

PHYSICS 2C (section id: 752448)
Fluids, Waves, Thermodynamics, Optics
FALL 2012

Instructor: Kim Griest

Lecture: TuTh 2:00pm -3:20pm, York 2722
Discussion/Problems Thursdays 7pm, Center Hall 119

Weekly Quizzes: Fridays 5:00-5:50pm, Center Hall 101, Starting Oct 5
(Require scantron form No. X101864-PAR (they can be green or red)
No make-up quizzes, but your two worst scores will be dropped;
(IF YOU ARE GOING TO MISS 3 OR MORE QUIZZES, DO NOT TAKE THIS COURSE.)

Griest Office: 337 SERF, 858-534-8914
Griest Office Hours: Friday: 11am-12:00pm (337 SERF) or call for appointment

T.A.: David Leon, dleon@physics.ucsd.edu
T.A. Office hours: Fridays, 1-3pm physics tutorial center, Mayer Hall
<http://physics.ucsd.edu/students/courses/tutorialcenter/location.html>

Web Page: <http://physics.ucsd.edu/students/courses/fall2012/physics2c>
Text: Wolfson and Pasachoff, Volume III, UCSD Custom Edition,
Physics for Scientists and Engineers, 3rd edition

Final: Thurs, Dec 13, 3 - 6 pm, York 2722
[NOTE: NO LATE OR EARLY FINAL; CHECK YOUR SCHEDULE NOW!]

GRADING POLICY

Quizzes: 60%
Final: 40%

Homework will be assigned weekly, but will not be collected or graded. The solutions to odd numbered problems are in the textbook supplement; answers to even numbers will be posted.

Note that the quizzes and final will closely resemble the homework problems (and the examples in the book). If you can do all the homework (and examples in the book) on your own you will get a good grade in

this course.

If you skip doing homework, you will probably get a poor grade. Physics is only learned by the pain of doing the problems on your own. You cannot memorize things at the end or just read over examples and expect to do well.

ACADEMIC DISHONESTY

You must do all the work on the quizzes and the final yourself and may not help anyone else. Any copying or cheating of any kind will be met with severe consequences. This includes helping someone else cheat. If you are thinking of cheating, don't take this class from me!

OUTLINE OF TOPICS

We'll cover almost everything in our custom book. While the book is short, there are many difficult topics that will require all your math skills and substantial insight. This course has several of the most basic topics in establishing your understanding of how the physical world works. If you spend the time to really learn these concepts this quarter, it will make the rest of your study of science and engineering easier. There is no concept we learn this quarter that is not useful in many many other areas of science and engineering.

Chap 16: Wave Motion

Chap 17: Sound and Other Waves

Chap 18: Fluid Motion

Chap 19: Temperature and Heat

Chap 20: Thermal Behavior of Matter

Chap 21: Heat, Work, First Law of Thermodynamics

Chap 22: Entropy and 2nd Law of Thermodynamics

Chap 34: Maxwell's Equations and Electromagnetic Waves

Chap 35: Reflection and Refraction

Chap 36: Images and Optical Instruments