

PHY2053 Syllabus - Physics 1 Spring 2014

Course WEBSites: There are three PHY2053 WEBSites that you will need to use.

(1) The **Physics Department PHY2053** WEBSITE at

<http://www.phys.ufl.edu/courses/phy2053/spring14/>

This site contains the class announcements, the practice homework problems, the course schedule, exam room assignments, and the course syllabus. It also contains previous exams, the correct answers for your exams, and the class lectures. You should check the class announcements on a regular basis.

(2) The **University of Florida Sakai e-Learning PHY2053** WEBSITE at

<https://lss.at.ufl.edu/>

This site contains the course grades. Estimated course grades will be posted here after each of the two exams and your final course grades will be posted here after the final exam.

(3) The **WebAssign PHY2053** WEBSITE at

<http://www.webassign.net>

This is where you do the on-line practice homework. Your username, institution code, and initial password are as follows: username = gatorlink username, institution code = ufl, password = UF-ID (8 digit number). You will also need the access code that comes with your textbook or you can purchase the textbook and the **WebAssign** access code separately.

Course Instructors:

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Office hours are posted on the course website.

Textbook: The required text: **Physics (with WebAssign)**, Authors: Giambattista, Richardson, and Richardson, Publisher: McGraw-Hill, Edition: 2nd (Volume 1), ISBN: 9780077628239. The text includes a code used for the on-line practice homework. The homework is done online, using the **WebAssign** system. Your textbook will contain your access code to **WebAssign**. If you prefer you can purchase the textbook and the **WebAssign** on-line homework separately. **The on-line practice homework will not count toward your overall course grade.**

Discussion Section Quizzes: Discussion sections start the first week of classes (i.e. Monday January 6, 2014) and quizzes start on Wednesday and Thursday January 22-23, 2014. A quiz will be administered during many of your **Wednesday** or **Thursday** discussion section meetings (**10 total quizzes**). The MW and WF discussion sections will have their quizzes on Wednesday. The TR discussion sections will have their quizzes on Thursday. The quizzes will test how well you learned the concepts and methods of the assigned practice homework problems. The quiz will be very closely related to your homework problems. The problems may be restructured to provide guidance, allow awarding of partial credit and discourage memorization of only the formula for the solution. You are expected to learn how to do the homework problems *on your own*

without any notes or other help (*i.e.* there are **no crib sheets for the quizzes!**). In doing the online homework you can get help in discussion section, office hours, from tutors and from other students. However, in the end you must learn the methods needed to do the problems on your own. The quizzes will give partial credit (**0-5 points**) so if you set up the problem correctly but make an algebraic mistake you will get some of the credit for the problem. You will be allowed to make-up a maximum of three missed quizzes provided that you have a valid documented excuse (*e.g.* medical note). You will have to take the make-up quiz within 3 weeks of your missed quiz and there will be **no make-up quizzes after April 23, 2014**. To provide a measure of forgiveness for possible missed quizzes, **10% of the quiz grades will be dropped in evaluating your final grade**. **The quiz portion of the course will count for 25% of the overall course grade**.

Quiz Schedule*

Week	Date	Problem
1	1/8/14-1/9/14	No Quiz
2	1/15/14-1/16/14	No Quiz
3	1/22/14-1/23/14	Q1: 1.1-2.6
4	1/29/14-1/30/14	Q2: 3.1-3.6
5	2/5/14-2/6/14	Q3: 4.1-4.7
6	2/12/14-2/13/14	Q4: 4.8-5.3
7	2/19/14-2/20/14	No Quiz
8	2/26/14-2/27/14	Q5: 5.4-6.8
9	3/5/14-3/6/14	No Quiz
10	3/12/14-3/13/14	Q6: 7.1-7.8
11	3/19/14-3/20/14	Q7: 8.1-8.6
12	3/26/14-3/27/14	Q8: 8.7-9.6
13	4/2/14-4/3/14	No Quiz
14	4/9/14-4/10/14	Q9: 9.7-10.8
15	4/16/14-4/17/14	Q10: 11.1-11.8
16	4/23/14-4/24/14	No Quiz

*Quizzes are on Wednesday or Thursday.

Homework: **On-line practice homework is due by 11:00pm almost every Sunday starting on January 19, 2014**. To get onto the online homework system you will need to enter the access code that came with the textbook. The problems come from your textbook. However, the numbers are randomized for each student (*i.e.* the problems will be same as the textbook but with different numbers). The course Schedule Page gives the assigned problems and due dates. Once the due date/time (*e.g.* Saturday 11:00 pm) has passed no further input of answers will be accepted. In doing the online homework you can get help in discussion section, office hours, and from tutors. **The on-line practice homework will not be graded and will not count toward your overall course grade**.

WebAssign On-Line Practice Homework Schedule

Assignment	Due Date (by 11:00pm)	Material
HW Set 1	Sunday January 19	Chapters 1.1-2.6
HW Set 2	Sunday January 26	Chapters 3.1-3.6
HW Set 3	Sunday February 2	Chapters 4.1-4.7
HW Set 4	Sunday February 9	Chapters 4.8-5.3
HW Set 5	Sunday February 16	Chapter 5.4-6.8
HW Set 6	Sunday March 2	Chapter 7.1-7.8
HW Set 7	Sunday March 16	Chapter 8.1-8.6
HW Set 8	Sunday March 23	Chapter 8.7-9.6
HW Set 9	Sunday March 30	Chapter 9.7-10.8
HW Set 10	Sunday April 13	Chapter 11.1-11.8
HW Set 11	Sunday April 20	Chapter 11.9-12.8

Student Response System (H-ITT): You will be able to earn bonus points toward your overall course grade by coming to class and answering the H-ITT questions, however, participating in the H-ITT in class questions is purely optional. You can earn a perfect grade in the course (i.e. 100 points) without the H-ITT bonus points.

