

PHYSICAL SCIENCE

Physical science is the interdisciplinary study of the physical world. It introduces concepts in physics, chemistry, and earth and space sciences and how they apply to the world around us.

NOTE: The UC limits enrollment in some courses. See the UC Transfer Course Agreement (<http://catalog.vcccd.edu/oxnard/transfer-information/transfer-uc/#uctcatext>) page for details.

PHSC R170 Concepts in Physical Science 4 Units

In-Class Hours: 52.5 lecture, 52.5 laboratory

Prerequisites: Course taught at the level of intermediate algebra or placement as determined by the college's multiple measures assessment process

C-ID: PHYS 140

This introductory course focuses on principles, laws, and concepts in physics, chemistry, and earth and space science. Students model scientific reasoning and experimentation processes: questioning, forming hypotheses, testing hypotheses experimentally, and performing analysis and additional questioning that lead to further experimentation. Lab activities are closely sequenced with the lecture topics, which include measurements and data analysis; fundamentals of classical mechanics; sources and transformations of energy; thermodynamics; waves; electricity and magnetism; light; atomic and nuclear theory; the periodic table; reactions; solutions; fundamentals of organic chemistry; geological processes, with a brief study of rocks and minerals; and the history and structure of the Earth, solar system, and universe. The course incorporates current knowledge of science teaching and concept development. It is aimed at current and prospective teachers, or anyone desiring to acquire basic literacy in physical science.

Grade Modes: Letter Graded

Degree Applicability: Applies to Associate Degree

AA/AS GE: A2

Transfer Credit: CSU, UC

UC Credit Limitations: None

CSU GE-Breadth: B1, B3

IGETC: 5A, 5C

For more information contact:

Justin Miller (805) 678-5094 jwmiller@vcccd.edu