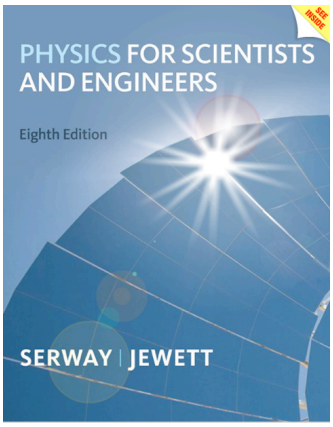
Rob Kroeger x7921
Class Time: 2:00 A.M. - 2:50 Mon., Wed., Fri.
Office Hours: 10:00 A.M. - 11:50 Mon., Wed.
1:00 PM -1:50 PM Fri
Location of my office: Lewis 206
Texbook: ***Physics for Scientist and Engineers 8th Edition*** Serway and Jewett



Approximate Schedule and Content of the course:

Week 1 Jan 23-27 Chapter 23 Electric Charges and Fields
Week 2 Jan 30-Feb 3 Chapter 24 Gauss' Law
Week 3 Feb 6-10 Chapter 25 Potential
Week 4 Feb 13-17 Chapter 26 Capacitance and Dielectrics
Week 5 **Feb 20 Test 1: Chap. 23 - 26** –
Feb 22-24 Chapter 28 DC Circuits
Week 6 Feb 27-March 2 Chapter 29/30 Magnetic Fields
Mar. 1 Drop Deadline
Week 7 Mar 5-9 Sources of Magnetic Fields Chapter 30
Week 8 **Mar 12-16 SPRING BREAK** --
Week 9 Mar 19-23 Sources of Magnetic Fields Chapter 30
Week 10 Mar 26-30 Faraday's Law & Inductance Chapter 31 & 32
Week 11 **Apr2 Test 2: Chap. 27 - 31** –
Apr 4-6 AC Circuits Chapter 33
Week 12 Apr 9-13 Electromagnetic Waves and Ray Optics Chapter 34&35
Week 13 Apr 16-20 Image Formation Chapter and Wave Optics 36&37
Week 14 **Apr 23 Test 3: Chap. 32-36** --
Apr 25-27 Diffraction and Polarization Chapter 38

FINAL EXAM: Monday May 7th at 4:00 PM.

Learning Objectives

After completing this course, the student should understand the role of fields and potentials in the solving of problems in electromagnetism. The student will know how apply these concepts through the analytical tools of calculus, vector algebra, and trigonometry to solve physical problems. These skills will be acquired through the lecture, reading of the assigned textbook, and through working the assigned homework problems. The course should enhance the student's capacity for analytical reasoning and problem solving.

Course Credit and Grading Scale

Nearly all of the course credit will be based on the student's demonstrated ability to solve physical problems in the realm of electro-magnetism through the tests and homework.

Breakdown of credit for the course:

20% Homework & Quizzes
55% Tests
25% Final Exam

An overall course average of the following percentages will guarantee the corresponding letter grade:

90%	A
80%	B
70%	C
60%	D

Do Not ask to the final exam at a separate time from the class, except in case you have two other final exams on the same day. **Your final exam will be Monday May 7th at 4:00 PM. You must make your travel plans accordingly.**

Do Not ask to take any test at a separate time from the class. If any emergency arises on the day of a test, make sure you have documentation to support your request for a retake (e.g. a letter from the attending physician etc. Newspaper obituary naming you as surviving relative.) In general **I will not drop any test scores. Don't miss a test!**

WebAssign homework:

You must **self-enroll**, the class key for Physics 212 Section 3 is:

olemiss 9302 1533

You must **supply your entire student ID accurately** in order for the system to transfer credit from WebAssign to BlackBoard.

Written Homework:

Late homework won't be accepted, but you will have five dropped homework (including WebAssign) assignments in the course of the term. These are intended to cover all cases of lost or forgotten homework, brief absences, etc. If you joined the class late or in the case of extended absences (more than a week) we can make some adjustment. Problem sets must be turned in at the beginning of class on the day they are due. Please **don't slide homework under my office door**. Don't turn in homework with ragged edges (spiral paper). Don't use legal size paper or red ink. Please staple the pages together and don't fold them. Please **include the problem set number with your homework**.

IMPORTANT!! Please keep all tests and homework.

You **must** also register for **Physics 222** unless you have specific permission to do otherwise, or have previously taken Physics 222.