Course Prefix and Number: BIO 1  
Credits: 4

Course Title: Foundations of Biology

Course Description: Develops a basic understanding of plant and animal form, function, and relationships. Prepares students who have a deficiency in high school biology. Credits cannot be included in any of the college's academic program. Lecture 4 hours per week.

General Course Purpose: Prepares students who have a deficiency in high school biology.

Course Prerequisites and Co-requisites: None

Course Objectives: 
Upon completing the course, the student will be able to 
 a. List and understand the steps of the scientific method; 
 b. Describe the fundamentals of matter; 
 c. Complete a monohybrid cross and correlate it to the inheritance of traits; 
 d. Draw and label the components of prokaryotic and eukaryotic cells; 
 e. Explain the major tenets of natural selection; 
 f. Write a complete taxonomic classification for an organism; and 
 g. Describe all of the different types of habitats found on earth.

Major Topics to Be Included: 
 a. What is biology? 
 b. Chemistry 
 c. Cell biology 
 d. Genetics 
 e. Ecology 
 f. Evolution 
 g. Taxonomy

Effective Date of Course Content Summary: February 16, 2009