

[Collapse All](#)**▼ Office hours****Class photo 1.jpg****Class photo 2.jpg****Prof. McIver: Thursday 4-5pm, Pupin 814****TA office hours:****Xiaozhou Xu (xx2381): Tues/Thurs 9-10am | Pupin theory center****Cooper Xie (qx2247): Monday 12-1pm | Pupin 814****Erin Suh: (ecs2247) Wednesday 7-9pm | Pupin theory center (snack & solve)****Ali Abroumand Azar (aa5065): on request (grader)****▼ Welcome to Classical and Quantum Waves!****Syllabus PHYS 2601 Fall 2025.pdf (will update)**

▼ Week 1 | Unit 1: Simple Harmonic Motion**Tuesday, September 2 (King Ch. 1)****PHYS 2601 Intro lecture (Fall 25).pdf****2601_Lecture 1.pdf****Thursday, September 4 (King Ch. 1)****2601_Lecture 2.pdf****Problem Set 1**

Sep 14, 2025 25 pts

▼ Week 2 | Unit 1: Simple + Damped Harmonic Motion**Tuesday, September 9 (King Ch. 1): NO CLASS (video lecture)****Lecture 3 video****2601_Lecture 3.pdf****LC oscillator video****Thursday, September 11 (King Ch. 2): NO CLASS (video lecture)****Lecture 4 video**

**2601_Lecture 4.pdf****Problem Set 2**

Sep 21, 2025 40 pts

▼ Week 3 | Unit 1: Damped + Forced Harmonic Motion**Tuesday, September 16 (King Ch. 2)****2601_Lecture 5.pdf****Thursday, September 18 (King Ch. 3)****2601_Lecture 6.pdf****2601_Lecture 7.pdf****Lecture 7 video****Problem Set 3**

Sep 28, 2025 30 pts

▼ Week 4 | Unit 1: Coupled Harmonic Motion**Tuesday, September 23 (King Ch. 3-4)**

**2601_Lecture 8.pdf****Thursday, September 25 (King Ch. 4)****2601_Lecture 9.pdf****Problem Set 4**

Oct 5, 2025 30 pts

▼ Week 5 | Unit 1: Forced Coupled Harmonic Motion**Tuesday, September 30 (King Ch. 4)****2601_Lecture 10.pdf****Thursday, October 2 (Midterm review class)****Sample_Midterm.pdf****Sample_Midterm_Solutions.pdf****2601_Midterm 1 (2024).pdf****Problem Set 5**

Oct 12, 2025 25 pts

▼ Week 6 | Unit 2: Waves**Tuesday, October 7 (King Ch. 5)****2601_Lecture 11.pdf****Thursday, October 9 (King Ch. 5)****2601_Lecture 12.pdf****▼ Week 7 | Unit 2: MIDTERM!****Tuesday, October 14 MIDTERM!!****Thursday, October 16 (King Ch. 5)****2601_Lecture 13.pdf****Problem Set 6**

Oct 28, 2025 35 pts

▼ Week 8 | Unit 2: Traveling Waves**Tuesday, October 21 (King Ch. 6)****2601_Lecture 14.pdf**

Thursday, October 23 (King Ch. 6)



2601_Lecture 15.pdf



Problem Set 7

Nov 2, 2025 45 pts

▼ Week 9 | Unit 2: Interference and Diffraction

Tuesday, October 28 (King Ch. 7)



2601_Lecture 16.pdf



Lecture 16 video

Thursday, October 30 (King Ch. 8)



2601_Lecture 17.pdf



Fourier Transform Video



2D standing waves



Problem Set 8

Nov 9, 2025 30 pts

▼ Week 10 | Unit 2: Dispersion of waves**Tuesday, November 4 HOLIDAY NO CLASS****Thursday, November 6 (King Ch. 8)****2601_Lecture 18.pdf****Problem Set 9**

Nov 16, 2025 45 pts

▼ Week 11 | MIDTERM WEEK**Tuesday, November 11 Midterm Review Class****2601_Practice_Midterm_2.pdf****Practice_Midterm_2_Solutions.pdf****Thursday, November 13 MIDTERM 2 (Unit 2 content only)****▼ Week 12 | Unit 3: Quantum waves****Tuesday, November 18****Thursday, November 20**

**2601_Lecture 19.pdf****▼ Week 13 | Thanksgiving week (NO CLASS)****Tuesday, November 25 (NO CLASS; YouTube lectures)****Thursday, November 27 (NO CLASS; Thanksgiving holiday)****A brief history of quantum mechanics****What is the Schrödinger equation?****Parallel worlds****Problem Set 10**

Dec 7, 2025 30 pts

▼ Week 14 | Unit 3: Quantum waves & final review**Tuesday, December 2****2601_Lecture 20.pdf****Thursday, December 4 (Last class; Final exam review session)****2601_Final.pdf**

