

INST-2250-MOTOR AND MOTOR CONTROL 4 CREDITS

SYLLABUS

CATALOG DESCRIPTION

This course offers an introduction to motors, motor controls, position sensors, and pneumatic positioning devices. The principles of AC, DC, and variable frequency motors will be studied. Various start-stop and control circuits will be studied.

Prerequisites: Inst 1550

Semester Offered: Spring/Fall



Course Learning Outcomes

Upon successful completion of the course, the student will be able to...

- 1. Describe the components of electric motors, alternators and generators.
- 2. Wire the proper energy source and connections to a given motor for start, run, direction and speed control.
- 3. Program and troubleshoot 3 phase variable frequency drive motor controls.
- 4. Assemble, disassemble and troubleshoot electromechanical devices, control circuits, sensors and actuators.