

Physics 4A Lab Syllabus

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Office:	S55A
Office Phone:	408-864-8666
Office Hours:	See class syllabus
Final Exam Date:	During lab on the last week of class
Required:	Lab Notebook (8.5" x 11") spiral type, Scientific Calculator

OBJECTIVE

1. To obtain a personal, hands-on experience with the experimental methods used in an introductory Classical Mechanics Laboratory course.
2. Reinforce the concepts and theories presented in the lecture.
3. Develop the knowledge and skills required to make accurate measurements and learn to analyze the errors and uncertainties associated them.
4. Learn to analyze data using graphical, statistical, and computer based techniques.
5. To write a coherent comprehensive scientific lab report in the appropriate format.
6. Collaborate with lab partners during the experimental procedure to accomplish the objective.

CLASS ATTENDANCE

You are expected to be here at the beginning of each class, every day for the rest of the quarter. Roll call will be taken when your name is called to pick-up your lab notebook. If you are not there to pick up your lab notebook you will be marked absent. If you are marked absent 2 or more times you will be dropped from the lab class which means you will also be dropped from lecture. However, if you stop attending lecture or lab **it is your responsibility** to ensure being dropped or withdrawn from the course in order to avoid an "F" in the course. Students can only attend the lab session that they are scheduled to attend.

LAB EXPERIMENTS

Lab experiments will be available on my HomePage at [http://faculty.deanza.edu/lunaeduardo/stories/storyReader\\$35](http://faculty.deanza.edu/lunaeduardo/stories/storyReader$35). A copy of the lab schedule for the quarter is also provided at this website. You will need to download and read the experiment for the corresponding week before you come to lab. Doing this will allow you to come to lab class prepared and be more efficient. Lab experiments are to be done in an 8.5"x 11" notebook and according to the Lab Report Format handout. Only write on one side of a page and start a new lab report at the top of a page. Write the names of your lab partners at the top right-hand corner of the lab report. The lab reports are due at the end of class. You will turn in the lab notebooks at the end of class, you do not take them home.

GRADING

1. Your lab report grades will be determined by the following scores:

Error Propagation Handout – 14 pts

Lab 1 : 20 pts

Lab 2: 20 pts

Lab 3: 20 pts

2. Lab reports will be worth 50 % of final lab grade
3. Lab final will be worth 50% of final lab grade. It will be a comprehensive final based on all the experiments that were performed during the quarter. You will be allowed to take the lab notebooks home to study for the lab final, but you cannot use the lab notebooks during the lab final.
4. There are no make-up labs. **If you miss a lab you get a ZERO**. You cannot attend another lab session to make-up lab.