

Physics 100, Survey of Physics
Spring 2010
MWF 1:30-2:20
PSB 217

Instructor: Eric Dodson Office: Wat 427 Phone: 956-2982 email: eadodson@phys.hawaii.edu

Office hours: MWF 11:00-Noon; and by appointment
I will also hold a weekly problem solving session
(Time and location to be announced)

Text: Optional: Physics Concepts & Connections 4th edition by Art Hobson
The midterms and final will be based on the material from the class notes.

Website: Class info (i.e. homework assignments, class notes, etc.) will be posted at
www.phys.hawaii.edu/~eadodson/pub/phys100

Grading: The course will be graded on a curve with the following breakdown.

Homework	20%
Midterms	50% (2 x 25%)
Final Exam	30%

Homework: Homework will be collected each Wednesday. Based on the availability of a grader, only a subset of the homework may be graded.

Midterms: Two midterms will be given. The midterm will consist of twenty-five multiple choice questions. As we get close to the midterms, I will post sample questions on the class website.

Midterm I	Monday, February 22
Midterm II	Friday, April 9

Final Exam: The final exam is scheduled for Monday, May 10 (2:15-4:15 PM)
The final exam will be comprehensive.

Here is a tentative schedule of the main topics we will be covering

Week of	Material
11 Jan	intro, powers of 10, units,
18 Jan	motion, velocity, acceleration
25 Jan	Newton's laws
1 Feb	work, energy, power
8 Feb	rotational motion, vibrations and waves
15 Feb	sound, thermodynamics
22 Feb	Midterm 1, gravity
29 Feb	electric force, fields
1 Mar	electromagnetism
8 Mar	electromagnetic radiation, light
15 Mar	optics, wave properties of light
22 Mar	relativity
29 Mar	SPRING BREAK

5 Apr	quantum physics, Midterm 2
12 Apr	more quantum physics
19 Apr	nuclear and particle physics
26 Apr	bonus topics/ catch-up time
3 May	Review
10 May	FINAL EXAM