

Physics 350 Fall 2009
MWF 2:30-3:20 WAT 113

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Office hours: Daily 1-2 PM; and by appointment

Text : Introduction to Electrodynamics: David J. Griffiths

We will cover the first half of the book which consists of the following six chapters:

1. Vector Analysis
2. Electrostatics
3. Special Techniques
4. Electric Fields in Matter
5. Magnetostatics
6. Magnetic Fields in Matter

Grading: The course will be graded on a curve with the following breakdown.

Homework	30%
Midterms	40%
Final Exam	30%

Homework: A written assignment will be collected each week on Friday. The problems will come mainly from the text.

Midterms: Two midterms will be given. Dates to be announced, probably after completing chapter two and then again after completing chapter four.

Final Exam: The final exam is scheduled for Monday, December 14 2:15-4:15

Student Learning Objectives:

1. Understand and apply the concepts of vector calculus in chapter 1
2. Determine the electric field of a static charge distribution (via straightforward integration and special techniques).
3. Incorporate the effects of matter into the determination of the electric field.
4. Determine the magnetic field due to a (time-independent) current distribution.
5. Incorporate the effects of matter into the determination of the magnetic field.