

Physics 136/164: Semester II Physics Lab

Content of the Course

This laboratory course will cover topics pertaining to electricity, magnetism, and optics. 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 136: Physics 125 or equivalent, with lab, & concurrent enrollment in Physics 126.

For Physics 164: Physics 153 or equivalent, with lab, & concurrent enrollment in Physics 154.

Fall 2016 Schedule of Laboratory Topics

Week of September 5	No Labs
Week of September 12	Electric Field and Electric Potential
Week of September 19	DC Circuits 1
Week of September 26	Polarized Light
Week of October 3	DC Circuits 2
Week of October 10	Lab Quiz #1 (see study guide on website)
Week of October 17	No lab (PLU fall break this week)
Week of October 24	Electromagnetic Induction
Week of October 31	Geometric Optics
Week of November 7	Thin Lenses
Week of November 14	Diffraction and Interference of Light
Week of November 21	No labs (Thanksgiving break)
Week of November 28	Atomic Spectra
Week of December 5	Lab Quiz #2 (see study guide on website)
Week of December 12	No lab - Final exam week