

Physics 4A, sections 08Y, 09Y
Physics for Scientists and Engineers
Mechanics
Fall 2023

Lecture, MTWR 1:30pm – 2:20pm, Room S35
F 1:30pm – 2:20pm, through Canvas on Zoom

Instructor:

Kasra Khazeni

Office:

Online

Contact:

email: khazenikasra@fhda.edu

Office Hours:

W, 12:25pm-1:25pm in my office

Text:

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

Objective:

This is a calculus-based physics class. Physics 4A covers Newton's laws of motion, work, energy momentum, rotation, gravity, and oscillations. Students need to have a strong background in algebra, trigonometry, geometry, and some knowledge of calculus.

You can use either your cell phone, iPad, or computer for online instructions.

You will require a SIMPLE non-graphing calculator with scientific notation.

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 approximately one quiz every week CLOSELY related to the homework assignments. 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 be two exams 1/3 and 2/3 into the quarter. No makeup exams will be permitted. The dates will be provided later.

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, based on a curve of the whole class:

88% - 100% = A
76% - 88% = B
64% - 76% = C
50% - 64% = D

Breakdown of the final grade:

Quizzes = 30% 1 or 2 problems, approx. one quiz every week
Exams = 25%
Lab = 20%
Final = 25%

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

Student Learning Outcome(s):

- Examine new, previously un-encountered problems by critically analyzing and evaluating their constituent parts, to construct and explain a logical solution utilizing, and based upon, the fundamental laws of mechanics.
- Acquire skill and 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:

T,W	12:25 PM	01:25 PM	In-Person	S13
F	12:25 PM	01:25 PM	Zoom	