

COURSE OUTLINE**Revision:** S. Skamser May 2008

DEPARTMENT:	Hospitality and Service Occupations
CURRICULUM:	Landscape and Environmental Horticulture
COURSE TITLE:	Plant Propagation
COURSE NUMBER:	LHO 215
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.

*Learn the art and science of plant propagation by seed, cuttings, **and** division. **Examine the art of grafting.** Hands on instruction and field trips to plant production facilities.*

Student Learning Outcomes Addressed:

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.

**LHO 215 Plant Propagation
May 2008**

General Course Objectives:

At the end of the course the student will:

1. *Understand the various controlled environments utilized to propagate and grow exterior plant materials.*
2. *Understand the 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 *plants in the greenhouse.*
5. *Understand* proper safety techniques in the handling of tools, equipment and facilities.
6. Understand the importance of proper sanitation practices and procedures.
7. *Understand the*

Topical Outline:

	<u>Approx. Hours</u>
I. <i>Introduction to propagation</i>	1
II. <i>Greenhouse practices and procedures</i>	2
III. Structures	2
IV. Media and containers	2
V. Seeds – development, selection and handling	3
VI. Propagation by seed – principles and techniques	5
VII. Vegetative propagation – principles and techniques	3
VIII. Cuttings	10
IX. Layering and division	3
X. Specialized stems and roots	3
XI. <i>Grafting overview</i>	2
XII. <i>Transplanting and growing on.</i>	2
XIII. Field trips to local growers and propagators	6
Total	44

Revised by: Sarah Skamser
Date: May 2008