

## SPRING SEMESTER, 2010

### Syllabus for PHYSICS 214: General Physics II

Lecture time/place: MWF, 8:00-8:50 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 7:30-8:00 a.m., 109 Lewis

Another time may be added later in the semester.

Text: *Physics*, 6<sup>th</sup> edition, by Douglas C. Giancoli

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

**Objectives:** In this course we cover the second half of the book, beginning with chapter 16. The topics will include electricity (chapters 16-19), magnetism, electromagnetism, and electromagnetic waves (chapters 20-22), optics and the wave nature of light (chapters 23-25), and modern physics (chapters 26-32). 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.

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

Homework	20 %
Three tests	20 % each
Final exam	<u>20 %</u> (Monday, May 3, 2010, at 8:00 a.m.)
Total	100 %

Homework will be assigned almost every class day. Each assignment is due at the **beginning** of the next class. 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. Late homework not will not be accepted.
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 214, 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.*