

## Science Courses

**Course Descriptions:** The hours identified with each course description represent the amount of time spent in the classroom, laboratory and clinical area per week during a semester.

**Prerequisite:** A prerequisite indicates a course which must be successfully completed before enrolling in other courses as indicated.

**Corequisite:** This indicates a course which must be taken no later than the same semester as the course described.

**Recommended Background:** Indicates level of course background or other criteria a student needs to be successful in a course.

### SCIE 257

#### PHYSICS I

4 Hrs

Physics I is a mathematics-based overview of the interaction of mass and energy. Study of International Standard Measurements, motion, forces, gravitation, work and energy, and thermodynamics. Laboratory experiences involve measurement, data collection, analysis, and interpretation. (Lecture 3 hours, Lab 3 hours)

*Fall*

Prerequisite: MATH 125 or equivalent

### SCIE 258

#### PHYSICS II

4 Hrs

Physics II is the continuation of SCIE 257, Physics, and is a mathematics-based study of forms of energy and their usefulness. Course content covers wave motion, sound, light, electricity, and magnetism. Laboratory experiences incorporate meters and computer interfaced probes for data collection. (Lecture 3 hours, Lab 3 hours)

*Spring*

Prerequisites: MATH 125 or equivalent; SCIE 257

### SCIE 273

#### PHYSICAL SURVEY

3 Hrs

Study of the basic concepts of physics, electricity, robotics, and chemistry. Explores relationships of matter and energy. Laboratory involves “hands-on” experience with the materials of chemistry and physics. (Lecture 2 hours, Lab 3 hours)

*Spring*

Corequisite: MATH 122 or equivalent

**SCIE 274**

EARTH AND SPACE SCIENCE 3 Hrs

Fundamental concepts of geology, astronomy and meteorology. Lab includes rock and mineral investigation, stellar identification and use of topographic maps and analysis of weather data. (Lecture 2 hours, Lab 3 hours)

*Fall*

**SCIE 276**

GEOLOGY 3 Hrs

Study of the structure of the Earth and forces that formed it: plate tectonics, volcanism, erosion, and sedimentation. Lab includes uses of topographical maps, study of rocks and mineral, experience with processes that erode, transform the earth. (Lecture 2 hours, Lab 3 hours).

*Spring*

**SCIE 291**

CONCEPTS OF SCIENCE 3 Hrs

Science and scientists as they contributed to our knowledge of natural phenomena. Scientists who contributed to the central theories of Astronomy, Physics, Chemistry, Biology, Psychology, Geology, and Nuclear Physics are studied.

*As needed*

**SCIE 402**

ASTRONOMY 3 Hrs

A brief history of astronomy and astronomers. The solar system with planets studied individually along with their satellites. Special emphasis is given to our sun and its influence on the earth along with the life and death of stars in general. Identification and location of various constellations and bright stars.

*Fall*