

PHYSICAL SCIENCE (PHSC)

PHSC-ELEC ELECTIVE (3 Credits)

PHSC-101 EARTH SCIENCE (3 Credits)

A survey of physical properties and processes of the Earth. The content is drawn from geology, atmospheric science and oceanography. Topics may include the motion of the Earth, atmospheric circulation, plate tectonics and igneous activity and physical properties of the oceans.

Corequisite(s): PHSL-101

PHSC-105 GEOLOGY (3 Credits)

A survey, with emphasis on physical geology, considering processes at work on the Earth's crust, such as glaciation, weathering, mass movement, water, diastrophism and consideration of rocks and minerals composing the crust.

PHSC-106 STARS AND STELLAR SYSTEMS (3 Credits)

A survey of the universe beyond our solar system: stars and multiple star systems, nebulae, galaxies, quasars, pulsars and black holes. Models of the universe's origin and modern observing techniques will also be discussed.

Corequisite(s): PHSC-113L

PHSC-107 THE SOLAR SYSTEM (3 Credits)

How do the planets move through space and indeed what are the planets like? How did our solar system come into existence? What is our sun like? These and other questions will be treated in depth in the introduction to the astronomical aspects of our star system.

PHSC-113L ASTRONOMY LABORATORY (1 Credit)

Basic experiments in astronomy illustrating how information is derived about stars and planets, etc.

Corequisite(s): PHSC-106

PHSC-115 ALTERNATIVE ENERGY SOURCES (3 Credits)

This course is intended for the student who has had an exposure to the rudiments of science and who is interested in exploring the topic of energy sources. This course will deal with energy sources which are state of the art or near state of the art. Each energy will be examined from the point of view of the physical principles involved and the practical limitations of the utilization. Discussions where pertinent will also include hazard analyzes.

PHSC-191 INTRODUCTION TO NATURAL SCIENCE (3 Credits)

An introduction to what we know about the physical universe and how we have discovered it. The process of scientific discovery is explored using major discoveries in the history of science as examples. Topics include the fundamental properties of matter and energy, the nature of chemical reactions, the use of energy by living things, the nature and property of DNA and biological evolution among others. The course includes a combination of lecture and classroom discussion.

Corequisite(s): PHSL-191