

Physics 2220, Fall 2009

(Readings from Knight, 2nd ed.)

	Monday	Tuesday	Wednesday	Thursday	Friday
Aug.	24 Electric Charge Sections 26.1-26.3	25 Coulomb's Law 26.4	26 Electric Fields 26.5-27.2	27 Fields of Lines and Planes 27.3-28.1	28 Problem Set and Quiz #1
	31 Flux and Gauss's Law 28.2-28.4	1 Applications of Gauss's Law 28.5-28.6	2 Electric Potential Energy 29.1-29.3	3 Problem Set and Quiz #2	4 Voltage (Elec. Potential) 29.4-29.7
September	7 Labor Day	8 Applications of Voltage 30.1-30.4, 38.1-38.5	9 Capacitors 30.5	10 Problem Set and Quiz #3	11 Energy in the Electric Field 30.6-30.7
	14 Test (problem sets 1-3)	15 Electric Current 31.1-31.3	16 Resistance and Ohm's Law 31.4-31.5, 32.1	17 Electric Power 32.3	18 Problem Set and Quiz #4
	21 Kirchhoff's Rules 32.2, 32.4-32.6	22 DC Circuits 32.7-32.9	23 Magnetism 33.1-33.2	24 Problem Set and Quiz #5	25 Magnetic Forces 33.7-33.9
	28 Sources of the Magnetic Field 33.3-33.5	29 Ampere's Law 33.6	30 Problem Set and Quiz #6	1 More about Magnetism 33.10	2 Test (problem sets 4-6)
October	5 Motional EMF 34.1-34.3	6 Faraday's Law 34.4-34.7	7 Inductance 34.8	8 Problem Set and Quiz #7	9 RL Circuits 34.10
	12 AC Circuits 34.9, Ch. 36	13 Maxwell's Equations 35.1-35.4	14 Electromagnetic Waves 35.5-35.6	15 Problem Set and Quiz #8	16 Fall Break
	19 Polarization 35.7	20 Reflection and Refraction 23.1-23.3	21 Image Formation 23.8, 23.4	22 Lenses 23.5-23.7	23 Problem Set and Quiz #9
	26 Two-Slit Interference 22.1-22.3	27 Test (problem sets 7 - 9)	28 Thin Films 21.6	29 Single-Slit Diffraction 22.4-22.6	30 Applications of Physical Optics Chapter 24
	2 Problem Set and Quiz #10	3 The Particle Nature of Light 25.3, 39.1-39.3	4 The Wave Nature of Particles 25.4, 39.4	5 Wavefunctions Chapter 40	6 Problem Set and Quiz #11
November	9 Energy Quantization 25.5, 41.3-41.10	10 The Hydrogen Atom 25.1, 38.8, 39.5-39.7	11 Applications of Quantum Mech's. Chapter 42	12 Problem Set and Quiz #12	13 The Principle of Relativity 37.1-37.4
	16 Test (problem sets 10 - 12)	17 Time Dilation 37.5-37.6	18 Length Contraction 37.7	19 Problem Set and Quiz #13	20 The Cosmic Speed Limit 37.8
	23 Relativistic Energy 37.9-37.10	24 Properties of Nuclei 38.6-38.7, 43.1-43.4	25 Problem Set and Quiz #14	26 Thanksgiving	27 Holiday
	30 Radioactivity 43.5-43.6	1 Energy in Nuclear Reactions handout	2 Fission and Fusion handout	3 Problem Set and Quiz #15	4 Review for Final Exam
Dec.					

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