

MFG 114 : MANUFACTURING PROCESSES III

Transcript title

Manufacturing Processes III

Credits

3

Grading mode

Standard letter grades

Total contact hours

90

Lab hours

90

Prerequisites

instructor approval.

Recommended preparation

MFG 100.

Course Description

Final course in the basic manufacturing processes series. Continued student proficiency development in the operation of basic machine tools, introduction to computer numerical control programming and operations, and a capstone project to demonstrate machining proficiency.

Course learning outcomes

1. Student will use the vertical band saw in making accurate profile cuts.
2. Student will setup and use a milling machine to perform part squaring and milling operations.
3. Student will setup and use an engine lathe to perform turning operations that meet required part specifications.
4. Student will create process planning and documentation that reflects the correct procedures to produce a given part.