

MFG 278 : CNC FIXTURE DESIGN LATHE

Transcript title

CNC Fixture Design Lathe

Credits

3

Grading mode

Standard letter grades

Total contact hours

70

Lecture hours

10

Lab hours

60

Prerequisites

MFG 119, MFG 250, MFG 257.

Course Description

Covers methods beyond the basic use of a chuck in order to hold and machine irregularly shaped parts using a lathe.

Course learning outcomes

1. Create fixtures to hold irregularly shaped parts using a lathe.
2. Evaluate best way to position parts on computer numerical control lathe machine.
3. Use computer aided drafting system to generate models of fixtures.

Content outline

- Different options for holding parts on computer numerical control machines
- Lathe vs mill/turn machines
- Automated fixture options
- Fixturing different types of material

Required materials

Required textbook.