

## *Physical Science (PHS)*

### **PHS 101 Environmental Technology**

IAI – LP 900  
3 Hours

Prerequisites: None  
3 hours weekly (3-0)

A consumer-user course oriented toward the economics and wise use of man's energy and machines; various up-to-the-minute scientific topics will be discussed; scientific versus environmental trade-offs will be analyzed.

### **PHS 102 Astronomy**

IAI – PI 906  
3 Hours

Prerequisites: None  
3 hours weekly (3-0)

A general education course in astronomy. Textbook principles as well as observations of the night sky are brought together in this course. Intense discussions follow such questions as, "Are we alone?"

### **PHS 103 Earth Science**

IAI – PI 905L  
3 Hours

Prerequisites: None  
4 hours weekly (2-2)

A general education lecture-laboratory course that covers the entire field of geology. No formal instruction in science is expected. Emphasis will be placed on the configuration of the earth, the dynamic processes that change the configuration, and the origin and history of the earth.

### **PHS 104 Contemporary Chemistry for Non-Science Majors**

IAI – P1 903  
3 Hours

Prerequisites: None  
3 hours weekly (3-0)

A general education course introducing basic chemistry together with elementary studies related to the structure of matter from the atomic and nuclear standpoints.

### **PHS 105 Physics for Non-Science Majors**

IAI – P1 900  
3 Hours

Prerequisites: MAT 051  
3 hours weekly (3-0)

A conceptual introduction to physics for the non-science major. The topics of motion, work, power, energy, waves, and electricity, and magnetism are emphasized.

### **PHS 111 Environmental Technology II**

IAI – LP 901  
3 Hours

Prerequisites: None  
3 hours weekly (3-0)

This is an interdisciplinary physical and life science course that focuses on the study of humankind's relationship with other organisms and the nonliving environment, combining information from biology, chemistry, geography, geology, physics, economics, sociology, cultural anthropology, agriculture, engineering, law, politics, and ethics. Water, land, and food resources, biodiversity, hazardous wastes, and regional and global atmospheric changes are some of the topics that are covered in this course.

### **PHS 220 Physical Geology**

IAI – P1 907L  
4 Hours

Prerequisites: CHM 151 or equivalent  
5 hours weekly (3-2)

Physical Geology is an intensive study of earth materials and processes designed for the beginning geoscience major and others seeking a strong background in earth sciences. Topics will include minerals, rock types, surficial processes, landscape evolution, structural geology, and plate tectonics. One Saturday field trip (date to be arranged) is also required.