

Course Title: Advanced Placement Physics II* 2003422(Y)

Prerequisite: B or higher in Algebra II or taking concurrently and previously taken Honors Physics or AP Physics I, or taking concurrently.

This algebra-based, college level physics course will 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. The principles in this course cut across traditional boundaries and provide a broad way of thinking about the physical world. Twenty-five percent of instructional time is devoted to hands-on laboratory work with an emphasis on inquiry-based investigations that requires students to ask questions, make observations and predictions, design experiments, analyze data, and construct arguments in a collaborative setting, where they direct and monitor their progress.