

PHYSICAL SCIENCE (PHSC)

PHSC 101 - Survey of Physical Science (3)

Gen Ed Science

Prerequisites: ENGL 70 or ENGL 75 or (ESOL 72 and ESOL 73) or ESOL 100 AND [(Prerequisite: MATH 101A or MATH 120A or MATH 145S) OR (Prerequisite or Co-requisite: MATH 101 or higher credit level (non-A or S) MATH course) OR (appropriate score on mathematics placement test)]*
**MATH 101A, MATH 120A, MATH 145S can serve as prerequisites only, not co-requisites*
 (formerly PC 103)

Covers selected aspects of earth science, physics, chemistry, and the quantitative relationships involved in the behavior of matter. Uses simple experiments to introduce scientific topics as needed. Restricted to non-science majors. Students cannot receive credit for both (PHSC 101 or PC 103) and (PHSC 111 or PC 114).

PHSC 104 - Survey of Oceanography (3)

Gen Ed Science

Prerequisites: ENGL 70 or ENGL 75 or (ESOL 72 and ESOL 73) or ESOL 100 AND [(Prerequisite: MATH 101A or MATH 120A or MATH 145S) OR (Prerequisite or Co-requisite: MATH 101 or higher credit level (non-A or S) MATH course) OR (appropriate score on mathematics placement test)]*
**MATH 101A, MATH 120A, MATH 145S can serve as prerequisites only, not co-requisites*
 (formerly PC 104)

Presents a study of the ocean as a dynamic and changing entity. Emphasizes connections among disciplines in and outside the areas of science. Provides a basic understanding of scientific questions, complexities and uncertainties involved with the study and use of oceans.

PHSC 105 - Survey of Meteorology (3)

Gen Ed Science

Prerequisites: ENGL 70 or ENGL 75 or (ESOL 72 and ESOL 73) or ESOL 100 AND [(Prerequisite: MATH 101A or MATH 120A or MATH 145S) OR (Prerequisite or Co-requisite: MATH 101 or higher credit level (non-A or S) MATH course) OR (appropriate score on mathematics placement test)]*
**MATH 101A, MATH 120A, MATH 145S can serve as prerequisites only, not co-requisites*
 (formerly PC 105)

Surveys the basic physics of the atmosphere and the diagnostic tools of the meteorologist. Includes some discussion of applied meteorology, forecasting, pollution, and climatology. Students cannot receive credit for both (PHSC 105 or PC 105) and (PHSC 115 or PC 106).

PHSC 109 - Energy and Society (3)

Gen Ed Science

Prerequisites: ENGL 70 or ENGL 75 or (ESOL 72 and ESOL 73) or ESOL 100 AND [(Prerequisite: MATH 101A or MATH 120A or MATH 145S) OR (Prerequisite or Co-requisite: MATH 101 or higher credit level (non-A or S) MATH course) OR (appropriate score on mathematics placement test)]*
**MATH 101A, MATH 120A, MATH 145S can serve as prerequisites only, not co-requisites*
 (formerly PC 121)

Explores the nature and properties of energy. Emphasizes a scientific understanding of energy and its role in the global society. Examines current and alternative energy sources used to meet the needs of a growing and developing society. Some Friday or Saturday field trips. *This course is only offered in the Spring.*

PHSC 111 - Introduction to Physical Science (4)

Gen Ed Science

Prerequisites: ENGL 70 or ENGL 75 or (ESOL 72 and ESOL 73) or ESOL 100 AND [(Prerequisite: MATH 101A or MATH 120A or MATH 145S) OR (Prerequisite or Co-requisite: MATH 101 or higher credit level (non-A or S) MATH course) OR (appropriate score on mathematics placement test)]*
**MATH 101A, MATH 120A, MATH 145S can serve as prerequisites only, not co-requisites*
 (formerly PC 114)

Introduces the fundamental concepts of physics and chemistry with an emphasis on matter, motion, and energy. An inquiry-based, activities-oriented approach is used that emphasizes both conceptual and quantitative understandings of the physical world. Meets the requirement of a general education science lab course. Students cannot receive credit for both (PHSC 111 or PC 114) and (PHSC 101 or PC 103).

