Program Planning Guide

Ecological Landscaping Certificate (C15410EL)

Program Length: 2 semesters
Program Sites: Chatham Main Campus
Career Pathway Options: Associate in Applied Science Degree in Sustainable Agriculture, Certificate in Ecological Landscaping

Suggested Course Schedule		Class	Lab	Work	Credits	Notes:
1st Semester (fall)						
HOR 156	Intro to Ecological Landscaping	3	0	0	3	
HOR 168	Plant Propagation	2	2	0	3	
LSG 121	Fall Gardening Lab	0	6	0	2	
	Total Semester Hours	**5**	**8**	**0**	**8**	
2nd Semester (spring)						
AGR 121	Biological Pest Management	3	0	0	3	
AGR 160	Plant Science	2	2	0	3	
HOR 112	Landscape Design I	2	2	0	3	
	Total Semester Hours	**7**	**4**	**0**	**9**	
Total Semester Hours Credit Required for Graduation: 17						

Effective Term: 2025FA

Course Descriptions

AGR 121 Biological Pest Mgmt
This course will emphasize the building and maintaining of healthy soil, plant, and insect biological cycles as the key to pest and disease management. Course content includes study of major pests and diseases, including structure, life cycle, and favored hosts; and biological and least toxic methods of chemical control. Upon completion, students should be able to identify and recommend methods of prevention and control of selected insects and diseases.

AGR 160 Plant Science
This course introduces the basic principles of botany that pertain to agricultural production. Emphasis is placed on the anatomy and physiology of flowering plants. Upon completion, students should be able to identify and explain plant systems.

HOR 112 Landscape Design I
This course covers landscape principles and practices for residential and commercial sites. Emphasis is placed on drafting, site analysis, and common elements of good design, plant material selection, and proper plant utilization (encouraged use of native plants and discouraged use of invasive species). Upon completion, students should be able to read plans and draft a landscape design according to sustainable practices.

HOR 156 Intro to Eco Landscaping
This course introduces the environmental, social, economic and regulatory aspects of ecological landscaping and land stewardship practices. Topics include the shift to functioning landscapes, ecosystem services, and natural communities with strong emphasis on emerging career opportunities. Upon completion, students should be able to identify the principles of landscaping centered on positive ecological outcomes.

HOR 168 Plant Propagation
This course is a study of sexual and asexual reproduction of plants. Emphasis is placed on seed propagation, grafting, stem and root propagation, micro-propagation, and other propagation techniques. Upon completion, students should be able to successfully propagate ornamental plants.