

Physics 2220, Fall 2009 (Readings from Halliday, et al., 8th ed.)

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

Final Exam: Wednesday, December 9, 12:30 - 2:20 p.m.