

# Physics 213 – Syllabus

## Fall 2007

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### General Information

**Professor: Dr. Josh Gladden**

email: [jgladden@olemiss.edu](mailto:jgladden@olemiss.edu); Phone: 915-7428

Office: Kenon Observatory #1 and NCPA 1062

Office Hours in Kenon Obs.:

Mon. (10:00 – 11:00)

Thurs. (11:00 – 12:00), or by appointment at the NCPA

Website: [www.phy.olemiss.edu/~jgladden/phys213/](http://www.phy.olemiss.edu/~jgladden/phys213/) (check regularly!)

Lecture: M W F 9:00 – 9:50 PM in Lewis 101

Required Text: Giancoli, *Physics*, 6<sup>th</sup> Edition (Pearson 2005)

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### Course Description

This is the first course of a two-course sequence on general physics, mainly for pre-med majors. (The companion course is PHYS 214.) Students who enroll must also take, or have previously passed, the PHYS 223 lab course.

We cover roughly the first half of the textbook. The main themes are: Motion, forces and energy for objects in one and two dimensions; analogous topics for larger objects that can rotate; material properties of solids and fluids; oscillatory motion; and heat.

Significant goals of this course are for students to improve their analytical reasoning and problem solving skills. Part of this consists of “applying equations” and “getting the right result”, but students will be evaluated on a broader set of skills, including the way they analyze a problem and place it in context, as well as the way they write about it.

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### Evaluation

#### Weights

Homework .. 10%

Test 1 ..... 20%

Test 2 ..... 20%

Test 3 ..... 20%

Physlet ..... 5%

Final Exam .. 25%

**Homework:** Homework will be assigned for each chapter we cover; announcements will be made in class and posted on the course website. Most homework will be done through the on-line companion to the course known as PH Grade Assist (PHGA) offered through the publisher. You will need the access code in your text book to register with the PHGA website ([www.prenhall.com/phga/](http://www.prenhall.com/phga/)). The assignment home page for this course is [http://phga.pearsoncmg.com/phga2/classes/gladden\\_213/](http://phga.pearsoncmg.com/phga2/classes/gladden_213/). More detailed instructions can be found at my course website listed at the top of the page.  
(See note under **Group Work** below.)

**Tests:** There will be three midterm tests and a final exam, consisting of

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## Course Policies

### Letter Grades

Typical letter grade break points are as follows:

A: 85% - 100%

B: 75% - 84%

C: 65% - 74%

D: 55% - 64%

F: < 55%

(subject to change)

essay style questions, problems to be worked out, and multiple choice questions. Students will be allowed to use a calculator, but no books or notes during the tests.

**Physlet/PhET:** Students who complete a session with the on-line physics computer tutoring system, as explained in the class announcements page later in the semester, will get full credit (100%) for 5% of the total grade of the course.

**Final Exam:** A cumulative final exam will be given on Wednesday Dec. 5 from 8 – 11 AM. Details on the topics stressed and exam policies will be given later in the semester.

### Absences

There is no attendance policy for the course, but keep in mind that you will be responsible for knowing what is said in class, and absences from tests count as zeros, unless they are justified. If you must be absent during a test for a University sponsored event, you **MUST** discuss this me before the test date. In the case of an unexpected emergency, you must make contact with me as soon as possible and have documentation.

### Academic Integrity (Cheating)

Academic integrity is essential to all the values upon which the University is founded. Students must therefore embody academic honesty in all aspects of their work. A student with a documented case of plagiarism or academic cheating in a course will receive the grade of F for the course and may face disciplinary action by the University, including expulsion. You should know that I take this **SERIOUSLY**.

### Group Work

Physics is very rarely done alone. I encourage you to form study groups in preparation for homework assignments and tests. **HOWEVER**, the homework assignments should be the work of the individual student. If you can not do the homework, you will not do well on the tests!

### Changes

Any changes will be brought to your attention and posted on the web site.