

Physics 252 University Physics II, Fall 2011  
MWF 9:00-9:50 AM, CTCC, Room 254  
Th 5:00-5:50 PM, Henry 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, (2nd edition), Randall D. Knight; Chapters 26-35, 20-23, 37-40
- Prerequisites: Physics 251
- Content: Course provides a calculus-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: TBA
- 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: Monday, May 2 ; 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	Charges, Electric Force	26
2	Electric Fields	27
3	Gauss's Law, Electric Potential Energy	28, 29
4	Electric Potential, Work and Energy, Midterm 1	29
5	Electric Potentials and Fields, Capacitors	30
6	Current, Circuits	31,32
7	RC Circuits, Magnetic Fields	32,33
8	Magnetic Forces, Midterm 2	33
9	Induction	34
10	Waves, Sound	20, 21
11	Waves, Electromagnetic Fields, Electromagnetic Spectrum	21, 35
12	Wave Optics, Midterm 3	22
13	Ray Optics	23
14	Relativity	37
15	Selected Topics in Modern Physics	38-40