University of California, Berkeley, Department of Physics Physics 5CL, Section 103, Fall 2017 Introduction to Experimental Physics II

Instructor Information	Course Information
Catherine Bordel	MF, 2 – 4:30pm
384 LeConte Hall	235 LeConte
cbordel@berkelev.edu	

Office Hours: Tu 2– 3pm Starting 8/29 384 LeConte Hall

Communication: Email is preferred. Please put [Phys5CL sec103] in the subject line of your email.

Instructional format:

2x 2.5 hrs of Laboratory work. Because of the nature of the course, your *attendance is mandatory*.

Enrollment Changes: All enrollment changes must be made online. You must attend the lab section in which you are officially enrolled.

Drop Deadline: Friday, September 22, Midnight. Please drop the course if you decide not to take it.

Graduate Student Instructor:

Course Webpage: bcourses.berkeley.edu

Prerequisites:

Math 1A, Math 1B, Physics 5A or (H)7A, Physics 5B or (H)7B and Physics 5BL are prerequisites. Physics 5C should be taken concurrently.

Introduction:

Physics 5CL is the second part of a two-semester course on laboratory physics. It is a new course that was part of the original Physics H7 series and that is still in its development phase. The topics covered by these labs are geometric optics, modern physics and thermodynamics.

Learning goals for Physics 5CL:

At the heart of experimental physics is measurements, their interpretation and their analysis. The purpose of this course is to strengthen the experimental skills that have been previously developed in 5BL and to prepare you for upper division lab classes as well as for participating in research.

Textbooks:

There is no required textbooks for the course. All laboratory assignments can be found on bCourses.

Laboratory Notebook:

<u>You are required to have a laboratory notebook from the very beginning of the semester</u>. These notebooks must have permanently bound pages and must have graph paper. The following notebooks are available at the bookstore, and are appropriate for the class:

Tops Computational Notebook (35126) Roaring Spring Laboratory Notebook (77591)

Assessment:

There is no midterm or final exam for this class. Rather, your grade will be determined in the following way:

Lab 1	10%
Lab 2	10%
Lab 3	10%
Lab 4	10%
Lab 5	10%
Lab 6	10%
Lab 7	10%
Lab 8	10%
Final project	20%

A grade of "Incomplete" will only be given under dire circumstances beyond a student's control, and only when work already completed is of at least C quality.

You will be working in groups of three on all laboratory assignments. Nevertheless, you each will be taking your own notes, and it is expected that each one of you will have a laboratory notebook and will make use of it. Write the name of each student in your group for each lab assignment that you turn in. Only one notebook - determined randomly- from each group will be graded for each lab, which means that all the students from the same group will receive the same grade (unless we notice that the workload is not fairly split). You will also receive a group grade for the final project, based on an oral presentation in which each group member is expected to participate.

Keep in mind that attendance is mandatory. However, there is an opportunity to make up <u>one</u> laboratory assignment toward the end of the semester.

Accommodations:

If you need disability-related accommodations in this class, if you have emergency medical information you wish to share with the instructor, or if you need special arrangements in case the building must be evacuated, please inform me immediately.

Help:

If you are in trouble for whatever reason, please let me know immediately so you can get help as soon as possible.

Intellectual Honesty:

The student body of UC Berkeley has adopted the following honor code. "As a member of the UC Berkeley community, I act with honesty, integrity, and respect for others." The hope and expectation is that you will adhere to this code.

Note that some changes may happen to address problems and improve the smooth running of the class.