

Physics 6A Course Introductory Physics Fall 2002

Note: You are responsible for the information on this sheet whether you read it or not!!!

Physics 6A Instructor:

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All TAs will hold office hours in the Physics Study Center on the Third floor of Broida Hall, Room #3314 (hours to be announced)

Physics 6A and 6AL: Physics 6A (the lecture) and Physics 6AL (the lab) are separate courses. Your lab TA is the professor for 6AL and will assign your lab grade. For questions about 6AL, contact your lab TA.

Textbook: D.C. Giancoli, Physics 5th Edition. This book is required.

Websites:

Course web site: http://www.physics.ucsb.edu/~carlson/Physics_6A

All course information can be accessed from this site.

Textbook web site: http://cw.prenhall.com/bookbind/public_html/pubbooks/giancoli/

An excellent resource for on-line practice, questions and solutions.

Homework web site: <http://webassign.net/>

you will be using the WebAssign web site to do homework, which will count for 10% of your grade. The homework assignments will be updated on this site weekly, two are posted now.

The first assignment is due on Tuesday, October 1st, so log on to the WebAssign site ASAP. For instructions on how to use WebAssign, see the web site and the Homework section of this syllabus. If you have problems, contact your lab TA.

UCSB Library electronic reserve: <http://eres.library.ucsb.edu/>

The solutions to the homework and the exams will be available here.

Instructional Computing: As a Physics 6A student, you may sign up for Priority Access to the computers At Instructional Computing. Even if you have your own computer, this can be useful for those times when your hard disk goes haywire or your roommate is hogging the computer. Stickers will be distributed out in front of Phelps 1523 Thursday and Friday, Oct 3 and 4, from 9-4 PM. Bring a copy of your class syllabus or something else to show that you are enrolled in Physics 6A

Content: Physics 6A: Motion, Forces, Newtons Laws, Energy and Momentum. These topics are in Chapter (1-8) of the text.

Exams: There will be three midterm exams, given on Thursday October 17th, November 7th, and Tuesday, November 26th. The midterms will be held in Broida 1610 (the lecture room). Unless you make prior arrangements with Dr. Carlson, you must take each midterm in the section in which you are registered.

The lowest of your three midterm scores will be discarded and will not count toward your course grade. If you miss one midterm for any reason (illness, vacation, oversleeping etc.), your final grade will be based on the scores for the two exams that you do take. If you miss two or three midterms, you will receive a score of zero for the missed exams. There are no makeup midterms.

The final exam will be given on Tuesday, Dec 10, 2002 from 7:30 to 10:30 PM in Campbell Hall. The final exam must be taken as scheduled. Having 3 exams in one day is not a valid excuse for missing the final. If you must miss the final due to an emergency (serious illness, documented by a doctor's letter, or funeral for a parent or sibling), then you can arrange with Dr. Carlson to take next quarter's Physics 6A final exam. If you miss the final without a valid excuse, you will fail the course.

Note that you must bring a photo ID to each exam. The proctors may check your ID when you turn in your test. Be aware that each exam will have multiple forms, so that your exam will be different from those of people sitting around you. If you are seen passing information or cheating in any way, you will receive an F for the course. I will also file a report of Academic Misconduct with the Office of the Dean of Students, and will ask the Dean to apply the maximum penalty possible. **CHEATING IN ANY FORM WILL NOT BE TOLERATED.**

Homework: Homework is due every Monday by midnight. No late homework will be accepted. You will work homework assignments on the WebAssign web site (see above under "Websites"). The assignments will be posted on WebAssign each Monday.

Pay Close attention to the information on the WeAssign and below. If you have a question about working the homework that you can't answer by diligently consulting the web site, E-MAIL YOUR LAB TA.

First, you must register with WebAssign and pay the user fee by no later than 2 weeks after classes begin. You have two options for doing this:

1. **(preferred)** Go to the web site home page (<http://webassign.net/>), click the "Sign Up" or "Order Now" link, and follow the instructions to pay with a credit card.
2. Go to the UCSB Bookstore and buy a WebAssign access code card.

