Physics 7C Syllabus: Stahler

Week of	Topics	Text Reading	Lab
Jan 15	Maxwell's Eqns and EM Waves Energy Flux	G: 31.1-31.6 G: 31.8-31.10	
Jan 22	Ray Optics; Reflection Refraction	G: 32.1-32.3 G: 32.4-32.7	Reflection and Refraction
Jan 29	Thin Lenses; Ray Tracing Lens Combinations	G: 33.1-33.2 G: 33.3, 33.5	Geometric Optics
Feb 5	Double-Slit Interference Diffraction; Resolution	G: 34.1-34.3 G: 35.1-35.4	Diffraction and Interference
Feb 12	Polarization Reference Frames and Einstein Postulates	G: 35.11 T: 1.1-1.2	Polarization
Feb 19	Lorentz Transformations **Midterm 1** Time and Length Transformations	T: 1.3 T: 1.4	
Feb 26	Paradoxes Doppler Effect	T: 1.5-1.6 T: 1.4	
Mar 5	Momentum and Energy Mass-Energy Conversion	T: 2.1-2.2 T: 2.3	
Mar 12	Relativistic Dynamics Blackbody Radiation	 T: 3.1-3.2	
Mar 19	Photoelectric Effect; Compton Scattering Atomic Spectra; Bohr Atom	T: 3.3-3.4 T: 4.1-4.3	Photelectric Effect
Mar 26	**Spring Break**		
Apr 2	Matter Waves **Midterm 2** Uncertainty Principle	T: 5.1-5.3 T: 5.5-5.6	
Apr 9	1D Schrödinger Equation Square Well Solutions	T: 6.1 T: 6.1-6.3	Atomic Spectra
Apr 16	Expectation Values; Operators Wave Reflection and Transmission	T: 6.4 T: 6.6	
Apr 23	General Relativity Course Summary	T: 2.5	
May 7	**final exam**		

Midterm 1: Tuesday, Feb 20, 7-9 pm, A1 HFA

Midterm 2: Tuesday, Apr 3, 7-9 pm, 155 Dwinelle

Final Exam: Thursday, May 10, 7-10 pm, 4 LeConte

The above topics and their dates may change. Be sure and check bcourses for updates.