

Life Science A/B (P)

Prerequisites: Completion of Home Physical Science, AG 1 and AG 2, or General Science.

**Description of Target Group**

This course is designed for 10th, 11th, and 12th grade students.

**Purpose**

This course is designed to develop basic biological concepts with the non-science major in mind. This course will stress the cell as the basis of all life and variations in plants and animals in nature. The course will also identify basic ecological relationships between man and nature, causes of changes in organisms, reproduction, genetics, and human anatomy.

**Standards of Expected Student Achievement**

Upon completion of this course, students will be able to successfully demonstrate the following skills:

1. List and use the basic scientific tools and instruments.
2. Discuss ecological relationships and conservation of biological resources which may be used.
3. Identify basic trophic levels.
4. Explain the cell as the basis of all life.
5. Recognize the basic differences in plants and animals.
6. Work in a laboratory environment displaying proper technique.
7. Show knowledge of the structure and function of the human body.
8. Explain the process of reproduction.
9. Discuss heredity and genetics.
10. Use metrics as a system of weights and measures.
11. Gain the necessary tools to help them in their chosen fields by using the scientific method for solving problems.

**Instructional Materials**

Text and Supplementary Materials

Refer to: Secondary Adopted Texts and Approved Supplementary Books Used in the Santa Maria Joint Union High School District

**Activities**

Lab, discussion, films, video tapes, film strips, cassettes, laser discs, TV, computer, classroom participation, lectures, guest lecturers, demonstrations, field trips, and library.