

Physics 123 Autumn 2015

9/27/15 8:29 PM

week	day	date	lecture topic	SmartPhysics	text reading	Lec HW	tutorial	lab
1	W	30-Sep	Harmonic Oscillator I	1. Simple Harmonic Motion	14-1 to 14-2		No tutls 1st week	No lab 1st week
	F	2-Oct	Harmonic Oscillator II	2. Simple & Physical Pendula	14-3 to 14-5			
2	M	5-Oct	Traveling Waves	3. Harmonic Waves	15-1 to 15-2		Superposition & Reflection	Resonance & Standing Waves
	W	7-Oct	Waves, Barriers & Doppler		15-3 to 15-5	HW 1		
	F	9-Oct	Sound Intensity & Standing Waves	4. Waves & Superposition	16-1 to 16-2			
3	M	12-Oct	Beats & Interference	5. Displacement Current & EM	16-3, 31-1 to 2		Reflection & Transmission	Waves, Phase, Speed
	W	14-Oct	EM Waves	6. Properties of EM Waves	30-3 to 30-4	HW 2		
	F	16-Oct	Polarization & Spectra	7. Polarization	31-4 to 31-7			
4	M	19-Oct	Reflection & Refraction	8. Reflection & Refraction	31-1 to 31-3		EM Waves	Light Reflection & Refraction
	W	21-Oct	Review & Extension	-	-	HW 3		
	Th	22-Oct	EXAM 1					
	F	23-Oct	Mirrors, Lenses & Images	9. Lenses	32-1 to 32-2			
5	M	26-Oct	More on Images	10. Mirrors			2 Source Interference	Mirrors
	W	28-Oct	Optical Devices	11. Optical Instruments	32-3 to 32-4	HW 4		
	F	30-Oct	Phase & Two Source Interference		33-1 to 33-3			
6	M	2-Nov	Diffraction & Phasors		33-4 to 33-6		Wave Properties of Light	Lenses
	W	4-Nov	Slits & Gratings		33-7 to 33-8	HW 5		
	F	6-Nov	Light Waves & Photons		34-1 to 34-3			
7	M	9-Nov	Review & Extension				Multiple Slit Interference	Optical Instruments
	W	11-Nov	HOLIDAY			HW 6	Wed: No tutorial	
	Th	12-Nov	EXAM 2					
	F	13-Nov	Matter Waves & Wave Functions		34-4 to 34-8			
8	M	16-Nov	Atomic Structure & Spectra		34-10, 36-1 & 6		Tu & Thu: Single Slit Diffr.	Diffraction & Interference
	W	18-Nov	Relativity I		39-1 to 39-3	HW 7	Weds: Multiple Slit Interference	
	F	20-Nov	Relativity II		39-4 to 39-5			
9	M	23-Nov	No Class Today				Tu & Thu: No tutorials	No Labs
	W	25-Nov	No Class Today			HW 8	Weds: Single Slit Diffr.	
	Th	26-Nov	HOLIDAY					
	F	27-Nov	HOLIDAY					
10	M	30-Nov	Relativity III		39-6 to 39-7		Events & Ref. Frames	Spectra & Planck's Constant
	W	2-Dec	Review & Extension		-	HW 9		
	Th	3-Dec	EXAM 3					
	F	4-Dec	Nuclei & Nuclear Reactions		40-1 to 40-3			
11	M	7-Dec	Fission & Fusion		40-3 to 40-4		Simultaneity	Make-up Labs
	W	9-Dec	More Applications		-			
	F	11-Dec	Review & Extension		-	HW 10		
12	-	14-Dec	FINAL EXAMS begin		-			

textbook: Tipler