

Week	Dates (Start on Tues after week 1)	Topics	Knight chapters (approximate: see posted reading assignments)	Laboratory (Starts Monday of week 2)
1	Feb 4-8	Charge, electric field, Gauss's law	25, 26, 27 (part)	No lab
2	Feb 11-15	Gauss's law, Electric potential	27 (rest), 29, 30 (part)	Lab I. Electroscope
3	Feb 18-22	Electric potential, capacitance Hour test 1: Mon, Feb 25	30 (rest except 30.5) YF 24.4-5 (on web)	Lab II. Intro to DC circuits
4	Feb 25-29	Current, DC Circuits, RC circuits	28, 30.5, 31	Lab III. More DC circuits, Intro to Oscilloscope
5	Mar 3-7	Magnetic Field, Biot-Savart	32.1-5, 32.7-9	Lab IV. DC, RC circuits
6	Mar 10 - 14	Biot-Savart , Ampere's law Hour test 2: Thu, Mar 13??	32.6, 32.10	Midterms – no lab.
	Mar 15-23	Spring Break		
7	Mar 24-28	Faraday's law of induction Inductance	33.1-8 YF 30.1 (on web)	Lab V. Magnetic forces: magnetic balance, build motor
8	Mar 31-Apr 4	RL Circuits, Alternating Current Circuits	33.9-10, 35, Notes	Lab VI. e/m, play in cyclotron
9	April 7-11	Alternating Current Circuits Hour test 3: Mon, Apr 14??	35, Notes	Lab VII. RLC resonant circuits
10	April 14-18	Maxwell's Equations and EM waves	34, review 20	Lab VIII. Diode, transistor
11	April 21-25	Properties of Light Interference and Diffraction		Lab IX. Build AM radio
12	Apr 28-May 2	Interference and Diffraction		Lab X. Physical optics, interference
	May 5-13	Reading Period: Hour test 4: Mon, May 5		
	May ??	Final Examination		