

Physics 152 University Physics II, Fall 2011  
MWF 10:00-10:50 AM  
Henry Hall, Room 124

- Instructor: Eric Dodson Office: Wesselkamper 110  
Phone: 739-8363 email: eric.dodson@chaminade.edu
- Office hours: M,F 2:00-4:00 PM; Tu, Th 9:00-10:00 AM  
And by appointment
- Text : Physics, (4th edition), James S Walker; Chapters 19-32 and 14
- Prerequisites: Physics 151
- Content: Course provides an algebra-based introduction to electricity and magnetism, circuits, waves, interference, optics, special relativity and selected topics in modern physics
- Grading: The course will be graded on a curve with the following breakdown
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|------------|-----|
| Homework   | 10% |
| Quizzes    | 10% |
| Midterms   | 60% |
| Final Exam | 20% |
- Website: [www.phys.hawaii.edu/~eadodson/pub/phys152](http://www.phys.hawaii.edu/~eadodson/pub/phys152)
- Homework: Homework will be collected each Friday (excluding weeks with midterms). I encourage you to work together on homework, but you must turn in your own work. Remember the main purpose of the homework is to help you understand the material. Late homework will not be accepted. One homework will be dropped at the end of the semester.
- Quizzes: A ten to fifteen minute quiz will be given promptly at the beginning of class on selected Fridays (To be announced the previous class day). Each student's lowest quiz score will be dropped at the end of the semester
- Midterms: Three midterms will be given. Our midterms will consist of twenty multiple choice problems worth three points apiece and two twenty point problems that will be graded for partial credit. The midterms will be closed book, closed notes. A formula sheet will be provided.
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| Midterm I   | Friday, February 4 |
| Midterm II  | Friday, March 4    |
| Midterm III | Friday, April 8    |
- Final Exam: Date and Time: Thursday, May 5 ; 10:30 AM-12:30 PM  
The final exam will be comprehensive
- Helpful advice: Come to class every day. Read the assigned sections from the textbook before class. Ask questions. Get an early start on the homework and come get help if you get stuck. Try to work the homework problems using only the formula sheet. Stay on top of the material (Don't cram). If you are having difficulty come see me ASAP  
Physics is not a spectator sport, the only way to get better is to practice.

The table below shows the proposed schedule of the material to be covered and the associated chapters from the textbook

Week	Topic(s)	Chapter(s)
1	Electric Charges, Coulomb's Law	19
2	Electric Fields	19
3	Electric Potential Energy , Electric Potential, Work-Energy Theorem, Capacitors	20
4	Capacitors, Current, Resistance, Midterm 1	20, 21
5	Ohm's Law, Kirchoff's Laws, DC Circuits	21
6	DC Circuits, RC Circuits, Magnetic Fields and Forces	22, 23
7	Magnetic Fields and Forces	22
8	Faraday's Law of Induction, Lenz's Law, Electric Motors and Generators, Midterm 2	23
9	RL Circuits, Waves, Interference, Sound	23, 14
10	Electromagnetic Waves, Reflection, Mirrors	25, 26
11	Refraction, Lenses	26
12	Human Eye and Corrective Lenses, Lenses in Combination	27
13	Physical Optics-Interference and Diffraction	28
14	Relativity	29
15	Selected Topics in Modern Physics	30-32