305, Electromagnetic Theory    Fall 2008
Instructor: Dr. Dennis McCaughey
Telephone: 703-488-4785
Office hours: Tuesday and Thursday 4:00 to 4:30pm
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Text: Engineering Electromagnetics, 7th Ed., by William H. Hayt, Jr. and John A. Buck
       Electromagnetics, by Edminster (a Schaum's outline to help students with homework problems, not used in class)

Schedule ................. The following chapters are from Hayt and Buck
Aug 26, 28......................Vector Analysis Ch 1
Sept 2, 4 .......................Coulomb’s Law Ch 2
Sept 9, 11 ......................Electric Flux Density Ch 3
Sept 16 ........................Review
Sept 18 ........................TEST I on material in Chs 1, 2, and 3
Sept 23, 25 .....................Energy and Potential Ch 4
Oct 2, 7 through Oct 9 .Current and Conductors Ch 5 (skip Section 5.11),
Oct 14 ..........................No class
Oct 16 ..........................Poisson’s Equation Ch 7 (skip Ch 6 and 7.5)
Oct 21 ..........................Review
Oct 23 ..........................Test II on material in Chs 4, 5, and 7
Oct 28, 30 ........................Steady State Magnetic Field Ch 8
Nov 4, 6 ........................Magnetic Forces Ch 9
Nov 11, 13 ........................Maxwell’s Equations Ch 10
Nov 18, 20 ........................Transmission Lines Ch 11 and Review
Nov 24 ..........................Test III on material in Chs 9, 10 and 11
Nov 26 through 30 ......Thanksgiving
Dec 2, 4 ........................Plane Waves and Dispersion Ch 12
Dec 4, 6 ........................Guide Waves Review Ch 13, Ch 14
Dec TBD ........................Final

The final exam will cover material from the whole course through Chapter 12 of Hayt and Buck.

Grading: Homework-10%, each test-20%, final exam-30%..
Homework for a particular chapter is due at the beginning of class on the due date listed on the homework assignments page. Solutions will be given when the homework is returned to the student. No late submissions are allowed unless a true emergency crops up.