

# PHYSICAL SCIENCE (PHSC)

## PHSC 101 Elements of Physics 3 Credit Hour(s)

### PHSC 102 Elements of Physical Science 3 Credit Hour(s)

A study of the basic concepts of chemistry and physics for non-science majors. Topics covered include structure and properties of matter; physical and chemical changes; motions and forces; sources, transfer, and conservation of energy; electricity and magnetism; sound and light.

**Offered:** Resident

### PHSC 103 Elements of Physics Lab 1 Credit Hour(s)

### PHSC 104 Elements of Physical Science Lab 1 Credit Hour(s)

An optional 2-hour weekly laboratory experience to accompany PHSC 102. Attention will be given to laboratory procedures in chemistry and physics, safety, mathematics, measurement, data manipulation, and everyday uses of chemistry and physics.

**Offered:** Resident

### PHSC 121 Introduction to Astronomy 3 Credit Hour(s)

An overview of the principles of astronomy as related to the Solar System for non-science majors. An optional weekly lab will be offered coincident with this course.

**Offered:** Resident and Online

### PHSC 122 Elements of Astronomy Lab 1 Credit Hour(s)

An optional lab to accompany PHSC 121. Attention will be given to laboratory procedures of astronomy, safety, observation skills and method, astronomical science and reasoning, conclusions/learning and practical astronomy.

**Offered:** Resident and Online

### PHSC 210 Elements of Earth Science 3 Credit Hour(s)

A study of the principles of physical and historical geology, oceanography, and meteorology for non-science majors.

**Offered:** Resident and Online

### PHSC 211 Elements of Earth Science Lab 1 Credit Hour(s)

An optional lab experience to accompany PHSC 210.

**Offered:** Resident and Online

### PHSC 310 Astronomy: An Integrated Approach 4 Credit Hour(s)

**Prerequisite:** PHSC 101 or PHSC 102 or PHYS 101

An integrative studies course using principles of astronomy as a framework for integrating disciplines such as mathematics, physical sciences, history, and literature from the general education curriculum. Includes a three-hour weekly laboratory.

**Offered:** Resident

### PHSC 311 Oceanography 3 Credit Hour(s)

**Online Prerequisite:** PHSC 210

Covers the four main disciplines of oceanography: marine geology, marine chemistry, physical oceanography (i.e., circulation), and marine biology.

**Offered:** Online

### PHSC 312 Meteorology 3 Credit Hour(s)

**Online Prerequisite:** CHEM 105 or CHEM 107 or CHEM 108 or CHEM 115 or CHEM 121 or CHEM 122 or CHEM 131 or CHEM 132 or CHEM 135 or CHEM 136 or CHEM 301 or CHEM 302 or CHEM 321 or CHEM 322 or CHEM 400 or CHEM 461 or CHEM 462 or CHEM 465 or CHEM 466 or CHEM 471 or CHEM 495 or CHEM 497 or CHEM 499 or PHSC 102 or PHSC 103 or PHSC 104 or PHSC 121 or PHSC 122 or PHSC 210 or PHSC 211 or PHSC 310 or PHSC 311 or PHSC 313 or PHYS 101 or PHYS 103 or PHYS 201 or PHYS 202 or PHYS 231 or PHYS 232 or PHYS 305 or PHYS 310 or PHYS 320 or PHYS 321 or PHYS 331 or PHYS 432 or PHYS 433 or PHYS 440 or PHYS 491 or PHYS 495 or PHYS 497 or GEOG 200

Covers various aspects of meteorology, including solar radiation, global circulation, environmental issues, winds, stability, precipitation processes, weather systems, and severe weather. Registration

**Note:** Course prerequisite requirement is GEOG 200 or any course with a PHYS, PHSC, or CHEM prefix

**Offered:** Online

### PHSC 313 Mineralogy and Petrology 4 Credit Hour(s)

**Online Prerequisite:** PHSC 210 and PHSC 211

Identification, classification, chemistry, crystallography, and occurrence of rock-forming and economically important minerals, coupled with a survey of identification, classification, and formation of igneous, sedimentary, and metamorphic rocks. This course has a lab component.

**Offered:** Online