Syllabus for Physics 221 Laboratory – Spring 2008

INSTRUCTOR   Maria Gabriela Oliveros (Mago)
OFFICE HOURS  Tutorial Center (Nielsen 201 - 203)
E-MAIL       molivero@utk.edu
TEXT BOOK    Selected Introductory Physics Experiments by Dr. James E. Parks
RECITATION   2:30pm – 3:20pm
LABORATORY   3:35pm – 5:30pm

GENERAL INSTRUCTIONS
1. Purpose of the Lab: it is to provide you with some direct experience with the concepts that you will learn in the lecture portions of the course. In addition, you will be exposed to the techniques that are used to obtain and analyze the experimental data, which are used to construct or test physical theories.
2. Laboratory Assignment: you are expected to read the experiment before coming to the lab session. Generally, you will work in pairs performing experiments; however, both partners will collaborate in filling out the data sheet. At the end of the lab, the data sheets can be printed out and attached to the reports that must be written INDIVIDUALLY. Reports are due at the beginning of the following lab. The Schedule of experiments is online.
3. Lab Reports:
   • Heading: Title, Name (yours first and partner second), Date experiment completed
   • Introduction: a clear statement of the scientific objective.
   • Theory: the theory behind the experiment and the equations used with all the variables and units.
   • Procedure
   • Experiment Results: present all raw data (series of measurement taken in the lab).
   • Results: present the results of all calculations (Tables and Graph).
   • Conclusion: MOST IMPORTANT PART: What did you LEARN in this lab? and argue the significance of your results and sources of error.
   • Questions: at the end of each experiment, there will be a set of 5 or more questions.
4. Grading: almost in all the recitation, there will be a quiz (over chapters that you cover in class). There will be 12 lab reports; they will be graded equally, (Quiz 20% Reports 80%)
5. Attendance: an excused lab can usually be made up sometime during the same week, but an unexcused lab counts zero unless it is made up for at the end of the semester. No more that one lab may be made up. Please notify me in advance. DON'T BE LATE for recitation or lab.
6. Policies:
   • Students with disabilities: should contact me as soon as possible in order to make necessary accommodations.
   • Cell phones and pagers: must be TURNED OFF during the class period (if not, I will make you sing something in the middle of lab)
   • Copying or sharing lab reports the first time the grade will be share with the number of students that “share the report” and the second time (if they are the same students) it will be a zero automatically.

***GOOD LUCK***