

week	tuesday	thursday	lab	exam
1		1/12: review syllabus, why are you taking this class?		
2	1/17: what is sound / music; notes vs noise; pitch (chpt 1,2)	1/19: math review; music terminology, scales, intervals (chpt 1,2)		
3	1/24: physics terminology	1/26: oscillations (periodic motion, SHM, resonance) (chpt 3)		
4	1/31: waves (superposition, interference, beats) (chpt 3)	2/2: waves (reflection, refraction, diffraction, Doppler) (chpt 3)	1	
5	2/7: timbre, harmonics, standing waves (chpt 4)	2/9: Fourier analysis/synthesis (chpt 4)	2	
6	2/14: plucked and bowed strings (chpt 5)	2/16: string instruments (chpt 5)	3	exam 1 (2/16)
7	2/21: oscillating air columns; open and closed tubes (chpt 5)	2/23: wind instruments (chpt 5)	4	
8	2/28: percussion instruments (inharmonicities) (chpt 5)	3/2: voice (vocal organs, vocal tract, formants, ...)	5	
9	3/7: speech, singing	3/9: anatomy of human ear, Fechner's law, logarithms		
10	3/14: SPRING BREAK	3/16: SPRING BREAK		
11	3/21: intensity vs loudness (SIL, dB) (chpt 6)	3/23: Fletcher-Munson curves (phon, sones) (chpt 6)	6	
12	3/28: pitch perception (critical band, JND, LFD)	3/30: missing fundamental, aural harmonics (chpt 5)	10	
13	4/4: attack & decay transients; con/dissonance (chpt 7)	4/6: room acoustics (reflections, echoes, resonances) (chpt 12)	7	exam 2 (4/6)
14	4/11: reverb time; acoustical criteria & design (chpt 12)	4/13: basic electricity (volts, current, energy, power)	8	
15	4/18: basic magnetism (bar magnets, electromagnets, ...)	4/20: Faraday's law, microphones & speakers (chpt 12)	9	
16	4/25: musical scales and intervals (chpt 8)	4/27: circle of fifths, Pythagorean tuning (chpt 8)		
17	5/2: equal temperament, just tuning systems (chpt 8)	5/4 - 5/9 (final exams)		final exam (5/6)