

Week	Date	Class Topics	reading	Lab/Tutorial/note
1	1/9	Course Introduction		
		Mathematical description of SHO	15.1	None
	1/11	Mathematical description of SHO	15.2	
2	1/16	Energy of the SHO, circular motion	15.3,15.4	
		Pendulum	15.5	
	1/18	Damped Oscillations and Resonance	15.6 - 15.7	Lab 1 - Simple Harmonic Motion
3	1/23	Introduction to Waves	16.1	Tutorial 1-2
		Traveling waves	16.2	
	1/25	Waves on a string, reflection/transmission	16.3, 16.4	
4	1/30	Sound Waves	16.6, 16.7	
		Sound Wave Intensity / energy	16.8	
	2/1	Doppler Effect	16.9	Lab 2 - Sound Waves and Beats (subject to change)
5	2/6	Mathematics of wave addition	17.1, 17.2	Tutorial 3-4
		Standing waves, waves in a cavity	17.3 - 17.5	
	2/8	More on wave interference, beats	17.7	
6	2/13	Newton's Law of Gravitation	13.1, 13.2, 13.4	Lab 3 - Standing Waves on a String (subject to change)
		Gravitational PE + orbits	13.5, 13.6	Tutorial 5
	2/15	Electrical Charge	22.1, 22.2	
7	2/20			
		READING WEEK		NO LAB/Tutorial
	2/22			
8	2/27	Electric Field	22.4	Lab 3 - Standing Waves on a String (subject to change)
				Tutorial 6
	3/1	Electric field problems, Coulomb's Law Review for Midterm exam	22.3, 22.6, 22.7	Midterm Exam, Mar. 3, Friday 6:30-8:30 pm, Topics: Chapters 15-17, 13
Week	Date	Class Topics	Pre-class reading	Lab/Tutorial

9	3/6	Electric field problems, Electric Flux	22.3, 22.6, 22.7, 23.1	Lab 4 - Electric Potential
		Gauss' Law	23.2, 23.3	Tutorial 7
	3/8	More Gauss' Law	23.4	
10	3/13	Electric potential and potential energy	24.1, 24.2	Tutorial 8
		Potential energy for point charges	24.3	
	3/15	potential/field, conductors	24.4, 24.6	
11	3/20	Electric Current, resistance and Power	26.1, 26.2, 26.6	Lab 5 - e/m of electron
				Tutorial 9
	3/22	Magnetic field + forces	28.1	
12	3/27	Motion of particle in B field	28.2, 28.3	Lab 5 - e/m of electron
				Tutorial 10
	3/29	Force on current carrying wire	28.4, 30.2	
13	4/3	Hall effect	28.6	Make up Labs
		Biot- Savart law	29.1	
	4/5			
	4/10			
14		Attraction / Repulsion of current carrying conductors.	29.2	
	4/12	Review/catch up		