



STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: Advanced Machine Tools
Course Number: AIT123

Required Materials

Textbook(s): Precision Machining Technology Second Edition by Peter Hoffman, Eric Hopewell, Brian Janes (ISBN13:978-1-2854-4454-3), 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 Machinists' Ready Reference by C. Weingarter (ISBN#9780970339850), Prakken Publications

Required Readings: None

Additional Materials: None

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
Week 1	Review Syllabus, Sect 2-1 Safety Review, Lab Project Preview, Tour Lab Section 5, Turning Review, Units 1,2 and related questions
Week 2	Section 5 Turning Review, Unit 3 and related questions Section 6 Milling Review, Units 1,2 and related questions
Week 3	Section 6 Milling Units 3,4 Section 2 Math Review Unit 2 and related questions, Machinist Ready Reference Section 1 Mathematical Information
Week 4	Section 3 Understanding Drawing Review Unit 1 and related questions, Machinist Ready Reference Section 10 Reading Shop Prints Review lab project drawings Assign Soft Skills Power point and Test 1 as a take home assignment, due in one week Lab time - Start air engine project
Week 5	Section 7 Grinding Units 1,2,3 and related questions Lab time - Air engine project
Week 6	Test 2, Machinist Ready Reference Section 2 Drills

Week	Chapter/Topic/Lab
	Lab time - Air engine project
Week 7	Lab time - Air engine project
Week 8	Lab time - Air engine project
Week 9	Lab time - Air engine project
Week 10	Lab time - Air engine project
Week 11	Lab time - Air engine project
Week 12	Lab time - Air engine project
Week 13	Lab time - Air engine project
Week 14	Lab time - Air engine project
Week 15	Lab cleanup for semester end Section 8 Intro to CNC Units 1,2,5 (Time permitting)
Week 16	FINALS WEEK EXTRA TIME TO WRAP UP PROJECTS