

BIOL 265L : Ecology and Evolutionary Biology Lab

Laboratory to accompany BIOL 265.

Credits 1

Lab Hours 3

Designation

DY

Recommended Preparation

ICS 101 or ICS 105B-E; or familiarity with spreadsheets, word processing, and Internet browsers.

Corequisites

BIOL 265; or consent of the instructor.

Course Outcomes

- Use the scientific method of inquiry to investigate ecological and evolutionary phenomena.
- Apply the concepts learned in BIOL 265 to an experimental and hands-on observational setting.
- Apply standard analytical procedures for the study of evolution and ecology. These include the following areas of study: experimental design and set-up; descriptive statistics and hypothesis testing; age structure of a natural population; sampling and describing population attributes; sampling, describing, and quantifying the flora, fauna, and relevant abiotic characteristics of a terrestrial habitat; plant competition; optimal foraging theory; sampling and describing community characteristics and functions; primary productivity; natural selection; colonization and adaptive radiation of Hawaiian flora and fauna; taxonomy, systematics, and phylogenetics.
- Collect, reduce, and interpret ecological and evolutionary data.
- Prepare written objective reports describing and interpreting experimental and observational results.