

Winter 2015 Phy 350 – Electricity and Magnetism I

Course Syllabus

Instructor: Dave Pawlowski
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Class Meeting Times: TTh 9:30 – 10:45 Strong 341

Text: Introduction to Electrodynamics, David Griffiths, 4th Edition

Course Website: <http://chuck.emich.edu/dpawlows/phy350>

Pre-requisites: Phy 224, Mth 223

Office Hours: TTh 10:45 – 11:45 and by appointment. But... I am almost always in my office. You are always welcome to stop by. If the door is closed, just knock. I typically can take a few minutes to talk things over.

Course Layout: The semester will be divided into 3 sections as follows:

Section 1 – Chapter 2 – Electric fields in vacuum

Section 2 – Chapters 3 and 4 Maxwell's Equations and Electric Fields in materials

Section 3 - Chapter 5 and 6 – Magnetic fields in vacuum, conductors, and other materials

Section 4 – Chapter 7 - Electrodynamics

Grades: Your grades will be determined by performance in the following areas:

1. Assignments- There will be one assignment per week from Griffiths or other problems (20 points each). You will turn in 2 problems per week, one on Tuesday and one on Thursday.
2. Video Homework: You must make a short video (< 3 min) explaining the physics behind and the steps that you used to solve the problem for which you provided a written solution. This must be uploaded to your account on youtube every Sunday by midnight and you must email me the link to your video each week.

Suggestions for preparing your video:

Recording: screen capture (ipad or PC), powerpoint

Media: Smartphone camera or video, ipad notetaking app

Editing/upload: Jing (<http://www.techsmith.com/jing.html>)

3. Quick Quizzes- Every Thursday (except for holidays and exam weeks) there will be a conceptual based quiz based on the materials covered in the previous homework assignment. You will be given 10 minutes to complete the quiz. If you are not on-time to class, you will not be able to make up the quiz. You will receive half credit for wrong answers.

4. Exams- Each section will have an examination covering the lectures, text, and HW assignments. Each exam may have an in-class portion and/or a take-home portion.

Your final grade will be determined based on the following table:

Test Scores	50%	Letter Grades >93.0% = A, 90.0-92.9% = A-,
HW assignments	20%	87.0-89.9% = B+, 83.0-86.9% = B, 80.0-82.9% = B-
Video Homework	15%	77.0-79.9% = C+, 73.0-76.9% = C, 70.0-72.9% = C-
Quizzes	15%	67.0-69.9% = D+, 63.0-66.9% = D, 60.0-62.9% = D- < 60% = F

Note: As always, this is a guide. My intention is to stick to this guide, however sometimes class policies may be subject to change.