

Schedule for PHYS-365

Waves and Optics Spring 2005

Week 1 (10 Jan-14 Jan): Simple oscillations with one degree of freedom

- Pre-Class Survey: (Due Fri, 14 Jan, 8 AM, online)

Week 2 (18 Jan-21 Jan): Superposition and Modes

- Reading: Chap. 1
- HW 1: (Due Wed, 19 Jan, in class)

Week 3 (24 Jan-28 Jan): Modes of Closed Continuous Systems

- Reading: Chap. 2
- HW 2: (Due Wed, 26 Jan, in class)

Week 4 (31 Jan-04 Feb): Fourier Analysis and a Musical Diversion

- Reading: Chap. 2 and handout
- Project Conference: Schedule for this week
- HW 3: (Due Wed, 02 Feb, in class)

Week 5 (07 Feb-11 Feb): Forced Oscillations

- Reading: Chap. 3
- HW 4: (Due Wed, 09 Feb, in class)

Week 6 (14 Feb-18 Feb): Traveling Waves

- Reading: Chap. 4
- HW 5: (Due Wed, 16 Feb, in class)
- Project Proposal: (Due Wed, 16 Feb, in class)

Week 7 (21 Feb-25 Feb): Reflection

- Reading: Chap. 5
- HW 6: (Due Wed, 23 Feb, in class)
- Take-home Midterm: Handed out

Week 8 (28 Feb-04 Mar): Pulses and Wave Packets

- Reading: Chap. 6
- Take-home Midterm: (Due Wed, 02 Mar, in class)
- Mid-semester Survey: (Due Fri, 04 Mar, online)

Week 9 (14 Mar-18 Mar): Waves in Two and Three Dimensions

- Reading: Chap. 7
- HW 7: (Due Wed, 16 Mar, in class)

Week 10 (21 Mar-25 Mar): Polarization

- Reading: Chap. 8

- HW 8: (Due Wed, 23 Mar, in class)

Week 11 (28 Mar-01 Apr): Interference

- Reading: Chap. 9.1-9.3
- HW 9: (Due Wed, 30 Mar, in class)
- Project: First draft (Due Wed, 30 Mar, in class)

Week 12 (04 Apr-08 Apr): Diffraction

- Reading: Chap. 9.4-9.6
- HW 10: (Due Wed, 06 Apr, in class)

Week 13 (11 Apr-15 Apr): Geometrical Optics

- Reading: Chap. 9.7 and handout
- HW 11: (Due Wed, 13 Apr, in class)

Week 14 (18 Apr-22 Apr): Review and Wrap-Up

- HW 12: (Due Wed, 20 Apr, in class)
- Some Project Talks: (Due Wed, 20 Apr, in class)
- Project: Final written report due.
- Take-home Final: Handed out

Final: **Most likely, Wed, 03 May**

- **The precise time will not be announced until March**
- Take-home Final: (Due Wed, 03 May, in class)
- Rest of Project Talks: (Due Wed, 03 May, in class)