

BIOE - BIOLOGY: ECOLOGY

BIOE 202 Intro to Environmental Ecology. 3 Credits

Term Typically Offered: Spring

Prerequisite(s): BIOB 101 or BIOB 160.

Introduces interactions of organisms with each other and with their physical surroundings in the context of populations, communities, ecosystems, and landscapes. Emphasizes major global problems, energy resources, pollution, and sustaining biodiversity and ecological integrity.

Lecture Hours 3

Department: Sciences - Biology & Phys Sci

BIOE 370 General Ecology. 3 Credits

Term Typically Offered: Fall

Prerequisite(s): BIOB 160, BIOB 161.

Corequisite(s): BIOE 371.

Covers the concepts of evolution and ecology. Includes speciation, physiological, behavioral, population and community ecology as well as energetics and nutrient cycling.

Lecture Hours 3

Department: Sciences - Biology & Phys Sci

BIOE 371 General Ecology Lab. 1 Credit

Term Typically Offered: Fall

Corequisite(s): BIOE 370.

Includes laboratory exercises related to topics in BIOE 370.

Lab Hours 1

Department: Sciences - Biology & Phys Sci

BIOE 483 Evolution & Ecology. 3 Credits

Term Typically Offered: Spring (odd years)

Prerequisite(s): BIOE 370 and BIOE 371.

Corequisite(s): BIOE 484.

Examines advanced topics in evolutionary biology and ecology, focusing on critical discussion of theory and the literature. Content varies but topics may include mechanisms of evolutionary change, evolutionary genetics, sexual selection, evolutionary biogeography, coevolution, and evolutionary developmental biology among others.

Lecture Hours 3

Department: Sciences - Biology & Phys Sci

BIOE 484 Evolution & Ecology Lab. 1 Credit

Term Typically Offered: Spring (odd years)

Corequisite(s): BIOE 483.

Includes discussion of primary literature and computer simulations related to topics in BIOE 483.

Lab Hours 1

Department: Sciences - Biology & Phys Sci