Schedule of Experiments:

Week	Date	Lab number	Lecture topics	Reading (Fowles)	HW due	Labs due
1	Aug 29– Sept 1	Lab 0	Error analysis			
2	Sept. 6 – 8	Lab 1a: Reflection and Refraction	Snell's Law, total internal reflection	2.6, 2.7	HW 1	Lab 0
3	Sept. 12 - 15	Lab 1b: Reflection and Refraction	Imaging, spherical surfaces		HW 2	
4	Sept. 19 – 22	Lab 2a: Geometric Optics	Thin lenses	10.1, 10.2		Lab 1
5	Sept. 26 – 29	Lab 2b: Geometric Optics	Waves in three dimensions, Polarized light, Malus' Law		HW 3	
6	Oct. 3 – 6	Lab 3a: Polarization of Light	Brewster's angle	2.3, 2.8		Lab 2
7	Oct. 10 - 13	Lab 3b: Polarization of Light	Two-beam interference, Young's double slit exp,		HW 4	
8	Oct. 17 - 20	Lab 4a: Michelson Interferometer	Michelson interferometer, Coherence	3.1, 3.3		Lab 3
9	Oct. 24 - 27	Lab 4b: Michelson Interferometer	Fraunhofer Diffraction		HW 5	
10	Oct. 31 - Nov 3	Lab 5a: Diffraction of Light	Double slit diffraction	5.4		Lab 4
11	Nov. 7 - 10	Lab 5b: Diffraction of Light	N-slit diffraction, diffraction gratings		HW 6	
12	Nov. 14 - 17	Lab 6a : Atomic Spectra	Light quanta, Einstein coefficients	5.4, 8.1, 8.2		Lab 5
13	Nov. 21 - 22	Catch-up (if necessary)	Thanksgiving			
14	Nov 28 - Dec. 1	Lab 6b: Atomic Spectra	Population inversion, Lasers	9.1 – 9.5	HW 7	
15	Dec. 5 - 8 3 - 5:45 PM	Final exam – (in class, written)				Lab 6