



BOSTON LATIN SCHOOL

Department of Science

Course	Advanced Placement Physics C: Electricity & Magnetism	
Course Description	<p>The AP Physics C: Electricity & Magnetism course follows a syllabus established by the College Board, based on a college introductory second-semester course in Calculus-based Electricity & Magnetism. Topics include electrostatics, capacitance, circuits, magnetism, induction and Maxwell's equations. The course includes a laboratory component, although much is simulated. The course involves instruction and use of calculus, and thus strong mathematics preparation is important. The course is available as an elective to students in the junior or senior years who have successfully completed Physics I. The course includes a laboratory component.</p>	
Reading Syllabus	<p>Halliday, Resnick & Walker's <i>Fundamentals of Physics</i>, Volume 2, 9th Edition; supplemental material and problems will be provided by instructor and available at the websites (see above).</p>	
Grading	<ul style="list-style-type: none"> • 4-3-2-1 System: Assessment in AP physics will be similar to the introductory physics course at BLS. However, the overall categories have been adjusted to Understanding, Homework, Lab Performance, Effort and Participation. All assessed assignments will be scored on a 4 (Excellent), 3 (Good), 2 (Progressing), and 1 (Poor) scale. The grading form will clarify this more. • No Averages: The categories are not averaged to determine a grade, but test scores are more heavily weighted than the introductory course since we are preparing for a strong test performance. • Students Propose Grades: Students propose grades using assessment data to support their proposal. Instructor will review the proposal and record, and assign an appropriate grade. 	
Homework	<p>Homework is a critical and required component of success in AP Physics. There will be nightly assignments which will require 40 minutes to an hour of focussed concentration, rereading of the book and notes, and persistence to figure out tough problems. A serious and documented attempt of every problem is expected, and followup later will often be required. Late unexcused homework may or may not be accepted, depending on the assignment. If accepted it can receive no more than half credit. Larger assignments (labs, vacation practice assignments) may be accepted at the discretion of the instructor, for reduced credit. If a student wants to make up work, they should discuss a plan with the instructor.</p>	
Roles	<p>Of Students:</p> <ul style="list-style-type: none"> • Arrive to class on-time with all required materials (see below) every day. • Active involvement, sharing your ideas • Be respectful but critical of others' ideas • Follow BLS rules and regs • Keep room clean • Abide by the student safety contract 	<p>Of the Teacher:</p> <ul style="list-style-type: none"> • Coordinate investigations and the development of ideas. • Will work to organize the valuable class time, responding to questions at the appropriate times. • Provide timely feedback • Maintain safe, quality learning environment • Enforce BLS rules and regs
Materials	<ul style="list-style-type: none"> • Binder (see box to the right) • pencil and pen • ruler • dry erase marker and eraser (old sock is OK) • calculator (graphing is useful) 	<p><u>Binder (1" to 1 1/2" 3 ring binder) Sections</u> I: Class Notes and Handouts, II: Homework Assignments, III: Tests and Quizzes, IV: AP Practice tests. All work should be dated and filed in chronological order. Binder can be checked at any time.</p>
Office Hours	<p>Available by email and after school by appointment and walk in most days. Wednesday will be AP help day.</p>	