

The reading assignments are based on the 6th edition. There are a few changes in the 7th - see the footnotes below.

Month	Day	Lecture Topic	Reading	P. Phor. Phn.	HW Due	Labs	Notes / Deadlines
Jan	5	Intro/Fluid Statics					
	7	More Fluid Statics	Syllabus, 14.0-14.4				
	9	Fluid Dynamics	14.5-14.7		#1		
	12	Temperature	19.0-19.5		#2	#1 Start	
	14	Heat	20.0-20.3		#3	Pressure	
	16	Work from Heat	20.4-20.6		#4	#1 Due	BYU Add Deadline
	21	Heat Transfer	20.7		#5		19th is a Holiday
	23	Ideal Gas	21.0-21.2, 21.4 ¹		#6		
	26	Maxwell-Boltzman Gas	21.3, 21.5-21.7 ²		#7	#2 Start	
	28	Heat Engines	22.0-22.1, 22.5		#8	Specific Heat	
	30	Engines	22.2-22.4		#9	#2 Due	
Feb	2	Entropy	22.6-22.7		#10		
	4	What is Entropy?	22.8		#11		9th is Withdrawl Deadline
	6	Waves	16.0-16.2		#12		Exam #1 Feb 6,7,9 Covers HW 1-12
	9	Waves on a String	16.3-16.5	1	#13		
	11	The Wave Equation	16.6	2.0-2.3	#14		
	13	Reflection and Transmission		3.0-3.5	#15		
	17	Sound Waves	17.1-17.3	5	#16	#3 Start	16th is a Holiday Mon. Instruction on 17th
	18	Doppler Efct, Superposition	17.4, 18.1		#17	Dispersion	
	20	Standing Waves	18.2-18.3	4	#18	#3 Due	
	23	Resonance, Beats	18.4-18.5, 18.7		#19	#4,5 Start	
	25	Fourier Transforms		6.0-6.5	#20	Stand. Waves	
	27	More FT		6.6-6.7	#21	#4,5 Due	
March	2	Music		7	#22	#6 Start	Proposal Due
	4	Light, Reflection, Refraction	35.1-35.5		#23	Fourier Transforms	Exam #2 March 4-6 Covers HW 13-23
	6	Huygen, Fermat, Dispersion	35.6-35.9 ³		#24	#6 Due	
	9	Mirrors	36.1-36.2		#25		
	11	Lenses	36.3-36.4		#26		
	13	Aberrations, Imaging Devices	36.5-36.7		#27		
	16	More Devices	36.8-36.10		#28	#7	
	18	Wave Nature of Light	37.1-37.4 ⁴		#29	Telescope	
	20	More on Light Waves	37.5-37.7		#30	#7 Due	
	23	Diffraction	38.1-38.2		#31	#8 Start	Prog. Report Due
	25	More Diffraction	38.3-38.4 ⁵		#32	Interferometer	
	27	Polarization	38.5-38.6		#33	#8 Due	
	30	N-dimensional Waves		8	#34	#9,10 Start	
April	1	Holography		9	#35	Diffr, Brwstrs Angle	
	3	Introduction to Relativity	39.0-39.3		#36	#9,10 Due	Exam #3 April 3,4,6 Covers HW 24-36
	6	Special Relativity	39.4		#37	#11 ⁶ Holography	
	8	Relativistic Transformations	39.5-39.7		#38		
	10	E=mc ²	39.8-39.9		#39		
	13	General Relativity		11.0-11.3	#40		Project Due
	14	NOTE: even though this is a Tuesday, HOMEWORK IS DUE!			#41		
	18	FINAL EXAM	Saturday	2:30 p.m. to 5:30 p.m.		FINAL EXAM	

Footnotes:

- 1 - 21.4 does not discuss the specific heat of solids - so pay attention in class.
- 2 - 21.6 and 21.7 don't exist in the 7th edition. Most of the material was combined into 21.5, but not the discussion of mean free path - so pay attention in class.
- 3 - 35.9 (Fermat's principle) doesn't exist in the 7th edition - pay attention in class.
- 4 - The material in 37.2-37.4 is rearranged, but everything is there except phasor addition. But phasors are the same thing as complex exponentials, which we will have already covered with a reading in Physics Phor Phynatics.
- 5 - 38.4 does not discuss the resolving power of a diffraction grating. I have placed a "handout" online, and we will discuss it in class as well.
- 6 - Lab 11 is a special lab. It will be done in groups. You will need to sign up for a time slot to do this lab.