

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	