

**Northwest Arkansas Community College**  
(Science and Mathematics Division)

**Discipline Code**

PHSC

**Course Number**

2004

**Course Title**

Introduction to Physical Science

**Catalog 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.

**Prerequisites**

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

**Credit Hours**

4 credit hours

**Contact hours**

45 lecture contact hours; 45 lab contact hours

**Load hours**

5 load hours

**Semesters Offered**

Fall, Spring

**ACTS Equivalent**

None

**Grade Mode**

A-F

**Learning Outcomes**

Students completing this course will be able to

- Organize and synthesize information to answer a scientific question.
- Gather relevant information involving scientific literature research.
- Document scientific procedures to ensure repeatability.

- Demonstrate practical lab skills.
- Analyze data collected.
- Interpret the impacts of the research on the scientific knowledge base.
- Disseminate scientific results.

## **General Education Outcomes Supported**

- Students develop higher order thinking skills
- Student achieve mathematical literacy
- Students demonstrate information literacy.

## **Standard Practices**

### **Topics list**

- Scientific methodology
- Scientific reasoning
- Safety protocols
- Basic and advanced scientific protocols
- Data collection and interpretation

### **Learning activities**

- Courses must, at a minimum, cover the core learning outcomes for each topic.

### **Assessments**

- Research findings will be presented in a written or oral manner.

### **Grading guidelines**

- A minimum of 70% of the grade must be proctored, supervised, or otherwise verified.

## **Revision Date**

April 6, 2022