

BIOO - BIOLOGY: ORGANISMAL

BIOO 320 General Botany. 3 Credits

Term Typically Offered: Spring

Prerequisite(s): BIOB 160 and BIOB 170, or consent of instructor.

Provides an overview of the foundational concepts of botany. Topics covered include anatomy, physiology, diversity, and ethnobotany.

Lecture Hours 3

Department: Sciences - Biology & Phys Sci

BIOO 321 General Botany Lab. 1 Credit

Term Typically Offered: Spring

Corequisite(s): BIOO 320.

Provides an experimental learning opportunity for topics covered in General Botany.

Lab Hours 3

Department: Sciences - Biology & Phys Sci

BIOO 433 Plant Physiology. 3 Credits

Term Typically Offered: Spring (odd years)

Prerequisite(s): BIOO 320.

Corequisite(s): BIOO 434.

Examines the physiological basis of plant survival, including water movement, mineral nutrition, gas exchange, solute transport, photosynthesis and environmental plant physiology. Includes physiological aspects of plant growth and development, including hormones, morphogenesis, biological clocks and plant responses to temperature. Integrates plant physiology from biochemical and physiological perspectives.

Lecture Hours 3

Department: Sciences - Biology & Phys Sci

BIOO 434 Plant Physiology Lab. 1 Credit

Term Typically Offered: Spring (odd years)

Corequisite(s): BIOO 433.

Includes exercises related to lecture topics in BIOO 433, with emphasis on the physiology of selected plants in Montana. Examines physiological aspects of plant growth, development and survival by acquainting students with a variety of methods used to investigate physiological processes in plants.

Lab Hours 1

Department: Sciences - Biology & Phys Sci

BIOO 435 Plant Systematics. 2 Credits

Term Typically Offered: Fall (even years)

Prerequisite(s): BIOO 320.

Corequisite(s): BIOO 436.

Includes systems and methods of plant classifications as well as collection, identification and preservation of the local flora.

Lecture Hours 2

Department: Sciences - Biology & Phys Sci

BIOO 436 Plant Systematics Lab. 2 Credits

Term Typically Offered: Fall (even years)

Corequisite(s): BIOO 435.

This laboratory complements the lecture material presented in the corequisite.

Lab Hours 2

Department: Sciences - Biology & Phys Sci

BIOO 450 Vertebrate Zoology. 3 Credits

Term Typically Offered: Spring (even years)

Prerequisite(s): BIOB 170 and BIOB 171.

Surveys the vertebrate classes, focusing on classification, morphology, physiology, ecology, behavior, and evolutionary history of each group.

Lecture Hours 3

Department: Sciences - Biology & Phys Sci

BIOO 451 Vertebrate Zoology Lab. 1 Credit

Term Typically Offered: Spring (even years)

Corequisite(s): BIOO 450.

Complements the lecture material presented in the corequisite, with an emphasis on identification of Montana vertebrates.

Lab Hours 1

Department: Sciences - Biology & Phys Sci