

## DE ANZA COLLEGE – PHYSICS 4D – SPRING 2012

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**Instructor:** Eduardo Luna  
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**Office Hours:** M 9:30-11:20PM, TWThF 12:15-12:45PM, F 8:00 – 9:20AM  
**Lecture Hours:** MTWThF 1:30-2:20PM (SC 1102)  
**Lab Hours:** F 9:30-12:10PM (Room S11)  
**Final Exam Date:** Thursday, June 28 from 1:45-3:45 PM  
**Text:** Modern Physics, 3<sup>rd</sup> Ed., Serway, Moses, and Moyer  
**Prerequisites:** Completion of Physics 4C and Math 1D with a grade of C or higher.

**Note: Last day to drop a class with a “W” is Friday, June 1. 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 course will cover special relativity and quantum mechanics. Applications of elementary quantum theory to nuclear, molecular, and solid-state physics and other selected topics will be addressed as time allows.

### **ATTENDANCE**

You are expected to be here at the beginning of each class, every day, for the rest of the quarter. If any preparation is required ahead of time, such as reading the chapter or working out problems, you are expected to have done it before you get to class. If you miss four or more 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 However, it is your responsibility to ensure being dropped or withdrawn from the course in order to avoid an “F” in the course if you stop attending lecture or lab.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. Although the homework is not collected, it is **YOUR** responsibility to have it completed by the following day after it is assigned. It is essential to your success in this course that you put a solid effort into the homework. If you are having difficulties with the homework I strongly encourage you to ask for help during class or come to see me during my office hours. I also encourage you to work together and discuss the problems with other students in the class. Answers to homework even problems will be posted on my homepage. On the homework, as well as on the exams and quizzes, you need to show all your work in complete detail in order to receive full credit. Your solution 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.**

### **QUIZZES**

There will be a quiz every Friday at the end of class. The quizzes will generally represent that week’s homework problems and lecture material. Therefore, it is to your advantage to attend every lecture and have **ALL** the homework completed.

## EXAMS

There will be two one-hour in-class exams and a comprehensive 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; read the textbook and make sure you understand it, attend the lectures, **DO THE HOMEWORK**, 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. Of the two one-hour in-class exams I will take the average of both exams and replace the lowest score with the average. You **must** take both one-hour in-class exams in order for me to replace the lowest exam score by the average!

Note: If there is a dispute in the grading of any exam, homework, or quiz 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	15%
Lab	20%
Exam 1	15%
Exam 2	15%
Exam 3	15%
Final Exam	20%

Grades will be determined as follows:

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