Syllabus for PHYS222
Laboratory Physics for Science and Engineering
Spring 2010

Laboratory Location: Room 103B Lewis Hall

Professor – Rob Kroeger – Instructor of record and final arbiter of grades.
Office/phone/email: 206 Lewis Hall/ 915-7921 /kroeger @phy.olemiss.edu
Office hours: MWF 11:00-11:50

Teaching Assistant- Sumudu Tennakoon
Office/email: Room 104 Lewis Hall / sptennak@olemiss.edu
Office hours: See tutoring schedule
Website: http://www.phy.olemiss.edu/~sptennak/

Text/Lab notebook – Halliday, Resnick and Walker / A lab notebook is required.

Corequisite – PHYS212 is required

Lab Physicist – Thomas Jamerson

Goals: In this course you will perform experiments that complement the concepts studied in the corequisite lecture course, PHYS 212. You will learn laboratory skills and gain an understanding of laboratory measurements and their uncertainties. As in most physics classes, critical thinking, analytical reasoning and problem solving skills will be emphasized.

Grading Scale: A’s: 90-100; B’s: 80-89, C’s: 70-79, etc.

Grades will be based on quizzes, lab reports and lab final:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab Quizzes</td>
<td>20%</td>
</tr>
<tr>
<td>Lab reports</td>
<td>70%</td>
</tr>
<tr>
<td>Lab Final</td>
<td>10%</td>
</tr>
</tbody>
</table>

Lab attendance: Attendance is mandatory. You will be allowed one drop grade (i.e., one lab report and one lab quiz). If you have to miss a lab for any reason - that will be your drop grade. A zero grade will be assigned for all other unexcused absences.

Makeup labs only for the following reasons: If you have to miss more than one experiment for either: 1) a university sanctioned event (for which you must get prior approval from professor or laboratory physicist beforehand) or 2) unforeseen circumstances. There will be no makeup labs without a doctor’s excuse, a university excuse or your professor’s written excuse.

Pre-lab Quizzes: A quiz will also be given at the beginning of lab. If you arrive late for lab, you will not receive any extra time. Pre-labs, experiment procedures and tutoring times can be found at

http://relativity.phy.olemiss.edu/~thomas/

Lab report rules:
1) Lab reports are due as per instructions given in lab
2) All recorded data should have units and a reasonable number of significant figures.
3) See separate lab report format for how to write your report.