

# Biology Course Outline

## I. General Information

- a. Course Title: Biology Instructor:
- b. Prerequisites : Completion or concurrent enrollment in Algebra 1.
- c. Grade Level: Sophomores, juniors and seniors. (9<sup>th</sup> graders must have completed Algebra 1)Course Summary : This University of California accepted course is designed for any student wishing to familiarize themselves with many of the basic principles of Biology as they apply to the natural and physical world around us.

## I. Course Content

Academic Content Standards	Q1	Q2	Q3	Q4
<b>Cell Biology</b>  1. The fundamental life processes of plants and animals depend on a variety of chemical reactions that occur in specialized areas of the organism's cells.	X	X		
<b>Genetics</b>  2. Mutation and sexual reproduction lead to genetic variation in a population.  3. A multicellular organism develops from a single zygote, and its phenotype depends on its genotype, which is established at fertilization.  4. Genes are a set of instructions encoded in the DNA sequence of each organism that specify the sequence of amino acids in proteins characteristic of that organism.  5. The genetic composition of cells can be altered by incorporation of exogenous DNA into the cells.		X	X  X  X  X	X    X  X