Physics 222 Recitation and Lab
Section 222013, Spring 2007
Recitation: Nielson 203, Friday 10:10 – 11:00
Lab: Nielson 510, 11:15 – 1:10

TA: Kyle Schmitt
Email: kschmit1@utk.edu
Phone: (724)372-1295
Office Hours
After lab or Monday 2:20 – 3:30 in Nielson 201 or 203

Texts: Selected Introductory Physics Experiments, James E. Parks
College Physics, Serway/Faughn

Course Philosophy: The second semester of physics covers material that is conceptually more challenging than the first semester, and the best way to learn will be to spend time with the material, talking about examples and doing problems. My expectations of you are effort and general courtesy. Show up on time and be prepared.

Recitation: The purpose of recitation is to help you. Just like anything else in education, you’ll get from it as much as you put into it. Bring questions and problems. I recommend you bring your text book and a calculator. We’ll go through extra examples and review what Dr. Levin has done in lecture. There will be a quiz each week.

Lab: We will be performing labs according to the schedule at http://www.phys.utk.edu/labs/ph222syl.pdf. Each student is responsible for their own lab report adhering to the guidelines that follow, and each must be uniquely their own. Lab reports are an important part of “doing” science. They should be coherent, neat, concise, and typed. I recommend you work with your partner and do the lab report as soon after the lab as possible. You’ll be surprised what you forget in a week. Lab reports are due at the beginning of the following lab. Late lab reports will be penalized 1 point out of 10 for each day they are late.

Grading Policy: Lab reports are worth 60%, quizzes are worth 30%, and participation points fill the final 10%. Your lab grade is the sum of these portions. Come see me if you have questions about your grades. Scores for returned graded work will be final after one week.

Housekeeping: Please make sure you mute your cell phones etc. No food or drink is allowed in the lab. Please try to leave the lab in better condition than you found it (turn off equipment etc). You may only make up one lab and quiz, and only if you let me know you will be absent ahead of time and provide a legitimate excuse by my estimation. All labs and quizzes not made up will result in a zero for that lab or quiz. If you have any questions, concerns, or problems, feel free to contact me.
Students who have a disability that requires accommodation(s) should make an appointment with the Office of Disability Services (947-6087) to discuss their specific needs.

The University Honor Statement will be strictly adhered to: http://diglib.lib.utk.edu/dlc/catalog/images/u/2006/u_app.pdf

**Lab Reports**

Lab reports should be written in narrative form (no I’s, we’s, he’s, she’s, etc) and have the following elements in some coherent arrangement:

1. **Cover Page:** This is a separate page that includes the title of the lab, lab section and time, date, and your name followed by the names of your partners.

2. **Purpose/Theory:** Explain the purpose of the lab. What did you set out to do? Present the physical concepts demonstrated in the lab. Include relevant equations etc. I recommend you use Equation Editor. You may neatly write in equations by hand if necessary. Usually there are two or three really important equations that you need to have in there. You usually don’t need to give me every equation that Parks gives. If you do this right, I think you can learn a lot writing this section.

3. **Procedure:** Describe what you did in your own words. Don’t copy the lab book verbatim. This should only be a few sentences summarizing what you did.

4. **Data:** Include data tables and graphs, in the text with your report. Label the axes in your graphs and give titles to the graphs and tables. Don’t assume that the reader knows what you’re doing.

5. **Results/Conclusions:** Give your results, including percent error where necessary. Explain what your results show and/or what you learned. What is the significance of your graphs, tables, error, etc? If you have percent error, explain what problems with the experiment might have caused the error.

6. **Questions:** Answer the questions I give you.

Make sure your pages are numbered (not including the title page). I recommend single spacing and a normal, 12 point font. Also be sure to staple your lab reports. If you have any questions, please ask. I don’t think lab reports should represent an overwhelming work load. The first couple might take a while because you’re trying to figure out what I’m looking for, but after that no one should spend more than two hours on their lab report each week. If you’re spending more time than that, I’d be happy to help you find a way to do them quicker if you come to me.

All policies are subject to exceptions and changes at my discretion.