

## DE ANZA COLLEGE – PHYSICS 50.5Z – FALL 2022

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<b>Instructor:</b>	Eduardo Luna
<b>Email:</b>	<a href="mailto:lunaeduardo@fhda.edu">lunaeduardo@fhda.edu</a>
<b>Homepage:</b>	<a href="http://faculty.deanza.fhda.edu/lunaeduardo">http://faculty.deanza.fhda.edu/lunaeduardo</a>
<b>Lecture Hours:</b>	PHYS 50.5Z, MW, 5:30 – 7:20PM ZOOM link for live lectures is provided on Canvas Recorded ZOOM lectures will be available to view on Canvas
<b>Final Exam Date:</b>	Monday, December 12, from 6:15 – 8:15PM
<b>Text:</b>	PHYSICS 4 <sup>th</sup> Edition Vol. 1 by James S. Walker
<b>Required Calculator:</b>	Any type
<b>Advisory:</b>	Mathematics 43 and Physics 10.

The lectures, quizzes and exams for the quarter will be available on Canvas. You will need to have access to Canvas from MyPortal in order to take the quizzes and exams. You are also required to have a laptop and reliable internet connection to attend the lectures and take the quizzes and exams. You will need to have your video ON while taking the quizzes and exams. If you need help with Canvas, use the following link: <https://www.deanza.edu/online-ed/help.html>.

**Note: Last day to drop a class with a “W” is Friday, November 18 . Students who do not drop by this date will be given the appropriate grade for their achievement in the class at the end of the quarter.**

### **OBJECTIVE**

This is an algebra-based course in Classical Mechanics. The main objective of the course is for the student to understand the laws/theories and principles of Classical Mechanics in order to be able to describe the motion of a system so that we can better understand the physical world around us. The foundation laws of Classical Mechanics are Newton’s Laws of Motion. Thus, we can equivalently state that the main objective is for the student to learn and understand Newton’s Laws of Motion from a conceptual and practical viewpoint. This course will also help you develop the problem-solving skills as a preparation for Physics 4A. Classical Mechanics is often divided into two parts:

- a) Kinematics – The description of the motion of an object without regard to the forces causing the motion. We will describe the motion of an object (system) moving in 1-D and 2-D.
- b) Dynamics – The description of the motion of an object with regard to the forces that cause the motion. We will use Newton’s Laws of Motion to help us describe the motion of an object (system) with regard to the forces acting on an object.

In our study of kinematics we will learn how to analyze the motion of a particle in 1-D and 2-D. In dynamics we will learn to analyze the motion of a particle (system) by using Newton’s Laws of Motion.

## **ATTENDANCE**

You are expected to be in class at the beginning of each class for the rest of the quarter. In order to help you review for the quizzes and exams, the lectures will be recorded on ZOOM and posted on Canvas on a daily basis. If you stop attending class for any reason, it is your responsibility to ensure being dropped or withdrawn from the course in order to avoid an “F” in the class.

## **HOMEWORK**

Homework will be assigned on a regular basis but will NOT be collected. **However, it is your responsibility to have the homework completed before the following lecture.** It is essential to your success in this course that you put a solid effort into the homework. This is how you will learn physics and succeed in the class. If you are having difficulties with the class/homework, I strongly encourage you to:

1. Ask questions during class
2. Attend ZOOM office hours
3. Attend Tutorial Center

On the homework, quizzes, as well as on the exams, you need to show all your work in complete detail in order to receive full credit. Your solutions should show your step-by-step process and logic that was used to obtain the answer. **No credit will be given if no work is shown even if you obtain the correct answer to the problem.**

## **De Anza College Academic Integrity**

“The following types of misconduct for which students are subject to disciplinary sanctions apply at all times on campus as well as to any off-campus functions sponsored or supervised by the college: cheating, plagiarism or knowingly furnishing false information in the classroom or to a college officer”

Violating the Academic Integrity Policy will result in a grade of “F” in the class and the incident will be reported to the college disciplinary office.

## **QUIZZES**

There will be a quiz every Wednesday, the last 30 min. of class. The quizzes will be available on Canvas from 6:50PM – 7:20PM. This is the time you have to take the quizzes, scan them into pdf format, and then upload them into Canvas. The quizzes will generally be based on homework and lecture material for the corresponding week. Therefore, it is to your advantage to attend every lecture and have **ALL** the homework completed. If you miss a quiz, you will get a **ZERO** for that quiz. **NO MAKE-UP QUIZZES!** Lowest quiz score will be dropped at end of quarter.

## **EXAMS**

There will be three 50 minute exams and a comprehensive lecture final. Exact dates for exams will be given at least four days prior to each exam. The exam format may be work-out problems, multiple-choice, conceptual, or a combination of the three. The exams will be available on Canvas from 6:20PM – 7:20PM. This is the time you have to take the exams, scan them into pdf format, and then upload them into Canvas. The key to the success on the exams is preparation; **DO THE HOMEWORK**, attend the lectures, read the textbook and make sure you understand it, and ask questions if you don’t understand. **There are no make-up exams.** If you miss an exam you will get a **ZERO** for that exam. At end of quarter I will take the average of the lowest and highest of the three in-class exams and replace the lowest with the average. You must take ALL 3 exams in order to replace the lowest exam score by the average!

**Note: If there is a dispute in the grading of any quiz or exam I will consider looking at them a second time only if it is handed back to me within 2 school days after I return them.**

## **GRADING**

Grades will be based on the following components with the weights shown:

Quizzes	20%
Exam 1	20%
Exam 2	20%
Exam 3	20%
Lecture Final	20%

Grades will be determined as follows:

88% --->100%	= A
76 %---> 87%	= B
65% ---> 75%	= C
54% ---> 64%	= D
0 ---> 53%	= F

**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 mechanics.

**Office Hours:**

In-Person	S55A	F	08:30 AM	09:20 AM
In-Person	S55	M,T,TH	01:30 PM	02:20 PM
In-Person	S55	W	10:30 AM	11:20 AM