SCI 113: Physical Science

This course introduces non-science majors to the physical sciences. It focuses on selected topics from chemistry, physics, geology, and astronomy. Students apply scientific method in the laboratory and learn proper laboratory safety. Prerequisite: Introductory Algebra competency or high-school algebra. Three class hours and two laboratory hours per week. Instructional Support Fee applies. Gen. Ed. Competencies Met: Scientific Reasoning and Discovery.

Course Student Learning Outcomes

1. Design and perform scientific experiments using of the principles of the scientific method to make observations, collect and analyze data, and present findings.
2. Describe and explain the universality of the laws of physics including the concepts of motion, force and universal gravitation.
3. Describe the basic structure of an atom, and using that structure, explain elements, isotopes, the types of chemical bonds and creation of compounds.
4. Explain the causes of earthquakes and volcanos and using the theory of plate tectonics, describe the natural forces working to shape planet Earth.

5. Make and use accurate scientific measurements.

Credits: 4
Program: Science