

DATE	SECTIONS	PH 1121 DISCUSSION TOPICS
T, 10/24	21-1 to 21-6	Electromagnetism, electric charge, conductors and insulators, Coulomb's Law, charge is quantized, charge is conserved
W, 10/25	22-1 to 22-4 <b>SURVEY</b>	Charges and forces, electric field, electric field lines, electric field due to a point charge <b>SURVEY FOR GROUP WORK DUE IN LECTURE</b>
Th, 10/26	<b>IS 1 PRE TEST</b>	<b>Electric Field MANDATORY PRE TEST IN LAB</b>
F, 10/27	22-5 to 22-9 <b>HW 1 DUE</b>	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 <b>MANDATORY PRE TEST IN LAB</b>
M, 10/30	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, 10/31	<b>IS 2, L1</b>	<b>Gauss' Law, LAB 1</b>
W, 11/1	23-6 to 23-9 <b>L1</b>	Charged, isolated conductor; Gauss' Law applied to: cylindrical symmetry, planar symmetry, spherical symmetry <b>LAB 1</b>
Th, 11/2	24-1 to 24-6 <b>L2</b>	<b>Group problems on:</b> 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, <b>LAB 2</b>
F, 11/3	<b>IS 3, L2 HW 2 DUE</b>	<b>Electric Potential LAB 2</b>
M, 11/6	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, 11/7	25-1 to 25-5	<b>Group problems on:</b> Capacitance, calculating the capacitance, capacitors in parallel and in series, energy stored
W, 11/8	<b>EXAM I</b>	<b>Chapter 21, Chapter 22, and Chapter 23</b>
Th, 11/9	<b>IS 4, L3</b>	<b>Capacitance, LAB 3</b>
F, 11/10	26-1 to 26-4 <b>HW 3 DUE</b>	Moving charges and electric currents, current density, resistance and resistivity <b>LAB 3</b>
M, 11/13	26-5 to 26-9	Ohm's Law, power in electric circuits, semiconductors, superconductors
T, 11/14	27-1 to 27-4, <b>L4</b>	<b>Group problems on:</b> "Pumping charges; work, energy, and emf; calculating the current in a single-loop circuit, <b>LAB 4</b>
W, 11/15	27-5 to 27-8	Potential differences, multiloop circuits, ammeter and voltmeter, RC circuits, <b>LAB 4</b>
Th, 11/16	<b>IS 5, L5</b>	<b>Circuits, LAB 5</b>
F, 11/17	28-1 to 28-5 <b>HW 4 DUE</b>	Magnetic Field, definition of B, discovery of the electron, the Hall Effect, <b>LAB 5</b>
M, 11/20	<b>EXAM II</b>	<b>Chapter 24, Chapter 25, Chapter 26, and Chapter 27</b>
T, 11/21 to Sun, 11/26	<b>No Classes</b>	<b>HAPPY THANKSGIVING</b>
M, 11/27	28-6 to 28-9	Cyclotrons, magnetic force, torque on a current loop, magnetic dipole moment
T, 11/28	<b>IS 6, L6</b>	<b>Magnetic Field, LAB 6</b>
W, 11/29	29-1 to 29-5 <b>HW 5 DUE</b>	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, <b>LAB 6</b>
Th, 11/30	<b>IS 7, L7</b>	<b>Ampere's Law, LAB 7</b>
F, 12/1	30-1 to 30-5	Induction and inductance, Faraday's Law, Lenz's Law, <b>LAB 7</b>
M, 12/4	<b>PPD 1</b>	<b>PROJECT PRESENTATION DAY 1, IN LECTURE (Attendance is Mandatory)</b>
T, 12/5	30-6 to 30-10 <b>PPD 2</b>	<b>Group Problems on:</b> Inductors and inductance, self-induction, RL circuits, energy stored <b>PROJECT PRESENTATION DAY 2, IN LABS (Attendance is Mandatory)</b>
W, 12/6	<b>HW 6 DUE</b>	<b>PROJECT PRESENTATION DAY 3, IN LECTURE &amp; LAB (Attendance is Mandatory)</b>
Th, 12/7	<b>IS 8 POST TEST</b>	<b>Conservation of Energy MANDATORY POST TEST IN LAB</b>
F, 12/8	<b>PPD 4 POST TEST</b>	<b>PROJECT PRESENTATION DAY 4, IN LECTURE (Attendance is Mandatory) MANDATORY POST TEST IN LAB</b>
M, 12/11	<b>PPD 5</b>	<b>PROJECT PRESENTATION DAY 5, IN LECTURE (Attendance is Mandatory)</b>
T, 12/12		Review for Exam III in Conference
W, 12/13	<b>EXAM III HW7 DUE</b>	<b>Chapter 28, Chapter 29, Chapter 30</b>