

# **SCIENCE I**

## **TEXT**

Various supplementary materials.

## **PREREQUISITES**

None. This course is designed as either entry level or enrichment.

## **OBJECTIVES**

- Instill interest in the sciences
- Establish a foundation for the study of Biology, Chemistry, and Physics
- Introduce students to laboratory procedures and experiments
- Relate science to everyday experiences

## **CONTENT**

Fall semester work involves the strengthening of basic science skills such as the scientific method and lab reporting. Basic chemistry is studied with an emphasis on consumer science. Labs include investigative studies of fabrics, aspirin products, antacids, soft drinks, and fast-food hamburgers. Spring semester studies are biologically oriented with an ecology theme and a study of heredity, human anatomy and physiology.

## **SKILLS**

- Note taking
- Organization
- Cooperative learning
- Scientific method
- Inquiry and analysis
- Critical observation

## **METHODS**

General techniques include class discussions with note taking and follow up in class “hands on” work. Peer interaction and cooperative learning constitute a major part of classroom activities. Students are required to complete a research paper each semester.

## **HOMEWORK**

Daily homework is not assigned in this class due to the strong laboratory emphasis and in-class nature of the work. In-class assignments, however, are frequent and become homework if not completed during class. All assignments missed due to absences must be made up. Studying for tests and completion of research papers are done outside of class.

## **GRADING/CREDITS**

Grades are based upon quality of assignments, test scores, participation and peer interaction assignments. To earn full credit, all assignments must be submitted. Extra credit opportunities are available to improve grade or credit.

## **INDIVIDUALIZATION**

The sciences provide a natural means of individualization as the concepts studied can be easily geared to any level of sophistication within the same subject matter area. Individual needs will be met through material presented from various texts and xeroxed materials, laboratory study and individual projects

## **ABSENCES/TARDIES**

Due to the strong laboratory emphasis it is very important that students are present in class, on time. Excessive absences and tardiness will result in both a lowering of grade and loss of credit.