Phys 272-001. General Physics II Fall 2009

Time:	MWF 8:30-9:20
Place:	WAT 112
Instructor:	Luis Elias (956-2961) <u>lelias@hawaii.edu</u>
Office Hours:	MWF 10:00-11:00
Course Description:	Electromagnetism and Geometric Optics.
Pre-requisites:	PHYS 151 or PHYS 170 and MATH 242 (Calculus II) or MATH 252A (Accelerated Calculus II), MATH 216 with consent of the instructor.
Textbook:	University Physics Volume 2. Young and Freedman, 12^{th} edition.
Course Content	Chapters 21-24 of textbook.

Student Learning Outcomes:

- 1. Understand the fundamental laws of electromagnetism. Among these are the laws of: Coulomb, Gauss, Ampere and Faraday.
- Apply these laws to solve simple electric and magnetic problems, including: (a) description
 of sources of the electromagnetic field; (b) electromagnetic properties of vacuum and
 simple materials; (c) calculation in direct and alternating current circuits; (d) electric
 capacitance and magnetic inductors; (e) properties of electromagnetic waves.

Homework:	Weekly homework using Mastering Physics Web Problems (<u>www.masteringphysics.com</u>). (60% of final grade)
Midterm exams:	Two midterms (30% of final grade)
Final exam:	(10 % of final grade)