

DATE	SECTIONS	PH 1121 DISCUSSION TOPICS
T, 10/27	21-1 to 21-6	Electromagnetism, electric charge, conductors and insulators, Coulomb's Law, charge is quantized, charge is conserved
W, 10/28	22-1 to 22-4 SURVEY	Charges and forces, electric field, electric field lines, electric field due to a point charge SURVEY FOR GROUP WORK DUE IN LECTURE
Th, 10/29	IS 1 PRE TEST	Electric Field MANDATORY PRE TEST IN LAB
F, 10/30	22-5 to 22-9 HW 1 DUE	Electric field due to: an electric dipole, a line of charge, a charged disk; point charge in an electric field, dipole in an electric field MANDATORY PRE TEST IN LAB
M, 11/2	23-1 to 23-5	Re-examination of Coulomb's Law, flux, flux of an electric field, Gauss' Law, Gauss' Law and Coulomb's Law
T, 11/3	IS 2, L1	Gauss' Law, LAB 1
W, 11/4	23-6 to 23-9 L1	Charged, isolated conductor; Gauss' Law applied to: cylindrical symmetry, planar symmetry, spherical symmetry LAB 1
Th, 11/5	24-1 to 24-6 L2	<i>Group problems on:</i> Electric potential energy, electric potential, equipotential surfaces, calculating the potential from the electric field, potential due to a point charge and a group of charges, LAB 2
F, 11/6	IS 3, L2 HW 2 DUE	Electric Potential LAB 2
M, 11/9	24-7 to 24-11	Potential due to an electric dipole, potential due to a continuous charge distribution, calculating the field from potential, electric potential energy of a system of point charges
T, 11/10	25-1 to 25-5	<i>Group problems on:</i> Capacitance, calculating the capacitance, capacitors in parallel and in series, energy stored
W, 11/11	EXAM I	Chapter 21, Chapter 22, and Chapter 23
Th, 11/12	IS 4, L2	Capacitance, LAB 3
F, 11/13	26-1 to 26-4	Moving charges and electric currents, current density, resistance and resistivity LAB 3
M, 11/16	26-5 to 26-9	Ohm's Law, power in electric circuits, semiconductors, superconductors HW 3 DUE
T, 11/17	27-1 to 27-4, L4	<i>Group problems on:</i> "Pumping charges; work, energy, and emf; calculating the current in a single-loop circuit, LAB 4
W, 11/18	27-5 to 27-8	Potential differences, multiloop circuits, ammeter and voltmeter, RC circuits, LAB 4
Th, 11/19	IS 5, L5	Circuits, LAB 5
F, 11/20	28-1 to 28-5 HW 4 DUE	Magnetic Field, definition of B, discovery of the electron, the Hall Effect, LAB 5
M, 11/23	EXAM II	Chapter 24, Chapter 25, Chapter 26, and Chapter 27
T, 11/24 to Sun, 11/29	No Classes	HAPPY THANKSGIVING
M, 11/30	28-6 to 28-9	Cyclotrons, magnetic force, torque on a current loop, magnetic dipole moment
T, 12/1	IS 6, L6	Magnetic Field, LAB 6
W, 12/2	29-1 to 29-5 HW 5 DUE	Calculating the magnetic field due to a current, force between two parallel currents, Ampere's Law, solenoids and toroids, current-carrying coil as a magnetic dipole, LAB 6
Th, 12/3	IS 7, L7	Ampere's Law, LAB 7
F, 12/4	30-1 to 30-5	Induction and inductance, Faraday's Law, Lenz's Law, LAB 7
M, 12/7	30-6 to 30-10	Inductors and inductance, self-induction, RL circuits, energy stored
T, 12/8	IS 8 POST TEST	Conservation of Energy MANDATORY POST TEST IN LAB
W, 12/9	HW 6 DUE POST TEST	Review for Exam III MANDATORY POST TEST IN LAB
Th, 12/10		Review in Conference and/or Opportunity to work on projects
F, 12/11	EXAM III	Chapter 28, Chapter 29, Chapter 30
M, 12/14		PROJECT PRESENTATION DAY 1, IN LECTURE (Attendance is Mandatory)
T, 12/15		PROJECT PRESENTATION DAY 2, IN LAB AND IN CONFERENCE
W, 12/16		PROJECT PRESENTATION DAY 3, IN LECTURE, AND IN LAB
Th, 12/17		PROJECT PRESENTATION DAY 4, IN CONFERENCE, AND IN LAB

