

MANUFACTURING SYSTEMS TECHNOLOGY (MST)

MST 150 (9 credit hours)

Multi-Skilled Systems Technician

Introduces the systems approach to the operation of electrical components and the relationship of voltage, current, resistance, and power in industrial systems. Provides an overview of alternating and direct current fundamentals. Introduces the systems approach to the operation of mechanical components and the relationship of their application in industrial systems. Provides an overview of rotating machinery fundamentals. Introduces the systems approach to the operation of hydraulic / pneumatic components and the relationship of their application in industrial systems. Provides an overview of digital fundamentals. Lecture/Lab: 9.0 credits (180 contact hours).

Attributes: Technical

Components: LEC: Lecture

MST 200 (3 credit hours)

Advanced Hydraulic Systems

The advanced hydraulic systems class will cover design, repair, and troubleshooting of hydraulic systems. Lecture: 3 credits (45 contact hours).

Pre-requisite: FPX 100, FPX 101.

Attributes: Technical

Components: LEC: Lecture

MST 201 (2 credit hours)

Advanced Hydraulic Systems Lab

The advanced hydraulic systems lab will cover design, repair, and troubleshooting of hydraulic systems. Laboratory: 2 credits (90 contact hours).

Pre-requisite: FPX 100, FPX 101.

Attributes: Technical

Components: LAB: Laboratory

MST 204 (3 credit hours)

Advanced Pneumatic Systems

Design, repair, and troubleshooting of pneumatic systems will be covered in this course. Lecture: 3 credits (45 contact hours).

Pre-requisite: FPX 100, FPX 101.

Attributes: Technical

Components: LEC: Lecture

MST 205 (2 credit hours)

Advanced Pneumatic Systems Lab

Component repair and system troubleshooting will be covered in this lab.

Pre-requisite: FPX 100, FPX 101

Attributes: Technical

Components: LAB: Laboratory

MST 206 (3 credit hours)

Electrohydraulics

Introduces electronic/electrical controls as it pertains to hydraulic valve control with the emphasis on automation, robotic and servo control.

Lecture: 3 credits (45 contact hours).

Pre-requisite: (ENGT 110 and FPX 100) or Consent of Instructor.

Co-requisite: MST 207.

Attributes: Technical

Components: LEC: Lecture

MST 207 (2 credit hours)

Electrohydraulics Lab

Introduces electronic/electrical controls as it pertains to hydraulic valve control with the emphasis on automation, robotic and servo control.

Laboratory: 2 credits (90 contact hours).

Pre-requisite: (ENGT 111 and ENGT 113 and FPX 101) or Consent of Instructor.

Co-requisite: MST 206.

Attributes: Technical

Components: LAB: Laboratory