Course Outline

Course: Phys 213 General Physics I- Section 3
Instructor: Dr Alakabha Datta
Office: 121-B Lewis Hall
Meeting: M-W-F 12-12.50 pm at Lewis 109
Office Hours: M-W 11am-11.50 am or by appointment.
Email:datta@olemiss.edu, datta@phy.olemiss.edu
Phone: (662) 915-5611
Course homepage: Check Blackboard

NOTE: You should take the Lab Phys 223 along with this course if you have not passed it already.

Book

Physics
Principles with Applications
Sixth Edition

by
Douglas C. Giancoli
University of California, Berkeley

Course Goals: Learning basic laws of physics and its application to various sciences, especially life sciences and to everyday life. You will also learn to analyze problems logically and systematically. This is the first part of the General Physics program- the second part will be covered in Physics 214. In the first part we will mainly discuss laws of motion, physics of fluids, waves, kinetic theory and heat.

Marking:

Homework: 30 %

Homework: I will assign weekly homework that has to be turned in one week. No late homework will be accepted after the due date. Please write your name in block letters and include the problem set number with your homework. You can get help to do your homework (including help from the internet) but turn in your own work. Do not copy from someone. You are not authorized to use the Instructor's Solution Manual. There is a tutoring room available for help with your homework.

Homework solutions will be emailed to all students and will be posted on Blackboard.

Tests: 45%

There will be 3 tests each worth 15% and will roughly given at intervals of a month. Each test will cover one class period (50 mins). The dates will be announced later but you will be notified in advance of the test date and the topics included in the test. One of the tests will be given and graded before the last day to drop the course.

Final Exam: 25%

The final exam will be based on chapters covered after the last test though you will be required to use material and concepts covered in earlier chapters not included in the final exam. The exam will be at most 2 hours.

Time of Final Exam: Monday Dec 3, 2007 at noon (See Class Schedule)

An overall course average of the following percentages will guarantee the corresponding letter grade:

90%	A
80%	B
70%	C
60%	D

Topics Covered in course: Topics will be taken from the following chapter. Click on the chapter link to access useful information.

- Chapter 1: Introduction
- Chapter 2: Describing Motion: Kinematics in One Dimension
- Chapter 3: Kinematics in Two Dimensions; Vectors
- Chapter 4: Motion and Force: Dynamics
- Chapter 5: Circular Motion; Gravitation
- Chapter 6: Work and Energy
- Chapter 7: Linear Momentum
- Chapter 8: Rotational Motion
- Chapter 9: Bodies In Equilibrium: Elasticity and Fracture
- Chapter 10: Fluids
- Chapter 11: Vibrations and Waves
- Chapter 12: Sound
- Chapter 13: Temperature and Kinetic Theory
- Chapter 14: Heat

Attendance: There is no attendance requirement. However if you miss an exam or cannot turn in HW on time because of illness I will require a doctor' note. If you will away on other reasons inform me prior to your absence and get a note if applicable.

Academic Integrity: We will follow the University's policy of academic integrity (M-book). Violations of these policies will result in a failing grade and other disciplinary actions. In particular you are not allowed the use of the Instructor's Solution Manual.