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: PHSC 210
Covers various aspects of meteorology, including solar radiation, global circulation, environmental issues, winds, stability, precipitation processes, weather systems, and severe weather.
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