University Physics 2 - Spring 2012 (- revised 02/21/12) - Schneider

Week	Chapters	Topics	Reading Sections	Relevent Examples	Ranking Tasks/ Tutorials	Suggested Problems (also tutorials/hw in webasign)
01/30-02/03	Chapter 30: Maxwell's Equation and Electromagnetic Waves	Electromagnetic Waves (Sec 30.4 1&2/5)	30-4 (1/5, 2/5)			21, 23
	Chapter 31: Properties of Light	Speed of light, Reflection/Refraction, Polarization, Light Spectra, Sources of Light	31-1, 31-3 (all), 31-4 (1/5, 2/5, 3/5 {concepts}, 4/5), 31-7, 31-8 (2/3 {concepts}, 3/3 {concepts})	31-5, 31-6, Interactive 31-4 and 31-5	OpticsHW 117-118 [Team HW143- 145]	29, 31, 33, 41, 43, 53, 61, 81
02/06-02/10	Chapter 32: Optical Images	Plane and Spherical mirrors, Thin Lenses, Optical Instruments (near/far sighted, microscope, telescope, spyglass)	32-1 (all), 32-2 (2/5, {start eq 32-12} 3/5, 4/5), 32-4 (concepts in: 1/4, 3/4, 4/4)	32-1, 32-2, 32-9, 32-11 (algeb)	[Team HW121/12 4]	45, 47, 49, 55a, 63, 73, 95, 99
02/13-02/17	Chapter 33: Interference and Diffraction	Phase difference and Coherence, Interference in thin films, Two slit interference,	33-1, 33-2, 33-3 (1/2, 2/2 [eq 33-8]), 33-4 (1/2, 2/2 {concepts}), 33-8 (1/2)	33-3, 33-5, 33-6, 33-10		27, 29, 35, 41, 45, 59, 63
02/20-02/24	Chapter 33: Interference and Diffraction (continued)	Diffraction of a single slit, Diffraction grating, Phasors (vector kind!)	п	11		п
Fri 02/24/12	Test #2 (Chapters 30-33)	Potential Test Topics: * Polarization (rotated polarizers) * Snell's law (also total internal reflection - can light escape?) * Thin lenses and mirrors (single lens/mirror, calculations, sketches, conceptual questions) * Double lens systems (calculations, conceptual, applications: telescope, microscope, spyglass) * Double slit/single slit/diffraction grating (finding location of a certain order) * multiple slits - 3 or more (interference pattern, effect of increasing the number of slits) [thin film interference on next test]				