

Instructor Peter Ho

CRN# 02083

Contact hopeter@fhda.edu

Schedule

in person

Mon, Tues, Wed, Thurs @ 12:30 PM to 1:20 PM

remote

Fridays @ 12:30 PM - 1:20 PM

Location

Room S34

Office Hour

By appointment, see schedule of availability on Canvas.

Textbook

Conceptual Physics, 12th edition by Paul Hewitt

Required Materials

none

Prerequisites

MATH 109, 114, 130 or equivalent; or a qualifying score on the Intermediate Algebra Placement Test.

Course Description

In this course, we will explore fundamental concepts that make up our understanding of physics. We will then discuss the differences of theory and experiments in physics with minimal mathematical implementation. Where much of the interplay between discoveries occur by understanding the significance of theory come together.

On Student Commitment

Learning physics can both be rewarding and demanding for its abstract concepts. But, for every reward, there is an equal amount in work to meet the demand, and maintaining an understanding of the material. A recommendation is to commit at least the same amount of hours per unit, per week, or double the amount in class time outside of the classroom to complete assignments and prepare for the exams. In addition, and to some level of abstraction, the ability to connect physics concepts to mathematical formulation is a necessary component to this course.

Grading Criteria

The lecture portion of this course will consist of weekly homework assignments, quizzes, and a midterm. **This is a cumulative course with each assignment graded with the given weights.**

Assignment	Point Distribution	% weight
Homework $\times 10$	100 points total \Leftrightarrow 10 points each	30 %
Quiz $\times 4$	100 points total \Leftrightarrow 25 points each	30%
Midterm	50 points total	15 %
Final	50 points total	15 %
Project	30 points total	10%
Course Total	330 points	100 %

Exams

There will be one midterm for the quarter followed by a final exam at the end. Exam coverage comes for all previous homework and quiz topics leading up to the exam (i.e. cumulative).

Quizzes

There are a total of four quizzes at the end of each week

Homework

Homework will be assigned at the start of each week, meaning that there will be an assignment **due every Monday at 12:30 PM.**

Project Presentation

There will be a project due during last week of instruction. A project report is to be submitted a presentation of project of choosing.

Tentative Class Schedule

The general agenda for the class goes as listed on a weekly basis. Please keep in mind that this is tentative and is subject to change throughout the quarter.

Week of	Coverage of Topics	Assignments	Tests
9/26 - 9/30	Part 1: Mechanics	HW 1	
10/3 - 10/7	Part 1: Mechanics	HW 2	Quiz 1
10/10 - 10/14	Part 2: Properties of Matter	HW 3	
10/17 - 10/21	Part 3: Heat	HW 4	Quiz 2
10/24 - 10/28	Part 4: Sound	HW 5	
10/31 - 11/4	Part 5: Electricity and Magnetism	HW 6	Midterm
11/7 - 11/11	Part 5: Electricity and Magnetism	HW 7	
11/14 - 11/18	Part 6: Light	HW 8	Quiz 3
11/21 - 11/23	Part 7: Atomic and Nuclear Physics	HW 9	
11/28 - 12/2	Part 8: Relativity	HW 10	Quiz 4
12/5 - 12/9	Review and Presentations	Extra Credit	
Week 12	11:30 AM - 1:30 PM	Wednesday	December 14th

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 physics in general.

Office Hours:

By Appointment S41 M,T,W,TH 8:00 AM 12:30 PM