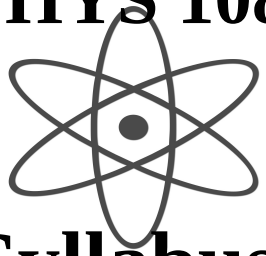
PHYS 108



Syllabus

LECTURE:

Monday & Wednesday 3:00-3:50 PM
Room 101 Lewis Hall

LABORATORY:

Section 10: Tuesday 7:00-8:50 PM, Room 212 Lewis Hall
Section 11: Wednesday 7:00-8:50 PM, Room 212 Lewis Hall

INSTRUCTOR:

Dr. Alexander Dietz
Office: Room 203A Lewis Hall,
Phone: 915-5711
email: adietz@olemiss.edu

OFFICE HOURS:

Monday 4:00-5:00 PM
Wednesday 4:00-5:00 PM
or by appointment

TEXT:

Conceptual Physics, 11th edition, by Paul Hewitt

LAB MANUAL:

Physical Science Physics 108 Laboratory Manual
(available from UM Publishing Center in Sam-Gerard Hall)

COURSE WEBSITE:

http://www.phy.olemiss.edu/~dietz/PHYS108/PHYS108.html

GOALS:

The goals of this course are to provide an interesting, enjoyable and accurate introduction to the concepts of physics; to show the methods of scientific reasoning; and hopefully to leave a lasting awareness and wonder about our physical world.

If those goals are met, then your ability of understanding and dealing with every-day's world will be enhanced, letting you see the world from a different perspective.

PHILOSOPHY:

Physics is the most basic science, and therefore the foundation of all other sciences. Therefore, it should be part of the general education for both, science and non-science students. Physics is essential for understanding the world around us, as well as our relationship to it.

Unfortunately, the mathematical skills required to "do" physics often deter average non-science students from an encounter with this subject. I will therefore attempt to avoid those mathematical obstacles by presenting the ideas behind physics on a conceptual basis. Mathematical equations will only serve as a guide to think about the relationships in nature rather than as recipes for algebraic computations.

CLASS POLICIES:

- ☞ Please **arrive on time** for the entire lecture
- ☞ Read the textbook chapter which I will cover in lecture **before** coming to that lecture
- ☞ I will post **study aids**, like suggested exercises, on the course website. Those exercises will not be collected, but the Tests might overlap with them. You should try to work those exercises and problems, and discuss them with me, if you wish, during my Office Hours or Review Sessions.
- ☞ Lecture attendance is **strongly recommended**. I will give daily quizzes in class which will count as extra credit.
- ☞ Anything covered in lecture **may appear on a Test**, whether or not it can be found in the text or Study Aids.
- ☞ Students caught **cheating** in any way are given zero credits and possibly expelled from the course.

TESTS/QUIZZES:

There will be four Tests given during the semester. Extra credit will be added to each Test score depending on the scores earned on the **quizzes**, which cover them same material as the Tests.

0-2 answers correct: 1 extra credit
3-4 answers correct: 2 extra credits
all 5 answers correct: 3 extra credits

The Tests will be multiple-choice with 33 questions. Each Test give a maximum of **100 points** in case all answers are correct. With extra credit a **maximum score of 115** is possible.
Please note that you must remain in class for at least 20 minutes on Test days.

FINAL EXAM:

Thursday, May 10, 4:00-7:00 PM

REVIEW SESSIONS:

Before each Test I offer Review Sessions. Location and times will be announced in class.

LABORATORY:

Please see the Laboratory page for details, but note that lab attendance is mandatory and **three missed labs will result in an automatic F for the entire course!**

GRADING:

The final grade will be composed as follows, with the lowest score out of the four Tests being dropped.

Laboratory	30%
Test1	15%
Test2	15%
Test3	15%
Final Exam	25%

A: >90%
B: 80-89%
C: 70-79%
D: 60-69%
F: <59%