

Syllabus

Honors Physics for Scientists and Engineers II PHYS 2049H Spring Semester, 2009 MWF 1:30-2:20 pm, MAP 306

Instructor: Masahiro (Masa) Ishigami

Office Hours: MW 2:30-4pm

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Webpage: <http://physics.ucf.edu/~ishigami/teaching.html>

Required Course Materials

Textbook: Physics for Scientists and Engineers, 7th Edition, Serway and Jewett

Other Resources: Walter Lewin's web lectures

<http://ocw.mit.edu/OcwWeb/Physics/8-02Electricity-and-MagnetismSpring2002/VideoAndCaptions/index.htm>

Webassign: all assignments will be given via web-assign at www.webassign.net. Access card must be purchased at the UCF bookstore and students should register as soon as possible (**by Friday 1/9**). **User name is "last name.first name": for example, "ishigami.masahiro". The initial password is "physics". Email me if you run into a problem.**

Prerequisites:

Algebra, trigonometry, differential and integral calculus are essential to understanding the materials presented.

Course Structure:

Lectures: Monday, Wednesday and Friday

Laboratory: Concurrent registration is highly recommended.

Graded Assignments: Due Tuesdays. Note first assignment due 1/13/09. Problem sets will be given every week via webassign.

Quizzes: Monthly take-home quizzes will be given. Students may use any means available to solve the questions. Students may work together. Final solutions must be written up individually.

Midterm Exams: There will be three written "in-class" exams each 50 minutes in duration. No formula sheets are allowed.

Final Exam: 6-8 problems. No formula sheets are allowed.

Grading

Problem Sets: 15%
Quizzes: 10%
Midterm (three): 45%
Final: 30%

Grading Scale:

A: Comprehensive understanding (CU)
B: CU, but worse test results
C: Not quite CU by a concept
D: Not adequate understanding
F: Failure to understand
+/- **grades will be given.**

Policies:

1. Grades on quizzes and midterm exams can be challenged up to two days. Final exam grades and final grades are not contestable.
2. Make-up tests are given only to students who have to be out of town on university-sponsored activities. Prior permission and proper documentation are required a week in advance. Exceptions can be made for medical and family emergencies at the discretion of the instructor.
3. Scientific calculators with trigonometric capabilities are allowed in quizzes and tests. However, calculators with preprogrammed physics information are not allowed. Violation of this rule will result in automatic failure in the course and disciplinary proceedings will be initiated.
4. Picture ID is required in all tests, quizzes and final exams.

Important Dates:

1/7: First class
3/6: Last day to drop the course
4/27: Last class

Holidays: 1/19, 3/9-13 (spring break)

Course Schedule:

Exam #1: 2/6 Ch 23-26
Exam #2: 3/6 Ch 27-29
Exam #3: 4/17 Ch 30-33
Comprehensive final: 5/4 1:00-3:50 pm room 306 (here) Ch 23-34