

## SPRING SEMESTER, 2014

### Syllabus for PHYSICS 310: Mechanics

Lecture time/place: TTh, 8:00-9:15 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 and 9:20-10:00 a.m., 126 Lewis.

Text: *Analytical Mechanics*, 7<sup>th</sup> edition, by G. R. Fowles & G. L. Cassiday

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

Goals: In this course we cover many aspects of classical mechanics. The course will be based on Newton's laws. Among the subjects we will discuss are oscillations, non-inertial reference frames, gravity and orbits, rigid body motion, and Lagrangian mechanics. 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	25 %
Two tests	25 % each
Final exam	<u>25 %</u>
	100 %

#### Homework Rules:

1. Homework is due at the **beginning** of class on the due date.
2. Homework paper should be 8.5 x 11 inches with no torn or tattered edges.  
Homework papers should be stapled.
3. Show all your work; the answer alone is not worth anything. Homework problems must include enough English to be understandable.
4. Homework answers should have units and a reasonable number of significant digits.

Class attendance is not required, but is strongly encouraged, since almost everything you need to know in the class will be discussed in class. Arriving late to class or leaving early distracts everyone (me especially). Both are rude, so please avoid them. If you are taken ill during class, feel free to leave immediately.

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.