

<i>Physics 7C Syllabus and Instruction Plan</i>					
Week	Week of	Topics Covered	Sections	Homework covers	Labs
1	16-Jan	Tu: Displacement Currt, Maxwell's Eqns and EM waves,	G-Ch 31.1 - 31.6, 31.8-31.10		No Lab
		Th: EM Waves, Poynting vectors, and Energy			
2	23-Jan	Tu: Ray Optics and Reflection	G 32.1 - 32.7	G-Ch 31	No Lab
		Th: Refraction of light			
3	30-Jan	Tu: Thin Lens	G-Ch 33.1 - 33.3	G-Ch 32	Reflection and Refraction
		Th: Thin Lens			
4	6-Feb	Tu: Huygen's Prin. Double slit interference	G-Ch , 34.1 - 34.5	G-Ch 33	Geometric Optics
		Th: Thin Film Interference			
5	13-Feb	Tu: Single slit Diffraction, Resolution Limits	G- C 35.1-35.5, 35.7, 35.10-35.11	G-Ch 34	Michelson Interferometer
		Th: Diffraction grating and Polarization			
6	20-Feb	Tu: Reference Frames, Einstein's Postulates <i>Midterm 1</i>	T-Ch 1.1 - 1.3	G-Ch 35	No Lab
		Th: Lorentz Trans., Velocity Trans.			
7	27-Feb	Tu: Space-time Diag., Time and Length trans.	T-Ch 1.3 - 1.6	T-Ch 1	Diffraction and Interference
		Th: Doppler Effect, Paradoxes			
8	6-Mar	Tu: Relativitic Energy and Momentum	T-Ch 2.1- 2.4	T-Ch 1	Polarization
		Th: Mass/Energy Conversion			
9	13-Mar	Tu: Blackbody Radiation	T-Ch 3.1 - 3.4	T-Ch 2	No Lab
		Th: Photoelectric Effect and Compton Scattering			
10	20-Mar	Tu: Atomic Nucleus	T-Ch 4.1-4.3	T-Ch. 3	Photoelectric Effect
		Th: Atomic Spectra, Bohr Atom			
11	27-Mar	Tu: Spring Break			
		Th: Spring Break			
12	3-Apr	Tu: Matter Waves, <i>Midterm 2</i>	T- Ch 5.1-5.7	T-Ch 4	No Lab
		Th: Uncertainty principle			
13	10-Apr	Tu: 1D Schroedinger Equation	T-Ch 6.1-6.3	T-Ch 5	Atomic Spectra
		Th: Square-well solutions, Operators			
14	17-Apr	Tu: Simple Harmonic Oscillator	T-Ch 6.4-6.6	T-Ch 6	No Lab
		Th: Reflection and Transmission of Waves			
15	24-Apr	Tu: 3D Schroedinger Eq. and square well solutions	T-Ch 7.1-7.3	T-Ch 6	No Lab
		Th: General Relativity			
16	1-May	RRR Week			

Final Exam, Thursday, May 12, 7:00-10:00PM

This is the overall plan at the beginning of the semester. The topics and/or the dates on which they will be covered will almost certainly change as the semester progresses.