

Physics 10 Spring 2020

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Instructor: David Newton

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Office hours: : Monday no office hour, Tuesday 3:30-4:20 pm, Wednesday 2:30 3:20 pm, Thursday – 10:30-11:20am, Friday, 11:00 am - 11:50 am.

Final Exam: Wednesday, June 24th, 11:30 am – 1:30pm. Finals will not be given earlier or later.

Text: Conceptual Physics by Hewitt. 11th edition or whatever you can find that costs less.

All quizzes are open notes, open calculator, open internet, but since it takes time to cheat, I will not give you a lot of time to do these questions. An A student will get an A and never need to look at their notes. The more you need to look at your notes, almost certainly the lower your grade will be. Since the lowest grade I will give you will be a C, try to do the questions without looking at anything else. If you need more time to do the quizzes it means you aren't studying correctly. Let's talk about it.

I will be recording all the lectures, but they will only be available to view for about two or three days after they are given. You will have time to take notes for the lectures while they are available to view. After that, I will delete them. I will not be saving any of my lectures for future viewings.

- This course will explore the structure of physics from a purely conceptual standpoint. Few mathematical techniques will be used to express the rationale of our universe, instead, verbal logic will be employed. Few numerical calculations will be performed. Although it may sound easier to study physics without mathematics, actually this is a challenging goal and requires a skillful and precise use of language. We will start with mechanics and study motion, Newton's laws, energy, and momentum. Then on to the structure of the atom and the nature of matter. Electricity is next including simple circuits. And oscillations, wave motion, and sound are last. Special topics (light, relativity, quantum mechanics, etc..) will briefly be treated after that as time allows.\

- **Attendance is required! If you miss more than five lectures, you may find yourself dropped from the class (or after the withdraw date, receiving a grade of F). A missed quiz is considered equivalent to a missed lecture.**

A: 90-100%;

B: 80-89%;

C: 60-79%;

D: 50-60%;

F: not given unless an exam is missed or attendance is unacceptable

Overall class scores may be curved to fit this pattern.

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.