

Physics 123 Winter 2016

1/4/16 12:50 PM

week	day	date	lecture topic	text reading	SmartPhysics	tutorial	lab
1	M	4-Jan	Harmonic Oscillator I	14-1 to 14-2	1. Simple Harmonic Motion	No tutls 1st week	No lab 1st week
	W	6-Jan	Harmonic Oscillator II	14-3 to 14-5	2. Simple & Physical Pendula		
	F	8-Jan	Traveling Waves	15-1 to 15-2	3. Harmonic Waves		
2	M	11-Jan	Waves, Barriers & Doppler	15-3 to 15-5		Superposition & Reflection	Resonances on String
	W	13-Jan	Sound Intensity & Standing Waves	16-1 to 16-2	4. Waves & Superposition		
	F	15-Jan	Beats & Interference	16-3, 31-1 to 2	5. Displacement Current & EM		
3	M	18-Jan	HOLIDAY	-	-	Reflection & Transmission	Waves, Phase, Speed
	W	20-Jan	Review & Extension	-	-		
	Th	21-Jan	EXAM 1	-	-		
	F	22-Jan	EM Waves	30-3 to 30-4	6. Properties of EM Waves		
4	M	25-Jan	Polarization & Spectra	31-4 to 31-7	7. Polarization	EM Waves	Light rays & Law of Reflection
	W	27-Jan	Reflection & Refraction	31-1 to 31-3	8. Reflection & Refraction		
	F	29-Jan	Mirrors, Lenses & Images	32-1 to 32-2	9. Lenses		
5	M	1-Feb	More on Images	-	10. Mirrors	2 Source Interference	Mirrors
	W	3-Feb	Optical Devices	32-3 to 32-4	11. Optical Instruments		
	F	5-Feb	Phase & Two Source Interference	33-1 to 33-3			
6	M	8-Feb	Diffraction & Phasors	33-4 to 33-6		Wave Properties of Light	Lenses
	W	10-Feb	Review & Extension	-			
	Th	11-Feb	EXAM 2	-			
	F	12-Feb	Slits & Gratings	33-7 to 33-8			
7	M	15-Feb	HOLIDAY	-		Multiple Slit Interference	Optical Instruments
	W	17-Feb	Light Waves & Photons	34-1 to 34-3			
	F	19-Feb	Matter Waves & Wave Functions	34-4 to 34-7			
8	M	22-Feb	Atomic Structure & Spectra	34-8 to 34-10		Single Slit Diffraction	Diffraction & Interference
	W	24-Feb	Relativity I	39-1 to 39-3			
	F	26-Feb	Relativity II	39-4 to 39-5			
9	M	29-Feb	Relativity III	39-6 to 39-7		Events & Reference Frames	Spectra & Planck's Constant
	W	2-Mar	Review & Extension	-			
	Th	3-Mar	EXAM 3	-			
	F	4-Mar	Nuclei & Nuclear Reactions	40-1 to 40-3			
10	M	7-Mar	Fission & Fusion	40-3 to 40-4		Simultaneity	Make-up Labs
	W	9-Mar	More Applications	-			
	F	11-Mar	Review & Extension	-			
11	-	14-Mar	FINAL EXAMS begin				

textbook: Tipler