

DEPARTMENT OF MECHANICAL ENGINEERING  
MANUFACTURING LAB  
MR.ZICARELLI  
OU BUILDING ROOM OU-118 – (305) 348-6557  
[zicarell@fiu.edu](mailto:zicarell@fiu.edu)  
<http://web.eng.fiu.edu/zicarell>

## SYLLABUS

### Sessions 1-3 (Level-1)

**THIS IS SYLLABUS IS FOR THE IMPOSED TEMPORARY REMOTE LEARNING**

Welcome to Manufacturing Lab. This is an introductory lab course. The course objective is to help you understand the engineer's role in manufacturing, through hands on learning exercises. Safety is taught, practiced, and enforced throughout the course. Please note that a flash-drive, and closed toed shoes will be required for this course.

## GRADING

This is a “HANDS ON” course. Grading for this class is broken down as follows:

The FOUR components that make up YOUR total grade are:

- QUIZZES 50 pts ( 1 or more quizzes will be given throughout the course)
- HOMEWORK 100 pts (2 @ 50 pts each)
- PROJECTS 50 pts (Mastercam CAD/CAM Project)
- FINAL EXAM 100 pts

---

**TOTAL: 300 points**

### GRADE SCALE

A = 275-300 pts
B = 225-274 pts
C = 200-224 pts
D = 175-199 pts
F = 174 and below

#### NOTE:

**Attendance:** There are only 4 lab meetings, no makeups allowed due to session scheduling.  
\*\* If you cannot attend all 4 labs, it is advised you drop the lab and sign up for another session where you can attend all of the labs. \*\*

**Homework:** Must be complete and turned in by DUE date to get full points. Homework is to be done on YOUR time not class time. LATE Homework will lose additional points.  
\*\*Put YOUR name and Panther ID on your work in order to get credit. \*\*

**Projects:** Must be 100 percent completed to get full points.

## Weekly Lab requirements

### LAB WEEK# 1

- Watch these Level-1 Videos:
  - Introduction,
  - Safety Rules,
  - Dimensions, Tolerance and the three F's,
  - Shop Tour
- Complete Level-1 Quiz 1 (due on week 2)

### LAB WEEK# 2

- Level-1 Quiz-1 due
- Watch Homework G-CODE VIDEO SECTION 06
- ASSIGN HOMEWORK #1 (due on week 3)

### LAB WEEK# 3

- Watch: VIDEO LECTURE G-CODE, FORMAT RULES, CUTTER COMP, TOOL OFFSETS
- Watch Homework#2 video Instructions on web site and complete HOMEWORK #2 as assigned (card Holder design in Mastercam).

### LAB WEEK# 4

- Watch: Reading Micrometers and Calipers video
- Homework #2 due
- Do FINAL EXAM (due by end of week)