

Course Objectives: ELEC-280 Fundamentals of Robotics

Through reading, lectures, lab projects and problem solving, students will be able to:

1. Gain knowledge of the various components and systems that comprise the typical industrial robot.
2. Gain expertise in the application and operation of robots.
3. Understand the role that electronics plays in the operation, application and function of robots.
4. Analyze various system components & utilize programming techniques to accomplish defined tasks.
5. Select the proper type of robot for each application and adapt the robot chosen through the use of the appropriate fixtures and systems.
6. Understand what a robotic work cell is and how to set one up.