PH1161 Introduction to Experimental Physics I ... (0-0-2) f ... 1 Cr

Course Description:
A laboratory complement to PH1160. Experiments covering kinematics, force, conservation of momentum, conservation of energy, waves, and thermodynamics are explored through guided construction. The course emphasizes understanding physical concepts through inquiry and the scientific method.

This course is a corequisite for PH1160
This course is a prerequisite for PH2261.
This course is an alternate prerequisite for PH1200.

Lab Fee: $100

Course first offered Fall, 2003. It replaces PH1100H.

Typical Syllabus:
Constant Motion
Changing Motion
Error Analysis
Matlab - D-V-A relationships and error analysis
Newtons 2nd and 3rd laws
Energy
Momentum
Matlab - collisions in 2-D
Springs and Pendula
Rotational Motion
Tour of Faculty lab
Matlab - Universal Gravitation and Gravitational Potential