PHSC 112 - Introduction to Earth Systems Science (4)

Gen Ed Science

Prerequisites: ENGL 70 or ENGL 75 or (ESOL 72 and ESOL 73) or ESOL 100 AND [(Prerequisite: MATH 101A or MATH 120A or MATH 145S) OR (Prerequisite or Co-requisite: MATH 101 or higher credit level (non-A or S) MATH course) OR (appropriate score on mathematics placement test)]*
**MATH 101A, MATH 120A, MATH 145S can serve as prerequisites only, not co-requisites*
 (formerly PC 115)

Presents an overview of the solid, fluid, and living parts of the Earth system with an emphasis on how those parts are interconnected and ever changing. An inquiry-based, activities-oriented approach is used in the course. Meets the requirement for a general education science lab course.

PHSC 115 - Introduction to Meteorology (4)

Gen Ed Science

Prerequisites: ENGL 70 or ENGL 75 or (ESOL 72 and ESOL 73) or ESOL 100 AND [(Prerequisite: MATH 101A or MATH 120A or MATH 145S) OR (Prerequisite or Co-requisite: MATH 101 or higher credit level (non-A or S) MATH course) OR (appropriate score on mathematics placement test)]*
**MATH 101A, MATH 120A, MATH 145S can serve as prerequisites only, not co-requisites*
 (formerly PC 106)

Surveys the basic physics of the atmosphere and the diagnostic tools of the meteorologist. Includes some discussion of applied meteorology, forecasting, pollution, and climatology. Meets the requirement for a general education science lab course. Students cannot receive credit for both (PHSC 115 or PC 106) and (PHSC 105 or PC 105).

PHSC 117 - Introduction to Astronomy (4)

Gen Ed Science

Prerequisites: ENGL 70 or ENGL 75 or (ESOL 72 and ESOL 73) or ESOL 100 AND [(Prerequisite: MATH 101A or MATH 120A or MATH 145S) OR (Prerequisite or Co-requisite: MATH 101 or higher credit level (non-A or S) MATH course) OR (appropriate score on mathematics placement test)]*
**MATH 101A, MATH 120A, MATH 145S can serve as prerequisites only, not co-requisites*
 (formerly PC 107)

Presents a survey of astronomy that includes a study of the physical nature of the universe, the solar system, stars, nebulae, and galaxies. Meets the requirement for a general education science lab course.

PHSC 121 - Physical Geology (4)

Gen Ed Science

Prerequisites: ENGL 70 or ENGL 75 or (ESOL 72 and ESOL 73) or ESOL 100 AND [(Prerequisite: MATH 101A or MATH 120A or MATH 145S) OR (Prerequisite or Co-requisite: MATH 101 or higher credit level (non-A or S) MATH course) OR (appropriate score on mathematics placement test)]*
**MATH 101A, MATH 120A, MATH 145S can serve as prerequisites only, not co-requisites*
(formerly PC 109)

Introduces the physical and chemical processes that occur along the surface of the earth and within the earth's interior. Topics include plate tectonics, earthquakes, volcanoes, rocks and minerals, geologic maps, and the origin and continual modification of surface features. Meets the requirement for a general education science lab course.

This course is only offered in the Fall.

PHSC 122 - Historical Geology (4)

Gen Ed Science

Prerequisites: ENGL 70 or ENGL 75 or (ESOL 72 and ESOL 73) or ESOL 100 AND [(Prerequisite: MATH 101A or MATH 120A or MATH 145S) OR (Prerequisite or Co-requisite: MATH 101 or higher credit level (non-A or S) MATH course) OR (appropriate score on mathematics placement test)]*
**MATH 101A, MATH 120A, MATH 145S can serve as prerequisites only, not co-requisites*
(formerly PC 108)

Traces the history of the earth through time. Presents scientific theories on the origin of the earth and the evolution of life. Provides students with the tools to interpret the rock and fossil record with a focus on the geologic history of North America. Meets the requirement for a general education science lab course.