

NATURAL SCIENCE

NATSC 0040 BIG IDEAS IN SCIENCE 4 cr.

Provides an introduction to scientific discovery, scientific methodology and the social implications of science through a discussion of major scientific concepts including the atom, the periodic table, the Big Bang, plate tectonics and evolution. Uses inquiry-based methods of instruction and will provide ample opportunities for student discussion, presentation and scientific writing.

Prerequisite: None.

NATSC 0050 NATURAL SCIENCE I 3 cr.

Intended to acquaint non-science majors with basic concepts that are important to an understanding of various natural, physical, and biological processes. Scientific principles and methodology are introduced through the integration of information from three key disciplines: biology, chemistry, and physics. The traditional lecture presentation is supplemented and enhanced by current relevant technological instructional aids.

Prerequisite: None.

NATSC 0070 PHYSICAL SCIENCE FOR EVERYDAY THINKING 4 cr.

Inquiry based course intended for the non-science major. Topics include motion, energy, light, circuits, forces, magnetism, electric charge, gravity, the small particle model, pressure, temperature, gases, density, chemical and physical changes, the atom and the periodic table. Additional activities will focus on the process of how students, children and scientists learn science.

Prerequisite: Pre-Education or Early Childhood Education or Secondary Education major.

NATSC 0250 NATURAL SCIENCE II 3 cr.

The second course of a two-course sequence for non-science majors. Involves students with the analysis of various contemporary problems using methods that integrate information from three key disciplines: biology, chemistry, and physics. The specific problems analyzed may vary from term to term. The traditional lecture presentation is supplemented and enhanced by relevant technological instructional aids.

Prerequisite: None.

NATSC 0255 THE MILKY WAY GALAXY 4 cr.

Intended for non-science majors interested in the study of the Milky Way Galaxy. Examines our sun and the solar system, as well as, all major astronomical aspects of the galaxy itself and of the celestial bodies within it. Students are required to attend at least one evening outdoor viewing session on campus.

Prerequisite: None.

NATSC 0270**SCIENCE + PREHISTORY > ARCHAEOLOGY****4 cr.**

Archaeology in theory, method and practice overlaps with the physical sciences, notably biology, chemistry and geology. Using a pedagogical approach, this course explores these many relationships. A history of the interaction between science and archaeology is surveyed. Techniques for introducing archaeology to the science classroom at both early childhood and secondary levels are demonstrated, illustrating how the physical sciences: (A) collaborate with archaeology illuminate the record of humankind's past; (B) help preserve these fragile resources; and (C) share in our society's stewardship responsibility to conserve the past for posterity.

Prerequisite: Pre-Education major or Early Childhood Education major or Secondary Education major.

NATSC 0300**VILLAGE SEMINAR IN THE NATURAL SCIENCES****3 cr.**

A special topics course designed to give members in one of the academic villages an opportunity to take a course that provides an interdisciplinary perspective on a contemporary issue. Team-taught by faculty from different disciplines with expertise on the current topic. Students may use the Village Seminar in Natural Sciences to satisfy an NS requirement for general education.

Note: Instructor Permission Required.

NATSC 0310**ETHICAL ISSUES IN SCIENCE****3 cr.**

This course examines the ethical implications of developments in science and technology--such as those involving gene cloning and splicing, prolonging life, prenatal testing, radiation and ozone depletion, purported climate change, environmental hazards and safety, and agricultural practices. Attention will be given to frameworks and perspectives for ethical analysis as well as methods for analyzing risk-benefit trade-offs.

Prerequisite: None.

NATSC 1235**MEDICAL TERMINOLOGY****1 cr.**

A basic study of the professional language of medicine. It is designed to include word construction, pronunciation, spelling, definition, and use of terms related to all areas of medical science, hospital service, and health related professions. This ONLINE course is designed to give the student a knowledge of words frequently used in the medical field and provides examples through the review of basic anatomy and physiology.

Prerequisite: None.