

ELECTRONICS LECTURE/LAB (ETMC)

ETMC 1010 Mechanical Measurement

Credit Hours: 1

This course provides the basic foundation for mechanical measurement techniques used in manufacturing environments. The course will integrate the concepts, principles, and techniques of mechanical measurement with the use of various types of instruments including micrometers, verniers, calipers, gauges, and other types of measuring equipment.

ETMC 2315 Hydraulics and Pneumatics

Credit Hours: 3

Prerequisites: EETC 1025 Circuit Fundamentals with a "C" or higher

This course introduces the principles of hydraulic and pneumatic systems and how they operate in manufacturing applications. Lab exercises include the set up of various fluid circuits and an analysis of how they respond to pressure, temperature, and constraints.

ETMC 2318 Aerospace Fluid Systems

Credit Hours: 3

Lab Fee: Yes

This course includes a familiarization of fluid system components, characteristics, and applications. Cryogenic and hypergolic materials and high-pressure systems are also covered.