

Physics for Scientists and Engineers 1

Fall Semester 2004

Prof. W. Bauer, Prof. G.D. Westfall

Week	Day	Topic	Reading
1	Mon, Aug. 30: Lecture 1 Tue, Sep. 01: Lecture 2 Wed, Sep. 02: Lecture 3 Thu, Sep. 03: Lecture 4	Math primer, estimates, units	Chapter 1 Math Primer
2	Mon, Sep. 06: - H1 Tue, Sep. 07: Lecture 5 Wed, Sep. 08: Lecture 6 Thu, Sep. 09: Lecture 7	Forces, vectors, static equilibrium	Chapter 2
3	Mon, Sep. 13: Lecture 8 H2 Tue, Sep. 14: Lecture 9 Wed, Sep. 15: Lecture 10 Thu, Sep. 16: Lecture 11	Newton's Laws	Chapter 3
4	Mon, Sep. 20: Lecture 12 H3 Tue, Sep. 21: Lecture 13 Wed, Sep. 22: Lecture 14 Thu, Sep. 23: Lecture 15	Motion along a straight line	Chapter 4
5	Mon, Sep. 27: Lecture 16 H4 Tue, Sep. 28: Lecture 17 Wed, Sep. 29: Lecture 18 Thu, Sep. 30: MIDTERM 1	Motion along the perimeter of circles	Chapter 5
6	Mon, Oct. 04: Lecture 19 C1 Tue, Oct. 05: Lecture 20 Wed, Oct. 06: Lecture 21 Thu, Oct. 07: Lecture 22	Oscillations, harmonic, damped	Chapter 6
7	Mon, Oct. 11: Lecture 23 H5 Tue, Oct. 12: Lecture 24 Wed, Oct. 13: Lecture 25 Thu, Oct. 14: Lecture 26	Motion in 2d and 3d, relative motion	Chapter 7
8	Mon, Oct. 18: Lecture 27 H6 Tue, Oct. 19: Lecture 28 Wed, Oct. 20: Lecture 29 Thu, Oct. 21: Lecture 30	Kinetic energy, work, power	Chapter 8
9	Mon, Oct. 25: Lecture 31 H7 Tue, Oct. 26: Lecture 32 Wed, Oct. 27: Lecture 33 Thu, Oct. 28: Lecture 34	Potential energy, energy conservation	Chapter 9
10	Mon, Nov. 01: Lecture 35 H8 Tue, Nov. 02: Lecture 36 Wed, Nov. 03: Lecture 37 Thu, Nov. 04: MIDTERM 2	Momentum and collisions	Chapter 10
11	Mon, Nov. 08: Lecture 38 C2 Tue, Nov. 09: Lecture 39 Wed, Nov. 10: Lecture 40 Thu, Nov. 11: Lecture 41	Systems of particles, center of mass	Chapter 11
12	Mon, Nov. 15: Lecture 42 H9 Tue, Nov. 16: Lecture 43 Wed, Nov. 17: Lecture 44 Thu, Nov. 18: Lecture 45	Rotation, moment of inertia, angular momentum	Chapter 12
13	Mon, Nov. 22: Lecture 46 H10 Tue, Nov. 23: Lecture 47 Wed, Nov. 24: Lecture 48 Thu, Nov. 25: -	Gravitation, Kepler's Laws	Chapter 13
14	Mon, Nov. 29: Lecture 49 H11 Tue, Nov. 30: Lecture 50 Wed, Dec. 01: Lecture 51 Thu, Dec. 02: Lecture 52	Solids and fluids	Chapter 14
15	Mon, Dec. 06: Lecture 53 H12 Tue, Dec. 07: Lecture 54 Wed, Dec. 08: Review 1 Thu, Dec. 09: Review 2	Review	-