Instructor: Dr. Martin Feldman  
213 Electrical Engineering Building  
Phone: 388 5489  
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Office Hours: 9:00 to 10:00, M-F, and by appointment.

TA: H. Venkata, hari@ee.lsu.edu, 10:30-12:30, M and W.

Textbook: None


Reference Materials: Notes and materials provided by the instructor.

Goals: This course covers the design methods and theoretical principles needed to understand and design instrumentation and measurement systems. Students will become familiar with data analysis, sensors (including photonic and microsensors), integrated circuits, data acquisition systems, digital interfaces, and signal processing. In addition, students will complete projects demonstrating their ability to design and construct relatively complex instrumentation. Projects include TV microscope measurements, Transistor curve checker, Digital stage, and Touch screen. Added material on fiber optics, switches and relays, thermal flow.

ABET Category: One hour engineering science and two hours engineering design.

Prerequisites: EE 3220 and EE 3221.

Grades: The final grade will be based on the midterm exam (20%), the final exam (40%) and homework assignments, including the term project (40%).

Students are encouraged to visit the instructor and the TA.