

### **PHSC 2004 Introduction to Physical Science**

**Catalogue Description:** A laboratory course designed for non-science majors. Includes study of the scientific method and its application to our understanding of the world around us and the universe in which we live. Three hours lecture and three hours laboratory weekly.

**Prerequisite:** Beginning Algebra (MATH 0053), or higher math, or minimum placement score for Intermediate Algebra

**Credit hours/Contact hours/Load hours:** 4/6/5

**Target Audience/Transferability:** This course is designed for non-science majors who need to satisfy a 4-hour physical science requirement. This course will transfer to most 4-year colleges, but check with the transfer institution to verify how it will be accepted.

**Student Learning Outcomes:** Students completing this course will:

- Demonstrate the scientific method and principles by conducting an experiment, collecting and analyzing data, and interpreting results.
- Recognize the implications of science in making choices on personal, community and global issues.
- Utilize mathematics as a language for analyzing physical-science phenomena and as a tool for solving problems in physical science.
- Identify unifying principles and repeatable patterns in the physical world and apply them to problems or issues of a scientific nature.
- Explain the relevance of understanding the natural laws and processes of the world and cosmos around us.

**Topics:**

- Measurement and the Scientific Method of Investigation
- Basic Concepts of Physics
- Basic Concepts of Chemistry
- Basic Concepts in Astronomy
- Basic Concepts in Earth Science

Basic concepts in physical science include Force and Motion, Work and Energy, Temperature and Heat, Electricity and Magnetism, Earth and Climate systems, among others.

**Forms of Assessment:** None