

## Physics 2A Lab Winter 2017

**Instructor:** Carrie Huang

**Class Time:** Tuesday 7:30 pm – 10:20 pm

**Classroom:** S17

**Office:** S 13

**Email:** huangcarrie@fhda.edu

**Office Hours:** Wednesday 7:45 pm – 8:35 pm and Thursday 7:20 pm – 8:35 pm.

**Final Exam:** March 28, 6:15 pm – 8:15 pm -watch out! Finals will not be given earlier or later.

**Textbook:** Fundamental of Physics 9th Edition, Halliday, Resnick, and Walker.

### 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.

### ATTENDANCE:

In order to comply with federal guidelines De Anza College requires students to attend class and class attendance records to be kept. A student may miss one lab for medical reasons. However, unexplained absence of more than 2 labs will result in a student being dropped. Students can only attend the lab session that they are scheduled to attend.

### LAB EXPERIMENTS:

Lab experiments will be available on Course Studio in MyPortal site. You will need to download, print, 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 a quad-ruled lab notebook and according to the Lab Report Format handout. You must 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. Lab reports will be worth 50 % of lab grade
2. 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.
3. 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.