

Electrodynamics II

PHYS 450 - Spring 2013

Instructor: Kevin J. McCann

Physics Room 315

Kevin.McCann@umbc.edu

Office Hours: MW 12-1 or by appointment

Text: Introduction to Electrodynamics, 3rd ed.
David J. Griffiths
Benjamin Cummings (1999)
\$123.32 from Amazon (8/17/11)
\$135.15 from Amazon (8/21/12)

Class Time: TTh 10:00-11:15a

Room: Physics 226

■ Some Important Dates This Semester

January 28 First Day of Class
March 18-22 Spring Break
April 17 Daffy Duck's Birthday
May 14 Last meeting of this class
May 17@1:00p Final Exam

If any classes are cancelled, I will attempt to make them up, probably at the free hour on Wednesday.

A Brief Course Outline

After a review of Chapter 7, we will cover most of Chapters 8-11. Emphasis will be on the generation of electromagnetic radiation and the properties of that radiation due to the different source mechanisms. If time permits, we will cover Chapter 12 on relativity.

Preparation for the Course

As preparation for the course, you should review any of the vector calculus we used in the first part.

Grading

20% Exam #1 will be on Chapters 7-9 and will be given in late March

20% Exam #2 will be primarily on Chapters 10-11. This will be given around the end of April or early May.

25% Homework

35% Final Exam will include all topics covered but with slightly more emphasis on Chapters 10 & 11

Email for this course

If you have questions or homework that you wish to email, be sure to put PHYS 450 in the subject line. If you are sending me a file as part of a homework assignment, please use the following file naming convention

last_name – Phys450 – short description.ext

where “ext” is the extension for whatever the format is, e.g. .nb, .mat, .doc, etc. For the short descriptions try to do something other than HW6 or assignment 12 or whatever; rather, do something like “index of refraction” or some other descriptor that lets me know which assignment it is. I will try to remember to suggest something with each assignment.