

Elmhurst College

Physics 414-01 Modern Optics

Fall Term, 2007

Earl C. Swallow

Week	Date	Topic	Chapter
1	Aug. 27 29 31	Welcome, One and All! Propagation of Light	1 4.(1-7), 5.(1,4-6) [1,A1]
2	Sept. 3 5 7	Guess what happened to me on the way to Labor Day!?	
3	10 12 14	Vector Nature of Light	4.(8,9),14,23.(1-5) [2]
4	17 19 21		
5	24 26 28	Quiz #1 Ray Optics	1,4,5,14,23 [1,2,A1] 2,18 [10]
6	Oct. 1 3 5		
7	8 10 12	1492, and all that Coherence and Interference	7.(1-3),9 [3]
8	15 17 19	(Term Paper "Proposal" Due) Multiple-Beam Interference	7.(4-9),22,8 [4]
9	22 24 26	Quiz #2	2,18,7,9 [10,3]
10	29 31	Diffraction	11,12,13 [5]
11	Nov. 2 5 7 9	Quiz #3	7,8,11,12,13,22 [4,5]
12	12 14 16	Optics of Solids	23.(6-7),25 [6]
13	19 21 23	(Term Paper Due) Gobble, Gobble, Gobble!!	
14	26 28 30	Light Amplification and Lasers	6,28 [9]
15	Dec. 3 5 7		

The **Final Examination** is scheduled for Wednesday, December 12 at 8:00 a.m.
(Chapters marked [] are in *Introduction to Modern Optics* by G. R. Fowles.)