



Physics 111 General Physics I

Have you ever seen something and wondered why it happened the way that it did? Likely, the answer has something to do with Physics. Physics is the physical science that is concerned with understanding how the universe works. It is concerned with understanding nature at all scales, from cosmology to the subatomic realm. The ultimate goal of physics is to explain the vast and diverse range of phenomena in nature through the formulation of a small number of comprehensive principles.

In Physics 111, you will study force, motion, energy and momentum. You will employ a variety of different tools to facilitate your study, including pictures, graphs, diagrams and mathematics including algebra and trigonometry.

Course Description: Includes motion, energy, and properties of matter.

Prerequisite: Trigonometry

Course Objectives

- Effectively communicate qualitative and quantitative information orally and in writing.
- Explain the application of fundamental physical principles to various physical phenomena.
- Apply appropriate problem-solving techniques to practical and meaningful problems using graphical, mathematical, and written modeling tools.
- Work effectively in collaborative groups.

Course Format

Class sessions will include

- short mini-lectures
- class activities
 - solution of problems individually
 - white-boarding problems in small groups