

**COCONINO COMMUNITY COLLEGE  
COURSE OUTLINE**

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Status: Dual Enrollment Students Only  
Effective: Fall 2014

Aug. 24, 2000  
February 19, 2003  
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January 31, 2014

A. Identification:

1. Subject Area: Machine Shop (MCH)
2. Course Number: 110
3. Course Title: Machining Level I
4. Credit Hours: 3
5. Course Description: Overview of metal machine practices and shop safety designed to help the student have a better understanding of machine shop procedures. \*Course is only available to Dual Enrollment Students. May be taken for S/U credit. Two lecture. Two lab.

B. Course Goals:

Upon completion of this course, the student will be able to demonstrate knowledge of safe machine operation, and machine shop procedures.

C. Course Outcomes: Students will:

1. identify and demonstrate knowledge of machine shop safety procedures & OSHA regulations;
2. identify different machining procedures;
3. demonstrate competence in using precision measuring tools;
4. and demonstrate proper use of machine shop tooling.

D. Course Content:

1. Introduction to machine tool technology.
2. Machine shop and tool safety.
3. Using precision machine measuring instruments.
4. Layout tools and procedures.
5. Hand tools and bench work.
6. Metal cutting procedures.
7. Drilling and tapping procedures.
8. Lathes – Introduction.
9. Milling machines – Introduction.