Physics 222 Recitation and Laboratory

Section 003:
- Recitation: Nielsen 306, Friday 8:00-8:50 AM
- Laboratory: Nielsen 510, Friday 9:05-11:00 PM

Lab Instructor: Rachel Wooten
Office: South College 310
Email: rwooten1@utk.edu
Office Hours: Monday 11:30-12:30 PM South College 310
Thursday 11:15-12:15 PM in the Tutoring Lounge, Physics 203
Or, by appointment

Grading Policy: Laboratory Reports will make up 80% of the grade. The remaining 20% will be attendance and occasional quizzes. The grading scale? A = 90-100, B = 80-89, C = 70-79, D = 60-69, F = 0-59.

Laboratory Manual: Selected Introductory Physics Experiments by James E. Parks and is available at the UT Book and Supply Store. The lab manual must be brought to class every time, along with a calculator.

Recitation: For the recitation, we will review challenging topics and problems. Requests are always welcome since this class is all about you. So, if there’s a concept or type of problem you find challenging, just tell me.

Laboratory: I will be taking attendance this semester, but if you have a real, excused absence, then I’ll let you make up the lab you’ve missed by writing a report on the subject covered in lab. You’ll have to turn the makeup lab report at the same time as everyone else (i.e. the next lab session.) Email me about it.

Lateness: Sorry, but I won’t accept late papers. Please turn them in either directly to me or put them in my mailbox just off the main office.

Before each class: I expect you to have done the following before each recitation/lab:
1) Read the chapters associated with that week’s lectures AND with the material covered in the lab manual.
2) Read the experiment in the lab manual.
After completing each lab, you must make sure all equipment has been turned off before you leave. Following each experiment, you will be expected to turn in a lab report describing your findings. No Food or Drink in the Lab!

* Students with disabilities that require accommodation(s) should make an appointment with the Office of Disability Services (947-6087) to discuss their specific needs.
* If you are pregnant, you need to talk to me since we will be performing an experiment later in the semester that uses a radioactive source.

About Laboratory Reports
You will be expected to turn in a typed lab report with your findings at the beginning of the next recitation section meeting.

The University Honors Statement will be strictly adhered to: http://diglib.lib.utk.edu/dlc/catalog/images/u/2006/u_app.pdf
HOW TO WRITE A GOOD LABORATORY REPORT

The goal of every lab report is to describe your experiment and results so that another scientist can read and understand the purpose, procedure, and conclusions of your experiment as well as why you performed it in the first place. As such, your writing should be clear and concise! Use complete sentences. As part of the scientific writing style, you should avoid the use of the first person, I, we, he, she, us, etc. You should include the following categories in your lab report:

1) **Cover Page:** Include lab title, your name first, your partner names next, lab section and time, lastly date of actual lab. If you would rather save paper, you may include this information at the top of your first page instead of providing a separate title page.

2) **Purpose:** Explain why you did the lab. What are you testing for?

3) **Theory:** Define concepts used in the lab. Include the major equations and explain them briefly. Hand-write them in pen if the typed equations look ugly or are unreadable.

4) **Procedure:** Briefly describe how you performed the lab in your own words.

5) **Data:** Include data tables and graphs completed during the lab or during the process of analyzing your data at home. Graphs need titles and labeled axes. Use Excel!

6) **Results:** Show calculations in detail (work out every step). If the same calculation is done many times, just show all the steps the first time, and list results for each additional calculation.

7) **Conclusions:** Highlight the main points of the lab. What did you learn? What is the significance of collected data, error results, and graphs? This section should be distinctly different from the Purpose section.

8) **Questions:** Answer the lab questions. Type the actual question from the lab manual in your report, then answer said question.

A good lab report should be about 2-3 single-spaced, one-sided pages in length, not including the cover page. Though you will be working in groups to complete the labs, every student will write a lab report. Reports that are identical, have sections copied and pasted, or have every fifth word changed so it doesn’t look like copying (but still is) will receive ZERO CREDIT. DO YOUR OWN WORK! Be sure your name is at the top of each page of your report. Make sure to include all graphs, tables and calculations in your report. Don’t forget to staple your report!

Good luck this semester! See you on Fridays!

(Thanks to Tony Wald for the use of his syllabus in designing this one)