PHYSICS 102- General Physics
Course Information Spring 2003

Purpose of Course: This course will introduce you to the fundamental concepts of thermodynamics, electricity, magnetism and optics. As in PHYS101, vectors and basic calculus will be used.

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Office hours: MWF 10-11, and by appointment

Lecture: MWF 11:00-11:50 in Small 113

Textbook: We will continue to use Physics for Scientists and Engineers, 3d Edition (Prentice Hall, 2000), by Douglas Giancoli. Chapters 17-36 will be covered this semester. If you buy a multi-book set, make sure you have these chapters.

Laboratory: You are required to register for a laboratory section (PHYS102L). Laboratories will begin the week of 1/20.

Problem Session: You are required to register for a problem session (PHYS102P). Your problem session instructor will be either Prof. Keith Griffioen (PHYS102P1 and 4) or Prof. Hans von Baeyer (PHYS102P2 and 3). These problem sessions are meant to give you more examples to help you understand concepts and solve the assigned problems. It is highly recommended you attend! Your problem session instructor will be responsible for calculating your final grade and questions about grades and drop/add/withdrawal should be first addressed to them.

Homework: A set of homework will be due every week starting Friday 1/24, to be collected at the end of lecture. The assigned homework sets and due dates are given on the following schedule. The assigned problems will be announced the Friday before and posted on http://blackboard.wm.edu (under "Assignments"). Each set must be **stapled**, and include **your name**, **your problem session instructor** and your **problem session number** written on the upper right hand corner. *Late homework will not be accepted*. Your lowest score homework set will be dropped at the end of the semester. The homework will be graded by a student grader and answers posted on the web. The homework will be returned to you during your problem session. Note: To receive full credit on homework, *you must show your work* (i.e., equations you use), not just the answers.

Tutoring: Each Wednesday and Thursday starting 1/22, a faculty member will be available from 4-5 pm in Small Rm. 240 for tutoring. Please take advantage of this. The Society of Physics Students and individuals also offer tutoring.

Website: The class website is at **http://blackboard.wm.edu**. Each week I will post here a summary of the concepts covered in class, hints on the homework, solutions to turned-in homework, links to helpful websites and demonstrations, and other useful information. Take advantage of this!

General Education Requirements (GER): The combination of PHYS101 and 102, taken along with the laboratories, satisfies GER 2A (physical sciences).

Tests: There will be three 50-minute, in-class exams. They are given on the days noted on the following schedule. Please bring a calculator. The exams are closed book, and a sheet with relevant equations will be provided for you. The tests are graded by the faculty members associated with this course. The tests will test your knowledge of concepts as well as how well you can use the equations. Doing the homework problems as well as doing/reviewing examples done in class and the book will help you study.

FINAL: The comprehensive final exam will be given on Tuesday, April 29 from 8:30-11:30 am. Please note that only the office of the Dean of Undergraduate Studies (Ewell Hall 124) may grant requests to reschedule exams.

Grading: Your problem session instructor will assign your grade according to the following formula:

Course grade = (0.25)Lab + (0.10)Homework + (0.40)Tests + (0.25) Final Exam

Letter Grades: Your grades will be based on this scale:

	B+ 84-87	**C+ 71-74**	**D+ 58-61**
A 92-100	**B 80-83**	**C 67-70**	**D 54-57**
A- 88-91	**B- 75-79**	**C- 62-66**	**D- 50-53**

There will be no general curving. If the class average for a particular exam is well below expectations, an "adjustment factor" will be added to the scores.