The in-class H-ITT questions begin to count on **Tuesday January 14, 2014**, but you should get your remotes sooner for practice questions that will help you to become familiar with the system before the questions start counting for bonus points. You should purchase the H-ITT remote transmitter associated with the in-class student response system. This transmitter will let you respond to questions posed during class. Your response will be recorded. Simply responding will get you 1 point credit for the question, while responding correctly will get you 2 points credit. To get the credit you must register on the system. To register click <http://www.phys.ufl.edu/~hitt/> at your earliest opportunity and follow the instructions on that page. It is your responsibility to ensure that your remote is functioning properly and that you are sending on the correct channel (see web site above for link to instructions for setting the remote channel). It is recommended that you set the channel at the start of each lecture. Lights on the remote will indicate that your answer has been recorded on the system. **You can earn a maximum of 5 bonus points toward your overall course grade by answering the H-ITT questions.** To provide a measure of forgiveness for unavoidable missed classes and for problems with the H-ITT transmitter, **20% of the HITT questions will be dropped in evaluating your bonus points.** The formula that will be used to calculate H-ITT bonus points can be found at

http://www.phys.ufl.edu/courses/phy2053/spring14/grade_formula.pdf.

Exams & Final: **Two in-term exams and a cumulative final exam.** The date and time for each exam, and the chapters it covers are listed on the Course Schedule Page. These exams will not take place in your lecture hall in the physics building. Room assignments for where you must go to take the exams will be announced during class in the days leading up to the exam and posted on the course web page. Exams are multiple choice with your answers bubbled in on Scantron sheets. Mark your answers carefully. What you mark will determine your score (independent of your having meant otherwise). To each in-term exam you may bring a single *hand written* formula sheet on 8½ x 11 inch paper (both sides) and you should bring a calculator (calculators may not be shared and

may not have electronic communications capability), #2 pencils, an eraser and your picture ID (preferably your UFID). Scrap paper will be provided. To the final exam you may bring one additional (2 total) *hand written* formula sheets. If you miss one of the two exams during the semester, a valid excuse will allow you to take the cumulative make-up exam to replace the zero on the missed exam. Valid excuses are officially sanctioned UF events, medical excuses or family emergencies. There will be one cumulative make-up exam (covering material from both exams) given on **Wednesday April 23, 2014**. The grade on this make-up exam will replace the missed exam. **The two in-term exams and the final exam will be equally weighted and count for 75% of overall course grade. None of the exam grades will be dropped.**

Exam Schedule

Date	Time	Exam	Material	Crib Sheets
Thursday 2/20/14	8:20pm-10:10pm	Exam 1	Chapters 1.1-6.8	1
Tuesday 4/1/14	8:20pm-10:10pm	Exam 2	Chapters 7.1-10.8	1
Wednesday 4/23/14	5:10pm-7:00pm	Make-Up	Chapters 1.1-12.8	2
Saturday 4/26/14	8:00pm-10:00pm	Final Exam	Chapters 1.1-12.8	2

Previous exams are available at the PHY2053 course WEBSITE.

Students with disabilities: Students requesting classroom accommodation for disabilities must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor (Field or Qiu) when requesting accommodation. Then you must print out the PHY2053 Accommodated Test Request (ATR) Form for Spring 2014 at

http://www.phys.ufl.edu/courses/phy2053/spring14/2053_ATR_Form_Spring14.pdf.

This form must be filled out by the student and returned to the Disability Resource Center (DRC) at least one week before the first exam. The Accommodated Testing Service (ATS) at DRC will then administer all the exams.

How to succeed in this course: (1) It is expected that a successful student will invest at least twelve hours studying and problem-solving per week outside of class. Do not expect a good grade if you are not prepared to work this much. (2) Read the assigned chapters before coming to lecture. The importance of this cannot be overemphasized. (3) Work as many problems as possible on a weekly basis; the assigned (graded) ones represent the minimum recommended set. Go to instructor's and discussion leaders' office hours for individual help (this can be highly effective and should be regarded as free tutoring; make use of it!). To maximize the availability of this help you can go to any Instructor or Section Leader's office hours. These will be posted on the course page, once they are established. (4) Keep up on a regular basis; cramming doesn't work for learning physics.

Overall Course Grade: Your course letter grade will not be based on a curve but rather on the *fixed scale* shown the table below. The advantage of the fixed scale is that you are not competing with other students to “get ahead of the curve.” Everyone who works hard can do well in the class. The overall grade is based on 100 points maximum (Exam 1 = 25 points, Exam 2 = 25 points, Final Exam = 25 points, Quizzes = 25 points). Your H-ITT bonus points will be added to your overall course grade, however, the maximum number of points for the course is 100 points. If adding in the bonus points gives you more than 100 points, you will only get the full 100 maximum points. Your overall course score will be calculated to 3 significant figures and there is no rounding off.

Grading Summary:

Assignment	MaxPoints
Exam 1	25
Exam 2	25
Final-Exam	25
Quizzes*	25
Total Points	100
H-ITT** Bonus	5

*10% will be dropped.

**Optional bonus points.

A	≥ 90
A-	≥ 85
B+	≥ 80
B	≥ 75
B-	≥ 70
C+	≥ 65
C	≥ 60
C-	≥ 55
D+	≥ 50
D	≥ 45
D-	≥ 40
E	< 40

The formula that will be used to calculate your overall course grades can be found at http://www.phys.ufl.edu/courses/phy2053/spring14/grade_formula.pdf.

Honor Code: The UF Honor Code applies to all aspects of this course. It is required that you report any possible infractions to your instructor immediately.