

SCIENCE DEPARTMENT

College bound students should take Biology during their sophomore year, Chemistry as juniors, and choose one of the following their senior year: Physics, AP Chemistry, AP Biology.

Courses available for cross credit to receive science credit include:

Horticulture 1/2

Ecology 1/2

Pre-Engineering

Technology 1/2

SCI 221/222 Biology 1-2

Grade:	10,11,12
Length:	1 year
Block of Time:	1 period
Credits:	.5 per semester
Prerequisite:	Physical Science 1-2 (full year)

Biology is a two (2) semester course that explores the general principles of life. Emphasis is given to the structure and function of cells, the concepts of heredity, and the classification of plants and animals. Laboratory experiments are provided to emphasize the subject matter. This class is recommended for those planning to attend college. Must pass first semester to take Biology 2.

SCI 271/272 Ecology 1-2

Grade:	10,11,12
Length:	1 semester each
Block of Time:	1 period
Credits:	.5
Prerequisite:	Physical Science 1-2 (full year)

Ecology is a class that deals with the inter-relationships between living things, dead things and non-living things in the environment. The course covers freshwater, marine, soil, terrestrial and atmospheric ecology units. Extensive use of a textbook and videos will be supplemented with outdoor educational activities when the weather permits. Students must be prepared to go outside. Ecology is designed to meet the state science requirements for non college bound students.

SCI 323/324 Advanced Placement Biology 1-2

Grade:	11,12
Length:	1 year
Block of Time:	1 period
Credits:	.5 per semester
Prerequisite:	B grade in Biology 1-2
Preference:	Completion of Chemistry or teacher permission



The AP Biology course is designed to be the equivalent of the general biology course usually taken during the first college year. The completion of the course may allow

students to register in college courses where general biology is a prerequisite, and the AP Biology course fulfills college lab science requirements. This course will cover chemistry, cells, cellular energetics, heredity, molecular genetics, evolution, diversity of organisms, structure and function of plants and animals, and ecology.

SCI 331 Marine Biology

Grade:	11,12
Length:	1 semester
Block of Time:	1 period
Credits:	.5
Prerequisite:	Biology with a 'C' or better or instructor permission

The Marine Biology course is designed to look at the relationship between marine animals in the ocean. This course involves studying in detail the chemistry of seawater, invertebrates, marine mammals, fish, algae, human impact on the ocean, and the laws of the sea. There will be four dissections; shark, fish, squid, and a sea star. This course is also designed to further your understanding of the ocean and how it impacts the world.

SCI 332 Forensic Science

Grade:	11,12
Length:	1 semester
Block of Time:	1 period
Credits:	.5
Prerequisite:	Two years of science with a "C" or better.

This class will provide students with a lab based introduction to Forensic Science. Topics to be covered include: Crime Scene Processing, Forensic Anthropology and Entomology, DNA Evidence, Blood Spatter, Toxicology, Fiber and Hair analysis.

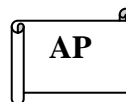
SCI 341/342 Chemistry 1-2

Grade:	11,12
Length:	1 semester
Block of Time:	1 period
Credits:	.5 per semester
Prerequisite:	Physical Science 1-2 with a C grade or above

This is an elective course that investigates the behavior and properties of matter. Particular attention is paid to chemical reactions, atomic structure and laboratory work. This course is recommended for college-bound students.

SCI 343/344 Advanced Placement Chemistry 1-2

Grade:	11,12
Length:	1 year
Block of Time:	1 period



Credits: .5 per semester
Prerequisite: Algebra 3-4 or concurrent enrollment; full year of Chemistry with a C or better **or** instructor permission.

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. The completion of the course may allow students to register in college courses where general chemistry is a prerequisite, and the AP chemistry course fulfills college lab science requirements. The course will cover atomic theory, chemical bonding, nuclear chemistry, gases, liquids, solids, solutions, reactions, stoichiometry, equilibrium, kinetics and thermodynamics.

SCI 351/352 Physics

Grade: 11,12
Length 1 year

Block of Time: 1 period
Credits: .5 per semester
Prerequisite: Algebra 3-4 or concurrent enrollment

This is an elective offering which culminates the traditional science curriculum. The course focuses on the relationships between matter and energy and pays particular attention to the nature and causes of motion, the study of forces, energy, thermal effects, phases of matter and waves. Extensive use of algebra is employed. This course is recommended for students planning on pursuing a college education, especially if a career in the sciences or medical, technical or engineering fields is contemplated.

