

Physics 135/Physics 163: Semester I Physics Lab

Content of the Course

This laboratory course covers topics in 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.

Prerequisites:

For Physics 135: concurrent enrollment in Physics 125.

For Physics 163: concurrent enrollment in Physics 153.

Fall 2016 Schedule of Laboratory Topics

Week of September 5	No Labs
Week of September 12	Significant Figures AND Introduction to Computational Analysis
Week of September 19	Acceleration in Freefall AND Cannonball Computer Simulation
Week of September 26	Vector Addition/Force Table
Week of October 3	Projectile Motion AND Atwood's Machine
Week of October 10	Lab Quiz #1 (see study guide on website)
Week of October 17	No Labs
Week of October 24	No Labs
Week of October 31	Collisions in 1-D
Week of November 7	Moment of Inertia
Week of November 14	Conservation of Angular Momentum
Week of November 21	No Labs (Thanksgiving)
Week of November 28	Standing Waves
Week of December 5	Lab Quiz #2 (see study guide on website)
Week of December 12	No Labs