

AUTOMATION & ROBOTICS (ATR)

ATR 212 Industrial Robots 5/3

This course covers the operation of industrial robots. Topics include the classification of robots, activators, grippers, work envelopes, computer interfaces, overlapping work envelopes, installation, and programming. Upon completion, students should be able to install, program, and troubleshoot industrial robots.

Prerequisite: None

Corequisite: None

ATR 214 Advanced PLCs 6/4

This course introduces the study of high-level programming languages and advanced I/O modules. Topics include advanced programming languages; system networking; computer interfacing; analog and other intelligent I/O modules; and system troubleshooting. Upon completion, students should be able to write and troubleshoot systems using high-level languages and complex I/O modules.

Prerequisite: Take ELN 260;

Corequisite: None