

Honors Physics Form IV

Course Description

This course is designed to introduce the student to the major ideas in the science of physics from its beginning in seventh century B.C. Greece to the present. In the course, students will read classics in physics, study Newtonian mechanics, problem-solve and complete the basic bench labs in physics.

Course Goals

- Students will become familiar with the ideas of Thomas S. Kuhn regarding science
- Students will read and analyze writings of the physicists Aristotle to Einstein
- Students will understand basic Newtonian Mechanics

Course Objectives

- Students will understand physics as a process designed to understand the world
- Students will be able to solve problems in Newtonian Mechanics using algebra
- Students will have a basic understanding of special and general relativity
- Students will have a basic knowledge of Quantum Mechanics