

PHS-Physical Sciences Courses

Courses

PHS 101. Physical Science. 4 Hours.

Scientific method and hands-on experience with integrated laboratory, discussion, and lecture. Emphasis on the use of quantitative reasoning to solve physical problems. Writing, assignments based on research and laboratory experiences that include collection and interpretation of experimental data. For nonscience majors. Lecture and laboratory. Writing and Quantitative Literacy are significant components of this course. This course meets Blazer Core Scientific Inquiry with a Flag in High Impact Practices/Collaborative Assignments and Projects.

PHS 101L. Physical Science Laboratory. 0 Hours.

Must be taken concurrently with PHS 101 lecture.

PHS 102. Physical Science II. 4 Hours.

This course includes online lecture and laboratory activities and is designed to assist non-science major students in acquiring practical knowledge of established physical laws and learning scientific investigative methods. Writing and Quantitative Literacy are significant components of this course. This course meets Blazer Core Scientific Inquiry with a Flag in High Impact Practices/Collaborative Assignments and Projects.

Prerequisites: PHS 101 [Min Grade: C]

PHS 102L. Physical Science II Lab. 0 Hours.

Physical Science II Laboratory.

PHS 110. Overview of Space Exploration. 3 Hours.

Descriptive approach to comparative planetology for non-science majors. Analysis of recent, ongoing, and planned space missions with regard to scientific objectives and experiment design.

PHS 141. Musical Acoustics. 3 Hours.

Scientific method and hands-on experience with integrated laboratory, discussion, and lecture, emphasizing physical principles and experiences important for understanding musical tones. For non-science majors. See MU 141. Prerequisite for this class includes completion of Core Curriculum mathematics requirement.

PHS 150. Science Writing. 3 Hours.

Scientific writing skills for science, mathematics, and engineering. Identification of audience and purpose, generation of ideas, organization of information and construction of arguments.

PHS 211. Discussion on the Nature of Matter. 3 Hours.

Honors seminar. Evolution of science and scientific method from early Greek origins in context of the study of matter. Non-mathematical, descriptive, and pictorial approach to understanding basic structure of matter and materials of technological interest. See HON 211. Scientific writing skills for science, mathematics, and engineering. Permission of instructor or admission to Honors Program.