

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: BIO 106

Credits: 4

Course Title: Life Science

Course Description (including lecture hours, lab hours, total contacts)

Provides a topical approach to basic biological principles. Includes the scientific process, characteristics of living organisms, molecular aspects of cells, bioenergetics, cellular and organismal reproduction genetics, evolution, some human organ systems, and ecology. Designed for the non-science major. Credits in this course do not count toward the AS in Science degree options. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

General Course Purpose

This course provides a laboratory science class for non-science majors.

Course Prerequisites/Corequisites (*Entry-level competencies **required** for enrollment*)

Prerequisite: satisfactory scores on the reading and writing placement tests; students should not be enrolled in a remedial reading or writing course while enrolled in this course.

Course Objectives (Each item should complete the following sentence.)

Upon completing the course, the student will be able to:

- a. Use the scientific process to analyze problems.
- b. Understand the bioenergetics in his/her own life.
- c. Understand current reproduction and genetic topic.
- d. Realize the action of ecology on evolution.
- e. Apply scientific facts and scientific processes to life-long learning.
- f. Relate a knowledge of science and biology to other disciplines - social, political, ethical, business, and insurances issues.
- g. Think clearly and critically to become actively and intellectually involved, and relate materials to their own lives.
- h. Communicate ideas; gather, organize, and think critically about information; and apply the subject to other disciplines.

Major Topics to be Included

- a. Scientific process
- b. Bioenergetics
- c. Reproduction and genetics
- d. Evolution and ecology

Effective Date of Course Content Summary (Month, Date Year): 2/16/09