Physics 131. Fall 2012.

Instructors:
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Generally, the best way to reach either of your instructors is by email.

Course Organization
The course is comprised of two main parts:

Lecture.
Lectures are held in Javits 100. Class starts promptly at 8:00 AM, and ends at 8:53 AM. Attendance is required and enforced by “clicking in”.

Recitation
Because the class has so many students, it is difficult for students to receive individual attention during the main lecture. For this reason, the course is additionally divided into 15 so-called recitation sections numbered R01-R15. Recitation sections are typically focused on helping students to understand and complete that week's homework assignment. Recitations are taught by faculty members. During a recitation meeting, it is possible that a quiz, additional homework, or some other instrument used to determine the student’s recitation grade will be assigned and/or collected. There are no recitations in the first week of classes.

Required Material
1. Textbook: Physics for Scientists and Engineers, Giancoli, 4th Edition. The campus bookstore has these for sale in looseleaf form, packaged along with the access code for Mastering Physics. This book will also be used in Physics 132, so it’s a one-time expense.
2. All Course Information distributed via blackboard (such as this syllabus).
3. A NON-Programmable calculator. The idea is that you use your calculator to calculate, not to act as a formula sheet during exams. Calculator should have:
   a. Addition, subtraction, multiplication, division.
   b. Trig functions.
   c. Log functions.
   d. Square root.
   e. Calculator must not have ability to store formulas.
f. Be sure you are familiar with your exam calculator by using it for homework assignments.

g. Calculator application of a smart phone is not acceptable.

4. An account in the Mastering Physics system. You can either buy this with the looseleaf textbook at the campus book store, as a separate item from the bookstore, or (probably) on line

5. A “clicker” from Turning Technologies (available in the university bookstore). You don’t need a separate one for this course – one clicker will serve for all of your Stony Brook classes.

Grade Determination
The grades will be calculated based upon the following percentages:

<table>
<thead>
<tr>
<th></th>
<th>Exam-1</th>
<th>Exam-2</th>
<th>Exam-F</th>
<th>Rec</th>
<th>Homework</th>
<th>Clickers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percentage</td>
<td>15</td>
<td>15</td>
<td>30</td>
<td>10</td>
<td>15</td>
<td>15</td>
</tr>
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Your final score based upon the weightings listed above will be compared to the following scale to determine the letter grades. Note that there is not a curve in PHY131.

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>A-</th>
<th>B+</th>
<th>B</th>
<th>B-</th>
<th>C+</th>
<th>C</th>
<th>C-</th>
<th>D+</th>
<th>D</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percentage</td>
<td>90-100</td>
<td>85-89</td>
<td>80-84</td>
<td>75-79</td>
<td>70-75</td>
<td>65-69</td>
<td>60-64</td>
<td>55-59</td>
<td>50-54</td>
<td>45-49</td>
<td>below 45</td>
</tr>
</tbody>
</table>

You will be able to monitor your progress in the course via Blackboard.

Recitations.
Students should be sure that they understand how their recitation instructor will be determining their grades. Likely there will be a quiz during the class meeting. The recitation grades will be normalized between recitation sections. Normalization is not curving since the grades will be brought to the same mean as one another without an overall shift to the class as a whole.

Exams
The exams are closed book, closed notes, and the instructors will not provide sheets of equations. If you learn the material, you will not need such crutches.

The schedule for the exams has been set by the registrar. There are two midterms: Monday, September 24 from 7:00 to 8:53 AM, and Monday, October 22, 8:45 to 10:15 PM. The final exam will be Thursday, December 13th, 2:15 to 5:00 PM. You are responsible for insuring that you can attend the exams at the scheduled times. No excuses will be allowed for any foreseeable circumstance.
**Clickers**
We will use the electronic response system from Turning Technologies in class. In some questions, credit will be given for any answer; in some, only for a correct answer. The lecturer will make clear which standard pertains to each specific question.

Note well that each student is only supposed to use his/her own clicker to submit responses. One person using two (or more) clickers is academic dishonesty, and will result in severe action before the Academic Judiciary Committee, for both the operator and the owners of the clickers. Sending your clicker to class with somebody else is never acceptable.

**Getting Help**
PHY131 and PHY132 are indeed fast-paced and difficult courses and most students require help from time to time. Don’t fall behind -- you can and should get the help you need to stay with the course.

**Help Room**
All course instructors will have scheduled office hours in room A-129, also known as the Help Room.

**Review Sessions**
The instructors will hold *extensive* review sessions outside of class. These are typically held in the evenings or weekend before an exam. Typically one 8-hour review is held prior to each midterm and one or two 8-hour reviews are held prior to the final. During these reviews, we do physics problems from practice exams and we make them up on the spot and upon request from any source. The idea is that by the time the review is finished, everyone present should be so thoroughly familiar with the material that the exam will have become easy. BUT, you should not expect to be able to learn the course material in the review sessions.

The philosophy is simple. The exams in this course are tough but fair. We will work as hard as necessary so that by the time you take them, you will be prepared. Students earning high scores on tough exams is the explicitly stated goal of the instructors and should be the same goal for all students. Scheduling of these reviews will be done in lecture.

**Recordings**
Each lecture will be automatically recorded by Stony Brook Capture, and MP3 playbacks will be available for student review shortly after each class, via blackboard. The recording system is generally quite reliable, but not foolproof, so it is possible that some recordings might be lost. The review sessions will also be recorded and made available (with the same caveat).
Religious Observances
Note that the academic calendar does not have any religious holidays; this is a significant change from previous years at Stony Brook. See the policy statement regarding religious holidays at http://www.stonybrook.edu/registrar/forms/RelHolPol%20081612%20cr.pdf

Students will be expected to notify the course professors by email, in advance, definitely before the final date of the ‘add/drop’ period, of their intention to be out for religious observance. They can discuss with their faculty member at that time how they will be able to secure the work covered.

ACADEMIC INTEGRITY:
Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Faculty are required to report any suspected instances of academic dishonesty to the Academic Judiciary. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at http://www.stonybrook.edu/uaa/academicjudiciary/

**Academic dishonesty will not be tolerated.** In this course, the standards are as follows. In lecture, whenever a "clicker" question is posed, you may discuss it with your neighbors. However, one person operating two or more clickers is cheating, and will result in a course grade of F for the owners of the relevant clickers. You may work with your colleagues on the homework problems. However, please note that you only hurt yourself if you submit answers that you get from somebody else and you do not understand or provide to someone else who does not understand. In an exam, copying answers from another person or use of materials or communication other than what is allowed by the instructors will result in an F in the course.

**AMERICANS WITH DISABILITIES ACT:** If you have a physical, psychological, medical or learning disability that may impact your course work, please contact Disability Support Services, ECC (Educational Communications Center) Building, room128, (631) 632-6748. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential.

**CRITICAL INCIDENT MANAGEMENT:** Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn.