

BOTN – BOTANY

BOTN 205

Fundamentals of Plant Biology

3 Credits Weekly (3-3-0)

This course is an overview of the biodiversity, evolution and life cycles of organisms in the Plant Kingdom (bryophytes, seedless vascular plants, gymnosperms and angiosperms). The course examines plant morphology and anatomy, with a focus on angiosperms. Examples of native and invasive species are used to apply knowledge of plant morphology to species identification and to explore ecological concepts. Emphasis throughout the course is on the relationship between plant form and function.

Prerequisites: Minimum grade of C- in BIOL 108.

BOTN 305

Plant Responses and Interactions

3 Credits Weekly (3-3-0)

This course explores the complex responses of plants to their environment and the physiological mechanisms that make the interaction between plants and other organisms possible. Topics include plant sensory systems and responses, movement in plants, symbiotic relationships, plant-pollinator interactions, and plant defense mechanisms. The laboratory introduces experimental techniques used in studying plant growth responses. Students develop skills in planning and carrying out experiments independently and gain experience in the critical evaluation, analysis, and effective communication of data.

Prerequisites: A minimum grade of C- in BIOL 208 or in BOTN 205.