

Tentative Syllabus and Calendar

Phys 116, Winter, 2016

L1	Mon	1/4	Periodic motion and oscillations	13.1
L2	Tue	1/5	Simple harmonic motion and circular motion	13.2-5
L3	Thu	1/7	Mass-spring system, energy conservation	13.5-6
L4	Fri	1/8	The pendulum, damped and driven oscillations	13.7-8
L5	Mon	1/11	Types of waves, waves on a string	14.1-3
L6	Tue	1/12	Sound	14.4-5
L7	Thu	1/14	Doppler shift, interference	14.6
L8	Fri	1/15	Superposition	14.7
	Mon	1/18	MLK day	
L9	Tue	1/19	Standing waves and beats	14.8-9
R1	Thu	1/21	Review	
E1	Fri	1/22	Exam 1 - Covers chapters 13-14	
L10	Mon	1/25	Electromagnetic waves	25.1-2
L11	Tue	1/26	Energy and speed of electromagnetic waves	25.3-4
L12	Thu	1/28	Polarization	25.5
L13	Fri	1/29	Reflection, mirrors, and ray tracing	26.1-2
L14	Mon	2/1	Spherical mirrors, mirror equation	26.3-4
L15	Tue	2/2	Refraction and total internal reflection	26.5-6
L16	Thu	2/4	Thin lens equations	26.7
L17	Fri	2/5	Rainbows and vision	26.8, 27.1-2
L18	Mon	2/8	Optical instruments	27.3-6
L19	Tue	2/9	Interference and Young experiment	28.1-2
R2	Thu	2/11	Review	
E2	Fri	2/12	Exam 2 - Covers chapters 25-27	
	Mon	2/15	Presidents day	
L20	Tue	2/16	Thin films	28.3

L21	Thu	2/18	Diffraction and resolution limit	28.4-6
L22	Fri	2/19	Special relativity	29.1-4
L23	Mon	2/22	Momentum and energy; general relativity	29.5-8
L24	Tue	2/23	Early quantum theory	30.1-4
L25	Thu	2/25	de Broglie and Heisenberg	30.5-7
L26	Fri	2/26	Early atomic models	31.1-2
L27	Mon	2/29	Development of quantum mechanics	31.3-5
L28	Tue	3/1	Atomic structure and chemistry; lasers	31.6-7
R3	Thu	3/3	Review	
E3	Fri	3/4	Exam 3 - Covers chapters 28-31	
L29	Mon	3/7	Constituents of matter; particles within particles	32.1
L30	Tue	3/8	Nuclear structure and radioactivity	32.2-3
L31	Thu	3/10	Nuclear energy, radioactivity, cosmology, unified theory	32.4-9
FR	Fri	3/11	Final Review	
FE	Tue	3/15	Final exam, 2:30-4:20 pm, room A118	