Syllabus for Physics 7C (Fall 2012)
Instructor: Manoj Kaplinghat

This document has 5 pages.
Read your uci.edu email regularly. Notices regarding this class will be distributed through email.

Enrollment issues
Enrollment and administrative questions must be directed to Eileen Powell in the physics undergraduate affairs office (4109 Reines Hall) 949-824-2614 or physics.enroll@uci.edu. The instructor and the TAs cannot assist you with enrollment issues.

Grading for 7C
Your total score will be computed with the following weights.

<table>
<thead>
<tr>
<th>Category</th>
<th>Scores dropped/kept</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final exam</td>
<td>-</td>
<td>40%</td>
</tr>
<tr>
<td>Midterm exam</td>
<td>-</td>
<td>20%</td>
</tr>
<tr>
<td>Homework (<a href="http://masteringphysics.com">http://masteringphysics.com</a>)</td>
<td>Sum all assignment points</td>
<td>10%</td>
</tr>
<tr>
<td>Quiz (Wednesdays)</td>
<td>Drop lowest 2 scores</td>
<td>20%</td>
</tr>
<tr>
<td>Clicker (TuTh during lectures)</td>
<td>Sum highest 10 lecture scores and drop others</td>
<td>10%</td>
</tr>
</tbody>
</table>

Your percentile rank in this lecture section will be based solely on your total score. The percentile rank will determine your letter grade. There is no room for extra credit work. Work outside of the categories listed in the table above cannot affect your total score and hence cannot affect your letter grade.

Grading for 7LC
Your total score will be computed with the following weights.

<table>
<thead>
<tr>
<th>Category</th>
<th>Scores dropped/kept</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tutorials</td>
<td>Drop lowest 2 scores</td>
<td>100%</td>
</tr>
</tbody>
</table>

There is no final exam for 7LC. Grades for 7LC will be computed solely from the tutorial scores based on the following ranges (“no curving”). See detailed discussion later in this document.
A: [93%, 100%], A-: [90%, 93%),
B+: [87%, 90%), B: [83%, 87%), B-: [80%, 83%),
C+: [77%, 80%), C: [73%, 77%), C-: [70%, 73%),
D+: [67%, 70%), D: [63%, 67%), D-: [60%, 63%),
F: [0, 60%]
**Homework**

- Homework assignments must be completed through the MasteringPhysics website by the due date listed for the assignment. If you have a valid documented reason (e.g., illness), the assignment due date can be extended without penalty.
- Enrolling for the MasteringPhysics course connected with this lecture under more than one username is not allowed and such incidents will be treated as cases of academic dishonesty.
- There will be 9 homework assignments, one due each week starting the second week. Assignments will be due on Wednesday at 10 PM.
- All homework assignments count towards the total homework score. The total homework score will be the sum of all the homework assignment scores.
- Homework assignment problems will be graded as follows.
  - The maximum number of allowed attempts for a problem that is not multiple-choice is 6.
  - You lose 3% credit per incorrect answer on questions that are not multiple-choice. For example, if on a part of a problem you took 3 attempts to get the right answer (i.e., two attempts were incorrect), you will get (100-2*3)%=94%.
  - For multiple-choice problems with N > 2 options, you lose 100%/((N-1) credit per incorrect answer. For example, consider a multiple-choice question with 4 options worth 1 point. Lets say your first attempt is incorrect. You lose 100%/((4-1))=33.33% of the points. That question is now worth 1-0.3333=0.6667 Lets say your second attempt is also incorrect. Then you lose 100%/((3-1))=50% of the points. That question is now worth 0.5 points and you only have one attempt left to get this problem right.
  - For the specific case of true/false problems, you only have one attempt in keeping with the rules for multiple-choice problems.
- Some problems have hints. There is a 3% deduction for opening each hint. Since this is a small deduction, you are highly encouraged to open hints if you need them.

**Clicker**

- Most lecture classes will have questions that require iclicker responses. If you wish to get clicker points, you must bring your iclicker to every lecture class.
- For each clicker question, 1 point is awarded if you respond to that question with your iclicker. For a select few clicker questions (identified clearly before the question is posed) in each lecture, an additional point will be awarded if your response is correct.
- Regardless of the number of clicker questions in a lecture, each lecture will count the same towards the total clicker score. To compute the total clicker score, only the top-15 clicker scores will be summed.
- Operating more than one iclicker in class is a case of academic dishonesty and will be treated as such.
- You must register your iclicker to get credit for responding to clicker questions. Do this again even if you have registered your iclicker in the past. Here are the instructions.
  - Go to [http://iclicker.com](http://iclicker.com).
  - Register your iclicker serial number with your 8-digit UCI student ID number and your name EXACTLY as it appears in WEBREG.
  - An iclicker can be used by only one student during a given quarter. So if you have borrowed someone else’s, make sure you register that iclicker in your name.
Discussion (Quiz)

- Discussion will be held on Wednesdays. You must attend the discussion section you are enrolled in. As per the policy of the Physics department, all requests to attend another discussion section will be turned down. If you attend another section, you will receive no credit.
- There will be a quiz in each discussion session except the first week. Each quiz will contain 1 or 2 problems based on the homework and tutorial for that week.
- You will be graded on a 0 to 4 scale for each problem by a TA.
  - 0 = No effort or understanding. Also given for unreadable solution or for cases where the final answer is written with no explanation of the steps involved.
  - 1 = Rudimentary understanding and some effort made towards solving the problem. Also given if the solution is only partially readable or if the variables used are not defined properly.
  - 2 = Good grasp of the fundamentals required to solve the problem, however there wasn't a clear idea of how to proceed to solve the problem.
  - 3 = Almost complete grasp of solution except for errors either in some intermediate step or in the final answer.
  - 4 = Important steps legibly written out with the correct final numerical or symbolic answer.
- The lowest two quiz scores are dropped.

