

PHYS 2002-2 - General Physics - Fall 2010 Syllabus

INSTRUCTOR: [Jiandi Zhang](#)

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OFFICE HOURS:

- Mondays 10:30am-Noon
- Wednesdays 10:30am-Noon
- Fridays 10:30am-Noon

LECTURES: MWF 9:30-10:30Am, Room 130 Nicholson Hall



TEXT: *Physics*, by Cutnell & Johnson, 7th Edition
LSU Customized version, vol. 2

CLASS:

- This course covers chapters 18 through 32 of the text (Ch. 23 and 28 will not be covered).
- You are expected to read the assigned textbook material before class to prepare.
- I will post a pdf version of the lecture notes to **my website** (<http://www.phys.lsu.edu/~jzhang/teaching.html>), normally one day before the class.
- You may find it helpful to print the lecture notes and bring them to class to use for note taking.
- **You need to attend the lectures!** The concepts and problem solving will be developed through the readings, lectures, demonstrations and class discussion. Your attendance will be simply reflected in your quiz scores

QUIZZES:

- Quizzes will be given in lecture class everyday using an electronic response system (clickers).
- You will earn raw 5 points for each correct answer, and 2 raw points for each incorrect answer. We plan to have at least 40 quizzes for the whole semester. To obtain a perfect score in the quiz part you will need to earn total 200 raw points

- Get your clicker and register it on PAWS as soon as possible.
- You can start earning clicker quiz points on Aug. 31.
- Your quiz grade for the semester will be the sum of all your clicker quiz points up to total of 50 points.
- There will be no make-up quizzes.
- Many of the test problems will be similar to the quiz questions.

HOMEWORK:

- Homework assignments will be done online using Mastering Physics at the website: <http://www.masteringphysics.com>
- I will tell you how to logon and get registered in class and via **my website** (<http://www.phys.lsu.edu/~jzhang/teaching.html>).
- It is essential that you solve the homework problems to ensure that you understand the concepts and to strengthen your math skills.
- Many of the test problems will be similar to the assigned homework.

PERSONAL RESPONSE SYSTEM (CLICKERS):

- Turning Technologies RF response cards (clickers) will be used everyday in lecture.
- If you do not already have this clicker for a different course or from last semester, you will need to purchase one. Please do so soon. Sometimes the bookstore sells out.
- You must register you clicker on PAWS as soon as possible, otherwise you may not get the credit you deserve.
- Enter the 6-digit code off the back of the clicker.
- Note that there is no capital letter "O" in the codes, only zeros.



TUTORING:

- If you do not understand the material or you experience difficulty in working the problems, help is available from the graduate tutors in [Room 365 Nicholson Hall](#).
- This service is free.
- You should check at that room for scheduled times.
- Of course, you are always welcome to see me during office hours.

TESTS:

- **There will be three 1-hour tests.**
- The tests will be computer based and will be administered by the Office of Assessment and Evaluation.
- You have a 3-day window within which to take each test. You will need to set up an appointment for taking your test. You can do this online with your PAWS ID at <http://www.cae.lsu.edu/default.asp>.
- You will need a scientific calculator.

- A hard copy of a formula sheet will be provided for you to use when taking the test.
- **Other notes, books, and resources are strictly forbidden.**

FINAL EXAM: Dec. 6-8

- The final exam will have the same format as the 1-hour test, but with about twice as many questions and problems given in twice the time.
- The Final Exam will be cumulative with extra emphasis (approximately 1/3 of the questions and problems) on material since the last exam.

**** YOU HAVE A 3 DAY WINDOW TO COMPLETE YOUR TESTS/EXAMS. THERE WILL BE NO MAKE-UP TEST/EXAMS AFTER THE 3-DAY WINDOW. ****

GRADING:

- Homework -- 50 points total
- Lecture clicker quizzes/participation -- 50 points total (from 200 raw points)
- Three one-hour exams -- 100 points each (300 points total)
- Final Exam -- 200 points
- Your final grade will be based upon your percentage score out of 600 total points.
- *If your percentage score on the Final Exam is higher than your lowest test score, your lowest test score will be replaced by your final exam score.*

A: 100-90%

B: 89-80%

C: 79-60%

D: 59-50%

F: <49%

If your overall average is within these ranges, you are guaranteed the associated letter grade. In general, there will be no curving of individual exam grades. However, depending on class performance, the above scale may change slightly.

GENERAL EDUCATION STATEMENT:

- PHYSICS 2002 is a General Education Course. Therefore this course is designed to address:
 - an appreciation of the methods of critical thinking.
 - a comprehension of how knowledge is acquired and applied.

TENTATIVE LECTURE SCHEDULE:

DATE	SECTIONS TO COVER
Mon., Aug. 23	18.1 - 18.3
Wed., Aug. 25	18.4 - 18.5
Fri., Aug. 27	18.6 - 18.7
Mon., Aug. 30	18.8 - 18.9
Wed., Sept. 1	19.1 - 19.2
Fri., Sept. 3	19.3 - 19.4
Mod., Sept. 6	Labor Day Holiday
Wed., Sept. 8	19.4 - 19.5, 20.1 - 20.2
Fri., Sept. 10	20.3 - 20.4
Mon., Sept. 13	20.5 - 20.7
Wed., Sept. 15	20.8, 20.10 - 20.13
Fri., Sept. 17	21.1 - 21.3
Mon., Sept. 20	21.4 - 21.5

Sept. 20-22	TEST 1: Ch. 18 - 20
Wed., Sept. 22	21.6 - 21.9
Fri., Sept. 24	22.1 - 22.3
Mon., Sept. 27	22.2 - 22.4
Wed., Sept. 29	22.5 - 22.6
Fri., Oct. 1	22.7 - 22.8
Mon., Oct. 4	22.9, 24.1-24.1
Wed. Oct. 6	24.2 - 24.3
Fri., Oct. 8	24.4 - 24.5
Mon., Oct 11	24.6, 25.1
Wed., Oct. 13	25.2 - 25.3
Fri., Oct. 15	25.4 - 25.5
Oct. 18-20	TEST 2: Ch. 21, 22, 24
Mon., Oct. 18	25.6, 26.1
Wed. Oct. 20	26.2 - 26.3
Fri., Oct. 22	Fall Break! - No Class
Mon., Oct 25	26.4 - 26.5
Wed., Oct. 27	26.6 - 26.7
Fri., Oct. 29	26.8 - 26.9
Mon. Nov. 1	26.10, 27.1
Wed., Nov. 3	27.2 - 27.3
Fri., Nov. 5	27.4 - 27.5
Mon., Nov. 8	27.6 - 27.7
Wed., Nov. 10	27.9, 29.1
Fri., Nov. 12	29.2 - 29.3
Mon., Nov. 15	29.4 - 29.5
Nov. 15-17	TEST 3: Ch. 25-27
Wed., Nov. 17	29.4 - 29.5
Fri., Nov. 19	29.6 - 29.7
Mon., Nov. 22	30.1 - 30.6
Wed., Nov. 25 & Fri. Nov. 27	Give Thanks - No Class
Mon., Nov. 29	30.7, 31.1
Wed. Dec. 1	31.2-31.4
Fri., Dec 3	31.5 - 31.6, 32.1
Dec. 6-8	FINAL EXAM - CUMULATIVE