

Physics 135/163: Semester I Physics Lab

Content of the Course

This laboratory course will cover topics pertaining to elementary mechanics. Goal: to witness some of the laws and equations of physics "in action." In this course, we will not be "verifying" these laws; they've been tested for hundreds of years and seem pretty sound. Instead, we will concentrate on making connections between what you observe in the lab and the theoretical concepts and equations discussed in lecture and in the textbook.

This separately graded course will, in some ways, parallel the material covered in lecture, but the 2 courses are not closely tied together. Sometimes you will encounter concepts in the laboratory course first, and other times, it will be the other way around. Occasionally, you may even perform an experiment related to material that is not covered in the lecture class.

Prerequisites:

For Physics 135: concurrent enrollment in Physics 125.

For Physics 163: concurrent enrollment in Physics 153.

Summer 2016 Schedule of Laboratory Topics

July 5	Significant Figures AND Introduction to Computational Analysis
July 7	Acceleration in Freefall AND Virtual Physics Labs (Cannonball)
July 12	Vector Addition/Force Table
July 14	Projectile Motion AND Atwood's Machine
July 19	Lab Quiz #1 (see study guide on website)
July 21	Collisions in 1-D
July 26	Moment of Inertia
July 28	Conservation of Angular Momentum
Aug 2	Standing Waves
Aug 4	Lab Quiz #2 (see study guide on website)