Syllabus for Physics 171, Spring 2007

Textbook – Electricity and Magnetism, Purcell
Week   Topics   Reading (Purcell)   Examinations

Jan. 8-12  Introduction, Charge, Forces on Discrete Charges   Ch. 1
Jan. 17-19  Continuous Charge Distributions   Ch. 1
Jan. 22-26  Electric Potential   Ch. 2
Jan. 29-Feb 2  More on Electric Potential and Electric Fields   Ch. 2
Feb. 5-9  Conservative and Nonconservative Vector Fields

Applications of Electric Potential
Drop Deadline, Feb. 9
   Ch. 2
Feb. 12-16  Conductors in Equilibrium   Ch. 3
           Midterm, Wed. Feb 14
Feb. 19-23  Currents in Conductors   Ch. 4
Feb. 26-Mar. 2  Introduction to Special Relativity
           App. A, Ch. 5
Mar. 5-Mar. 9  Spring Break
Mar. 12-16  Relativity (cont'd); Field of a Moving Charge
           App. A, Ch 5.
Mar. 19-23  Magnetic Forces and Fields   Ch. 6
Mar. 26-30  Magnetostatics   Ch. 6
Apr. 2-6  Faraday's Law, Induction   Ch. 7
Apr. 9-13  Displacement Current, Maxwell's Equations
           Ch. 9  Midterm, Wed. April 11
Apr. 16-20  EM Waves   Ch. 9
April 30  Final Examination