1. MEEG 216 MECHANICS OF SOLIDS LABORATORY

2. Credits 1 Contact Hours 1

3. Spring 2014 Dr. David Burris, Ph.D.; Office 210 Spencer Laboratory

4. Textbook N/A

   Other Supplemental Materials: “Guide to Analysis and Communication of technical information; Mechanical Engineering, University of Delaware

5. Specific course information

   a. Catalog Description: Analytical study of stresses and deformations and their application to the design of machine and structural elements under axial, torsional, bending and lateral loads are discussed.

   b. Prerequisite: MEEG 112

   c. Course is required.

6. Specific goals for the course

   a. Specific Outcomes of Instruction: This course: 1) introduces students to experimental solid mechanics; 2) teaches students how to analyze experimental data; 3) teaches students the best practices of technical communication.

   b. Student Outcomes Addressed:
   no outcomes are directly assessed/evaluated in freshmen or sophomore level courses.
7. Brief list of topics to be covered

- Instrument calibration
- Stress and strength
- Strains and the elastic response
- Bending
- Torsion
- Statistical analysis
- Technical communication