DE ANZA COLLEGE - PHYSICS 50 - FALL 2017

Instructor: Eduardo Luna

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

Office: S55A

Office Hours: M-TH 1:30-2:20PM

Lecture Hours: AM Class: M –TH, 8:30 – 9:20AM (S35)

PM Class: TTH, 5:30 – 7:20PM (S35)

Final Exam Date: AM Class: Wednesday, December 13, from 7:00 – 9:00AM

PM Class: Tuesday, December 12, from 6:15 – 8:15PM

Text: PHYSICS 4th Edition Vol. 1 by James S. Walker Required Calculator: Casio FX-300MS, TI – 30XIIS, TI-30Xa, or equivalent

Advisory: Mathematics 43 and Physics 10.

Note: Last day to drop a class with a "W" is Friday, November 17. 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. An attendance sheet will be passed at the beginning of class. If you miss signing the attendance sheet **five or more lectures** you will be 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 However, it is your responsibility to ensure being dropped or withdrawn from the course in order to avoid an "F" in the course if you stop attending lecture. <u>Signing the attendance sheet for another student will result in both students receiving an 'F' AND being dropped from the class and forwarding the incident to the college disciplinary officer.</u>

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
- 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"

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.

QUIZZES

There will be a quiz every Thursday for the AM and PM class at the end of class. 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 three 50 minute in-class exams and a 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. I will let you know before the exam if you can use calculators. 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 three in-class exams and replace the lowest with the average. You must take ALL four exams in order to replace the lowest exam score by the average of the four scores!

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:

ELECTRONIC DEVICE POLICY

WITH THE EXCEPTION OF SPECIFIED CALCULATORS, THE USE OF CELL PHONES, LAPTOPS, OR OTHER ELECTRONIC DEVICES IS NOT PERMITTED DURING CLASS!!! NOTE-TAKING ELECTRONIC DEVICES ARE PERMITTED WITH INSTRUCTOR'S PRIOR PERMISSION.

Failure to comply with policy will result in professor enforcing the <u>DISRUPTIVE BEHAVIOR</u> <u>POLICY</u>.