

PHYS 4B (ticket # 19250)

tentative COURSE OUTLINE

**See LABORATORY Schedule for weekly lab experiments.

Week	Tuesday	Thursday	Tuesday	Thursday
1-2	January 9 Introduction & Electric Charge Ch 21	11 Electric Charge / Electric Fields Ch 21 / Ch 22	16 Electric Fields Ch 22	18 Electric Fields Ch 22
3-4	23 Gauss' Law Ch 23	25 Gauss' Law Ch 23	30 Gauss' Law / Electric Potential Ch 23 / Ch 24	February 1 Electric Potential Ch 24
5-6	6 Electric Potential Ch 24	8 Capacitance Ch 25	13 Capacitance Ch 25	15 Current & Resistance Ch 26
7-8	20 Current & Resistance Ch 26	22 D.C. Circuits Ch 27	27 D.C. Circuits Ch 27	March 1 D.C. Circuits Ch 27 FIRST FORMAL LAB DUE can be on lab # 1, 5 or 6
9-10	6 D.C. Circuits Ch 27	8 Magnetic Fields Ch 28	13 SPRING BREAK	15 SPRING BREAK
11-12	20 Magnetic Fields Ch 28	22 Magnetic Fields due to Currents Ch 29 MIDTERM EXAM (Ch 21 – 27 in LAB)	27 Magnetic Fields due to Currents Ch 29	29 Induction & Inductance Ch 30
13-14	April 3 Induction & Inductance Ch 30	5 Induction & Inductance Ch 30	10 Electromagnetic Oscillations & Alternating Current Circuits Ch 31	12 Electromagnetic Oscillations & Alternating Current Circuits Ch 31
15-16	17 Electromagnetic Oscillations & Alternating Current Circuits Ch 31	19 Electromagnetic Oscillations & Alternating Current Circuits Ch 31	24 Magnetism of Matter: Maxwell's Equations Ch 32	26 Magnetism of Matter: Maxwell's Equations Ch 32 LABORATORY PRACTICAL
17-18	May 1 Electromagnetic Waves Ch 33 (sections 33.1 – 33.5)	3 Electromagnetic Waves Ch 33 (sections 33.1 – 33.5) 2 ND FORMAL LAB DUE can be on lab # 7, 8 or 11	8 Catch-Up	10 CLASSES NOT IN SESSION
FINAL EXAM Thursday, May 17 th 10:15 am – 12:15 pm				