



PHY 102 General Physics II (PHYS 1307)

Course Description

This course presents with a minimum of mathematics the basic concepts of heat, electricity, magnetism and certain aspects of modern physics.

Course Corequisite

General Physics II Laboratory (PHY 102L)

[Specific Course Requirements](#)

Textbook Requirements

See current semester textbook list at <http://www.physics.sfasu.edu/docs/books.pdf>

Course Objectives

The course objectives are to become familiar with and have an appreciation for the properties of solids, liquids, and gases, the laws of heat and thermodynamics, and an understanding of electricity and magnetism. A conceptual rather than a mathematical approach is taken.

Student Learning Outcomes

- To understand and apply method and appropriate technology to the study of physical science
- To identify and recognize the differences among competing scientific theories
- To demonstrate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, and public policies
- To demonstrate knowledge of the interdependence of science and technology and their influence on, and contribution to, modern culture

Course Content

- The States of Matter
- Heat
- Laws of Thermodynamics
- Electricity
- Magnetism
- Modern Physics

Course Assessment

Assessment is typically based on laboratory exercises and multiple choice lecture and laboratory exams. Supplementary work that can improve a student's grade may be available. The lecture and laboratory grades are computed into one grade, and the same grade is recorded for both lecture and laboratory.