

COURSE OUTLINE**Revision:** S. Skamsner, May 2008

DEPARTMENT:	Hospitality and Service Occupations
CURRICULUM:	Landscape and Environmental Horticulture
COURSE TITLE:	Greenhouse Operations
COURSE NUMBER:	LHO 111
TYPE OF COURSE:	Vocational Preparatory
COURSE LENGTH:	1 Quarter
CREDIT HOURS:	3
LECTURE HOURS:	22
LAB HOURS:	22
CLASS SIZE:	25
PREREQUISITES:	None

Course Description:

Introduction to greenhouse operations and systems, including production practices, maintenance methods and environmental control systems. Laboratory course work involves propagation and maintenance of in the school greenhouse. An industry overview through field trips to local production greenhouses.

Introduction to greenhouse operations and systems, including production practices, and environmental control systems. Propagation of, and growing on, plant materials. Discussion of sustainable greenhouse methods. An industry overview through field trips to local production greenhouses.

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Student Learning Outcomes Addressed:

1. Communication – Read and listen actively to learn and communicate. Speak and write effectively to present and share information from research projects to other students. Speak and write effectively for personal, academic and career purposes.
2. Human Relations – Use social interactive skills to work in lab groups effectively toward common goals.
3. Critical Thinking and Problem Solving – Think critically evaluating information, solving problems and making decisions to maximize plant growth and development.
4. Technology – select and use appropriate technological tools for continued growth in personal, academic and career tasks.
5. Personal Responsibility – Use personal work ethic to complete work in greenhouse lab. Value one's own skills, abilities, ideas and art and apply them to coursework. Take pride in one's work. Manage personal health and safety in the greenhouse environment. Be aware of civic and environmental issues.
6. Information Literacy – Access and evaluate information from a variety of sources and contexts for personal, academic and career advancement.

General Course Objectives:

At the end of the course the student will:

1. Understand the use of environmental control systems to maximize plant growth and development.
2. Understand the methods of propagating and maintaining a greenhouse crop.
3. Have insight into the greenhouse production area of horticulture.
4. *Have an awareness of sustainable greenhouse practices in use currently within the industry.*
5. *Have and awareness of the relationship between greenhouse use and the environmental footprint.*
6. Have visited different types of production greenhouses.
7. Have acquired safety, leadership and work ethics knowledge.

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Topical Outline:

	<u>Approx. Hours</u>
I. Introduction to greenhouse industries (includes field trips)	6
II. <i>Greenhouse practices and procedures</i>	2
III. <i>The greenhouse and the environment</i>	2
IV. Growing structures	3
V. Media and containers	3
VI. Sanitation practices	1
VII. Propagation techniques	7
VIII. Maintenance practices	6
IX. Environmental factors and plant growth	6
X. Pest management <i>systems</i>	3
XI. Environmental control systems	<u>6</u>
Total	44

Revised by: Sarah Skamser
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