

Physical Science (PHS)

PHS 101 Environmental Science

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 – P1 906

3 Hours

Prerequisites: None

3 hours weekly (3-0)

A general education course in astronomy that examines astronomical phenomena and concepts, including the solar system, planetary motions, atoms and radiation, stars and galaxies, and the origin and evolution of the universe. Textbook principles as well as observation of the night sky are brought together in this course.

PHS 103 Earth Science

IAI – P1 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 105 Physics for Non-Science Majors

IAI – P1 900

3 Hours

Prerequisites: MAT 051

3 hours weekly (3-0)

This course is an introduction to physics for the non-science major or the science major wishing to gain a conceptual understanding before taking a more advanced physics course. Students will examine selected physical phenomena and explore their connection to many societal issues affecting modern life. While this course concentrates on the conceptual approach, basic math, simple algebra, estimating, and graphical analysis are also utilized.

PHS 107 Weather & Climate

IAI – P1 905

3 Hours

Prerequisites: None

3 hours weekly (3-0)

A first course in the atmospheric sciences, for both science and non-science majors, which integrates an exposure to current atmospheric events with an understanding of current scientific thinking of atmospheric processes. The course covers topics ranging from basic atmospheric composition, structure and motions to an introduction to climatology. The course will also emphasize scientific literacy and qualitative reasoning applied to atmospheric behavior.

PHS 111 Environmental Science 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.