

Tentative Schedule: College Physics II, Winter 2012-13				
Week	Mtg	Read in Preparation	Subject Matter; Activity Manual (AM) Readings	
1	L1	Review Ch. 1-10, pp. 1-321	<i>Syllabus and Supplements</i> <i>Ideal Fluid Statics, Pressure</i>	
	W1A	§§ 13.1-13.3, pp. 405-414	AM: "Pressure"	AM: "Pressure Problems," AM: "J-Tube Problem"
	W1B	§ 13.4, pp. 415-419	AM: "Buoyant Force"	AM: "Polar Bear (U. maritimus) Problem"
2	L2	§§ 13.5-13.6, pp. 419-427	<i>Ideal Fluid Dynamics (Continuity &amp; Bernoulli)</i>	
	W2A		AM: "Bernoulli Problems"	
	W2B	§ 13.7, pp. 427-430	<i>Viscosity &amp; Poiseuille Flow</i>	AM: "Viscosity Problems"
3	L3	Chapter 13, pp. 405-431	<b>Exam I</b> <i>Temperature, Thermal Energy, Ideal Gas</i>	
	W3A	§§ 11.1-11.4, §§ 12.1-12.2 pp. 322-334, 363-371	AM: "Absolute Zero"	AM: "The Ideal Gas Law"
	W3B	§ 12.4, pp. 378-381	<i>Thermal Expansion</i>	AM: "Thermal Expansion Problem"
4	L4	§ 11.5, § 12.3, pp. 334-338, 371-378	<i>Ideal Gas Processes, pV Diagrams, Work, Heat, 1<sup>st</sup> Law</i>	
	W4A	§ 12.5, pp. 381-385	AM: "Ideal Gas Process Problem"	AM: "P-T Phase Diagrams"
	W4B	§ 12.6, pp. 385-387	AM: "Calorimetry"	
5	L5	§§ 11.6-11.9, § 12.7, pp. 338-347, 387-390	<i>Cyclic Processes (heat engines &amp; refrigerators), 2<sup>nd</sup> Law</i>	
	W5A		AM: "Cyclic Processes and the 2 <sup>nd</sup> Law of Thermodynamics"	AM: "Heat Engines"
	W5B	§ 12.8, pp. 390-394	<i>Heat Transfer</i>	AM: "Heat Transfer Questions"
6	L6	Chapters 11-12, pp. 322- 349, 362-396	<b>Exam II</b> <i>Simple Harmonic Motion</i>	
	W6A	§§ 14.1-14.4, pp. 444-460	SHM: <i>The Linear Spring</i> AM: "Simple Harmonic Motion"	AM: "Forces and Energy in Simple Harmonic Motion"
	W6B	§§ 14.5, pp. 460-463	AM: "The Simple Pendulum"	
7	L7	§§ 14.6-14.7, 15.1-15.4, pp. 463-468, 477-490	<i>Damping &amp; Resonance, Traveling Waves (including sound)</i>	
	W7A		AM: "Waves"	AM: "Sound-Frequency Spectrum"
	W7B	§§ 15.5-15.7, pp. 490-500	AM: "Sound Level and Intensity Problems"	AM: "Supplementary Notes: Doppler Effect With Sound," AM: "Doppler Effect"
8	L8	§§ 16.1-16.5, pp. 507-522	<i>Standing Waves &amp; Musical Instruments</i>	
	W8A		AM: "Standing Waves on a String"	
	W8B	§§ 16.6-16.7, pp. 523-530	<i>Interference and beats</i>	AM: "Sound Interference Problems"
9	L9	Chapters 14-16, pp. 442- 469, 477-500, 507-530	<b>Exam III</b> <i>Electromagnetic Waves, Optical Interference</i>	
	W9A	§§ 17.1-17.3, §§ 17.5-17.6, pp. 542-552, 560-566	AM: "Interference and Diffraction"	
	W9B	§§ 17.3-17.4, pp. 553-560	AM: "Thin Film Interference Practice Problems"	AM: "Spectroscopy (An application for diffraction gratings)"
10	L10	§§ 18.1-18.7, pp. 574-602	<i>Geometric ("Ray") Optics and Optical Instruments</i>	
	W10A		AM: "Snell's Law"	
	W10B	§§ 19.1-19.7, pp. 609-630	AM: "Thin Lens Equation"	AM: "Thin Convex Lenses"

This schedule is tentative and may be altered to optimize the actual course flow.

You, the student, are responsible for all reading assignments in all three columns independent of the schedule actually followed.