

GENERAL PHYSICS II

Physics 203	Instructor: Dr. D. Simpson
Section 4420	Office: 310-C Chesapeake Hall
Spring 2004	Office Hours: 5:00-6:00 pm Tue & Thu
Tue 6:00- 8:20 pm CH305	Telephone: (301) 322-0420
Thu 6:00-10:20 pm CH305	Email: PGCCPHY@att.net
	Course Web page: http://PGCCPHY.home.att.net/203/
	Textbook Web site: http://www.pse6.com

Textbooks:

Physics for Scientists and Engineers, Volumes 1 and 2, 6th ed., R.A. Serway and J.W. Jewett. Brooks/Cole, 2004.

Physics 203 Laboratory Experiments, Version 5, J. McClure, 2003.

Student Solutions Manual and Study Guide to Accompany Physics for Scientists and Engineers, Volumes 1 and 2, 6th ed., R.A. Serway and J.W. Jewett. Brooks/Cole, 2004. (Optional.)

Recommended Reference:

The Feynman Lectures on Physics (3 vol.), R.P. Feynman, R.B. Leighton, and M.L. Sands. Addison-Wesley, 1963.

Tentative Schedule

Week	Date	Topic	Chapter	Lab
1	Th 1/22	Electric Fields	23	-
2	Tu 1/27 Th 1/29	Electric Fields	23	1
3	Tu 2/3 Th 2/5	Gauss's Law	24	7
4	Tu 2/10 Th 2/12	Electric Potential	25	8
5	Tu 2/17 Th 2/19	Capacitance	26	9

6	Tu 2/24 Th 2/26	Exam #1 Electric Current	27	10
7	Tu 3/2 Th 3/4	Circuit Theory	28	11
8	Tu 3/9 Th 3/11	Magnetic Fields	29	12
9	Tu 3/16 Th 3/18	Ampere's Law	30	13
10	Tu 3/23 Th 3/25	Faraday's Law	31	14
11	Tu 3/30 Th 4/1	Exam #2 - Spring Break -		
12	Tu 4/6 Th 4/8	- Spring Break - - Spring Break -		
13	Tu 4/13 Th 4/15	Inductance & Maxwell's Equations	32	15
14	Tu 4/20 Th 4/22	Temperature	19	3
15	Tu 4/27 Th 4/29	Heat	20	4
16	Tu 5/4 Th 5/6	Kinetic Theory of Gases	21	-
17	Tu 5/11 Th 5/13	No Class (Exam Week) Final Exam		

Homework:

Homework problem assignments will be given every Tuesday during the recitation section and will be due the following Tuesday at the beginning of class. No late homework will be accepted. The lowest homework score will be dropped in computing your homework grade.

Recitation:

Each week during the recitation section you will be given a short problem to work in class. This problem will not be graded, but is meant to give you practice in problem-solving skills. We will go over the solution to the in-class problem during the latter part of the recitation section.

Laboratory:

Each week you will carry out a laboratory experiment and turn in a written report. Attendance at laboratory sessions is mandatory; you will not receive credit for laboratory sessions you did not attend. Laboratory reports will be due the following Thursday at the beginning of class and must follow the format outlined in the laboratory manual. The lowest laboratory score will be dropped in computing your laboratory grade.

Exams:

Two exams will be given during the semester and will be scheduled at least one week in advance. If you must be absent from an exam, consult with your instructor BEFORE the exam is given. There will be no need to memorize formulae for an exam; all the important formulae will appear on a formula page passed out with the exam.

Final Exam:

In addition to the two exams, there will be a comprehensive final examination on Thursday, May 13, 2004, from 6:00 - 8:30 pm.

Grading:

Your final grade will be based on your scores on homework, lab work, the two mid-term exams, and the final exam as follows:

Homework	20%
Laboratory reports	15%
2 exams @ 20% each	40%
Final exam	25%

The final grades will be determined according to the class average. The following scores will be the minimum required to earn the following grades:

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

Academic Integrity:

Academic honesty and integrity will be expected of you at all times -- for this course or any other. I will deal with infractions quite severely.

Photocopied assignments will not be accepted.