Syllabus for Physics 231 Laboratory - Fall 2007

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
LABORATORY    4:40pm - 6:35pm

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 (short and in your own
     words)
   • Theory: 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?
     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. 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 lab.

5. Grading: 12 lab reports, they will be graded equally.

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***