

**DE ANZA COLLEGE  
PHYSICS 50  
WINTER-2009**

**Instructor:** Eduardo Luna  
**Email:** [lunaeduardo@fhda.edu](mailto:lunaeduardo@fhda.edu)  
**Homepage:** <http://faculty.deanza.fhda.edu/lunaeduardo>  
**Office:** S55A  
**Office Phone:** 408-864-8666  
**Office Hours:** MT 1:30 – 2:20PM, WTH 9:30 – 10:20AM, F 8:30 – 9:20AM  
**Lecture Hours:** Class 1: TWTh 12:30 – 1:20PM (Room G1)  
Class 2: TTh 5:30 – 6:45PM (Room L65)  
**Final Exam Date:** Class 1: Thursday, March 26 from 11:30 – 1:30PM  
Class 2: Tuesday, March 24 from 6:15 – 8:15PM  
**Text:** PHYSICS 3<sup>rd</sup> Edition Vol. 1 by James S. Walker  
**Prerequisites:** Advisory: Mathematics 49B and Physics 10.

**Note: Last day to drop a class with a “W” is Saturday, February 28. 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**

To develop the problem-solving skills in Classical Mechanics as a preparation for Physics 4A. To accomplish this you will first be introduced to the basic principles/concepts in Classical Mechanics and then learn to apply them to solve a wide variety of problems.

Classical Mechanics is divided into two parts:

- a) Kinematics – the description of the motion of an object without regard to the cause.
- b) Dynamics – the description of the motion of an object with regard to the forces that cause the motion. (Newton’s Laws of Motion)

Our main objective in Classical Mechanics will be to analyze the kinematics and dynamics of systems moving in:

- a) Translational( Linear) Motion
- b) Rotational (Circular) Motion

### **ATTENDANCE**

You are expected to be here at the beginning of each class for the rest of the quarter. If you miss more than three lectures you may find yourself dropped from the class. However, *it is your responsibility* to ensure being dropped or withdrawn from the course in order to avoid an “F” in the course if you stop attending lecture or lab.

### **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. (The quizzes will be based on the homework problems assigned). If you are having difficulties with the class/homework, here are some things that I recommend to help you succeed in the class:

1. Ask for help during class and attend office hours.
2. Work together and discuss problems with other students in the class
3. Use the college's resources (available free for students)
  - a) math and science tutorial center
  - b) EOPS
  - c) Student Success and Retention Program

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.** Answers to homework even problems will be posted on my homepage.

### **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"

*This statement implies that if a student intentionally copies another students work or a 'solution manual' the student will be subject to disciplinary action.*

### **QUIZZES**

There will be a quiz on Thursdays at the end of class. The problems on the quizzes will be directly from that week's homework problem set. Therefore, it is to your advantage to attend every lecture and have **ALL** the homework completed on a daily basis before the quizzes.

### **EXAMS**

There will be two-one hour in-class exams and a comprehensive final. The format for the exams will be similar to the quizzes - which will be based on using problem-solving techniques to solve a variety of problems.

Note: If there is a dispute in the grading of any exam homework, 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:

Quizzes1	40%
Exam 1	20%
Exam 2	20%
Final Exam	20%

Grades will be determined as follows:

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