

# INT 253: Industrial Robotics Concepts

This course introduces principle concepts and applications of robotics. Topics include the history of robotics, social implications, basic conceptual design, and primary applications. Emphasis is placed on robot classification, safety, associated terminology, robotic applications, understanding the interfacing of electrical control systems necessary for robotic movement and articulation, servomotors, power systems, control systems, end-of-arm tooling, and other fundamentals. Upon completion students should be able to describe the various robot classifications, characteristics, explain system operations of simple robots, and work with robotic systems.

**Credits:** 3

**Lab Hours:** 1

**Lecture Hours:** 2

**Program:** [Industrial Maintenance Technology](#)

**Semester Offered:** Spring