

**Common Course Number:** BSC-2011-L

**Course Title:** Principles of Biology II - Laboratory

**Catalog Course Description:**

This course is intended for majors students and complements the lecture course BSC 2011. As such, it functions to provide majors students with hands-on experience with laboratory exercises designed to complement the presentation of the principles of biology as they relate to evolution, biological diversity, form and function in plants and animals, ethology, ecology, and conservation biology.

**Credit Hours:** 2

**Prerequisites:** BSC 2010L

**Corequisites:** BSC 2011

**Course Competencies:**

**Competency 1:** Upon successful completion of this course, the student will demonstrate knowledge of the nature of evolution by:

- a. defining the concept of evolution according to natural selection.
- b. discussing the role of natural selection in the shaping of organismic populations.
- c. analyzing the effects of the directional, stabilizing, and diversifying modes of selection.
- d. analyzing the effect of manipulation of various biological and environmental parameters on organismic populations.
- e. describing the conditions in organismic populations that lead to extinction.