

FINAL

lecture topics

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(discard earlier copy)

Lecture Topics Ph 109 (FALL 1997)				
revised August 13, 1997				
WK	DATE	Lect Topic	HW assignment	LAB
1	3-Sep	Introduction		no lab
2	8-Sep	Ch. 1: Periodic Motion: displacement, T, f....		Principles - loudspeaker etc
	10-Sep	SHM, damping ,res curve (?)		
3	15-Sep	Ch. 2: superposition		Oscilloscope, hearing
	17-Sep	beats, beat frequency, phase shift		
4	22-Sep	Ch.3: waves and pulses, speed of sound		Harmonic Osc. resonance
	24-Sep	standing waves		
5	29-Sep	Ch 6: Strings		Strings
	1-Oct	Ch 7: Pipes		
6	6-Oct	First Exam		Pipes
	8-Oct	Ch. 8: Fourier Analysis		
7	13-Oct	Ch. 9: Scales - intervals		Sound analysis
	15-Oct	Scales, harmony		
8	20-Oct	Ch. 10: Musical Instruments		Scales
	22-Oct	Ch. 12 Mirrors, refraction		
9	27-Oct	Ch 12: refraction; Ch 13: lenses		Musical Instruments
	29-Oct	Ch 13: Lenses, images, lens formula		
10	3-Nov	Second Exam		Lenses
	5-Nov	Ch13: magnification		
11	10-Nov	CH. 14: Cameras, f-stop		Photography 1
	12-Nov	film speed		
12	17-Nov	Ch. 11: Nature of light		Photography 2
	19-Nov	Young's expl.		
13	24-Nov	Ch. 15: Colorometry: RGB, hue, chroma		no lab
	26-Nov	color triangle; pigments and filters		
		Thanksgiving week		
14	1-Dec	other possible topics: color film (reversal process);		Additive color mixing
	3-Dec	color TV; the sensors: eye and ear differences		
15	8-Dec	and limitations, authentication, age determination etc		no lab
	10-Dec	Third Exam		