

# PHYSICAL SCIENCES (PHY-SCI)

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## Courses

PHY-SCI 110 Foundations Of Physical Sciences I Credits: 4

Fundamental principles and concepts of the various physical and mathematical sciences, integrated by the history and philosophy of science.

PHY-SCI 110 - MOTR PHYS 110L: Essentials Physical Sciences w/Lab



PHY-SCI 110L Foundations Of Physical Sciences, Laboratory I Credit: 1

General laboratory and discussion sessions on various topics in the physical and mathematical sciences.

PHY-SCI 110L - MOTR PHYS 110L: Essentials Physical Sciences w/Lab



PHY-SCI 130 Physics of Sports Credits: 3

A course intended for liberal arts students focusing on the physics involved in different sports. Physical laws and technological developments that impact sports will be studied.

PHY-SCI 140 How Things Work Credits: 3

A course intended for liberal arts students focusing on the principles of operations, histories, and relationships of objects from our daily environment.

The areas of investigation include mechanical and thermal objects, electromagnetism, light, special materials and nuclear energy.

**Co-requisites:** PHY-SCI 140L.

PHY-SCI 140L How Things Work Laboratory Credit: 1

Simple experiments based on everyday experiences are analyzed in terms of conceptual physics. The material includes elements of mechanics of a rigid body, elastic properties of matter, fluid dynamics, thermodynamics, electromagnetism, optics and modern physics.

**Co-requisites:** PHY-SCI 140.

PHY-SCI 150 Astronomy: Motions of the Cosmos Credits: 3

An introductory exploration of modern topics in astronomy with an emphasis on developing conceptual models for the fundamental laws of gravity and motion crucial to the formation of stars and planetary systems, the growth of black holes and galaxies, and the evolution of cosmic structure.

PHY-SCI 153L Introductory Astronomy Laboratory Credits: 2

An introductory exploration of astronomical phenomena and concepts through quantitative laboratory activities requiring data collection, analysis and interpretation. This course is open to students from all majors. Concurrent enrollment in either PHY-SCI 150 or PHY-SCI 155 is encouraged but not required.

PHY-SCI 171 Physics For Future Presidents Credits: 3

A course intended for liberal arts students focusing on the physics they need to be informed citizens in a democracy. Energy, global warming, terrorism, and health are examples of the important topics examined from the perspective of how science should inform policy.

PHY-SCI 410A Selected Topics In Contemporary Science Credits: 3

PHY-SCI 435 Selected Topics In The History Of Science Credits: 3

Selected Topics In The History Of Science