

200/09

Physics 464 - Optics

Text: Hecht, Optics, 2nd Edition

J. Abramson - Room 330, SB1

Office Hours: 2-2:50 P.M. Tuesdays

Scope of Class

Chapter 1: Brief History

Chapter 2: Mathematics of Wave Motion

Chapter 3: Electromagnetic Theory

Chapter 4: Propagation of Light

Chapter 5: Geometric Optics

Lenses, Mirrors, Fiberoptics, Optical Systems

Chapter 6: More on Geometrical Optics

Thick Lenses and Lens systems, Ray tracing, Aberrations

Chapter 7: Superposition of Waves

Grade is based on Midterm and Final Exams: 40% and 60% of final grade

Homework will be regularly assigned to help develop problem solving skills