

EML 3523C - EXPERIMENTAL METHODOLOGY
Common Course Syllabus

Catalog Data: 3 Credits, Study of typical measuring systems. Solutions of engineering problems by experimental means, to include analysis of experimental data. Two hours lecture, 3 hours lab.

Goals:

1. To provide a fundamental background for the design of measurement systems.
2. To establish the fundamental principles and provide the prevailing engineering practice for the measurement of important physical variables in engineering applications.

Prerequisites:

1. Electro-Mechanical Devices EGM 4045

Pre/Corequisites:

1. Dynamics EGN 3321 or equivalent
2. Fluid Mechanics EML 3701
3. Probability and Statistics for Engineers STA 4032

Topics:

1. Basic Concepts of Measurement Methods (2 classes)

Design Content:

This course has no requirement for design content.

Laboratory Content:

1. Technical Writing.
2. Automated Data Acquisition and Data Processing.

Updated 10/24