

## SCIENCE

### **Physical Science (9)**

1 credit

Fee \$10.00

The Ninth Grade Science course is an integrated science survey course that introduces the student to the basics of physical science and chemistry. The inquiry process approach to science will be stressed with emphasis placed on those performance objectives that are addressed on the Ohio Graduation Tests. This course is a graduation requirement.

### **General Biology (9-12)**

1 credit

Fee \$10.00

This course features the study of the characteristics of living things: processes fueled by energy, organization based on cells, reproduction, growth, development, response and adaptation, photosynthesis and cellular respirations, genetics and evolution. This course is a graduation requirement

### **Environmental Science (11-12)**

1 credit

Fee \$10.00

Environmental Science will serve as an advanced study of the environment/ecology. This class is conducted as an inquiry based class focusing on the study of ecosystems, human population, human related disturbance and planetary issues facing the existence of the earth. It will include labs, research projects, film study and some lecture style format.

### **Anatomy/Physiology (11-12)**

1 credit

Fee \$12.00

Pre-requisite: "C" or better in Biology + Teacher Permission

This course is designed to prepare the student who is planning to pursue a life science related career. It is structured around the study of vertebrate anatomy and physiology, including the human being. Laboratory investigation includes the dissection of the more advanced forms of vertebrates.

### **Chemistry (11-12)**

1 credit

Fee \$12.00

*Pre-requisite: Successful completion of Biology, or concurrently enrolled in Algebra II.*

Chemistry is the study of the composition of all common materials, the changes in composition that these materials undergo, and the reasons for the changes. **A good math background** is essential for chemical equations. College bound students who wish to pursue careers in the sciences should take this course.

### **Honors Chemistry (11-12)**

1 credit

Fee \$12.00

*Pre-requisite: An "A" or "B" in Algebra II + Chemistry Teacher recommendation.*

Honors Chemistry is a fast paced chemistry course for the college bound student. It will cover the composition of all common materials, the changes they undergo, and the reasons for the changes.

## SCIENCE (Cont.)

### **Physics (11-12)**

1 credit

Fee \$8.00

*Pre-requisite: Student must have earned a C or better in the Advanced Math course or be currently enrolled in Advanced Math + Teacher recommendation.*

Physics is the study of the mechanics of solids, light, and waves. It is a college prep course. An extensive math background including Algebra II is required.

### **Chemistry II (11-12)**

1 credit

Fee \$12.00

*Pre-requisite: Student must have earned a C or better in Chemistry + Teacher recommendation*

Chemistry II is a continuation of Chemistry I. This is a course for college bound students who are interested in pursuing a college major in science, or a science related field. A strong math background is recommended (successful completion of Algebra II), as this is a rigorous academic course.

### **Geology (11-12)**

1 credit

Fee \$10.00

*Pre-requisite: Teacher recommendation*

Geology will serve as an advanced course of study focusing on forces and properties of physical geology including mineral study, rock formation/cycle, geologic time and dating and the chemical/physical properties of the earth. It will also focus on soil formation as well as erosion/weathering, plate tectonics, and other forces that continue to shape the planet. This class will be inquiry based with some field work, labs, films, research projects and lectures.

### **Science and Society (11-12)**

1 credit

Fee \$5.00

This class will serve as an OGT review class as well as a class that focuses on various issues of science pertinent to our society. It will aid in science retention and serve as an avenue to open students' eyes to various science topics important to society. It is a non-lab based science that will focus on projects and some lecture. It will look at the various fields of science and their application in current society.