CONTACT INFORMATION

Instructors
Dr. Jason H. Hafner, Brockman Hall 262, ext. 3205, hafner@rice.edu
Office Hours Thursday, 11:00 - 1:00
Dr. F. Barry Dunning, Brockman Hall 320, ext. 3544, fbd@rice.edu
Office Hours Fri: 2:00 - 4:00
Dr. Laria Redjimi, Brockman Hall 240, ext. 2219, laria@rice.edu
Office Hours Mon: 2:00 - 4:00, Wed: 12:30 - 3:00

Laboratories
Dr. Lam Yu, Brockman Hall 110, ext. 2894, lhyu@rice.edu

Administration/starting point for questions:
Lanie Anderson, Brockman Hall 201, ext. 4938, laniea@rice.edu

If you have any questions or comments about the course, the grading, the problems, or the physics, we would like to hear from you. You will be welcome most of the time if you show up in our offices, and we will try to accommodate you if you show up unannounced (but it makes sense to contact us in advance). Please feel free to send an email at any time – we will try to respond as quickly as possible.

COURSE INFORMATION

Announcements: Primarily available on the Physics 102 Owl-Space page under the "Announcements" tab and often e-mailed.

Textbook/Webassign: We are using a special edition of the textbook by Serway and Jewett: *Physics for Scientists and Engineers, Hybrid (with Enhanced WebAssign Homework and eBook LOE Printed Access Card for Multi Term Math and Science), 9th Edition, ISBN 9781133954132*. Do not buy used versions of this textbook online as they are highly unlikely to include the necessary access code to the online homework system – WebAssign. If you do have a version of the textbook it is possible to purchase the Webassign access separately on their website. The WebAssign class key you need to enroll in PHYS 102 is “rice 2977 2364”.

i>Clicker: To fully participate in class you should have an i>Clicker. These are available online at [http://www1.iclicker.com/purchase-response-devices](http://www1.iclicker.com/purchase-response-devices). You can use either the i>Clicker or i>Clicker2. If you have purchased one for another class (Biology, Chemistry for example) then you can use the same device in this class. These will be used in class during peer discussion sessions involving multiple choice questions.
Calculator: You should have a hand-held calculator for use in doing calculations in quizzes, homework, and exams. It does not need to be programmable, but it should compute trigonometric and exponential functions.

Class Meetings: MWF 9 am (section 1) or 10 am (section 2). These periods will be devoted to lectures that systematically introduce a particular set of ideas, demonstrations that illustrate the ideas, and problem solving strategies. You may attend either (or both) section(s).

Laboratory: The laboratory is an integral part of the course. You must complete an online form for requesting a lab meeting time before 5 pm, Friday, January 17, 2014, in order for us to take into account your scheduling preferences. The online lab preference form can be found in the “Lab Preference Form” link under the PHYS 102 Sp14 tab in Owl-Space. You do not have to register separately with the university registrar for the lab. Performing the laboratory experiments is very important and missing a laboratory is a prescription for loss of credit. Laboratory policies are presented in more detail in the laboratory manual available on Owl-Space. All questions related to the laboratories should be directed to Dr. Yu.

Owl-Space: Registering for PHYS102 automatically registers you for the PHYS102 site on Owl-Space. More information about Owl-Space can be obtained at http://owlspace.rice.edu.

COURSEWORK AND GRADING

WebAssign Homework: You will be assigned homework problems in the WebAssign online homework system. These will provide experience in problem solving and in using the concepts discussed in the course. They are selected to help you prepare for the pledged problems and exams. You are encouraged to discuss these suggested problems with fellow students, tutorial leaders, and instructors. You may attempt to answer each question up to 3 times. Note that students will get individualized versions of the problems (i.e. the numbers in your version of the problem may be different to your classmates) so you will need to work out the final answers for yourself.

Quizzes: Pledged quizzes will be administered online via WebAssign. When taking the quiz you can consult your notes, book, and course materials, but not other students. The quizzes are taken in a single sitting and will have a time limit. The quizzes consist of multiple choice problems similar to those found on the exams.

Pledged Problems: Pledged homework problems will be distributed via Owl-Space. These problems are intended to give you some experience in working, completely on your own, problems that are typical of those that will appear on exams. In working on the Pledged Problems, you may consult your own notes, problem solutions we have posted, your own textbook, and a calculator; all other resources are banned. There will be a 2 hour time limit preparing your solution. Your hard copy solution to the pledged problems should be placed, before the deadline (usually Tuesday at 4 PM), in the boxes marked PHYS 101/102 in Brockman Hall opposite to Dr. Redjimi’s office (Brockman 240). Pledged homework submitted after the deadline will not be accepted. Solutions to Pledged Problems will be posted to Owl-Space after they are due. Graded problem sets will be returned in the boxes outside the Physics Department office. Students
will note the date and time of beginning and completion of the problems at the top of their work; instructions will be included with each set of Pledged Problems.

**Tests and Final Examination:** 90-minute tests will be given at 7:45 AM on Thursday, Feb 20th and 7:45 AM on Tuesday, April 1st (both tentative). There will also be a three-hour COMPREHENSIVE FINAL EXAMINATION that will be *scheduled by the registrar*. Non-programmed hand calculators may be used on tests and the final examination but no books or notes will be allowed. You may not use cell phones or tablets as calculators. Solutions to tests and the final examination will be posted to Owl-Space. Typically, there is a review session a few days before the exam.

