

## Schedule for PHYS-105/105G

### College Physics I Fall 2004

Week 1 (30 Aug-3 Sep): Introduction and Vectors

- Reading: Chap. 1, 3.1-3.4
- Lab 1: Introducing “Physlets” and “Mastering Physics” (handout)
- Pre-Class Survey: (Due Fri, 3 Sep, 8 AM, online)
- Physlets 1: (Due Fri, 3 Sep, in class)

Week 2 (6 Sep-10 Sep): One-Dimension Kinematics

- Reading: Chap. 2
- Reading Quiz 1: (Due Tues, 7 Sep, 11 AM, online)
- Newtonian Survey: (Due Tues, 7 Sep, 11 AM, online)
- Mastering Physics 1: (Due Tues, 7 Sep, 4 PM online)
- Lab 2: Kinematics of Freefall (handout)
- Physlets 2: (Due Fri, 10 Sep, in class)

Week 3 (13 Sep-17 Sep): Two-Dimensional Kinematics

- Reading: Chap. 3.5, 4
- Mastering Physics 2: (Due Mon, 13 Sep, 4 PM, online)
- Reading Quiz 2: (Due Tues, 14 Sep, 11 AM, online)
- Lab 3: Projectile Motion (handout)
- Physlets 3: (Due Fri, 17 Sep, in class)

Week 4 (20 Sep-24 Sep): Beginning Newton’s Laws and Test

- Reading: Chap. 5.1-5.3
- Mastering Physics 3: (Due Mon, 20 Sep, 4 PM, online)
- Essay Questions 1: (Due Mon, 20 Sep, 4 PM, CAP department office)
- Test 1: Fri, 24 Sep, in class, covers Chaps. 1-3.5, 4

Week 5 (27 Sep-1 Oct): Newton’s Laws and Friction

- Reading: Chap. 5, 6.1
- Reading Quiz 3: (Due Tues, 28 Sep, 11 AM, online)
- Lab 4: Vectors
- Physlets 4: (Due Fri, 1 Oct, in class)

Week 6 (4 Oct-8 Oct): Applying Newton’s Laws

- Reading: Chap. 6
- Test 1 Rework: (Due Mon, 4 Oct, 4 PM, CAP department office)
- Mastering Physics 4: (Due Mon, 4 Oct, 4 PM, online)
- Reading Quiz 4: (Due Tues, 5 Oct, 11 AM, online)
- Lab 5: Friction
- Physlets 5: (Due Fri, 8 Oct, in class)

## Week 7 (13 Oct-15 Oct): Impulse and Momentum

- Reading: Chap. 9.1-9.4
- Reading Quiz 5: (Due Fri, 15 Oct, 11 AM, online)
- Lab 6: Uniform Circular Motion
- Physlets 6: (Due Fri, 15 Oct, in class)

## Week 8 (18 Oct-22 Oct): Work and Kinetic Energy and Test 2

- Reading: Chap. 7
- Mastering Physics 5: (Due Mon, 18 Oct, 4 PM, online)
- Essay Questions 2: (Due Mon, 18 Oct, 4 PM, CAP department office)
- Test 2: Fri, 22 Oct, in class, covers Chaps. 1-3.5, 4-6, 9.1-9.4

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

- Reading: Chap. 8, 9.5, 9.6
- Reading Quiz 6: (Due Tues, 26 Oct, 11 AM, online)
- Lab 7: Conservation of Momentum (handout)
- Physlets 7: (Due Fri, 29 Oct, in class)

## Week 10 (1 Nov-5 Nov): More Energy and Highlights of Rotational Motion

- Reading: Chap. 8, 10-11 (skim)
- Mastering Physics 6: (Due Mon, 1 Nov, 4 PM, online)
- Test 2 Rework: (Due Mon, 1 Nov, 4 PM, CAP department office)
- Reading Quiz 7: (Due Tues, 2 Nov, 11 AM, online)
- Lab 8: Conservation of Energy (handout)
- Physlets 8: (Due Fri, 5 Nov, in class)

## Week 11 (8 Nov-12 Nov): Oscillations and Gravity

- Reading: Chap. 13, 12.1-12.3
- Mastering Physics 7: (Due Mon, 8 Nov, 4 PM, online)
- Reading Quiz 8: (Due Tues, 9 Nov, 11 AM, online)
- Lab 9: Simple Harmonic Motion
- Physlets 9: (Due Fri, 12 Nov, in class)

## Week 12 (15 Nov-19 Nov): Fluids and Test 3

- Reading: Chap. 15
- Mastering Physics 8: (Due Mon, 15 Nov, 4 PM, online)
- Essay Questions 3: (Due Mon, 8 Nov, 4 PM, CAP department office)
- Test 3: Fri, 24 Sep, in class, covers Chaps. 1-3.5, 4-8-9.6, 12.1-12.3, 13

## Week 13 (22 Nov-23 Nov): Temperature and Heat

- Reading: Chap. 16
- Reading Quiz 9: (Due Tues, 23 Nov, 11 AM, online)

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

- Reading: Chap. 17, 18.1-18.5
- Test 3 Rework: (Due Mon, 29 Nov, 4 PM, CAP department office)
- Reading Quiz 10: (Due Tues, 30 Nov, 11 AM, online)
- Lab 10: Archimedes' Principle (handout)
- Physlets 10: (Due Tues, 3 Dec, in class)

Week 15 (6 Dec-10 Dec): Entropy, Chaos, the Universe, and the Conclusion

- Reading: Chap. 18.6-18.10
- Mastering Physics 9: (Due Mon, 6 Dec, 4 PM, online)
- Essay Questions 4: (Due Mon, 6 Dec, 4 PM, CAP department office)
- Reading Quiz 11: (Due Tues, 7 Dec, 11 AM, online)

Final: **21 Dec, 11:20 AM – 1:50 PM**

- **This cannot be changed!**