

Syllabus

Instructor Information

Name: Dr. Yu Lin
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Office location: 203 Allison Laboratory
Office hours: Any time 8-5, or by appointment
Phone: 844-4683

Course Information

Course title: Engineering Physics II
Course number: PHYS 1610
Course discipline: Physics
Course activities: The class meets on the scheduled meeting days as listed below. Laboratory activities are scheduled on Monday. Recitation activities are scheduled on Wednesday.

Lab Manager: Dave Patrick (patridm@auburn.edu; 844-2950; 103 Parker Hall)

Course date: Monday, January 9, 2008 through Monday, April 28, 2008
Location: PKH 307
Meeting day(s): Monday, Wednesday, and Friday
Meeting time(s): 10:00 - 10:50am

Course Goals

Course goals: Understand the basic concepts of Electricity & Magnetism, Optics, and Thermodynamics.

Textbooks

Required reading: *Physics for Scientists and Engineers*, by Serway and Jewett, 7th Edition

Class Schedule

Jan. 9, 11, 14, 16 -- Chapter 23
Jan. 18, 23, 25 -- Chapter 24
Jan. 28, 30, Feb. 1, 4 -- Chapter 25
Feb. 6 -- Test 1
Feb. 8, 11, 13 -- Chapter 26
Feb. 15, 18 -- Chapter 27
Feb. 20, 22, 25 -- Chapter 28
Feb. 27 -- Test 2
Feb. 29, Mar. 3, 5, 7 -- Chapter 29
Mar. 10, 12, 14 -- Chapter 30
Mar. 17-21 -- *Spring Break*
Mar. 24, 26, 28 -- Chapters 31 and 32
Mar. 31 -- Test 3
Apr. 2, 4, 7 -- Chapter 35
Apr. 9, 11 -- Chapter 37
Apr. 14, 16, 18 -- Chapter 38
Apr. 21 -- Chapter 19
Apr. 23, 25 -- Chapter 20
Apr. 28 - Review

Final Exam: May 1, Thursday, 9:00-11:30 am

Grading Policies

Your final grade in this class will be based on:

homework (10%) + laboratory (10%) + recitation (5%) + 3 tests (50%) + final exam (25%) = 100%.

Note: Each test weighs 20%, but as a buffer against one bad test, the weight of your worst grade on any one of your tests will be reduced to 10%. If, for example, test 2 is your lowest grade, it will have a weight of 10%, instead of 20%, in your final average.

Grading Scale:

A - 90; B - 80; C - 70; D - 60; F - <60.

Homework and WebAssign

On-line homework assignments will be given through WebAssign, which is accessed through <http://www.webassign.net>. Please login to register the class as soon as possible. Your Auburn global ID is your username, and is also your initial password. You must work on the homework problems soon after classes: problems from each chapter are due soon after the lectures of the chapter.

WebAssign:

Information about this class will be posted through WebAssign, under

‘Communication’.

You **MUST** take the homework when it is available, i.e., before it is due. Most of the problems are taken from the textbook, but the numbers in the problem are changed. Every homework problem should give 7 opportunities. Your lowest 3 homework scores will be **DROPPED** before your final homework grade is computed.

Tests and Final Exam

The tests and the final exam will be in the form of word problems, and will be closed book exams. You are required to show your work in solving the problems. You cannot bring in any notes or cards. A sheet of formulae will be attached to each test and the final exam. Calculators are permitted during the tests and final exam.

No makeup tests will be given. If you miss one test but have a well-documented excuse, the average test grade of your other two tests will be taken as the grade of this test. If you miss two tests, your second missing test will have a score of zero.

Reading Requirements

It is required that the students **READ** the scheduled chapters prior to the corresponding lectures.

Students are encouraged to ask questions regarding homework problems and lecture material. I will be in my office most of the time everyday from 8am to 5pm.