

Common Course Outline
HORT 127
Introduction to Sustainable Horticulture
3 credits

Community College of Baltimore County

Description

HORT 127 - 3 credits - Introduction to Sustainable Horticulture works from a definition of sustainability, “land practices that meet the needs of the present without compromising the ability of future generations to meet their own needs”. Principles and practices of horticulture are presented. Sustainable practices, emerging technologies and their applications are examined.

3 credits; 2 lecture hours and 2 laboratory hours per week

Prerequisites: ACLT 052

Overall Course Objectives

Upon completion of this course the student will be able to:

1. describe non-sustainable horticultural practices and their effects upon the environment;
2. describe sustainable horticultural practices and their effects upon the environment;
3. identify case studies of sustainable sites and their objectives;
4. research emerging technologies in horticulture and explain their applications;
5. apply practices of sustainability to a horticulture setting;
6. explain how basic horticultural practices can be used in a sustainable manner;
7. develop planting lists of both ornamental and vegetable plants that support sustainable horticulture;
8. describe and contrast practices such as organic farming, biodynamics and permaculture;
9. develop strategies for the implementation of the above practices in horticultural environments;
10. compare the economics and benefits of sustainable practices in horticulture;
11. describe the application of sustainable practices to commercial horticultural areas such as greenhouses and nurseries; and
12. describe strategies on how sustainable practices can be used and implemented in developing countries.

Major Topics

- I. Differences and effects of sustainable and non-sustainable horticultural practices
- II. Implementation of sustainable practices
- III. Emerging technologies in sustainable horticulture
- IV. Planting lists that support sustainable horticulture
- V. Application of sustainable practices to commercial areas as well as global applications

Course Requirements:

Grading/exams: Grading procedures will be determined by the individual faculty member but will include the following:

1. Three (3) Exams and Final Exam
2. Property Sustainability Plan
3. Participation

Other Course Information

This course is a Horticulture Program core course required for the Horticulture A.A.S. Degree.

It is also a required course for the following Horticulture Certificates:

Greenhouse Management
Turf and Landscape Management
Landscape Design and Installation

Date: 05/25/2011