

Common Course Outline

HORT 103

Interior Plant Material

2 Semester Hours

The Community College of Baltimore County

Description

Interior Plant Material

Studies the common indoor plant materials used for interiorscaping; emphasis will be placed on the proper identification, use, and care of interior plants.

Prerequisite: (RDNG 051 or LVR 1)

Overall Course Objectives

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

- A. given a list of interior plants, identify them by their botanical and common names.
- B. differentiate between plant division, genus, species, and subdivision of species and hybrid.
- C. identify the two types of root systems that function as major storage organs.
- D. differentiate between xylem and phloem and explains the role each plays in the growth of plants.
- E. identify the following when presented with a diagram of a vascular plant: terminal bud, branch or stem, flower, node, internode, and auxiliary bud.
- F. define light intensity, duration and quality in relationship to culturing healthy plants.
- G. using a light meter, measure the light intensity in a specified location and record your findings. Identify the source of light.
- H. define foot candles. Explain their relationship to plant development.
- I. differentiate between incandescent and florescent lighting and describe the procedure for combining the two in relationship to fulfilling the lighting requirements of plants.
- J. explain the acclimatization process and its relationship to maintaining healthy plants.
- K. identify the symptoms of plants exposed to excessive light and recommend a solution to counteract this disorder.
- L. state the relationship of temperature control to the growing process of plants.
- M. define photosynthesis and list three end products of this growth process.
- N. explain the process of transpiration and its effect on plant growth.
- O. define the respiration process and state the factors that influence the rate of respiration.
- P. explain the role of humidity in the process of transpiration.
- Q. explain the functions of the soil in relationship to the plant's life process.
- R. name the three major nutrients used by plants, and describe their usefulness in the growth process.
- S. explain the importance of water in the life processes of plants.
- T. describe techniques used to determine when plants need water.
- U. given plant specimens infested with a common insect, identify the pest and prescribe the recommended control.
- V. presented with a list of insects common to interior plants, describe the damage this insect inflicts on the plant.
- W. given a list of plants diseases, identify symptoms and make recommendations for control.
- X. identify the symptoms of plants in need of repotting.

Major Topics

1. Plants Common to an Interior Environment
2. Plant Structures
3. Growth and Development
4. Plant Care
 - a. Growing Conditions
 - b. Acclimation
 - c. Planters
 - d. Growing Media
 - e. Fertilizers
 - f. Maintenance
5. Pests and Disorders
 - a. Diseases
 - b. Most Common Insects
 - c. Disorders
6. Propagation
 - a. Methods of Asexual Propagation
7. Special Interest Plantings
 - a. Planters Most Commonly Sold by Florists
 - b. Hydroponic
8. Special Services Available

Course Requirements

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

1. Weekly Lecture Identification and Written Quiz
2. Mid-Term Identification Exam
3. Final Identification Exam
4. Attendance and Participation

Date Revised: 09/28/00