

# 2024-2025 TTC Catalog - Automated Manufacturing Technology (AMT)

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## **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

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## **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

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## **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

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