

General Course Information

Course Name: Botany	
Department: Science	Grade Level(s): 11,12
Duration/Credits: Semester/0.5	Prerequisites: Successful completion of Biology or Honors Biology.
BOE Approval Date:December 2022	Course Code: H3200
Course Description:	
<p>Botany is a course providing advanced study of plant structure and function. It applies botanical knowledge to horticultural procedures dealing with plant identification, plant propagation, and plant growth. This course will provide the student with the skills and tools necessary to apply scientific knowledge to the growing of plants.</p>	
Course Rationale:	
<p>In a world filled with the products of scientific inquiry, scientific literacy is a necessity for everyone in order to use scientific information to make wise choices. Today, the job market demands advanced skills, requiring people to be able to learn, reason, think creatively, make decisions, and solve problems. An understanding of science and the processes of science contribute in an essential way to these skills.</p>	
Course Objectives:	
<ol style="list-style-type: none">1. The student will analyze the information provided by labels designed to categorize plants. Locally assessed. (SC3; 1.4, 1.6)2. The student will write about the connection between a specific plant structure and its function. Locally assessed. (SC4, SC7, 1.4, 1.8, 3.5) (A+: Writing)3. The student will evaluate the role of water in plants. Locally assessed. (SC3, 4, 8; 1.3, 1.4, 4.1)4. The student will conduct research and evaluate the use of vegetation propagation to increase plant numbers. Locally assessed. (SC3, 7; 1.3, 3.2, 4.1) (A+: Research)5. The student will verbally discuss and evaluate pollination methods practiced by flowering plants. Locally assessed. (SC3, 4, 7; 1.6, 1.8, 3.5) (A+: Speaking)6. The student will read about and compare methods of seed propagation and requirements for seed germination. Locally assessed. (SC3, 7; 1.6, 1.8, 3.2) (A+: Reading)	