

Roslyn High School  
Department: Science  
Name of Course: PHYSICS AP 2

AP Physics 2 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics.

Emphasis is placed upon developing problem-solving skills. Facility in algebra and geometry is necessary. The curriculum is designed to prepare students for the nationwide AP Physics 2 exam given in May. Classes meet in double and single periods on alternate days.

TEXTBOOK: College Physics Etkina, 1st Edition Prentice Hall

#### REQUIREMENTS

To be successful in this college-level course, students must be responsible, dedicated, and self-motivated. Study skills are emphasized early in the course and are reinforced throughout the year. Regularly assigned homework will be challenging and time consuming. The course culminates with both the AP examination and a course final examination.

#### GRADING PROCEDURES

Grades are determined predominantly by unit tests. Laboratory reports, participation, and written assignment contribute to the overall grade. The final grade is computed as the average of the four quarters' grades. College credit may be available through Adelphi University. (Fees apply)