

University Physics 2 - Spring 2012 (- revised 01/15/12) - Schneider

Week	Chapters	Topics	Reading Sections	Relevant Examples	Ranking Tasks/Tutorials	Suggested Problems (also tutorials/hw in webasign)
01/16-01/20	<i>Chapter 14: Oscillations</i> (Volume 1 of Tipler)	Simple Harmonic Motion, Energy, Oscillating Systems, Damped/Driven, Simple pendulum	14-1 (1/2), 14-2 (1/2), 14-3 (2/4 first half), 14-4 (concepts - first half)	14-1, 14-2, 14-4, 14-5	RT14 (pdf in bb)	31/33 (compare!), 37, 49, 63, 97
	<i>Chapter 15: Wave Motion</i> (Volume 1 of Tipler)	Simple wave motion, periodic waves, Waves in 3D (decibels), Doppler Effect, shock waves (sonic boom)	15-1 (1/4, 2/4), 15-2 (1/4, 2/4), 15-3 (all - eqs 15-29, 30, 33, 34), 15-5 (all - eqs 15-41a, 42, 44)	15-5, 15-8, 15-9, 15-12, 15-14, 15-15	RT15	41, 55, 59, 73, 75, 77, 81
01/23-01/27	<i>Chapter 15: Wave Motion</i> (continued)	see above	"	"		"
	<i>Chapter 16: Superposition of Standing Waves</i> (Vol1)	Superposition of waves, Standing waves, Harmonic Analysis (FFT)	16-1 (1/3, 3/3 [early concepts then eqs 16-8, 9]), 16-2 (1/3, 2/3 [eqs 16-11, 13]), 16-3 (2/3)	16-3, 16-5, 16-9		31, 45, 53, 69, 75
Fri 01/27/12	Test #1 (Chapters 14-16)	Potential Test Topics: * Simple Harmonic Motion (position, velocity, energy) * Standing waves (string/sound) * Traveling waves * Doppler effect (source and observer, one/both moving) * Sound waves (beats, intensity, decibel scale)				