

Syllabus & Schedule

Course Title: Machine Tools Lab

Course Number: RMET-105

Department: Mechanical, Manufacturing & Electromechanical Engineering Technology

Hours: 2 Lab Hours /Week

Location: SLA-1270

Instructor:

Steven Kosciol

Email: sjkeme@rit.edu

Phone: (585) 475-2247 (Office)

Office Hours: Stop by Machine Tool Lab

Course Overview:

This Lab introduces Machine Tools and the process of precise component manufacture.

Course Objectives:

1. Proper use of Precision Measurement Tools.
2. Safe and appropriate use of Machine Tools.
3. Basic Machining Operations and their Sequence of Order.
4. Evaluating Design Requirements and Manufacturing Process.

Lab Policies

1. All students must review the Safety Rules before using the shop.
2. Safety Rules must be observed at all times.
3. Attendance and Participation
 - a. Class attendance is required. It is mandatory for all students attend their assigned sections.
 - b. Unexcused absence in 2 consecutive labs will eliminate you from continuing and result in an "F" grade.**
 - c. Arrive on time and remain until your work is completed.

Lab Schedule:

Week #1	Whole Class	Safety and Measurement Tools		Measurement Worksheet
Week #2	Whole Class	Saws and Deburring		Lab Samples
Week #3	Group A	Mill 1	Group B	Lathe 1
Week #4	Group A	Mill 2	Group B	Lathe 2
Week #5	Group A	Mill 3	Group B	Lathe 3
Week #6	Group A	Mill 4	Group B	Lathe 4
Week #7	Group B	Mill 1	Group A	Lathe 1
Week #8	Group B	Mill 2	Group A	Lathe 2
Week #9	Group B	Mill 3	Group A	Lathe 3
Week #10	Group B	Mill 4	Group A	Lathe 4
Week #11	Final Project	Whole Class		
Week #12				
Week #13				
Week #14				Due Last Week

Grade Computation:

ITEM	Percentage
Lab Assignments - Graded at End of Each Lab	50%
Final Project	50%
Total	100%

Final Grading:

Percentage	Letter Grade
93 – 100	A
90 – 92	A -
87 - 89	B +
83 – 86	B
80 – 82	B -
77 – 79	C +
73 – 76	C
70 – 72	C -
60 – 69	D
0 – 59	F