

Section I: Course Description

[Print Outline](#)

Department: Landscape Horticulture (LHO)

Division: Hospitality and Service Occupations

Curriculum: Landscape and Environmental Horticulture

Revision: V. Bobbitt

Course Title: Plant Problem Diagnostics

Effective Date: December 2000

Course Number: LHO210

Status: Active

Type Of Course: Vocational Preparatory

Course Length: 1 Quarter

Credit Hours: 3

Lecture Hours: 22

Lab Hours: 22

Class Size: 25

Prerequisites: LHO 109 or permission of instructor

Course Description

Learn to diagnose and manage plant problems: insect, disease, cultural, and environmental maladies. This course will stress a total plant health care approach that utilizes cultural, biological, and chemical strategies.

Section II: Student Learning Outcomes

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Student Learning Outcomes

1. Communication—Read and listen actively to obtain and communicate and communicate information. Speak and write effectively to make recommendations for managing plant problems.
2. Human Relations—Use social interactive skills to work effectively in groups.
3. Critical Thinking and Problem Solving—Use critical thinking to examine, diagnose and develop solutions to plant problems.
4. Technology—Select and use plant diagnostic and integrated pest management resources available on the world wide web.
5. Personal Responsibility—As it relates to pest management issues, value one's own skills, take pride in one's work, manage personal health and safety, and be aware of civic and environmental issues.
6. Information Literacy—Access and evaluate pest/problem management information from a wide variety of sources and contexts, including the world-wide web, CD-ROMs, reference books, trade and professional publications, Cooperative Extension resources, and research journals.

Section III: Course Objectives

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General Course Objectives

At the end of the course the student will:

1. Diagnose plant health problems using a systematic approach.
2. Provide written prescriptions for plant health care problems using a variety of reference materials.
3. Recognize signs and/or symptoms of common plant pests (insects, mites, mollusks, disease organisms, vertebrate pests).
4. Recognize symptoms of common abiotic problems.
5. Recognize and understand basic biology of common insect pests.
6. Recognize and understand basic biology of common plant disease organisms.
7. Be familiar with a variety of pest management products and tools.
8. Develop a written plant health care plan and explain it verbally to "customers."
9. Be able to communicate with customers about plant health care issues.

Section IV: Course Outline

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Topical Course Outline

Topical Outline:	Approx. Hours
I. Safety and environmental issues	3
II. Diagnostic process	3
III. Use of reference materials	2
IV. Abiotic pest problems	3
V. Insect pest problems	3
VI. Plant diseases	3
VII. Pest management tools, products & strategies	3
VIII. Communicating with clients	2
VIII. Hands-on application and skill development	22
Total	44