

AP Physics C: Electricity & Magnetism Syllabus

Course Description/Goals:

AP Physics C: Electricity and Magnetism is a calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Introductory differential and integral calculus is used throughout the course.

Course TEKS/Objectives:

The big ideas serve as the foundation of the course and develop understanding as they spiral throughout the course. The big ideas enable students to create meaningful connections among course concepts. Often, these big ideas are abstract concepts or themes that become threads that run throughout the course. Revisiting the big ideas and applying them in a variety of contexts allows students to develop deeper conceptual understanding. Following are the big ideas of the course: Change, Force Interactions, Fields, and Conservation.

Course Outline:

[AP Physics C: Electricity & Magnetism Course & Exam Description](#)