Physics 375 - Fall 2007 - Prof. Fuhrer				Section 0101 Monday 2:00 pm - 5:50 pm			
				Section 0201 Wednesday 2:00 pm - 5:50 pm			
Week	Date Sec.101	Date Sec. 201	Lecture Topics	Experiment	Pre-lecture reading (Pedrotti)	Homework Due	Lab Report Due
1	3-Sep*	5-Sep	Syllabus, Schedule, Error analysis, Waves	Experiment # 0 Gaussian Beams	(Chap. 1, 4-1 to 4-5)		
2	10-Sep	12-Sep	Fermat's principle, Snell's Law, total internal reflection	Experiment # 1 Reflection and Refraction	2-0 to 2-5 and 3-3	1	
3	17-Sep	19-Sep	Imaging, spherical surfaces, thin lenses, refractive power	Experiment # 1	2-6 to 2-10	2	
4	24-Sep	26-Sep	Optical instruments, the eye	Experiment # 2 Geometrical Optics	3-5 to 3-7, 19-3 to 19-5		1
5	1-Oct	3-Oct	Polarized light, Malus' Law, Brewster's angle, Fresnel Eq.	Experiment # 2	4-8 to 4-9, 15-1 to 15-3, 23-1	3	
6	8-Oct	10-Oct	Fresnel equations, phase changes, evanescent waves	Experiment # 3 Polarization of Light	23-2 to 23-5		2
7	15-Oct	17-Oct	Two-beam interference, Young's double slit exp,	Experiment # 3	7-0 to 7-2, 7-4	4	
8	22-Oct	24-Oct	Michelson interferometer, Fabry-Perot	Experiment # 4 Michelson Interferometer	8-1 to 8-5		3
9	29-Oct	31-Oct	Fraunhofer Diffraction	Experiment # 4	11-0 to 11-3	5	
10	5-Nov	7-Nov	Double slit diffraction	Experiment # 5 Diffraction of Light	11-4 to 11-5		4
11	12-Nov	14-Nov	Diffraction gratings	Experiment # 5	11-6, 12-0 to 12-4	6	
12	19-Nov	21-Nov	TBD	Experiment # 6 Atomic Spectra	6-0 to 6-1, 6-4 to 6-7		5
13	26-Nov	28-Nov	TBD	Experiment # 6	28-5	7	
14	3-Dec	5-Dec		Catch-up			6
15	10-Dec	12-Dec		Final Exam			
	*Please come to lab either Tuesday 9/4 or Wednesday 9/5 from 2-6 PM						