

Instructor

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Recitations

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Physics 13 is the second half of introductory physics, primarily for biological science and earth and environmental science students. Subjects include electricity and magnetism, light, quantum mechanics, atoms, and the nucleus. Prerequisites: PHY 10/11, and MATH 21/31/51.

Time and Location

Lectures: Monday and Wednesday, 08:10-09:00 LL 316
Recitation: Friday, as assigned by the Registrar, LL 310
Office hours: Tuesday 18:00-19:00 and Thursday 15:00-16:00 (subject to change)

Textbook

Required: Wolfson, Essential University Physics volume 2, Addison-Wesley 2007, with access to Mastering Physics. ISBN-10: 0-8053-4004-1/ ISBN-13: 978-0-8053-4004-4. The course ID in mastering physics is: **MPVAVYLONIS62127**

Recommended: Sterneim and Kane, General Physics, 2nd edition, John Wiley & Sons, 1991. This book has very nice examples involving biomedical applications for those interested.

Lecture Notes and Course Site

Lecture notes and other announcements, such as updated office hours, will be placed on Course Site (that replaces Blackboard). These notes do not replace the textbook. Some assigned material will not be presented in lectures; you will be expected to learn this material through your own reading and through homework problems.

Clickers

Clickers from Turning Points will be an integral part of class. They will be used for quizzes and for other interactive activities. Each student must register a personalized clicker.

Grades

Upon satisfactory attendance, the course grade will be based on:

1. **Final exam (50%).**

2. **Two one-hour exams (25%).** There will be no make up on hour tests. If you miss an hour test for a valid reason, your grade on the corresponding part of the final examination will be substituted for the missing grade.

3. **Homework (20%).** Weekly homework assignments will consist of:

- Online homework set through Mastering Physics. This will be due by the end of Thursday and it will cover the material of the Monday and Wednesday lectures. There will be no penalty for time or use of hints. Late submissions will result in loss of credit.
- A written problem that will be assigned to you by Dr. Cereghetti every Friday.

4. **In-class Quizzes (5%).** Reading assignments will be announced in class. In-class quizzes will be graded as follows: Proper Answer: 3pts Wrong answer: 1pts, No answer: 0 pts. The quizzes will be done using the Clicker-System. The quiz question will be clearly marked, as “in-class quiz” and the system will record your individual response. In all other cases, the Clicker System will be used without recording your individual response (anonymous mode).

Course Outline

The following is an outline. Excluded sections will be announced in class. ***This is an intensive course and you are expected to attend all classes.***

Week 1, Jan 18	Chapter 20
Week 2, Jan 25	Chapter 21, 22
Week 3, Feb 1	Chapter 23, 24
Week 4, Feb 8	Chapter 25, 26
Week 5, Feb 15	Chapter 26, 27
Week 6, Feb 22	Review, Hour exam 1
Week 7, Mar 1	Chapter 28, 29
Spring Break: Mar 8	
Week 8, Mar 15	Chapter 30, 31
Week 9, Mar 22	Chapter 32
Week 10, Mar 29	Chapter 33
Week 11, Apr 5	Review, Hour exam 2
Week 12, Apr 12	Chapter 34, 35
Week 13, Apr 19	Chapter 36, 37
Week 14, Apr 26	Chapter 38, 39

Accommodations for Students with Disabilities: If you have a disability for which you are or may be requesting accommodations, please contact both your instructor and the Office of Academic Support Services, University Center C212 (610-758-4152) as early as possible in the semester. You must have documentation from the Academic Support Services office before accommodations can be granted.