MECHANICAL ENGINEERING (MET)

MET 220. Introduction to Robotics in Automation. 3 Credits.
The course introduces the student to safety working with robots, as well as robot programming, operation, troubleshooting and interfacing with automation equipment. The topics include OSHA guidelines for robotic safety, controllers, program creation, branching, modes of operation, jogging, frames, teach pendants, registers, I/Os, macros, fault recovery, backup & restoration of programs and tooling. Hands-on labs will include creating & testing programs, recording and editing positions, jogging the robot, running in auto mode, backing up programs and files, and part manipulation in a mechatronics system. Prerequisite: PLT 104. Spring.