week	tuesday	thursday	lab	exam
1		1/21: what is sound, music? basic math review		
2	1/26: music terminology (scales, intervals, …)	1/28: physics terminology (velocity, acceleration, …)		
3	2/2: periodic motion, SHM, resonance	2/4: wave properties, superposition (interference, beats)		
4	2/9: reflection, refraction, diffraction, Doppler effect	2/11: standing waves, Fourier analysis and synthesis	1	
5	2/16: plucked and bowed strings	2/18: string instruments	2	
6	2/23: oscillating air columns; open and closed tubes	2/25: wind instruments	3	exam 1 (2/25)
7	3/2: percussion instruments (inharmonicities)	3/4: voice (vocal organs, vocal tract, formants, …)	4	
8	3/9: speech, singing	3/11: anatomy of human ear, Fechner’s law, logarithms	5	
9	3/16: loudness (SIL, dB)	3/18: Fletcher-Munson curves (phon, sones)		
10	3/23: pitch perception (critical band, JND, LFD)	3/25: missing fundamental, aural harmonics	6	exam 2 (3/25)
11	3/30: timbre, attack & decay transients; con/dissonance	4/1: room acoustics (reflections, echoes, resonances)	10	
12	4/6: reverberation time; acoustical criteria & design	4/8: basic electricity (volts, current, energy, power)	7	
13	4/13: Faraday’s law (electromagnetic induction)	4/15: generators & motors; microphones & speakers	8	
14	4/20: musical scales and intervals	4/22: circle of fifths, Pythagorean tuning	9	exam 3 (4/22)
15	4/27: equal temperament, just tuning systems	4/29: comparing tuning systems	11	
16	5/4: last day of classes	5/6: no class		
17	5/11: final exam day			final exam (5/11)