

Physics 4C

Spring 2019

Instructor: David Newton

Office: S11a

Office phone: 864-8668

Email: newtondavid@fhda.edu

Web Site URL: <http://nebula2.deanza.edu/~newton>

Office Hours: Monday 11:30am -12:20 pm, Tuesday 12:30-1:20 pm, Wednesday 10:30 -11:20 am, Thursday 12:30-1:20 pm, Friday 12:30-1:20 pm, and by appointment.

Final exam date: Tuesday, June 25th: 1:45-3:45 PM. Finals will not be given earlier or later.

Text: Physics for Scientists and Engineers: by Serway, edition... whatever.

Prerequisites: Add passing grade in Physics 4B and concurrent enrollment in Math 1D.

- The goal of this course is to study four different topics grouped into two main categories. The first category is fluids and thermodynamics (first exam); the second is waves and light (second exam).
- If you miss more than five lectures you may find yourself dropped from the class.
- NO make-up exams will be given without PRIOR consent from the instructor. Use the office phone number given above if you can't see me at school. You must make arrangements to make-up the exam as soon as possible; if you wait too long (i.e., three days) to take your make-up exam, you will be scored a zero.
- No questions are allowed on the day of the exam regarding exam material. This does not apply to quizzes, just exams and the final. Any other type of non-physics questions on exam day are, of course, fine.
- **No exam score will be thrown out.** No cheat sheets or note cards will be allowed during exams and quizzes. Exams will not require detailed memorization of many equations.
- Your lowest quiz score will be dropped. About six quizzes will be given throughout the quarter based on the assigned homework.
- Grading mistakes, or protests for exams and quizzes will *only* be considered when a written cover letter is submitted to your instructor with the exam or quiz in question. Your appeal will be considered, and the resultant decision will be final. No protests will be considered orally, this includes simple addition errors.
- To pass the class you *must* take all exams and the lecture and lab final exam.
- A grade of zero points will be assigned to any work done if a student has been found cheating.
- You will be graded on the *union* of the information provided in the lecture and from the assigned text readings. The grades will be given on the traditional percentages:

A: 92-100%;

A-: 90-91%

B+: 88-89%

B: 82-87%;
B-: 80-81%
C+: 78-79%
C: 60-77%;
D: 50-60%;
F: lower than 50%.

The grade distribution is as follows:

Lab 10%

Homework/Quizzes 10%

Exams (2 Exams, equally weighted) 40%

Final 40%

Lab Policy: Lab attendance is mandatory. You may miss *no* labs without a *written* physician's note or some other documented and serious reason. **If you miss two labs even with a justified excuse or just one unexcused lab you will be liable for an instructor initiated drop from the entire course.** You are dismissed from a lab for the day after you have the instructor's permission to leave. Although you may leave the lab for a *short* time and then return, attending lab and leaving early for the day without explicit permission from the instructor will constitute an unexcused absence.

The **LABS SKILLS MANUAL** is recommended. Every lab requires the following items:

- 1. A *quadrille* ruled (looks like graph paper), non-spiral bound lab book. 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.**

Student Learning Outcome(s):

*Critically examine new, previously un-encountered problems, analyzing and evaluating their constituent parts, to construct and explain a logical solution utilizing, and based upon, the fundamental laws of waves, fluids, optics, and thermodynamics.

*Gain confidence in taking precise and accurate scientific measurements, with their uncertainties, and then with calculations from them, analyze their meaning as relative, in an experimental context, to the verification and support of physics theories.