PHY 9C
Summer Session II 2006
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Instructor
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Office Hours: MW 11:00 – 3:00 PM
F 8:00 – 8:50 AM

TAs
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Office Hours: TBA

Web page
http://www.physics.ucdavis.edu/Classes/Physics9C-SS2/
Please use this resource. It is your first port of call for course related information, i.e., homework questions & solutions, announcements and material to be covered for quizzes, mid-term and final.

Lectures
MWF 9:00 – 10:45 AM 55 Roessler
Please read the appropriate chapter of the textbook (see schedule at the end of this document) BEFORE lecture.

Lecture Notes
Available from Navin’s Copy Shop, 231 3rd Street for $9.50 (plus tax).

Text

References
http://www.aw.com/young11/

Assumed Knowledge
MAT 21A, B, C & D
Grading

The course is divided up into the following assessable parts:

- Quizzes – 35% (4 X 15 min)
- Mid-Term – Friday Aug 25 - 25% (40 min)
- Final – Friday Sep 15 - 40% (105 min)

Your overall grade will be based on your relative performance in these parts plus the laboratory and discussion section grades.

Laboratory

The laboratory is required and mandatory.

Grading is on a high pass, pass, low pass or fail scale. **Failing the laboratory means failing the course.** Passing the laboratory means your PHY 9C grade is unaffected by your laboratory performance. High pass in the laboratory increases your course grade by 1/3 of a grade point; low pass means your course grade is reduced by 1/3 of a grade point.

Discussion Section

The discussion sections are associated with the lecture course.

Grading is on a high pass, pass, low pass or unsatisfactory scale. Passing means your PHY 9C course grade is unaffected by your performance in discussion. High pass increases your course grade by 1/3 of a grade point; low pass decreases your course grade by 1/3 of a grade point. **Unsatisfactory reduces your course grade by one full grade point.**

Please bring your lecture notes to EACH discussion section. This is an opportunity to ask questions about the lectures, from the textbook and difficulties with problems from the book. It is a waste of YOUR time to go into the section unprepared.
**Homework**

Homework is assigned each week but **NOT** graded. A list of problems and subsequent solutions can be found on the web page.

Homework is an opportunity for you to test your understanding of the material. It is **YOUR** responsibility to attempt the problems in advance of seeing the solution. Questions that remain can be answered in office hours.

You are encouraged to write full solutions to the homework as practise for writing solutions to exam problems. A full written solution to a problem is one that you could give to anyone in the class and they would understand it. It includes the statement and application of physical law(s). Don't be afraid to write a few sentences of English to explain your steps. *Explain what you are doing and why you are doing it.*

**Exams**

Quizzes, mid-term and final are an opportunity to demonstrate **YOUR** understanding of the material covered in lecture, textbook, homework, discussion section and laboratory. They will be in class, closed book and **WITH CALCULATORS**. I will provide a formula sheet for the mid-term and final. A copy of which will be displayed on the web page before the exam.

In general, there will be **NO** makeup exams. If you miss an exam for a good (documented) reason then we will discuss a new grading scheme for you. If possible, please advise me before the exam if you plan to miss an exam.

**Regrades**

Quizzes and mid-term will be returned in discussion section as soon as possible after the exam. *It is important to download the solutions (from the web page) and take them to the next discussion section.* You will have a few minutes to look over the exam, checking for adding up errors first and then grading errors. If you feel a mistake has been made in either then on a **SEPARATE** piece of paper (not on the exam) write your name, discussion section #, student ID # and why you feel a mistake has been made in grading your paper. You should clearly state which question(s) are in dispute. The TA will then collect any regrade papers at then end of the 5 or so review minutes. This is your **ONLY** opportunity for regrade so please check carefully. Any regraded paper will be returned in the next discussion section.
Syllabus  
Please allow for slight changes in this syllabus.

<table>
<thead>
<tr>
<th>Wk Beg</th>
<th>MON 9:00 – 10:45 AM</th>
<th>WED 9:00 – 10:45 AM</th>
<th>FRI 9:00 – 10:45 AM</th>
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</thead>
<tbody>
<tr>
<td>Aug 7</td>
<td>Sec 32-1 Maxwell’s Equations</td>
<td>Ch 21 Electric Charge and Electric Field (cont.)</td>
<td>Ch 22 Gauss’s Law</td>
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<tr>
<td></td>
<td>Ch 21 Electric Charge and Electric Field</td>
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<td>Quiz 1 (15 min)</td>
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<tr>
<td>Aug 14</td>
<td>Ch 22 Gauss’s Law (cont.)</td>
<td>Ch 23 Electric Potential (cont.)</td>
<td>Ch 24 Capacitance &amp; Dielectrics</td>
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<tr>
<td></td>
<td>Ch 23 Electric Potential</td>
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<td>Quiz 2 (15 min)</td>
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<tr>
<td>Aug 21</td>
<td>Ch 24 Capacitance &amp; Dielectrics (cont.)</td>
<td>Ch 25 Current, Resistance &amp; Electromotive Force (cont.)</td>
<td>Ch 26 Direct-Current Circuits</td>
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<tr>
<td></td>
<td>Ch 25 Current, Resistance &amp; Electromotive Force</td>
<td></td>
<td>MID TERM (40 min)</td>
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<tr>
<td>Aug 28</td>
<td>Ch 26 Direct-Current Circuits (cont.)</td>
<td>Ch 27 Magnetic Field &amp; Magnetic Forces</td>
<td>Ch 28 Sources of Magnetic Field</td>
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<td>Quiz 3 (15 min)</td>
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<td>Sep 4</td>
<td>LABOR DAY HOLIDAY</td>
<td>Ch 28 Sources of Magnetic Field (cont.)</td>
<td>Ch 29 Electromagnetic Induction</td>
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<td>Quiz 4 (15 min)</td>
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<tr>
<td>Sep 11</td>
<td>Ch 29 Electromagnetic Induction (cont.)</td>
<td>Ch 30 Inductance (cont.)</td>
<td>FINAL EXAM (105 min)</td>
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<tr>
<td></td>
<td>Ch 30 Inductance</td>
<td>Ch 31 Alternating Current</td>
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I hope you enjoy the course. If you have any queries please don’t hesitate to contact me. Remember the web page is your first port of call for course information.