

# AP Physics C: Electricity & Magnetism Syllabus

## **Course Description/Goals:**

AP Physics C: Mechanics is a calculus-based, college-level physics course. It covers kinematics; Newton's laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; oscillations; and gravitation.

## **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 allow 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: Mechanics Course & Exam Description](#)