**Grading:** Grades on free response assignments are based on what you actually write down. Ordinarily, the answer to a problem by itself, even if correct, is not sufficient to obtain full credit; you must also show that your method of solution is correct. Proper physical reasoning, when clearly demonstrated, will earn significant amounts of partial credit, even in the face of grievous mathematical errors. The grader should be able to determine, without guessing, the steps used to solve the problem.

**Regrading Policy:** Do not write in a graded exam book or homework problem after it has been returned to you. If, after consulting the solutions we have prepared, you feel that your work was not correctly graded, please direct our attention to the specific issues by means of a note on a separate sheet stapled to your paper. *Submit it to your instructor within one week after the solutions were posted.* We will review the grading of the part to which you direct our attention, and possibly the rest of the paper to insure that your grade is consistent with the instructions given to the graders, and re-determine the grade that the paper deserves.

**Tutorial Sessions:** There will be help sessions held at the following times and locations each week:
- Tuesday, 2:30-4:30 pm, Anderson Biological Laboratories, Room 131
- Tuesday, 7:00-9:00pm, Herzstein Hall Amphitheater
- Wednesday, 2:00 to 4:00, Brockman Hall, Room 101
- Thursday, 2:30-4:30 pm, Anderson Biological Laboratories, Room 131

Students in attendance will work together in cooperative groups on the suggested problems under the guidance of a tutorial leader. These sessions are intended to help in developing skills in solving physics problems. Tutorial leaders can also assist you in reviewing previous work such as pledged problems and quizzes to help you learn from your mistakes prior to an examination. You may attend any tutorial session. *These sessions are not mandatory.*

If you choose to attend and actively participate in a tutorial sessions you will receive redemption credit as described below.

**Additional Help:** All PHYS102 students are welcome to attend the tutorial sessions described above. There may be additional tutorial help provided in your College, by the Society of Physics Students, your College Fellows, or others. When possible, review sessions will be held before midterm and final exams – either in class, or at locations and times to be announced.

**Make-ups and Excused Days:** Make-ups for missed quizzes, pledged problems, tests, or laboratories will be given at the discretion of the instructor. You can be excused without penalty or be allowed a delayed make-up of quizzes, pledged problems or tests if one of the following two conditions is met:
1. You are on official university business or you have a conflicting class, and you notify us well beforehand. If you have a conflicting class, a signed note from the instructor of that course is required stating that you actually attended class on the day of the test.

2. You have a serious reason beyond your control, such as your own illness or a death in your family, and you get word to us immediately. As soon as possible, notify your instructor in writing or by e-mail. (The policy on laboratory make-ups is stated in the lab manual available on Owl-Space).

CALCULATION OF SEMESTER GRADE

Your semester grade will be determined from an average that will be weighted as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two tests</td>
<td>30%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
</tr>
<tr>
<td>Pledged Problems</td>
<td>15%</td>
</tr>
<tr>
<td>(one lowest score will be dropped)</td>
<td></td>
</tr>
<tr>
<td>WebAssign Homework</td>
<td>10%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>10%</td>
</tr>
<tr>
<td>(one lowest score will be dropped)</td>
<td></td>
</tr>
<tr>
<td>Laboratory</td>
<td>15%</td>
</tr>
</tbody>
</table>

Additionally you must receive a final laboratory grade of 50% or above in order to pass the course.

You should retain all your tests, pledged problems, suggested problems, and the final exam so that you can confirm the accuracy of our records, which we will update regularly on Owl-Space. Students who receive a weighted average of 90% or greater will receive a grade of at least A-, while those obtaining a weighted average of 75% or greater will receive a grade of at least a B-, and those students who obtain averages of 60% or greater will receive a grade of at least C-. We may lower these cut-offs at the end of the semester, but we will not raise them. **The total grade for the entire course, including redemption points, cannot exceed 100%**.

REDEMPTION CREDIT

**Redemption Credit:** You can receive up to 5 redemption points towards your final grade weighted by the fraction of weeks you attend a tutorial session. Your redemption points (0 - 5) will be added to your final numerical course grade.

THE HONOR SYSTEM

We believe very strongly in the Rice Honor System: it applies to all work submitted for a grade in the course (except for suggested problems), and we perform our due diligence as instructors in upholding it. The Honor Pledge should be written in full and signed on the pledged problems, tests, the final examination, and any other work that has been announced as pledged. Note:

1. Students will be seated in tests and exams in alternate rows, alternate seats, or as otherwise directed by the person administering the test or examination.

2. Test or examination papers will not be taken from the examination room without the permission of the person administering the test or examination. If you have a special problem with taking a test in the place to which you have been assigned, please let us know.
Numerous resources for solving physics problems are available via the Internet. These sites can be perfectly legitimate tools when seeking additional examples to learn difficult concepts, but none of them are permitted for use on pledged assignments, such as quizzes, pledged problems, and tests. We are aware of many of these sites and maintain user profiles on them that allow us to check for PHYS 102 course content appearing thereon.

STUDENTS WITH DISABILITIES

Any student with a documented disability seeking academic adjustments or accommodations is requested to speak with the instructors during the first two weeks of class. All such discussions will remain as confidential as possible. Students with disabilities are encouraged to also contact Disability Support Services in the Allen Center (e-mail: adarice@rice.edu, phone: 713-348-5841) during the first two weeks of class so that timely and appropriate arrangements may be made.