305, Electromagnetic Theory    Fall 2009
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Text: Engineering Electromagnetics, 7th Ed., by William H. Hayt, Jr. and John A. Buck
Electromagnetics, by Edminister (a Schaum's outline to help students with homework problems, not used in class)

Schedule .........................The following chapters are from Hayt and Buck
Aug 31, Sept 2..............Vector Analysis Ch 1
Sept 7...........................No class
Sept 9, 14......................Coulomb’s Law Ch 2
Sept 16..........................Test I Vectors and Transformations
Sept 21..........................Electric Flux Density Ch 3
Sept 23, 28......................Energy and Potential Ch 4
Sept 30, through Oct 7.....Current and Conductors Ch 5 (skip Section 5.11),
Oct 13...........................Dielectrics and Capacitance Ch 6
Oct 14...........................Poisson’s Equation Ch 7
Oct 19...........................Test II Material up to Ch 7
Oct 21...........................Project lecture and assignment
Oct 26, 28......................Steady State Magnetic Field Ch 8 & Ch 9
Nov 2, 4..........................Maxwell’s Equations Ch 10
Nov 11...........................Maxwell’s Equations Ch 10
Nov 16...........................The Uniform Plane Wave Ch 12
Nov 18...........................Plane Waves and Dispersion Ch 13
Nov 23...........................Guided Waves Ch 14
Nov 25-29........................Thanksgiving
Nov 30...........................Transmission Lines Ch 11
Dec 2............................Applications to Optics Diffraction, Projects due
Dec 7............................Applications to Optics, Fiber
Dec 9............................Review
Dec TBD..........................Final

The final exam will cover material from the whole course through Chapter 14 of Hayt and Buck.

Grading: Homework-10%, each test-10%, Project-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.