2022-2023 TTC Catalog - Automated Manufacturing Technology (AMT)

AMT 105 - Robotics and Automated Control I

Lec: 2.5 **Lab:** 1.5 **Credit:** 3.0

Course Offered

Summer

This course includes assembling, testing, and repairing equipment used in automation. Concentration is on connecting, testing and evaluating automated control systems. Industrial robot systems will be explored.

Grade Type: Letter Grade

Division: Engineering and Construction

AMT 205 - Robotics and Automated Control II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course covers installation, testing, troubleshooting, and repairing of automated systems. Sensors, servo motors, stepper motors, robot programming and robot maintenance will be covered.

Prerequisite

AMT 105

Grade Type: Letter Grade

Division: Engineering and Construction

AMT 209 - Automation Networks-Ethernet

Lec: 2.5 **Lab:** 1.5 **Credit:** 3.0

Course Offered

Fall

This course provides a study and implementation of Ethernet transmission protocol in automation networks. It includes PLC interfacing to Ethernet cabling and Ethernet

capable instrumentation. Additional topics include the OSI model and distributed BUS networking.

Prerequisite

EIT 244

or

EEM 252

Grade Type: Letter Grade

Division: Engineering and Construction