If you fail to register with WebAssign by the deadline, you will receive no credit for missed assignments.

You can then log in to WebAssign as follows:

- Go to WebAssign student login page (<http://webassign.net/student.html>).
- Enter your **user name**. This is the same as your perm number.
- Enter your **institution code**. This is **ucsb**.
- Enter your **password**. Your password has been set to your perm number. You should change this right away for security, but make sure that you remember your new password!

The best way to learn physics is by working problems. **So do the homework!!!**

Note: Some of the homework problems will be on material not discussed in class. You should be able to work these problems by reading Giancoli.

Additional suggested problems: The "Practice Questions" on the Giancoli web site are excellent. You should try these after reading the text to test your understanding. Don't hesitate to use the "hints" with the questions, and if you miss a question, be sure to review the relevant section suggested in the graded questions the web site returns.

For more problems, try the "Practice Problems" on the Giancoli web site, and the even-numbered questions in the book (the answers are in the back). The MCAT study guide questions on the back of Giancoli, are an additional source of problems. The exams will be based on homework and the Giancoli web site questions and problems as an incentive to do lots of problems.

Grading: Your total points for the course will be determined using the following formula:

Homework	10% of total points
Best of 3 midterm exams	25% of total points
Second best of 3 midterm exams	25% of total points
Final Exam	40% of total points

THIS COURSE IS NOT GRADED ON THE CURVE. Your grade in Physics 6A will depend on what percentage of the total possible points (from homework and in-class exams) you receive, using the following scheme:

Course Grade	Percentage of possible points Needed for this grade.
A+	90%
A	80%
A-	75%
B+	70%
B	65%
B-	60%
C+	55%
C	50%
C-	45%
D	40%
F	Less than 40%

Where to get help: If you experience difficulty in this course for any reason, please don't hesitate to consult with Dr. Carlson. A wide range of services is available to support you in your efforts to meet the course requirements.

- **Physics Study Center** This is on the 3rd floor of Broida. TAs are on duty here from 8:30 AM to 4:30 PM Monday through Friday. Any of them will be happy to help you with physics or math questions.
- **Campus Learning Assistance Service** 893-3269. CLAS helps students increase their mastery of course material through course-specific tutoring and academic skills development.
- **Counseling & Career Services** 893-2668; <http://www.counseling.ucsb.edu/>) offers counseling for personal & career concerns, self-help information and connections to off-campus mental health resources.
- **Disabled students program** (893-2668; <http://www.sa.ucsb.edu/dsp/>) DSP provides academic support services eligible students with temporary and permanent disabilities. Please inform me if you require special classroom accommodations due to a disability. You must register with DSP prior to receiving accommodations.

Reading Assignments: All reading assignments are from Giancoli Physics, and are to be completed before each lecture.

Lecture Schedule for Fall 2002

Week 1 (R)	September 26	Chapter 1
Week 2 (T) (R)	October 1 October 3	Chapter 2 Chapter 2
Week 3 (T) (R)	October 8 October 10	Chapter 3 Chapter 3
Week 4 (T) (R)	October 15 October 17	Chapter 4 First Midterm (Ch. 1-3)
Week 5 (T) (R)	October 22 October 24	Chapter 4 Chapter 4
Week 6 (T) (R)	October 29 October 31	Chapter 5 Chapter 5
Week 7 (T) (R)	November 5 November 7	Chapter 6 Second Midterm (Ch. 4-5)
Week 8 (T) (R)	November 12 November 14	Chapter 6 Chapter 7
Week 9 (T)	November 19 November 21	Chapter 7 Chapter 8
Week 10 (T) (R)	November 26 November 28	Third Midterm (Ch. 6-7) <i><u>Thanksgiving (No Class)</u></i>
Week 11 (T) (R)	December 3 December 5	Chapter 8 Chapter 8
Week 12 (T)	December 10	Final (Ch. 1-8)