

## FALL SEMESTER, 2013

### Syllabus for PHYSICS 213: General Physics I

Lecture time/place: MWF, 9:00-9:50 a.m., Room 109 Lewis Hall

Professor: Dr. Thomas Marshall

Professor's Office/phone number: Room 126 Lewis, 915-5325

Professor's E-mail address: marshall@olemiss.edu

Office Hours: MWF 8:00-8:45 a.m., 126 Lewis.

Text: *Physics*, 7<sup>th</sup> edition, by Douglas C. Giancoli

READ THE BOOK!! Read each chapter when we begin discussing it in class.

**Objectives:** In this trigonometry-based introductory physics course, we cover the first half of the book, through chapter 13. The topics will include measurement, 1-D kinematics, and 2-D kinematics (chapters 1-3), Newton's laws of motion and gravity (chapters 4-5), work, energy, linear momentum (chapters 6-7), rotational motion and static equilibrium (chapters 8-9), fluids, vibrations, waves, sound (chapters 10-12), and temperature and kinetic theory (chapter 13). The two main objectives of the course are (1) to learn and understand the physics concepts in these chapters and (2) to be able to use the concepts to solve physics problems in class and in life. As in most physics classes, critical thinking, analytical reasoning, and problem solving skills will be emphasized. These abilities are crucial in physics (and can be carried over into many other fields or endeavors).

**Grading Scale:** A's: 90-100%, B's: 80-89%, C's: 70-79%, etc. The +/- grading scale will be used.

Grades will be based on homework, tests, and the final exam:

Homework	15 %
Three tests	20 % each (tentatively: Sept. 23, Oct. 28, Dec. 2)
Final exam	<u>25 %</u> (Wednesday, Dec. 11, 2013, at 8:00 a.m.)
Total	100 %

If you must miss a test or the final exam because of a civil duty (e.g., jury duty or military service), official University competitions, performances, or travel, religious observations, or certain scheduled medical procedures, please inform Dr. Marshall ahead of time to arrange an accommodation. Missing a test or the final exam without prior notification of Dr. Marshall may lead to receiving a zero on the test/exam. However, illnesses and other problems, which sometimes occur unexpectedly, may lead to an accommodation in this policy.

Homework will be assigned almost every class day. Each assignment is due at the **beginning** of the next class. Homework assignments turned in at or before the second class meeting after the original due date, will be graded with a 25% late penalty assessed. Homework assignments turned even later will receive a zero. This policy may be adjusted for extended excused absences (e.g., due to an extended illness).

Homework is one way of practicing and applying your knowledge physics. **You won't learn much physics if you don't practice using it.**

### **Homework Rules:**

1. Homework is due at the **beginning** of class on the due date.
2. For homework please use white paper that is 8.5 x 11 inches with no torn or tattered edges. Multiple homework pages should be stapled together. You may use the back.
3. **Show all your work**; the answer alone is not worth anything. Homework solutions must be **explained with enough English to be understandable**.
4. Homework answers should have units and a reasonable number of significant digits.
5. You may work with others on homework (but not on the tests or final exam).

Class attendance is expected, since everything you need to know on the tests will be discussed in class. Arriving late to class or leaving early distracts everyone (me especially). If you are taken ill during class, feel free to leave.

It is University policy to provide, on a flexible and individual basis, reasonable accommodations to students who have disabilities that may affect their ability to participate in course activities or meet course requirements. Students with disabilities, which have been verified through the [Office of Student Disability Services](#), need to contact me at the beginning of the semester to discuss their individual needs for accommodations.

Since this is an Honors College section of Phys 213, I'm including the following Honors College policies:

### **Academic Integrity**

*Academic integrity is essential to all the values upon which the university is founded. Honors students must therefore embody academic honesty in all aspects of their work. A student with a documented case of plagiarism or academic cheating in an honors course will face the possibility of receiving the grade of F for the course and being dismissed from the Honors College. Specific consequences of such behavior will be determined by the administration and individual faculty member.*

### **Attendance Policy**

*Honors courses are small classes, usually taught in seminar style with no more than fifteen students. They are reading, writing and discussion intensive. Student participation is therefore essential. In addition, the university commits extensive resources, especially in terms of faculty time, to these small classes. For these reasons, the Honors College has an attendance policy for all honors courses, both required and departmental. Students are entitled to two absences in Tuesday/Thursday classes and to three absences in Monday/Wednesday/Friday classes. Consequences of additional absences will be determined by the individual faculty member, but additional absences will lower your grade.*