

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: Greenhouse Operations

Effective Date: June 2000

Course Number: LHO111

Status: Active

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 in the school greenhouse. Industry overview through field trips to local production greenhouses.

Section II: Student Learning Outcomes

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Student Learning Outcomes

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.

Section III: Course Objectives

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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 visited different types of production greenhouses.
5. Have acquired safety, leadership and work ethics knowledge.

Section IV: Course Outline

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Topical Course Outline

Topical Outline:

	Approx. Hours
I.	Introduction to greenhouse industries (includes field trips)
II.	Growing structures
III.	Media and containers
IV.	Sanitation practices
V.	Propagation techniques
VI.	Maintenance practices
VII.	Environmental factors and plant growth
VIII.	Pest management
IX.	Environmental control systems

Total