

AP PHYSICS B COURSE OUTLINE

Mr. Hardy

Periods 1 & 9

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x6865

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

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|---|---------------------------------------|
| 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

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

Electricity & Magnetism - 6 Weeks

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| 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

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

Modern Physics - 4 Weeks

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| 24 | 29 Particles & Waves |
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25 30 Atomic Physics
26 31,32 Nuclear Physics
27-29 Review
30 *AP-B Physics Exam* – Monday, May 11, 2009
31-34 Final Projects

AP-B Course Outline