

Section I: Course Description

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Department: Landscape Horticulture (LHO)

Division: Hospitality and Service
Occupations

Curriculum: Landscape and Environmental
Horticulture

Revision: S. Skamser

Course Title: Plant Propagation

Effective Date: June 2000

Course Number: LHO215

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 111 suggested

Course Description

Learn the art and science of plant propagation by seed, cuttings, division and grafting.

Hands on instruction and field trips to plant production facilities.

Section II: Student Learning Outcomes

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Student Learning Outcomes

1. Human Relations - Use social interactive skills to work in lab groups effectively.
2. Critical Thinking and Problem Solving - Think critically in evaluating growth and development of propagation material (propagules). Continually assess and solve any problems that arise.
3. Technology - Learn to work with environmental controls for propagation of plant materials.
4. Information Literacy - Access propagation methods and systems and evaluate information from a variety of sources. Continual research is critical in plant propagation.

Section III: Course Objectives

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General Course Objectives

At the end of the course the student will be able to:

1. Develop the proper procedures to modify the total plant environment.
2. Develop skills in the production and maintenance of plant materials.

3. Develop specific techniques in the growing and handling of exterior plant materials.
4. Have an introductory understanding of the culture and care of greenhouse plants.
5. Develop proper safety techniques in the handling of tools, equipment and facilities.
6. Understand the importance of proper sanitation practices and procedures.

Section IV: Course Outline

Topical Course Outline

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Topical Outline:

	Approx. Hours	
I. Introduction and scope of course	1	
II. Structures	1	
III. Media and containers	2	
IV. Seeds - development, selection and handling	3	
V. Propagation by seed - principles and techniques	3	5
VI. Vegetative propagation - principles and techniques	3	
VII. Cuttings	10	
VIII. Layering and division	3	
IX. Specialized stems and roots	4	
X. Grafting	3	
XI. Transplanting and potting up	3	
XII. Field trips to local growers and propagators	6	
Total	44	