PHYSICS 221 RECITATION AND LABORATORY  
Summer 2005  
RECITATION:  NIELSEN 608 FROM 2:15 – 3:15 TUESDAY/THURSDAY  
LABORATORY:  NIELSEN 508 FROM 3:30 – 5:45 TUESDAY/THURSDAY  

Instructor: Tony Wald  
e-mail: awald@utk.edu  
Office Hours: TBA  

Grading Policy:  Laboratory Reports are 80% of the lab grade. Quizzes are worth 20% of the grade. Grading scale:  A = 100 – 90, B = 89 – 80, C = 79 – 70, D = 69 – 60, F = 59 – 0.  

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 every class period.  

Laboratory Schedule:  http://www.phys.utk.edu/labs/ph221syl.pdf  

RECITATION:  There will be a short quiz worth 10 points every week. You will be expected to bring your textbook, and a calculator to every recitation class. Active class participation is essential to learning and understanding the material, so individual effort will be emphasized, both in working and in presenting solutions.  

LABORATORY:  Only ONE lab can be made up during the semester and you must notify me before class time if you know you will miss class. You must have a legitimate, official excuse (university function, Doctor’s note) to miss a lab. Any lab missed and not made up will result in the loss of a letter grade for the lab course. This also holds for Recitation. Your work schedule is NOT an acceptable excuse to miss class! Before each lab/recitation I expect you to have done the following:  
   1) Read necessary material from the text regarding topics to be covered in lab.  
   2) Read about the experiment in the lab manual; this is important since the information will most likely be on the recitation quiz.  
   3) Do the pre-class assignment, if there is one.  

After completing each lab, you must make sure all equipment has been turned off before you leave. When turning in completed labs, make sure you include all graphs, tables, and calculations. In addition, make sure you STAPLE your lab report. Reports not stapled will receive an automatic deduction of 10%. NO FOOD OR DRINK IN THE LAB. Lab grades will be posted on the door of Room 508 after the second and ninth labs.  

Laboratory Reports:  Must be TYPED and are due at the beginning of the next lab session. Lab reports not typed or given to me by e-mail will not receive a zero. LATE REPORTS WILL NOT BE ACCEPTED.  

The Physics Tutor Center: TBA
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 Honors Statement will be strictly adhered to: http://diglib.lib.utk.edu/dlc/catalog/images/u/2004/u_app.pdf

**HOW TO WRITE A LABORATORY REPORT**

There are several items that comprise good technique for writing reports. By following these simple rules your laboratory report will be clear and concise (always the goal in any writing project!). Below are the major categories you need to incorporate in the report:

1) **Cover Page:** Include lab title, your name, your partners’ names, lab section and time, date.

2) **Purpose:** Explain why you did the lab.

3) **Theory:** Define concepts used in the lab. Include equations and the importance of said equations. Use Equation Editor!

4) **Procedure:** Briefly *but comprehensively* discuss how you proceeded to perform the lab.

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 then 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 and graphs? What are the possible errors in your data? 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.

Use complete sentences when typing your reports. Always use your own words when writing your reports. Though you will be working in groups to complete the labs, **every student will write a lab report.** Lab reports should usually be four or five pages, single-spaced, not counting graphs and tables. Reports that are identical or have sections “copied and pasted” will receive ZERO CREDIT. **DO NOT JUST COPY OUT OF THE LAB MANUAL! DO YOUR OWN WORK!** Be sure to have your name at the top of each page of your report.

This syllabus is subject to change and students are responsible for said changes.