Tutorial (7LC lab)

- In each 7LC tutorial session (starting week 2), you will be given a set of 5-6 problems.
- You are asked to discuss the problems in groups of 5 or 6. The TA will circulate from group to group to provide pointers and clear misconceptions. Each student is required to write down legible solutions without copying from another student. Discussions are highly encouraged but students should not allow other students to copy their work blindly.
- The solutions will be graded for each group. The exception to this rule is when some members of a group haven’t written out a solution or the solution is not legible.
- During grading the TA will ask one or more members of a group to explain some nuances of the solution. If the student is unable to answer, the TA will allow the group to discuss again one time.
- If the solution is correct and if the students who are asked questions have answered the questions posed by the TA, then each student in the group is given full points for that problem. Note that the TA will attempt to grade all problems in class. If that is not possible, the TA will collect your work and return the graded work next week. So it is important that each student write down the solutions legibly.
- Each problem will be graded on a 0-2 scale.
  - 0 implies no effort or understanding and 2 an excellent grasp of the basics and an understanding of how to solve the problem. Anything in between is given 1.
  - If the solution is not set-up clearly and appropriate steps are not provided or legible, then your TA will score the problem as 0 or 1 but not 2 even if the final answer is correct.
• Tutorial scores for each week count the same towards the final grade. The lowest two tutorial scores are dropped. For example, if your scores for weeks 2-10 were (90%, 50%, 100%, 100%, 100%, 90%, 70%, 0, 100%), then you final tutorial score would be (90%+100%+100%+100%+90%+70%+100%)/7=92.86%.

• Grade for 7LC is computed separately from the grade for 7C. It is based solely on your total tutorial score as computed in the previous bullet point. Your letter grade is based on an absolute scale that is written out in the first page of this document. For example, in the case discussed in the previous bullet point, the letter grade would be A-.

**Exams**

• There will be one midterm exam on Tue, Oct 30, 8:00-9:00am in EH 1200.

• The Final exam will be on Tue, Dec 11, 8:00-10:00am in EH 1200.

• No books, notes and scratch papers are allowed in midterm and final exams.
  - Physical constants needed to solve a problem will be given.
  - A formula sheet will be attached to your midterm and final exams.
  - Scratch papers will be attached to your midterm and final exams.

• Seating in the midterm and final exams will be according to a seating chart that will be posted on the course website 1 day before the exam.

• For both midterm and final exams, you are **required** to do the following.
  - Bring your UCI student ID to the exams. Your ID will be checked.
  - On your desk you will only be allowed to have the exam, pen, pencils, erasers, pencil sharpeners, student ID and a calculator (see next item).
  - No graphing calculators or programmable calculators will be allowed. Scientific calculators that do not graph and are not capable of being programmed to solve or store equations are allowed.
  - Arrive promptly on time. Latecomers will disturb others. Leave your bags in the front of the classroom and store your cell phone in the bag after turning it off.
  - Proctors will strictly enforce the policy that there can be **no communication of any kind** between students. You may not wear a cap or hat that would prevent the proctors from getting a direct view of your eyes.

**No make-up exams, discussions, clicker sessions**

• *There will be no make-up midterm exam.* If there is a documented medical or family emergency that prevents you from taking the midterm exam, your total score will be computed by dropping the midterm category and reweighting the other categories proportionally.

• *There will be no make-up final exam.* If you don’t take the final exam, you may receive an incomplete or a grade based on final exam score of zero.

• *There will be no make-up quizzes and no make-up clicker sessions.* Note that some discussion and clicker scores are dropped to allow for unexpected emergencies. See first page of syllabus.

• *All homework assignments must be completed.* If there is a documented medical reason or emergency that delays a homework assignment submission, then a request to extend the due date without penalty will be considered.
Office Hours and Tutoring

- TAs will hold office hours by appointment. They are available in the tutoring center at fixed hours (see next bullet point).
- The Physics tutoring center will be open from 5:30-9:30pm Monday to Thursday starting Week 2 in Rowland Hall 142. Your TA’s tutoring center hours are listed on the main webpage. While you are free to get help from any TA in the tutoring center, it would be most efficient to seek out a Physics 7C TA.

Accommodation for Students with Disabilities

University policies for accommodation of students with disabilities will be followed. More information is available at www.disability.uci.edu, including information on testing accommodation and note-taking arrangements.

Academic Dishonesty

Incidents of academic dishonesty will be dealt with in accordance with university policies. Students may peruse these policies at http://www.editor.uci.edu/catalogue/appx/appx.2.htm.