

PHYSICS 1B

SYLLABUS

WINTER 2017

TEXT: *Physics*, Douglas C. Giancoli, 7th Edition

LECTURE: TR 10:30-11:50am, 66 Roessler

INSTRUCTOR:

Prof. Kai Liu, 207 Physics;

Tel: 530-752-4109; kailiu@ucdavis.edu

Office Hour: W 2-3pm, 207 Physics;

Problem Session: W 5:30-6:30pm, 285 Physics

Check calendar in Canvas for up-to-date schedule

TEACHING ASSISTANT

Robert Knight, riknight@ucdavis.edu

Problem Session: M 2-3pm, 285 Physics

READER

Fayez Abu-Ajamieh, abuajamieh@ucdavis.edu

Office Hour: T 12-1pm, 394 Physics

COURSE WEBSITE:

<http://canvas.ucdavis.edu>: For assignments, slides, solutions, announcements, scores, etc.

<http://liu.physics.ucdavis.edu/phy1b/Index.html>: For schedule.

COURSE REQUIREMENTS:

THINK about the physics we discuss, of course you have to be awake. Read the textbook before class. Lecture presentations will be posted online before class in pdf format. During class, concentrate on understanding; copying the lecture notes is secondary. I anticipate your involvement and feedback throughout the lecture, in the form of Q/A's, discussions, demonstrations, etc. At the end of each class, I encourage you to write a short note, describing what you've learned, what you don't understand, and comment on my pace and teaching style, suggestions, etc. Summarize the lecture for yourself too.

Attending the lectures is required. Classroom Participation means responding to questions posed in class with your clicker. We will use the type recently adopted as the standard at UCD, the iclicker 2, available at the bookstore. *Make sure your clicker has your UCD student ID, or you will not receive credit, and do not borrow or lend a clicker, for either of these actions is likely to invalidate credit already recorded for the borrower or lender or both!* Each clicker has a unique internal ID, and a change of student id can erase earlier records. Note: Make sure you register your iClicker online. It's a prominent choice on the site <https://www1.iclicker.com/register-clicker/>.

HOMEWORK AND EXAMS:

Homework will be assigned but not collected. You are expected to have completed the homework by the quiz/exam date prior to class. There will be several 15-min, *closed book and notes* quizzes at the end of lecture on the dates specified. The quiz will consist of a few slightly modified homework problems (numbers changed, etc). The homework problems are a very important part of the course and those assigned are considered the bare minimum necessary to understand the course material. A student wanting to get an "A" should expect to work many more problems on his/her own.

There will be two mid-term exams and a final exam, as shown in the course schedule (subject to change). A brief formula sheet will be provided. The problems in midterms & final will be similar to those in your homework, but may be asked *differently*. Do not expect "plug & play" type of questions. You need to really understand the course materials to solve the problems. Those needing special academic accommodations during exams must provide written Letter of Accommodation from SDC two weeks before the test date.

To accommodate unexpected schedule issues, sickness, etc, we will drop one lowest quiz score and one exam score. Neither makeup quizzes/exams nor early final will be given. Arrange your travel plan accordingly.

GRADING POLICY:

Quizzes: 30%; Exams (2 out of 3) 30% × 2; Class participation 10%

Cheating will not tolerated, and will be reported to Student Judicial Affairs. For all quizzes and exams, answers must show the basic principles used in the solution. **ANSWERS WITHOUT EXPLANATION WILL NOT RECEIVE CREDIT, EVEN IF CORRECT.** Messy handwritings will receive lower scores. **There will be NO change of score after one week of return date.**

FINAL EXAM: WEDNESDAY, MARCH 22, 8:00AM-10:00AM, 66 ROESSLER