

PHY222 General Physics Laboratory II (Fall 2008)

Introduction

The purpose of this course is to provide students with intuition about elementary subjects of general physics. The relevant subjects are covered in the PHY212 lecture course. It may happen that the experiments will be done ahead of the lecture, or go beyond the scope of the lecture. Therefore, the students are urged to read the theory part of the experimental manual and consult with the textbook if necessary. Since the laboratory time is limited, it is crucial that the students come prepared to the lab. Pre-lab exercises should be done at home. They will be collected by the instructor at the beginning of each laboratory session and graded (2 points) with the report (8 points).

The reports must be completed and submitted during the class. Report sheets are included in the experimental manual. Students may work together on collecting the data, but each student should answer questions in the report sheets **independently**. Sometimes the student may find it difficult to complete all the measurements and answer all the questions. It is more important to present all the completed measurements clearly rather than to complete all the measurement. **When making graphs it is important to label axes and indicate units.**

Each report will be graded separately and will be based on the pre-lab homework exercises and the report sheets filled in during the class. Your lab reports are graded not by your lab instructor but by a separate hard-to-please grader so do a careful job. Your lab instructor will work with you to meet the high demands of the grader.

Students must sign in at each lab. Labs can be made up only in the same week at another regular section, i.e. on Monday through Thursday, see times below. It is recommended to consult with the instructor of the other section prior to the make-up lab. Be certain to put not just your name but the name and section of your regular instructor.

As this is a laboratory course, participation in the labs is critical. Typically missing two or more labs results in a F. Grade will be based on 8 points for each lab report, 2 points for each prelab for a total of 110 possible points for the 11 labs, plus a 10 point overall participation and in the lab performance grade, plus 20 points for midterm and 20 points for final resulting in a total possible 160 points. Letters grades will be assigned based on a scaling of the earned points, e.g. typically >90% is an A.

Course Fee

To support the laboratory and related lecture demonstrations in the co-requisite course, PHY212, you have been charged a course fee of \$40. This fee helps pay for (i) laboratory manuals and other handouts, (ii) supplies, small pieces of apparatus, and maintenance for the laboratory equipment, (iii) supplies and small pieces of apparatus for lecture demonstrations, and (iv) undergraduate students working in the student and demonstration laboratories.

PHY222 Lab Schedule (Fall 2008)

Week of:

Experiment:

Number Title

This year Laboratories start the first week of school!!!

Aug 25-28 You should receive an electronic copy of the first lab today. Paper copies will be available by 8:30 am Aug. 22th from outside room 111 physics, assignment due at beginning of first lab.

	I	Electric Charges
Sept 2-4, 8 (Mon)	II	Electrostatic Fields
Sept 9-11, 29	III	Electrostatic Fields (continuation)
Sept 15-18	IV	Ohm's Law
Sept 22-25	V	DC Circuits
Oct 1,2,6,7	VI	RC Circuits
Oct 13-17		45 min in the lab mid-term lab exam
Oct 20-23	VII	Magnetic Fields
Oct 27-30 Fields	VIII	Motion of Electrons in Electric and Magnetic
Nov 3-6	IX	Ampere's Law
Nov 10-13	X	Faraday's Law
Nov 17-20	XI	Interference and Diffraction of Light
Nov 26-28		Thanksgiving Break
Dec 1-5		45 min in the lab final lab exam

Lab sessions are at the following times:

M	10:35 AM-12:35 PM	12:45-2:45 PM	3:45-5:45 PM	6:00-8:00 PM
TU	11:00 AM-1:00 PM	2:00-4:00 PM	5:00-7:00 PM	7:00-9:00 PM
W	12:45-2:45 PM	3:45-5:45 PM	6:00-8:00 PM	
TH	11:00 AM-1:00 PM	2:00-4:00 PM	5:00-7:00 PM	

Because most labs are full and to facilitate the return of graded lab reports and tests, it is important to go as much as possible to your assigned session. If you do go to an unassigned session it is your responsibility to track down your returned lab. Please keep all returned labs until after grades are finalized at the end of the semester.

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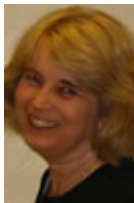
Lab Supervisor:



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Undergraduate Physics Office



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Academic Integrity

The Syracuse University Academic Integrity Policy holds students accountable for the integrity of the work they submit. Students should be familiar with the Policy and know that it is their responsibility to learn about instructor and general academic expectations with regard to proper citation of sources in written work. The work reported in a laboratory must be your own. The policy also governs the integrity of work submitted in exams and assignments as well as the veracity of signatures on attendance sheets and other verifications of participation in class activities. Serious sanctions can result from academic dishonesty of any sort.

For more information and the complete policy, see <http://academicintegrity.syr.edu>

Disability Services

Students who may need academic accommodations due to a disability are encouraged to discuss their needs with the instructor at the beginning of the semester. In order to obtain authorized accommodations, students should be registered with the Office of Disability Services (ODS), 804 University Avenue, Room 309, 315-443-4498 and have an updated accommodation letter for the instructor. Accommodations and related support services such as exam administration are not provided retroactively and must be requested in advance."

For more information about services and policy, see Office of Disability Services.