

BIOL117C : Introduction to Plant Biology

An introduction to the structure and physiology of plants at the molecular, cellular, and organismal levels; survey of major plant groups and their evolutionary relationships; and the relationships of plants to humans and other organisms.

Credits 4

Lab/Practicum/Clinical Hours 2

Lecture Hours 3

Prerequisites

Students must pass all prerequisite courses with a grade of C or higher.

- High school biology with lab or BIOL 100C

BIOL100C

Learning Outcomes

Upon completion of this course, students will:

1. Explain the classification of plants and differentiate between biomes.
2. Identify the structure and function of plant stems, roots, cells, tissues, and organelles.
3. Compare and contrast monocot, dicot, ferns, gymnosperms, bryophytes, seed and seedless plants, and other woody plants.
4. Define diffusion, osmosis, and explain how plants can transport and communicate between cells.
5. Describe photosynthesis and respiration by plants.
6. Evaluate the role of fungi and soil type for plant growth.