

DE ANZA COLLEGE – PHYSICS 50 – SPRING 2023

Instructor:	Dr. Ramin Alizadeh
Email:	alizadehramin@fhda.edu
Lecture Hours:	Tuesdays and Thursdays (5:30-7:20pm)
Classroom:	MLC109
Textbook:	Physics Vol.1. by James S. Walker (5th Edition)
Office Hours:	Tuesdays 4:30- 5:20pm (MLC109)

OBJECTIVE

The main objective of the course is to get a better understanding of the laws and principles of Classical Mechanics in order to be able to describe the motion of systems and better understand the physical world around us. Central to this understanding is Newton's Laws of Motion and hence their theoretical framework and applications will be covered during this course. This is an algebra-based course in Classical Mechanics which will also help you develop the problem- solving skills that you need as a preparation for Physics 4A.

Classical Mechanics is often divided into two parts:

1. a) Kinematics – The description of the motion of an object without regard to the forces causing such motion. We will describe the motion of an object (system) moving in 1-Dimension and 2-Dimensions.
2. 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 upon it.

STUDENT LEARNING OUTCOMES

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.

ATTENDANCE

You are expected to be in class at the beginning of each class for the rest of the quarter. If you stop attending the class it is your responsibility to ensure being dropped or withdrawn from the course in order to avoid receiving an "F" in the course.

HOMEWORK

Homework will be assigned on a regular basis. 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. (The quizzes you will be taking will generally be based on the homework problems assigned).

QUIZZES

There will be a quiz every Thursday at the end of class (starting from the 2nd Thursday). The quizzes will generally be based on homework and lecture material from 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 two 50 minute in-class exams and a comprehensive final exam. 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 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.

DISRUPTIVE BEHAVIOR POLICY

Any disruptive behavior during class will NOT be tolerated. If a student is in any way disruptive during the class, the student will be given a warning. If the problem continues, the student will be asked to leave the class and a formal disciplinary report will be filed with the college disciplinary officer. The incident will be recorded in your college record and will be sent with your transcripts to any university/college requesting student records.

ELECTRONIC DEVICE POLICY

The only electronic devices allowed in class are calculators and phones. The use of laptop computers is NOT allowed during class. Phones need to be set on 'silent' mode to avoid disturbing other students in the class. Phones or any other electronic device cannot be used to take video of any lecture material during class. Note-taking electronic devices are permitted with instructor's prior permission.

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.

DISABILITY SUPPORT PROGRAMS AND SERVICES

Students who have been found to be eligible for accommodations by Disability Support Services (DSS), please follow up to ensure that your accommodations have been authorized for the current quarter. If you are not registered with DSS and need accommodations, please go to the DSS office in the Registration & Student Services Building (RSS) – Room 141 for information on eligibility and how to receive support services. You can also go online to <https://www.deanza.edu/dsps/>

[Links to an external site.](#) for additional information.

GRADING

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

Quizzes:	20%
Exam 1:	25%
Exam 2:	25%
Final Exam:	30%

Grades will be determined as follows:

87% ---> 90% = A-	91% --->100% = A
75% ---> 79% = B-	80% ---> 86% = B
65% ---> 69% = C-	70% ---> 74% = C
51% ---> 59% = D-	60% ---> 64% = D
0 ---> 50% = F	

Here are some tips to succeed in the class:

1. Attend the classes
2. Take good notes
3. Do the homework and read the textbook assigned sections
4. Ask if you don't understand a concept and attend office hours

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.**

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:

T	04:30 PM	05:20 PM	In-Person	MLC109
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