

Physics 2A Lab Syllabus

Instructor:	Eduardo Luna
Email:	lunaeduardo@fhda.edu
Homepage:	http://faculty.deanza.fhda.edu/lunaeduardo
Office:	S55A
Office Phone:	408-864-8666
Office Hours:	Refer to Lecture Syllabus
Final Exam Date:	During Lab class on the last week of class
Required:	Spiral Lab Notebook (8.5" x 11"), Scientific Calculator, Metric Ruler, Protractor

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 for the rest of the quarter. If you miss 2 labs 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 However, if you stop attending lecture or lab ***it is your responsibility*** to ensure being dropped or withdrawn from the course in order to avoid an "F" in the course. Attendance will be taken at the beginning of class. If you are not there when your name is called you will be marked absent. 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.fhda.edu/lunaeduardo/> . A copy of the lab schedule for the quarter will be given to you. 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:

Lab 1 : 20 pts
Lab 2: 20 pts
Lab 3: 20 pts

2. Only 3 labs reports will be graded. At the end of the quarter I will take the average of the lowest and highest lab score and replace the lowest with the average. I will only do this if you've submitted ALL the lab reports.

3. Lab reports will be worth 50 % of lab grade
4. Lab final will be worth 50% of lab grade. It will be a comprehensive final based on all the experiments that were performed during the quarter. The lab course is worth 20% of the final class grade.
5. 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.