

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