Grade(s): 10, 11, 12
- Required Prerequisites: Principles of Precision Machining; Precision Machining Fundamentals
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective for all diplomas
- Qualifies as a quantitative reasoning course

### Career Outlook

