Physics 252 University Physics II, Spring 2013
MWF 10:30-11:20 AM, F 12:30-1:20 PM
Ching Hall Room 253

Instructor: Eric Dodson Office: Wesselkamper 110
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Office hours: MTWThF 8:30-9:20 AM and by appointment

Text : University Physics Volume Two, (13th edition), Young and Freedman

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

Homework, Attendance, Participation and Quizzes	15%
Midterms(3)	60%
Final Exam	25%

Website: TBA

Homework: Homework will be assigned from the text or via the class website. I encourage you to work together on homework, but you must turn in your own work. The main purpose of the homework is to help you understand the material and serve as practice for the midterms.

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.

Midterm I	Friday, February 8
Midterm II	Friday, March 8
Midterm III	Friday, April 12

Final Exam: Date and Time: Thursday, May 9; 11:00 AM-1:00 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	21
2	Electric Fields	21
3	Gauss's Law, Electric Potential Energy	22, 23
4	Electric Potential, Work and Energy, Midterm 1	23
5	Electric Potentials and Fields, Capacitors	23, 24
6	Current, Circuits	25
7	RC Circuits, Magnetic Fields	26, 27
8	Magnetic Forces, Midterm 2	27, 28
9	Induction	29
10	Waves, Sound	Supplemental Material
11	Waves, Electromagnetic Fields, Electromagnetic Spectrum	32
12	Geometrical Optics, Midterm 3	34
13	Interference and Diffraction	35, 36
14	Special Relativity	37
15	Selected Topics in Modern Physics	Supplemental Material

Policy on Cell Phones and Music Devices.

Because electronic devices, such as cellular phones, pagers, and musical devices can be disruptive to normal classes, the following is the policy for all Natural Sciences and Mathematics classes at Chaminade. Electronic devices are also prohibited during exams.

Use of music devices and cell phones is prohibited during all Natural Science and Mathematics classes at Chaminade, unless specifically permitted by your instructor. Use of cell phones and music devices in laboratories is a safety issue. In addition,use of cell phones and music devices in any class is discourteous and may lead to suspicion of academic misconduct. Students who can not comply with this rule will be asked to leave class and may be subject to laboratory safety violation fines. Please refer any questions to the Dean of Natural Sciences and Mathematics.