Course Information

UO General Information (2007-08)
Information about:
- Using Blackboard
- Library resources
- Computing resources
- Textbooks
- Course policies
- ... and more

Course description
Physics 101: Essentials of Physics

Schedule: MW 3-4:50 PM

Professor Stephen Hsu
475 Willamette
hsu@uoregon.edu

PLEASE DO NOT SEND ME EMAIL WITH DETAILED QUESTIONS ABOUT PHYSICS -- SUCH QUESTIONS ARE BETTER ADDRESSED IN PERSON.

Office hours: MW 2-3 PM, or by appointment.

GTF: Ryan Quitzow-James, rquitzow@uoregon.edu

Textbook: Conceptual Physics, P.Hewitt (10th edition)

Course Philosophy:
The purpose of this course is to promote a deeper understanding of conceptual physics, and science and nature in general. We will always emphasize physical ideas rather than mathematics, although a basic level of mathematics and quantitative thinking will be required.

It is important to remember that learning is an interactive process and requires effort on the part of the student. New concepts are only absorbed after concentrated thought and consideration. DO NOT BE AFRAID to ask questions in class! My main purpose as the instructor is to help you learn. My role as someone who assigns you a grade or judges your performance relative to others is secondary and less important.

Homework:
Your homework consists of three parts.

A) Reading. Please read the chapter material BEFORE you come to class. Make notes on the things you find confusing, and feel free to ask me about them during class.

B) Review Questions: I will assign review questions from the book for each chapter. These are for you to ponder and discuss with your fellow students. We will discuss some of them in class. I might even call upon students to lead these discussions (see "Socratic method", as used in many law and business schools). Again, it is your responsibility to have read the material and looked at the review questions BEFORE class. (See Class
Participation, under the section on Grades!

C) Exercises and/or Problems: These will also be assigned for each chapter. They are due EVERY MONDAY during the term, starting at the beginning of the SECOND WEEK.

I will drop (not count in your final grade) the lowest HW score of the quarter.

**** Please put your problem sets in the GTF's box in 215 Willamette ****

DO NOT BRING YOUR PROBLEM SETS TO ME

Quizzes:

We will have quizzes on two of the WEDNESDAYS during the term (see the syllabus for the dates). These will consist of a short problem or problems taken from recent material.

Exams:

There will be a final exam, covering the entire quarter.

Grades:

Your grade will be determined as follows:

Homework problems: 35 percent  (drop lowest score)

Quizzes: 20

Final: 35

Class participation: 10 (this will be based on your participation in class discussion, etc.)

Physics 101: Syllabus (10 weeks)

WEEK:

1 (3/31) Read: Ch1, Appendix A, begin Ch2

Exercises: CH1: 2,7,9  (TURN IN)

Review Questons: CH1: 10 (DO NOT TURN IN)

No Quiz

2 (4/7) Read: Ch2, Appendix B

Exercises: Ch2: 11,14,28,31,39,40 (TURN IN)

Review Questions: Ch2: 5,11  (DO NOT TURN IN)

No Quiz
3 (4/14) Read: Ch3, Appendix D
Exercises: Ch3: 1,5,7,11,25 (DO NOT TURN IN)
Problems: Ch3: 2,6,10 (TURN IN)
No Quiz

4 (4/21) Read Ch4
Exercises: Ch4: 4,13,14,16,20,22 (DO NOT TURN IN)
Problems: Ch4: 1,2,3,4 (TURN IN)
QUIZ on WEDS

5 (4/28) Read: Ch4
Exercises: Ch4: 35,36,37,39,42 (DO NOT TURN IN)
Problems: Ch4: 6,7,8 (TURN IN)
No Quiz

6 (5/5) Read: Ch5
Exercises: Ch5: 3,14,19,28,33 (DO NOT TURN IN)
Problems: Ch5: 1,3,5 (TURN IN)
No Quiz

7 (5/12) Read: Ch6
Exercises: Ch6: 2,10,12,15,25,31 (DO NOT TURN IN)
Problems: Ch6: 1,4,6 (TURN IN)
No Quiz

8 (5/19) Read: Ch7
Exercises: Ch7: 3,9,18,22,37 (DO NOT TURN IN)
Problems: Ch7: 1,5,7 (TURN IN)
QUIZ on WEDS

9 (5/26) Read: Ch8 (note: Monday is Memorial Day)
Exercises: Ch3: 2,6,8,10,44,47 (DO NOT TURN IN)
Problems: Ch8: 4,6,8 (TURN IN)
10 (6/2) Read: Ch9

Exercises: Ch9: 1, 21, 24, 34, 38

Problems: Ch9: 1, 2, 3

No Quiz