

AP PHYSICS B
COURSE OUTLINE

Mr. Hardy

Periods 1 & 9

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Text: Cutnell & Johnson – *Physics*, 4th edition

Extra Help: By appointment

Grades: Determined as a strict percentage of exams, quizzes, assignments, and class participation.

Week C&J Topic

Mechanics - 9 Weeks

- 1 2 Kinematics in One Dimension
- 2 3 Kinematics in Two Dimensions
- 3 4 Forces; Newton's Laws
- 4 5 Uniform Circular Motion
- 5 6 Work & Energy
- 6 7 Impulse - Momentum
- 7 9.1 – 9.3 Torque & Rotational Statics
- 8 10 Simple Harmonic Motion

Heat - 4 Weeks

- 9 11 Fluid Mechanics
- 10 12 Temperature and Heat
- 11 14 Ideal Gas/Kinetic Theory
- 12 15 Thermodynamics

Electricity & Magnetism - 6 Weeks

- 13 18 Electric Forces & Fields
- 14 19 Electric Potential
- 15 20 Circuits
- 16 21 Magnetic Forces & Fields
- 17 22 Electromagnetic Induction
- 18 Semester Final

Waves - 5 Weeks

- 19 16,17 Waves & Sound
- 20 24 Electromagnetic Waves
- 21 25 Mirrors
- 22 26 Lenses
- 23 27 Interference

Modern Physics - 4 Weeks

- 24 29 Particles & Waves

- 25 30 Atomic Physics
- 26 31,32 Nuclear Physics
- 27-29 Review
- 30 *AP-B PhysicsExam* – Monday, May 11, 2009
- 31-34 Final Projects

AP-B Course Outline