

Instructor: Dan Kabat  
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Office hours: Monday and Wednesday, 5 – 6pm

Textbooks:

Douglas Giancoli, *Physics: Principles with Applications*, seventh edition  
ISBN 978-0-321-62591-5 for the book plus access card.

It's on reserve in the library, or available for \$248 from Amazon.

Lab manual – available for free in the physics office Gillet 131, or online  
at [www.lehman.cuny.edu/faculty/kabat/manuals.html](http://www.lehman.cuny.edu/faculty/kabat/manuals.html)

Grading:       midterms 45%  
                  final exam 25%  
                  homework 10%  
                  laboratory 20%

Midterms: there will be three midterm exams, tentatively scheduled for  
                  February 26       –       March 21       –       April 30

Exams are closed book and closed notes. You can bring one  $8\frac{1}{2} \times 11$  sheet  
with formulas on it. Each midterm counts for 15% of your grade. There  
are no make-up exams except for documented medical emergencies. Exam  
locations will be announced.

Final: there will be a comprehensive final exam, date to be announced.

I expect you to do your own work on exams. It's not acceptable to copy  
someone else's work, or to let someone else copy from you. Calculators are  
permitted, but cell phones and all other electronic devices are prohibited and  
will get you an automatic F.

Homework: will be done through a system called Mastering Physics. You  
can buy access to Mastering Physics online, or you can buy an access code  
together with the textbook. I usually assign homework on Wednesdays, due  
Sunday of the following week. Homework is due on the date assigned. I don't  
accept late homework.

Laboratory: attendance at the weekly laboratory is mandatory. Department  
policy is that students who are absent from more than two labs will fail the  
course. Labs can only be made up for documented medical emergencies, and  
only during the week they're originally scheduled. If you miss a lab let me  
and your lab instructor know as soon as possible. Labs begin the first week  
of classes with a lab tutorial.

### Grading policy

Letter grades will be assigned according to the guidelines

A = 90 – 100

B = 80 – 90

C = 65 – 80

D = 50 – 65

F = below 50

The cutoffs for +’s and –’s will be decided at the end of the semester.

### Tutoring

Tutoring is available in the Science Learning Center, Gillet 133. Textbooks and study questions are available. Hours for this course will be posted on the door.

### Study guides

Study guides for each exam have been posted on Blackboard. The guides list the sections in the textbook and have links to Kahn Academy. I encourage you to use them as we go along.

### Accommodating disabilities

Lehman College is committed to providing access to all programs and curricula to all students. Students with disabilities who may need classroom accommodations are encouraged to register with the Office of Student Disability Services. For more information, please contact the Office of Student Disability Services, Shuster Hall, Room 238, phone number, 718-960-8441.

### Learning objectives

After taking this course you will be able to analyze and solve quantitative physics problems involving mechanics, fluids, waves and sound.

### Course outline and schedule

We'll cover the first twelve chapters in Giancoli. Here's a tentative schedule for the semester.

dates	topic	chapter	sections
1/29, 1/31	math review, units	1	1,3,4,5,6
2/5, 2/7, 2/14	velocity and acceleration	2	1,2,3,4 (skip deceleration),5,6,7
2/20, 2/21	vectors, projectile motion	3	1,2,4,5,6
2/26	exam 1	–	–
2/28, 3/5, 3/7, 3/12	forces and Newton's laws	4	1,2,3,4,5,6,7,8
3/14, 3/19	circular motion, gravity	5	1,2,3 (unbanked only),5,6,7
3/21	exam 2	–	–
3/26, 3/28, 4/9	work and energy	6	1,3,4,6,7,8,10
4/16, 4/18	momentum, collisions	7	1,2,4,5,6
4/23, 4/25	rotational motion	8	1,2,4,5,6
4/30	exam 3	–	–
5/2	static equilibrium	9	1,2
5/7, 5/9	fluids	10	1,2,3,4,7,8,9,10 (Torricelli only)
5/14	vibrations and waves	11	1,2,3,4,7,8,9
5/16	sound	12	1,2,7

No class on 2/12, 2/19, 4/2, 4/4, 4/11. Class will meet on Tuesday Feb. 20 (Monday schedule).

Attendance will be taken at each class. A sign-up sheet will be passed around.