DE ANZA COLLEGE – PHYSICS 50 – SUMMER 2015

Instructor: Eduardo Luna

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Homepage: http://faculty.deanza.fhda.edu/lunaeduardo

Office: S55A

Office Hours: No office hours during summer

Lecture Hours: TWTh 10:00 – 12:20PM (S35) (morning class)

TWTh 5:30 – 7:55PM (S35) (afternoon class)

Final Exam Date: Last day of class

Text: PHYSICS 4th Edition Vol. 1 by James S. Walker **Prerequisites:** Advisory: Mathematics 43 and Physics 10.

Note: See My Portal for last day to drop a class with a "W". 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:

- 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. An attendance sheet will be passed at the beginning of class. If you miss signing the attendance sheet **three or more lectures** you will 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 However, it is your responsibility to ensure being dropped or withdrawn from the course in order to avoid an "F" in the course if you stop attending lecture.

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 you will be taking will generally 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. Math & Science 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.** 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 (mini- test) on Thursdays the last 35 min. of class. The problems on the quizzes will be based on that week's homework problem set and lecture material. Therefore, it is to your advantage to attend every lecture and have **ALL** the homework completed on a daily basis. The quiz format may be work-out problems, multiple-choice, conceptual, or a combination of the three. The lowest quiz score will be replaced by the average of quiz scores. **NO MAKE-UP QUIZZES!**

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:

Quiz1	15%
Quiz2	15%
Quiz3	15%
Quiz4	15%
Quiz5	15%
Final Exam	25%

Grades will be determined as follows: