

Botany (BOT)

Course information contained within the Bulletin is accurate at the time of publication in June 2025 but is subject to change. For the most up-to-date course information, please refer to the Course Catalog.

BOT 1111. General Botany. 4 Credit Hours.

Sexual, structural, and vegetative characteristics of bacteria, algae, fungi, nonvascular and vascular plants. An emphasis is placed on angiosperm (flowering plant) diversity, anatomy, morphology, phylogeny, and ecology. The course explores the importance of plants and the impact of people on our plant communities. NOTE: This course can be used to satisfy the university Core Science & Technology First Level (SA) requirement. To determine if this course in combination with another course can satisfy the GenEd Science & Technology requirement, see your advisor.

Course Attributes: SA

Repeatability: This course may not be repeated for additional credits.

BOT 1112. Plant Ecology. 3 Credit Hours.

The structure and function of plants are studied in relationship to their fit into the environment. The interaction of plants with each other and with their environment through study of natural and artificial systems, including wetlands, meadows, forests, deserts, disturbed sites, and managed landscapes.

Course Attributes: SE, SF

Repeatability: This course may not be repeated for additional credits.

BOT 2121. Plant Physiology. 4 Credit Hours.

An introduction to the major topics and concepts of plant physiology. Discusses the structure and functions of the different parts of a plant. Focuses on water and nutrition, biochemistry and metabolism, and growth and development of plants. NOTE: This course can be used to satisfy the university Core Science & Technology Second Level (SB) requirement.

Course Attributes: SB

Repeatability: This course may not be repeated for additional credits.

Pre-requisites: Minimum grade of D- in ((BOT 1111 and CHEM courses numbered 1021 to 1024) or BIOL courses numbered 1011 to 1012)

BOT 2156. Plant Genetics and Diversity. 3 Credit Hours.

Genetics of plants, including Mendelian and extranuclear genetics, quantitative genetics, and population genetics. The course also considers the basis for, and significance and preservation of plant genetic diversity. The course considers man's impact on plant genetic diversity, including plant extinction, conservation, breeding, and biotechnology.

Repeatability: This course may not be repeated for additional credits.

Pre-requisites: Minimum grade of D- in (BOT 1111 and CHEM courses numbered 1021 to 1024)

BOT 3122. Applied Plant Physiology. 3 Credit Hours.

Highlights the major environmental factors that affect plant growth and development and explores ecologically sound approaches to solving stress-related problems. Focuses on techniques for designing experiments to examine the impact of environmental stress on the growth and development of a plant, and on techniques for manipulating a microenvironment in the production of horticulture crops.

Course Attributes: SI

Repeatability: This course may not be repeated for additional credits.

Pre-requisites: Minimum grade of D- in BOT 2121.

BOT 3166. Plant Taxonomy. 3 Credit Hours.

Systematic botany, evolutionary relationships of angiosperm families. Identification, classification, and nomenclature based on analysis of plant structure, genetics, physiology, and ecology. Identification of local native flowering plants; preparation of preserved specimens.

Repeatability: This course may not be repeated for additional credits.

Pre-requisites: Minimum grade of D- in BOT 1111.