

them. We suggest working through at least some of the problems in Elby before attempting each week's homework assignment. This is a **suggested** text.

Discussion/Laboratory (D/L) Sections: You must be registered in DIS and LAB sections with the same number (e.g. DIS 205 & LAB 205). They meet twice a week for two hours. You *must* attend all of your registered sections during the first two weeks or you may be dropped from the course; if you must miss one, contact your GSI (and the Head GSI to be safe) so you don't get dropped. Some LAB meetings will be laboratory sessions and some will be discussions with **graded quizzes** in some cases. Attendance at *all* D/L sections is part of the course, and you are responsible for the material presented there. Sections provide an opportunity to ask questions, discuss areas you're uncertain of, and to further cement your understanding.

Make-up labs: If you miss a lab session, you must make it up within a week. E.g., if you miss your lab on Wednesday, you must make it up before your class the following Wednesday. Do the lab (unobtrusively!) during some other section, and turn it in to your GSI at the next meeting. There will be no make-ups at the end of the semester. Missed labs will have a bad effect on your grade. You must complete at least 6 of the 7 labs to pass the course, and missing one lab will affect your grade.

Readings: Reading the textbook and working problems is the best way to succeed in Physics 7A. Be prepared for lecture and section by reading the assigned sections in advance. Lectures and sections both assume that some of the basic material has been learned from the text already; you will be at a significant disadvantage if that's not true. Reading assignments will be posted in lecture and listed in the Working Syllabus posted and updated on bCourses.

Homework: Working on homework problems is central to your learning the course material — you learn physics by **doing it** more than you can from just reading the text or watching others solve problems. You will have a weekly problem set of varying difficulty from the text, due **Friday at 11:00 PM**. The first assignment is due Friday of the first week of classes, though it will not be for credit. **Late homework will not be accepted. We will, however, drop your lowest homework score.** Homework is assigned and submitted via the web (see info on course web site). This has the advantage that you get rapid feedback on whether you understand the material, and the system has some ability to prompt you past difficulties. Remember: the benefit comes from *working* the problems, not just from handing in the answers.

To submit your online homework you will need a Mastering Physics access code, which you can get bundled with the textbook and workbook for this course as described above. The website is located here: <http://www.pearsonmylabandmastering.com/northamerica/masteringphysics/>

You will also need the Mastering Physics Course ID for this lecture section, which is:

MPDEWEESE94463

You should attempt each homework problem for yourself, but we encourage you to work with peers when you get stuck. Try to get just enough help to overcome the current sticking point and then go back to trying to solve it on your own as much as possible. When submitting work as your own, you are stating that the solutions you are presenting are *your own*, and are not just answers copied out of a book or from a friend. You will only learn from doing the problems if in the end you can formulate your *own* solutions to new problems! Writing out your solutions before entering your answers into Mastering Physics will help you identify mistakes and prepare you for exams.

Lectures: Lectures are where we talk about some of the harder topics, and try to pull together knowledge you've gained in reading, D/L sections and from doing the homework. *It is OK to ask questions!* Just stick up your hand so I can see you (there are many students in this course, so you may have to wave your arm so I notice that your hand is up). My advice is *not* to attempt to get every word down in your notebook. Rather, try to think along with what's happening. *Thinking* about the material is a much better way of learning it than copying everything that is said in class into a notebook, in my view.

Exams: There will be two, two-hour midterm examinations from **7-9pm on Tuesday Sept. 26, 2017** and **Tuesday Oct. 31, 2017 (Halloween)**, plus a three-hour final exam **Monday, Dec. 11, 2017, 11:30am-2:30pm**. These exam dates, as well as midterm locations and midterm and final exam review session details are given in a separate document on bCourses. A Cal ID with your picture is required at all exams. One side of one 8.5"x11" sheet of *handwritten* notes will be allowed on the 1st midterm, and a double-

sided sheet will be allowed for the 2nd midterm and the final (you don't have to use the same sheet for MT2 and the final). You will need a bluebook (or greenbook; and please bring an extra one in case a friend forgets); I strongly recommend that you use the large size bluebook, since that makes it easier to write out solutions and for us to grade them. You may use pencil or pen, but **no** calculators, cell phones or other electronics, books, or scratch paper will be allowed.

Academic honesty: We encourage you to work with your fellow students when appropriate. Any form of cheating will be treated very severely, most likely by your failing the course and by referral to Student Judicial Affairs: <http://students.berkeley.edu/uga/conduct.asp>.

Grades: Your attendance and active participation in all parts of the course is expected. You are responsible for all information presented in lectures, D/L sections, and on homework assignments. Grades will be determined from a weighting of all the elements as follows:

first midterm exam	15%
second midterm exam	25%
final exam	40%
homework	10%
quizzes	5%
Laboratory write-ups	5%

In accordance with University policy, an **"Incomplete"** for the course can only be given under circumstances beyond a student's control, and only when work already completed is of *at least C quality*.

If you are in trouble: (behind in homework, doing worse in the course than you would like, etc.) for whatever reason, please let us know. We'll try to help!

There is quite a lot of material in this course, and not a lot of time to learn it. There are many resources available to help you. We strongly encourage you to take advantage of them.
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Physics 7A Syllabus

Fall 2017 Lecture 2

<u>Week</u>	<u>Tuesdays</u>	<u>Topics</u>	<u>Reading (Giancoli)</u>
1	Aug. 22 (no class Tu)	Intro / 1–D Kinematics	1, 2
2	Aug. 29	2–D kinematics / Projectile Motion	3
3	Sep. 5	Forces	4
4	Sep. 12	Forces & Newton’s Laws / Circular Motion	5
5	Sep. 19	Gravitation	6
6 ^I	Sep. 26	Work / Energy & its Conservation	7, 8
7	Oct. 3	Center of Mass / Linear Momentum	9
8	Oct. 10	Rotary Motion	10
9	Oct. 17	Rotational Dynamics / Angular Momentum	11
10	Oct. 24	Statics / Intro to Fluids	12, 13
11 ^{II}	Oct. 31	Fluids	13
12	Nov. 7	Oscillations	14
13	Nov. 14	Waves	15
14	Nov. 21	--- Thanksgiving week ---	
15	Nov. 28	Sound / Course Summary	16
16	Dec. 5	--- RRR Week ---	

Lab Schedule: Labs will be held on weeks 2, 3, 4, 9, 10, 13, and 15.

^IMidterm I: Tuesday Sep. 26, 7:00 – 9:00 PM, in 1 Pimentel

^{II}Midterm II: Tuesday Oct. 31, 7:00 – 9:00 PM, in 150 Wheeler

Final Exam: Monday Dec. 11, 11:30 AM – 2:30 PM (Exam group 2)