

Physics 4C
De Anza College
Winter 2008

Instructor: Tom Kritzer
Email: kritzerthomas@fhda.edu
Homepage: <http://nebula.deanza.edu/~kritzer>
Office: S13
Office Hours: Wednesday 2:30-3:30pm and by appointment
Lecture Hours: MTWThF 1:30-2:20 pm (Room S34)
Lab Hours: T 2:30-5:10pm (Room S17)
Final Exam Date: March 27th at 1:45-3:45 pm
Text: Physics for Scientists and Engineers, Volume I and II: by Paul A. Tipler and Gene Mosca, fifth edition
Prerequisites: A passing grade in Physics 4B and concurrent enrollment in Math 1D

Note 1: *The last day to drop a class with a "W" is February 28th. Students who do not drop by this date will be given the appropriate letter grade for their achievement in the class at the end of the quarter.*

Note 2: *The last day to drop a class and receive a tuition refund is January 16th (January 9th for out-of-state and foreign students). Do not ask me to "back date" your attendance record in an effort to circumvent this date.*

OBJECTIVE

Our objective is to analyze the characteristics and principles of the four major areas of study: fluids (Chapter 13), waves (Chapters 15 – 16), thermodynamic systems (Chapters 17-19), and light and optics (Chapters 31-33). We will apply the principles of physics to solve problems in fluids, waves, thermodynamics and optics including various definitions, and mathematical techniques. There is also an associated laboratory, where selected lecture topics will be reinforced with hands-on learning.

ATTENDANCE

I expect you to prepare for and attend the lectures. Preparation includes reading the text and working through sample problems. I may drop you from the class if you miss more than four lectures, however, it is your responsibility to ensure being dropped or withdrawn from class if you stop attending the lectures or lab.

HOMEWORK and IN-CLASS QUIZZES

Homework will be assigned on a regular basis. A due date will be assigned to each homework set. There will be approximately six in-class quizzes on one of the homework problems or an example covered in the lecture. There will be no make-ups on quizzes unless previously arranged and approved by the instructor. Your lowest quiz score will be dropped.

MIDTERM EXAMS

There will be two closed-book, one-hour, in-class midterm exams and a closed-book, comprehensive final exam. No "cheat sheets" or note cards will be allowed on any of the exams. The exact dates will be given to you at least 5 days prior to each exam. You **must** take all the exams to pass the class. There will be no make-up exams without prior consent from the instructor. You can send me an email or leave a message with the department office (408.864.5695) **before the exam time** in case of emergency.

If there is a dispute or error in the grading of any homework, quiz, or exam, I will consider looking a second time only if you request a review and return it to me within 2 school days after I have returned it to you.

LABORATORY

Attendance in lab is mandatory. The current experiment must be done each week; no make-ups will be given. You may miss **no** labs without a **written** physician's note or some other documented and serious reason. Even with good reason, if you have miss 2 or more labs, you will fail this class. This is a department policy.

All data will be recorded in your lab journal. A write up each lab will also be done in your lab journal. The lab journals will remain in the lab classroom at all times. You will have your lab journal available for reference during the lab final exam.

The following items are required for lab:

1. Quad-ruled, non-spiral bound Lab Notebook (9 3/4" X 7 1/2" (less expensive, recycled paper) or 10 1/4" X 7 7/8").
This book will be kept permanently in the lab after you bring it the first day.
2. A pen and pencil.
3. A ruler.
4. A scientific calculator. It would be helpful if your calculator could perform statistical functions, but it is not required.

LABORATORY GRADING

Lab reports will comprise 50% of your lab grade. The lab final will comprise the other 50% of the grade. You will be allowed to use your lab notebook during the final, but may not take it home to study. You cannot make up a missed lab; you will receive a "zero" for that missed lab grade.

LAB EXPERIMENTS

Lab experiments will be available on my Home Page at <http://nebula.deanza.edu/~kritzer/>. You should be familiar with the experimental procedure before you come to lab. Reading the lab ahead of time will allow you to be prepared and efficient. All lab data should be taken in ink in the lab notebook. Use only one side of the page, and start each lab at the top of a new page. Write the name of your lab partner at the top right-hand corner of the lab report. Lab notebooks will be collected at the end of class and are not to leave the lab.

GRADING

On in-class quizzes, and exams you must show all your work in complete detail to receive full credit. Solutions should show your step-by-step, logical process used to obtain the solution. Solve the problems algebraically before "plugging in" numerical values. Be certain to include the appropriate units with your answer.

Grades will be comprised of the following components as follows:

Homework and in-class quizzes	10%
Lab	15%
Midterm 1	20%
Midterm2	20%
Final Exam	<u>35%</u>
	100%

Letter grades will be determined as follows:

A:	92-100%	C+:	72-76%
A-:	89-91%	C:	62-71%
B+:	85-88%	D:	51-61%
B:	81-84%	F:	0-50%
B-:	77-80%		

Overall class scores may be curved to fit this pattern.

De Anza College Academic Integrity

"The following types of misconduct for which students are subject to disciplinary sanctions apply at all times on campus as well as to any off-campus functions sponsored or supervised by the college: cheating, plagiarism or knowingly furnishing false information in the classroom or to a college officer."

Copying another student's work or problem solution, or copying from a "solution manual" both fall into the above categories and may result in disciplinary action. In addition to the above, a grade of zero points will be assigned to any work if a student has been found cheating on it.