Machine Shop Safety

Credits: 0 (zero)
Lecture/Lab Ratio: 3/17
Grading: Pass/Fail
Time: Consult instructor
Prerequisites: None
Target Population: JHU Physical Sciences Students, staff, etc

Purpose of Course: This course must be successfully completed to gain access to the Student Machine Shop.

A. Class Description
   An introduction to basic operation of machine shop tools with a strong emphasis on safety.
   Lab time is a "hands-on" experience with manual machines, hand tools and measuring equipment. Students will be exposed to principles of machining various metals and plastics.

B. Physical Requirements
   All tools, measuring equipment and safety glasses will be provided. Proper attire is required.
   No open toed shoes. No loose fitting clothing. Long hair must be tied back and secure.
   Safety glasses must be worn at all times.

C. Requirement for Completion
   Students must demonstrate safe operation of tools and machinery. A project part, to be determined by the instructor, must be successfully completed.

Schedule
Day 1: Viewing safety films, discussion and overview of equipment to be used
Day 2: Saw operation, lathe set-up, measuring tools
Day 3: Lathe operation, milling machine set-up
Day 4: Milling machine operation, tool grinding, threading
Day 5: With time permitting there will be some exploration of students' current interest