



STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: Machine Tools
Course Number: AIT122

Required Materials

Textbook(s): Precision Machining Technology Second Edition by Peter Hoffman, Eric Hopewell, Brian Janes (ISBN-13:978-1-2854-4454-3), Cengage Learning Precision Machining Technology Second Edition Workbook and Projects Manual by David Lanzi, James Hillwig (ISBN-13:978-1-2854-4455-0), Cengage Learning

Required Readings: None

Additional Materials: Calculator with trigonometry functions and safety glasses for use in Lab.

Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

Week	Chapter/Topic/Lab
1	Review Syllabus, Tour lab Section 1 Introduction to Machining, Units 1, 2, 3
2	Section 2 Measurement, Materials and Safety, Units, 1, 2, 3, 4, 5
3	Section 2 Measurement, Materials, and Safety, Units 6, 7, 8 - review for test Test 1 (Sections 1 and 2)
4	Problem Solving - Decision Making - Test 2 (Problem Solving/Decision Making) Test 2 (Problem Solving/Decision Making) – Start section 3
5	Section 3 Job Planning, Benchwork, and Layout, Units 1,2 Lab Exercise 1 - Layout
6	Lab Exercise 1 - Layout Section 3 Job Planning, Benchwork, and Layout, Units 3,4
7	Section 3 Job Planning, Benchwork, and Layout, Units 5,6 Section 4, Drill Press, Units 1,2
8	Section 4 Drill Press, Unit 3 Section 6 Milling, Units 1,2 Test 3 (Sections 3 and 4)
9	Lab Exercise 2 – Mill Project
10	Section 5 Turning, Units 1,2,3 pgs. 355-406

Week	Chapter/Topic/Lab
11	Section 5 Turning, Units 3,4 pgs. 406-444
12	Section 5 Turning, Unit 5 pgs. 446-459 Lab Project 3 – Lathe Project
13	Lab Project 3 – Lathe Project
14	NIMS review NIMS Certification Test
15	Lab Project, Lab clean-up, and Final Exam Review
16	Final Exam (Section 5 through Section 6 Unit 2)