



## SCI 115: Science and Care of Plants

This course is an introduction to the basic principles of plant science (structure, function, growth requirements, etc.) as a basis for consideration of topics of greater practical interest (e.g., horticultural techniques, uses of plants, identifying plants, landscaping). Three lecture hours and two laboratory hour per week. Instructional Support Fee applies. Gen. Ed. Competencies Met: Scientific Reasoning and Discovery.

### Course Student Learning Outcomes

1. Apply the scientific method to address observations and problems. 2. Identify and describe the common uses of plants by people. 3. Describe biological systematics and taxonomic organization of plants. 4. Compare and contrast the major families of cultivated plants, utilizing dichotomous keys and other tools in plant identification. 5. Describe, and illustrate the gross and microscopic morphological structures of plants. 6. Classify and describe the different kinds of flowers, fruits, and seeds. 7. Explain the physiology of plants, including reproduction, photosynthesis and cellular respiration. 8. Conduct and interpret physical and chemical soil analysis and apply the principles of soil science to plant production.

**Credits:** 4

**Program:** Science