Class Meeting Information: January 13 – April 28, 2011  
2:00 – 3:50 (no lab March 17)  
Sciences Complex 145

Textbook: Laboratory Manual for Physics II, Drs. Ira Hawk and Joe Crane, August 2010, Cameron University.

Learning Objectives:
- Reinforce methods learned in lecture through guided experimentation
- Assemble experimental setups using basic laboratory equipment to conduct simple procedures
- Evaluate the significance of data acquired through experimentation
- Manage data manipulation and submission in a timely fashion
- Become familiar with basic laboratory equipment and its appropriate use in terms of safety and precision

Grading Scheme:

<table>
<thead>
<tr>
<th>Item</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 Laboratory Reports</td>
<td>210</td>
</tr>
<tr>
<td>Final Exam</td>
<td>15</td>
</tr>
</tbody>
</table>

Lab Reports:
Details of lab reports are described on the back of this page. Lab reports at the start of the lab period following completion of the experiment. Reports turned in after that time will receive a 25% penalty for up to one week. Lab reports more than one week late will receive no credit.

Attendance:
Participation in a laboratory requires attendance. No lab work will be counted for labs for which you are absent. The only other Physics II lab section meets on Tuesdays and does our experiment prior to our meeting. Thus makeups are not a viable option unless you know in advance you will be missing a lab.

Accommodations:
It is the policy of Cameron University to accommodate students with disabilities, pursuant to federal and state law. Students with disabilities who need classroom accommodations must make their requests by contacting the Office of Student Development at (580) 581-2209, North Shepler Room 314.

Further administrative information:
A document detailing important University information may be found by going to http://www.cameron.edu/academic_affairs and clicking on the Spring 2011 16 week link under Syllabus Attachments on the lower right-hand side of the page.

Instructor Information:
Instructor: Dr. Gary S. Buckley  
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Description of Graded Components:

Laboratory Reports

Components of Lab Reports:
1. **Title page** (having this information at the top of the first page is sufficient) – includes name, name of partner, the experiment number and title, and the date the experiment.
2. **Data sheets (if any)** – these are often in the lab book and used to record data as you work. Write neatly and you can tear these out to include in the report.
3. **Graphs (if any required)** – computer-generated graphs properly labeled that include your name printed.
4. **Calculations** – a sample calculation of each calculation conducted for the experiment.
5. **Summary** – the summary should include at least:
   a. a discussion of what your results tell you
   b. how your results compare to expectations from the theories learned in class
   c. sources of error – these do not include “human error”, but could include instrumentation, experimental design, precision, etc.
   d. suggestions for improving upon the results of the experiment.

Lab reports will be typed. If you have trouble putting equations into a word processor, you may write those in. However, since you may likely run into the need to enter equations into documents in the future, I would be happy to show you how to use the equation writer in Microsoft Word if you would like.

Scoring rubric for Laboratory Work:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points (possible)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attendance</td>
<td>5</td>
</tr>
<tr>
<td>Submission of lab report</td>
<td>1</td>
</tr>
<tr>
<td>Title page intact</td>
<td>1</td>
</tr>
<tr>
<td>Data sheets: legible, complete, accurate recording of results, units included</td>
<td>1</td>
</tr>
<tr>
<td>Graphs: computer-generated, title included, your name printed, convenient axes</td>
<td>1</td>
</tr>
<tr>
<td>Calculations: sample of each calculation, properly carried out, units included</td>
<td>1</td>
</tr>
<tr>
<td>Summary: includes discussion of results, comparison to expectations, sources of error, suggestions for improvement</td>
<td>5</td>
</tr>
</tbody>
</table>

**Final Exam:** The final exam may be a combination of a practical skills test and a written component.

Blackboard Access:
I will run a Blackboard site for this course. Through that venue I may occasionally send announcements, post course documents, or a variety of other things. You may access your running grades at anytime by going to the Blackboard site and hitting MyGrades in the upper-left hand corner.

Instructions for accessing Blackboard:

- Access Blackboard by either:
  - Typing in the URL [http://blackboard.cameron.edu](http://blackboard.cameron.edu) OR
  - Go to the Cameron home page at [http://www.cameron.edu](http://www.cameron.edu) and clicking on the Blackboard button beneath the picture
- Your Username is (first initial)(last initial)(CU 6-digit ID number)
- Your Password is (first initial)(last initial)(last five digits of SSN)
- Once in Blackboard, click on the **Physics II Lab – 2:00 – 3:50 pm R – SP 11** course to open it up

Please contact me at gbuckley@cameron.edu or 580-581-2885 if you have questions.