

Physics 4C
General Introductory Physics
Mechanics, section 40
Spring 2024

Lectures M, TH 5:30pm – 7:45pm

Instructor:

Kasra Khazeni

Office:

S13

Contact:

email: khazenikasra@fhda.edu

Office Hours:

On Zoom: Mondays, 11:30am-12:30p
In office: Wednesdays, 12:25pm-1:25pm

Text:

Physics for Scientists and Engineers, 9th edition, by Serway and Jewett

Prerequisites:

Physics 4B

Attendance:

Attendance is necessary in order to keep up with the materials covered in class, as I may not follow text book's sequence. Attendance is crucial in the first two weeks of the quarter as you may get dropped out of the class. If you are ill, please notify me by email so I know the reason for your absence.

Objective:

This is a calculus-based physics class. Physics 4C covers fluid mechanics, thermodynamics, mechanical oscillations, and optics. Students need to have a strong background in algebra, trigonometry, geometry, and some knowledge of calculus.

You will require a SIMPLE non-graphing calculator with scientific notation during exams. Please turn off all cell phones/iPods/computers or similar devices while in class. No cell phone use during exams. NO SHARING of calculators during exams will be permitted.

Homework:

Suggested problems from the book will be assigned at the end of each chapter, which will not be required to be turned in, but it is strongly suggested that you work them out and become comfortable with recognizing the type of problem it represents and its solution. Working out the HW problems is one of the best ways to be prepared for the weekly quizzes, midterms, and the final exam. Please feel free to come and see me to discuss homework problems if you have any questions.

Quizzes:

There will be one quiz every week. No makeup quizzes will be permitted. Instead, the lowest quiz grade will be dropped at the time course grades are being determined.

Exams:

There will two midterms as follows:

Midterm 1: Wednesday May 1st

Midterm 2: Wednesday May 29th

Cheating Policy:

Cheating on an exam will result in an automatic "F" on that exam, with two incidents of cheating resulting in an automatic "F" in the class.

Grading:

Final grade:

88% - 100% = A

76% - 88% = B

64% - 76% = C

50% - 64% = D

Breakdown of the final grade:

Quizzes = 30%

Midterms = 25%

Lab = 20%

Final = 25%

1/2 hour, 1 or 2 problems, one quiz every week

There are no make-up exams, quizzes, or the final.

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.
- Acquire 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.

Office Hours:

M	11:30 AM	12:30 PM	Zoom
W	12:25 PM	01:25 PM	In-Person