

# MANF142L : Machine Processes

This course will present the theory of machine processes through and lessons covering traditional, manually operated machine tools such as band saws, drill presses, milling machines and lathes. Topics covered are selecting the machine stock, proper squaring a block on a milling machine, basic layout, drilling, tapping reaming, countersinking, counter boring, chamfering, machine set-up, grooving, and threading. Also, students will learn about standard precision measuring tools such as but not limited to micrometers, dial calipers, and Vernier scales with an introduction to gauging, tolerance and dimensioning. Machine tool and shop safety will be covered throughout the course.

**Credits** 3

**Lab Hours** 3

**Class Hours** 2