Physics 432: Electricity and Magnetism
Spring 2008: Section 432001

Instructor: James R. Thompson
Office: 406-A Nielsen Physics Building
Phone: 974-7837 (or 574-0412 at ORNL) E-mail: JRT@UTK.EDU
Office Hrs: 13:00 - 15:00 TR (or by appointment, if this does not work for you.)
Class: 8:10 - 9:25 TR in Nielsen Physics 306

Text: Introduction to Electrodynamics, 3-rd Ed by David J. Griffiths

Tests and Grades: Mid-term exam 35%
Homework 25%
Final exam 40%

• Class preparation and protocol: It is extremely important to keep up with the work in the class, since the material builds on itself. Each day, you should preview the topics for the next class; after the class, you then study the topics in detail, working the assigned exercises and problems, etc. You can help make the class more productive by thoughtful questions and careful attention. Please check immediately that you understand all credits earned on exams, homework, etc.: one week after I return them, the grades will be “frozen” as is.

• Cheating: Cheating will not be tolerated -- every person should have an equal chance to do well. The penalty for cheating on any aspect of this course will be an "F" for the course, in addition to all other actions permitted by University rules. No outside materials are permitted on any test or exam, except as stated explicitly by the instructor.

Tests: Mid-term exam:
Exam: 6 May 2008 (Tuesday) at 8:00 - 10:00 AM

Ch: § Topic Exercises and Problems
5 Magnetostatics set 1: # 1, 4, 5, 7, 8, 10, 11, 13, 14, 18, 19
   set 2: # 23, 24, 27, 34, 35, 39, 49
6 Mag. fields in matter set 3: # 1, 3, 7, 8, 12, 26
7 Electrodynamics set 4: # 1, 7, 8, 10, 16, 17
   set 5: #, 20, 22, 25, 26
8 Conservation Laws set 6: # …
9 EM waves set 7: # 9, 10, 11, 16, 18, 19c
11 Radiation set 8: # 3, …
12 Relativity set 9: #