Instructor: Elton Freeman

e-mail: efreema4@utk.edu
Office Hours: Nielsen 609, Desk #4: Wednesday’s from 10:00 – 11:00 a.m. or just after lab.

By Email: Anytime from 9:00 am to midnight, I will attempt to answer the e-mail in that day.
**Laboratory Manual:** *Selected Introductory Physics Experiments* by James E. Parks. We will be using this for the laboratory section of our lab. You are to bring this book with you to lab everyday we have labs.

**Grading Policy:** Here is how the lab section of your grade will be broken down, I have listed here in percentage of how your will be graded.

1. Laboratory Reports are 30%
2. Quizzes (in class) are worth 30%
3. Participation is worth 10%
4. Take home test are worth 30%

Together these grades comprise your total laboratory grade. Grading scale: A = 100 – 90, B = 89 – 80, C = 79 – 70, D = 69 – 60, F = 59 – 0.

The scores returned will be final after one week from the turn in date. I will give you a total of 4 take home test, 6 quizzes, and you will have a total of 4 lab reports that you will have to write and turn in. The table listed on the next page has the 4 reports that are due and will cover the topic of that week’s lab except for the last lab; you get to choose your own report topic from the remaining labs that you liked best. Pop quizzes will be given at random to assure the student is up to date on the material.

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**Physics 221 Laboratory Schedule, Summer 2007**

**Tuesday-Thursday Schedule**

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
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<tbody>
<tr>
<td>June 4, 2007</td>
<td>Classes Begin</td>
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<tr>
<td>June 5, 2007</td>
<td>No Lab</td>
</tr>
<tr>
<td>June 7, 2007</td>
<td>No Lab</td>
</tr>
<tr>
<td>June 12, 2007</td>
<td>508 Statistical Analysis I</td>
</tr>
<tr>
<td>June 14, 2007</td>
<td>508 Statistical Analysis II</td>
</tr>
<tr>
<td>June 19, 2007</td>
<td>508 Acceleration due to Gravity</td>
</tr>
<tr>
<td>June 21, 2007</td>
<td>508 Force Table---Vectors</td>
</tr>
<tr>
<td>June 26, 2007</td>
<td>508 Conservation of Mechanical Energy</td>
</tr>
<tr>
<td>June 28, 2007</td>
<td>508 Conservation of Linear Momentum</td>
</tr>
<tr>
<td>July 3, 2007</td>
<td>Centripetal Force</td>
</tr>
<tr>
<td>July 5, 2007</td>
<td>No Lab</td>
</tr>
<tr>
<td>July 10, 2007</td>
<td>508 Boyle's Law</td>
</tr>
<tr>
<td>July 12, 2007</td>
<td>No Lab</td>
</tr>
<tr>
<td>July 17, 2007</td>
<td>508 Heat Experiments</td>
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</table>

Write a report, due in one week, #1

Write a report, due in one week, #2
RE bâtitions: There will be a short quiz just before the start of a random
day. You will be expected to bring your textbook College Physics, Seventh
Edition by Serway/Faughn, and a calculator to every recitation class.

LAboratory: Only ONE lab can be made up during the semester. If you know you
will be missing a lab, you can try to make it up during a different 221 section that same
week but you must email the other TA and I before recitation. However, you
must have a legitimate, official excuse (university function or a Doctor’s note) to miss a
lab.
Any lab missed and not made up (including not emailing me about missing lab) results in
a zero for that lab. This also holds for Recitation Quizzes. Before each lab/recitation I
expect you to have done the following:
1. Read necessary material from Serway/Faughn regarding topics to be covered
   in lab.
2. Read the experiment in the lab manual.
Laboratory Reports: Here is how I want the lab reports. This is a guideline to writing a lab report:

1. State the Title, Name of persons in the group, date,
2. Explain the experiment, the apparatus, what is being sought, and give an explanation of the theory behind this experiment.
3. Body, give details such as equations, percentage errors, and charts and tables of the experiment.
4. Conclusions behind the experiment, list possible sources of errors, explain the outcome of the experiment.
5. Explain ways to improve the experiment.

Rules of the laboratory: Here are a few simple rules that you should be aware of. No food or drinks are to be in any lab at any time. You will be asked to go out in the hall to finish your drink or put it in your book bag. You are to be listening while I am talking and not talking to others in the class room or the lab.