

LECTURE SCHEDULE

Spring 2020

L	DATE	DAY	TOPICS	HOMEWORK	LABS	GROUP PROJECT
1	January 7	Tuesday	Syllabus, Fermat's Principle			
2	January 9	Thursday	Snell's law, Huygen's Principle	HW 1		
3	January 14	Tuesday	Refraction at curved surfaces, image formation			
4	January 16	Thursday	Series of images, magnification	HW 2 HW1 Due		
5	January 21	Tuesday	Thin Lenses			
6	January 23	Thursday	Curved mirrors	HW 3 HW 2 Due		
7	January 28	Tuesday	Aberration, prisms, apertures		L1: Thin Converging Lens	
8	January 30	Thursday	Waves	HW 4 HW 3 Due		
9	February 4	Tuesday	Ray tracing with python		L2: Thin Divergent Lens L1 report due	
10	February 6	Thursday	Polarization vector, interference	HW 4 Due		
11	February 11	Tuesday	Practice midterm		L3: Periscope, Telescope and Microscope L2 report due	GW1
12	February 13	Thursday	Midterm 1	HW 5		
13	February 18	Tuesday	Phase Shift		L4: Lens Aberrations L3 report due	GW 2
14	February 20	Thursday	Fringes	HW 6 HW 5 Due		
15	February 25	Tuesday	Michelson Interferometer		L5: Polarization Paper topic discussed w/ TA & L4 report due	GW 3

16	February 27	Thursday	Two narrow slits	HW 7 HW 6 Due		
	March 2 – 6		Spring break			
17	March 10	Tuesday	Interferometry/Michelson		No lab this week	GW 4
18	March 12	Thursday	Michelson/Double slit interference	HW 8 HW 7 Due		
19	March 17	Tuesday	Single slit diffraction		L6: Interference Fringes & Newton's Rings Literature list & L5 report due	GW 5
20	March 19	Thursday	N-slit diffraction	HW 9 HW 8 Due		
21	March 24	Tuesday	Practice midterm		L7: Michelson Interferometer Outline & L6 report due	GW 6
22	March 26	Thursday	Midterm 2			
23	March 31	Tuesday	Diffraction Grating		L8: Diffraction Slits and Gratings L7 report due	GW 7
24	April 2	Thursday	More diffraction, holography	HW 10 HW 9 Due		
25	April 7	Tuesday	Holography, coherence		L9: Holography Draft & L8 report due	GW 8
26	April 9	Thursday	Modern Optics Topics	HW 11 HW 10 Due		
27	April 14	Tuesday	Modern Optics Topics		L10: Laser Tweezers L9 report due	GW 9
28	April 16	Thursday	Intro to Quantum Optics	HW11 Due		
29	April 21	Tuesday	Intro to Quantum Optics		Research Lab Visit & L10: Laser Tweezers Backup Final paper	GW10
30	April 23	Thursday	Review for final (practice)			
	April 28	Tuesday	Final Exam 3:00pm - 5:00 pm Room: BPS 1300		L10 report due	