

BIO 110 Principals of Biology

COURSE DESCRIPTION:

Prerequisites: ENG 002, MAT 003 Tier 1

Corequisites none

This course provides a survey of fundamental biological principles for science majors. Emphasis is placed

biology as it applies to everyday life. Laboratory exercises are designed to illustrate biological principles and the scientific method. This course has been approved for transfer under the Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

Course Hours Per Week: Class, 3; Lab, 3; Semester Hours Credit, 4

LEARNING OUTCOMES:

Upon completing requirements for this course, the student will be able to

chemist

2. Explain or provide examples of evolution and biodiversity.
3. Formulate hypotheses, use appropriate techniques to test them and communicate their results.

OUTLINE OF INSTRUCTION:

Focus of instruction should be on application of these topics rather than memorization.

- I. Scientific Method and Hypothesis Testing
- II. Chemistry Biochemistry and Biological Molecules
- III. Central Dogma
- IV. Human Health
- V. Biodiversity
- VI. Evolution
- VII. Mendelian Genetics
- VIII. Biotechnology
- IX. Biological Modelling

REQUIRED TEXTBOOK