

Physics 2220, Fall 2011 (Readings from Halliday, et al., 8th ed.)

	Monday	Tuesday	Wednesday	Thursday	Friday
Aug.	22 Electric Charge Sections 21.1-21.3	23 Coulomb's Law 21.4-21.6	24 Electric Fields 22.1-22.4	25 Fields of Lines and Planes 22.5-22.9	26 Problem Set and Quiz #1
	29 Flux and Gauss's Law 23.1-23.5	30 Applications of Gauss's Law 23.6-23.9	31 Electric Potential Energy 24.1-24.2	1 Problem Set and Quiz #2	2 Voltage (Elec. Potential) 24.3-24.7
September	5 Labor Day	6 Applications of Voltage 24.8-24.12	7 Capacitors 25.1-25.4	8 Problem Set and Quiz #3	9 Energy in the Electric Field 25.5-25.8
	12 Test (problem sets 1-3)	13 Electric Current 26.1-26.3	14 Resistance and Ohm's Law 26.4-26.9	15 Electric Power 26.7	16 Problem Set and Quiz #4
	19 Kirchhoff's Rules 27.1-27.7	20 DC Circuits 27.8-27.9	21 Magnetism 28.1-28.3	22 Problem Set and Quiz #5	23 Magnetic Forces 28.4-28.10
	26 Sources of the Magnetic Field 29.1-29.3	27 Ampere's Law 29.4-29.6	28 Problem Set and Quiz #6	29 More about Magnetism 32.6-32.11	30 Test (problem sets 4-6)
October	3 Motional EMF 30.1-30.2	4 Faraday's Law 30.3-30.6	5 Inductance 30.7-30.8	6 Problem Set and Quiz #7	7 RL Circuits 30.9-30.12
	10 AC Circuits Chapter 31	11 Maxwell's Equations 32.1-32.5	12 Electromagnetic Waves 33.1-33.6	13 Problem Set and Quiz #8	14 Polarization 33.7
	17 Reflection and Refraction 33.8-33.10	18 Image Formation 34.1-34.5	19 Lenses 34.6-34.9	20 Problem Set and Quiz #9	21 Fall Break
	24 Two-Slit Interference 35.1-35.6	25 Test (problem sets 7 - 9)	26 Thin Films 35.7	27 Single-Slit Diffraction 36.1-36.5	28 Applications of Physical Optics 36.6-36.10
November	31 Problem Set and Quiz #10	1 The Particle Nature of Light 38.1-38.4	2 The Wave Nature of Particles 38.5-38.6	3 Wavefunctions 39.1-39.2, 38.8	4 Problem Set and Quiz #11
	7 Energy Quantization 39.3-39.7	8 The Hydrogen Atom 39.8-39.9	9 Applications of Quantum Mech's. Chapter 40	10 Problem Set and Quiz #12	11 The Principle of Relativity 37.1-37.3
	14 Test (problem sets 10 - 12)	15 Time Dilation 37.4-37.5	16 Length Contraction 37.6	17 Problem Set and Quiz #13	18 The Cosmic Speed Limit 37.7-37.9
	21 Relativistic Energy 37.11-37.12	22 Properties of Nuclei 42.1-42.3, 42.9	23 Problem Set and Quiz #14	24 Thanksgiving	25 Holiday
	28 Radioactivity 42.4-42.7	29 Energy in Nuclear Reactions handout	30 Fission and Fusion Chapter 43	1 Problem Set and Quiz #15	2 Review for Final Exam

Final Exam: Wednesday, December 7, 12:30 - 2:20 p.m.