

Course Descriptions

Biology

Students take this course as a study of living things. We teach Arizona State Standards including the nature of science, scientific method, biodiversity, cell biology, genetics, and evolution. We emphasize learning and thinking skills, including problem solving, predicting, analysis of data, evaluating, and synthesizing.

Chemistry

This course develops an understanding of atomic structure, bonding of molecules, redox reactions and equilibria, balancing chemical equations, the mole concept, nuclear chemistry, the gas laws, acid-base reactions, and solutions. We conduct weekly laboratory applications.

Earth Science

This class takes a comprehensive look at the science devoted to the study of the earth - its origin, history, composition, properties, and resources. This process oriented class incorporates and integrates chemistry, physics, mathematics, engineering, and writing skills to solve problems in geology. A special unit on geology of Arizona will draw on personal experiences and interests to enhance relevancy.

Human Anatomy and Physiology

This course gives students an in-depth study of the structure and function of the human body and systems. We focus on disease and health maintenance topics. Students perform lab dissections.

Integrated Science

All students take this course as a beginning high school science course. Arizona State Standards include the nature of science, scientific method, environmental science, physical science, chemical science, and earth science. The course is lab and activity based, and students must apply basic concepts of science.

Physics

This course focuses on a mathematical approach to problem solving in Physics. Topics include vector analysis, kinematics, work and energy, forces, and electricity. The level of math covers Algebra II concepts.