

# LECTURE SCHEDULE (subject to change)

Spring 2019

L	DATE	DAY	TOPICS	HOMEWORK (tentative)	LAB WEEKS	GROUP PROJECT
1	January 8	Tuesday	Syllabus, Light, Fermat's Principle			
2	January 10	Thursday	Snell's law, Huygen's Principle	HW 1		
3	January 15	Tuesday	Refraction at curved surfaces, image formation			
4	January 17	Thursday	Series of images, magnification,	HW 2 HW1 Due		
5	January 22	Tuesday	Thin Lenses			
6	January 24	Thursday	Curved mirrors	HW 3 HW 2 Due		
7	January 29	Tuesday	Aberration, prisms, apertures		L1: Thin Converging Lens (Secs. 1&2)	
8	January 31	Thursday	Canceled			
9	February 5	Tuesday	Practice midterm	HW 3 Due	L2: Thin Divergent Lens (Secs. 1&2)  L1: Thin Converging Lens (Sec. 3)  L1 report due (Secs. 1&2)	
10	February 7	Thursday	Midterm 1	HW 4		
11	February 12	Tuesday	Waves; Polarization		L2: Thin Divergent Lens (Sec. 3)  L1 report due (Sec. 3)	
12	February 14	Thursday	Polarization vector, interference	HW 5 HW 4 Due		
13	February 19	Tuesday	Phase Shift		L3: Periscope, Telescope and Microscope  L2 report due	GW 1

14	February 21	Thursday	Fringes	HW 6 HW 5 Due		
15	February 26	Tuesday	Michelson Interferometer		L4: Lens Aberrations L3 report due	GW 2
16	February 28	Thursday	Two narrow slits	HW 6		
	March 4 – 8		Spring break			
17	March 12	Tuesday	Interferometry/Michelson		L5: Polarization Discuss paper topic with TA, L4 report due	GW 3
18	March 14	Thursday	Michelson/Double slit interference	HW 7 HW 6 Due		
19	March 19	Tuesday	Single slit diffraction		L6: Interference Fringes & Newton's Rings Literature list & L5 report due	GW 4
20	March 21	Thursday	N-slit diffraction	HW 7 Due		
21	March 26	Tuesday	Practice midterm		L7: Michelson Interferometer Outline & L6 report due	GW 5
22	March 28	Thursday	Midterm 2			
23	April 2	Tuesday	Diffraction Grating		L8: Diffraction Slits and Gratings L7 report due	GW 6
24	April 4	Thursday	More diffraction, holography	HW8		
25	April 9	Tuesday	Holography, coherence		L9: Holography Draft & L8 report due	GW 7
26	April 11	Thursday	Modern Optics Topics	HW 8 Due		
27	April 16	Tuesday	Modern Optics Topics		L10: Laser Tweezers L9 report due	GW 8
28	April 18	Thursday	Intro to Quantum Optics	HW9		
29	April 23	Tuesday	Intro to Quantum Optics		No lab this week Final paper & L10 report due	

30	April 25	Thursday	Review for final (practice)	HW 9 Due		
	April 30	Tuesday	Final Exam 3:00pm - 5:00 pm Room: BPS 1300			