

Schedule for PHYS-110/110G

University Physics I Fall 2004

Week 1 (30 Aug-3 Sep): Introduction and Concepts of Motion

- Reading: Chap. 1
- Lab 1: Measurement
- Warm-Up 1: Chap 1, (Due Fri, 3 Sep, 8 AM, online)
- Pre-Class Survey: (Due Fri, 3 Sep, 8 AM, online)

Week 2 (6 Sep-10 Sep): Kinematics

- Reading: Chap. 2
- Warm-Up 2: (Due Tues, 7 Sep, 8 AM, online)
- Newtonian Survey: (Due Tues, 7 Sep, 11 AM, online)
- HW 1: (Due Tues, 7 Sep, 4 PM, CAP department office)
- Lab 2: Kinematics of Freefall (handout)
- Warm-Up 3: (Due Fri, 10 Sep, 8 AM, online)

Week 3 (13 Sep-17 Sep): Vectors and Beginning Newton's Laws

- Reading: Chap. 3, 4.1-4.3
- HW 2: (Due Mon, 13 Sep, CAP department office)
- Warm-Up 4: (Due Tues, 14 Sep, 8 AM, online)
- Lab 3: Projectile Motion (handout)
- Warm-Up 5: (Due Fri, 17 Sep, 8 AM, online)

Week 4 (20 Sep-24 Sep): Dynamics along a Line

- Reading: Chap. 4.4-4.7, 5
- HW 3: (Due Mon, 20 Sep, CAP department office)
- Warm-Up 6: (Due Tues, 21 Sep, 8 AM, online)
- Lab 4: ActivPhysics Lab 1
- Warm-Up 7: (Due Fri, 24 Sep, 8 AM, online)

Week 5 (27 Sep-1 Oct): Dynamics in a Plane and Uniform Circular Motion

- Reading: Chap. 6, 7.1-7.2
- HW 4: (Due Mon, 27 Sep, CAP department office)
- Warm-Up 8: (Due Tues, 29 Sep, 8 AM, online)
- Lab 5: Vectors
- Warm-Up 9: (Due Fri, 1 Oct, 8 AM, online)

Week 6 (4 Oct-8 Oct): Circular Dynamics and Newton's 3rd Law

- Reading: Chap. 7, 8.1-8.3
- HW 5: (Due Mon, 4 Oct, CAP department office)
- Warm-Up 10: (Due Tues, 5 Oct, 8 AM, online)
- Lab 6: Friction

- Warm-Up 11: (Due Fri, 8 Oct, 8 AM, online)

Week 7 (13 Oct-15 Oct): Interacting Systems and Review

- Reading: Chap. 8.4-8.5
- Lab 6: Uniform Circular Motion
- Warm-Up 12: (Due Fri, 15 Oct, 8 AM, online)

Week 8 (18 Oct-22 Oct): Impulse and Momentum and Mid-Term

- Reading: Chap. 9.1-9.3
- HW 6: (Due Mon, 18 Oct, 4 PM, CAP department office)
- Warm-Up 13: (Due Tues, 19 Oct, 8 AM, online)
- Test 2: Fri, 22 Oct, in class, covers Chaps. 1-8

Week 9 (25 Oct-29 Oct): Collisions and Energy

- Reading: Chap. 9.4-9.7, 10
- Warm-Up 14: (Due Tues, 27 Sep, 8 AM, online)
- Lab 7: Conservation of Momentum (handout)
- Warm-Up 15: (Due Fri, 29 Oct, 8 AM, online)

Week 10 (1 Nov-5 Nov): Energy and Work and a Little Gravity

- Reading: Chap. 11, 12
- HW 7: (Due Mon, 1 Nov, 4 PM, CAP department office)
- Mid-Term Rework: (Due Mon, 1 Nov, 4 PM, CAP department office)
- Warm-Up 16: (Due Tues, 2 Nov, 8 AM, online)
- Lab 8: Conservation of Energy (handout)
- Warm-Up 17: (Due Fri, 5 Nov, 8 AM, online)

Week 11 (8 Nov-12 Nov): Oscillations and a Little Rotation

- Reading: Chap. 14, 13
- HW 8: (Due Mon, 8 Nov, 4 PM, CAP department office)
- Warm-Up 18: (Due Tues, 9 Nov, 8 AM, online)
- Lab 9: Simple Harmonic Motion
- Warm-Up 19: (Due Fri, 12 Nov, 8 AM, online)

Week 12 (15 Nov-19 Nov): Fluids

- Reading: Chap. 15
- HW 9: (Due Mon, 15 Nov, 4 PM, CAP department office)
- Warm-Up 20: (Due Tues, 16 Nov, 8 AM, online)
- Lab 10: Equilibrium of a Rigid Body
- Warm-Up 21: (Due Tues, 19 Nov, 8 AM, online)

Week 13 (22 Nov-23 Nov): Phases of Matter and Ideal Gases

- Reading: Chap. 16
- HW 10: (Due Mon, 22 Nov, 4 PM, CAP department office)
- Warm-Up 22: (Due Tues, 23 Nov, 8 AM, online)

Week 14 (29 Nov-3 Dec): Thermodynamics and Entropy

- Reading: Chap. 17, 18
- Warm-Up 23: (Due Tues, 30 Nov, 8 AM, online)
- Lab 10: Archimedes' Principle (handout)
- Warm-Up 24: (Due Fri, 3 Dec, 8 AM, online)

Week 15 (6 Dec-10 Dec): Heat Engines, the Universe, and the Conclusion

- Reading: Chap. 19
- HW 11: (Due Mon, 6 Dec, 4 PM, CAP department office)
- Warm-Up 25: (Due Tues, 7 Dec, 11 AM, online)

Final: **17 Dec, 8:30 – 11:00 AM**

- **This cannot be changed!**