# I. Course Number and Name

MECH 2131: Manufacturing Engineering Lab

# II. Credits and Contact Hours

1 Credit Hour

# III. Instructor’s or Course Coordinator’s Name

Angel Lerma/Arturo Bronson, Louis Everett

# IV. Text Book, Title, Author, and Year

None

# V. Specific Course Information

a. Description: Basic, automated, and advanced manufacturing concepts. Shop demonstration and practices.

b. Prerequisite: MECH 1305: Graphic and Design Fundamentals

c. Required

# VI. Specific Goals for the Course

The primary objective of this class is to introduce the fundamentals of the machining trade. Emphasis is placed on the following topics:

a. Machine shop safety,

b. Blueprint interpretation,

c. Measuring instruments,

d. Hand tools,

e. Machine shop conventional machines,

f. Principles of computer numerical control machines and programming.

This class significantly addresses the following ABET Objectives:

Program Outcomes

C[2]

K[1, 2, 6]