

BIOO - BIOLOGY: ORGANISMAL

<p>BIOO 412 Animal Physiology. 3 Credits Term Typically Offered: Fall (odd years) Prerequisite(s): BIOB 260. Includes a description of physiological processes in the major animal phyla. This course considers nervous and endocrine integration, electrolyte and fluid balance, gas exchange, movement, and energetics. Lecture Hours 3 Department: Sciences - Biology & Phys Sci</p>	<p>BIOO 438 Plant Development Lab. 1 Credit Term Typically Offered: Spring (even years) Prerequisite(s): BIOB 260. Corequisite(s): BIOO 437. Complements the lecture material presented in the corequisite with laboratory exercises emphasizing angiosperm development. Includes exercises on gametophyte development, embryology, and development of roots, leaves and stems. Lab Hours 1 Department: Sciences - Biology & Phys Sci</p>
<p>BIOO 433 Plant Physiology. 3 Credits Term Typically Offered: Spring (odd years) Prerequisite(s): BIOB 376, BIOE 370. 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</p>	<p>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</p>
<p>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</p>	<p>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</p>
<p>BIOO 435 Plant Systematics. 2 Credits Term Typically Offered: Fall (even years) Prerequisite(s): BIOB 170 and BIOB 171. 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</p>	
<p>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</p>	
<p>BIOO 437 Plant Development. 3 Credits Term Typically Offered: Spring (even years) Prerequisite(s): BIOB 260. Provides an in-depth exploration of reproductive and developmental patterns in plants. Covers embryonic and postembryonic developmental processes, emphasizing cellular differentiation, generation of form and shape, growth regulation, developmental control mechanisms, genetic and molecular control of development. Lecture Hours 3 Department: Sciences - Biology & Phys Sci</p>	