

ENGINEERING TECHNOLOGY: MECHANICAL (ETM)

ETM1010C MEASUREMENT AND INSTRUMENTATION (3.00 Credits)

This course provides the basic foundation for both mechanical and electronic 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, gages, and other types of measuring equipment. The course will also introduce the student to the basic measurement techniques employing electronic test equipment including the operation and usage of digital multimeters, function generators, and oscilloscopes.

Total Contact Hrs: 64.00

Lecture Hrs: 48.00

Lab Hrs: 16.00

ETM2315C HYDRAULICS AND PNEUMATICS (3.00 Credits)

This course is an introduction and provides students with employable skills and techniques needed to work with Fluid power systems. Principles of fluid power technology and system theory is covered in a lecture format and application of component function and circuit operation is covered using pneumatic trainers, Labs consist of a demonstration and set-up of various Pneumatic circuits detailing their placement and function in fluid power systems.

Total Contact Hrs: 64.00

Lecture Hrs: 48.00

Lab Hrs: 16.00