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.
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:**

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

Total 44

Revised by: Sarah Skamser
Date: May 2008