PHY 125
Introductory Physical Science

Course Description

This is an introduction to properties of matter, kinematics, dynamics and chemical bonding. The course topics are presented in a manner which integrates principles of physics and chemistry. Class is four semester hours that meets for three hours of lecture and two hours of lab per week.

Course Corequisite

Introductory Physics Science laboratory (PHY 125L)

Specific Course Requirements

Textbook Requirements

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

Course Objectives

- Learn the methods used to observe and measure the physical parameters associated with matter and mechanics
- Become familiar with the atomic structure of matter
- Become familiar with chemical reactions and bonding
- Learn how chemistry and physics relate to the everyday world
- Develop measurement skills using metric units

Student Learning Outcomes

- Learn the methods used to observe and measure the physical parameters associated with matter and mechanics
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Course Content

- Science Process – Metric Measurement, Graphing, Observing, Experimenting
- Chemistry – Properties of Materials, Microscopic and Macroscopic Description of Matter
- Mechanics - Newton's Laws of Motion, Linear Motion, Work, Power, Energy

Course Assessment

The course assessment will use in-class exams that have questions and manipulative activities and a notebook of in-class activities.