



Central  
North  
South  
SVI

## LHO150 - Horticulture Science

Document Type: District Master Course Outline

Proposal Type: Revision

Requester(s): Robert Glatt Sarah Skamser

College: South

Origination Approved: 03/17/2014 - 4:08 PM

### BASIC INFORMATION

**Requester(s):** Robert Glatt  
Sarah Skamser

**College:** South Seattle Community College

**Division/Dept:** Professional Technical

**Dean:** Robert Glatt

**Peer Reviewer(s):** Van M Bobbitt  
Aaron Burman  
Steve Hilderbrand

### COURSE INFORMATION

**Proposed Course Number:**

Prefix: **LHO**                      Number: **150**

Request a new Prefix

This will be a common course

**Full Title:** Horticulture Science

**Abbreviated Title:** Horticulture Science

**Catalog Course Description:**

Discover the basic principles of plant anatomy and physiology, growth and development, adaptations, and plant-soil-water relations. Exploration of ecology, people, plants and the environment as they relate to horticulture.

**Course Length:** 11 Weeks                       Request an Exception

**Course Prerequisite(s):**

None

**Course Corequisite(s):**

None

**Topical Outline:**

Topical Outline:	Hours
I. Plant binomial nomenclature	2
II. Plant classifications for horticulture	1

III. Gross morphology and functions of roots	2
IV. Gross morphology and functions of stems	3
V. Gross morphology and functions of flowers, fruits & seeds	3
VI. Basis of plant life	1
VII. Basics of cells and tissues	1
VIII. Tissue patterns in roots, stems and leaves	3
IX. Internal pathways of water, mineral nutrients & manufactured foods	2
X. Ecology	3
XI. Plant adaptations	3
XII. Plant - water relations	2
XIII. Plant metabolism	2
XIV. Control of growth and development	2
XV. Environment and plant growth	2
XVI. Horticulture industry and the environment	1
<b>Total</b>	<b>33</b>

**COURSE CODING**

**Funding Source:** 1.....State

**Institutional Intent:** 21.....Vocational Preparatory

This Course is a requirement for the following program(s):  
(No Programs Selected)

My Course Proposal is a requirement for a program not on this list  
Program Title/Description/Notes:  
One year LHO certificate (all Tracks), AAS, AAS-T

**Will this course transfer to a 4-year university? **No****

**Is this course designed for Limited English Proficiency? **No****

**Is this course designed for Academic Disadvantaged? **No****

**Does this course have a Workplace Training component? **No****

**CIP Code:** 01.0601  Request Specific CIP Code

**EPC Code:** 135  Request Specific EPC Code

**Credits:**

**Will this course be offered as Variable Credit?** No  
**No**

**List Course Contact Hours**

Lecture (11 Contact Hours : 1 Credit) 33

Lab (22 Contact Hours : 1 Credit) 0

Clinical Work (33 Contact Hours : 1 Credit)	0
Other (55 Contact Hours : 1 Credit)	0
Total Contact Hours	33
Total Credits	3

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## COLLEGE SUPPLEMENTAL

**Proposed Quarter of Implementation:** Fall 2014

Request Provisional Exception

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**Class Capacity:** 25

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**Modes of Delivery:** (Check all that apply)

- Fully On Campus  
 Fully Online  
 Hybrid  
 Other Explanation:

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**Class Schedule Description:**

Discover the basic principles of plant anatomy & physiology, growth & development, adaptations, and plant-soil-water relations. Exploration of ecology, people, plants and the environment as they relate to horticulture.

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**Student Learning Outcomes:**

**Communication**

Speak and write effectively for academic and career purposes

**Human Relations**

Use social interactive skills to work in groups effectively

Use social interactive skills to work with other students on in class assignments.

Have knowledge of the diverse cultures represented in our multicultural society

**Critical Thinking and Problem-Solving**

Think critically in evaluating information, solving problems, and making decisions

Think critically evaluating information, solving problems and making decisions. Think critically about plant process to evaluate plant growth and solve plant problems.

**Technology**

Select and use appropriate technological tools for academic and career tasks

**Personal Responsibility**

Uphold the highest standard of academic honesty and integrity

Respect the rights of others in the classroom, online and in all other school activities

Be aware of civic and environmental issues in the field of horticulture and their importance.

Attend class regularly, complete assignments on time and effectively participate in classroom and online discussions, group work and other class-related projects and activities

Abide by appropriate safety rules in laboratories, shops and classroom

**Information Literacy**

Independently access, evaluate and select information from a variety of appropriate sources

Have knowledge about legal and ethical issues related to the use of information

Use information effectively and ethically for a specific purpose

**Program Outcomes:**

<b>Included in Course Outcome Number</b>	<b>Landscape Design and Construction Certificate Program Outcomes</b>
4, 5	1. Demonstrate ability to work with site requirements, installation contractors, clients, and maintenance personnel to accomplish project within prescribed time, resources, and budgets. (SLO 1.1, 2.1, 3.1, 3.2, 4.1, 6.2, 6.4, 6.5, 7.1)
6, 7, 8	2. Recognize, identify, and operate work site safety practices, environmental protection, workplace standards, work ethics, and leadership skills. (SLO 1.2, 3.1, 3.2, 6.1, 6.4, 6.5)
	3. Prepare and generate required plans and documents for customers, co-workers, suppliers, and general public and effectively communicate desired outcomes and actions. (SLO 1.2, 2.3, 3.1, 3.2, 5.1)
	4. Describe and outline career opportunities, pathways, and requirements for entry and advancement within the field. (SLO 1.2, 4.1, 5.1, 6.2, 6.3, 7.2)
	5. Describe and demonstrate skills in use of equipment, tools, environmental controls, and computers. (SLO 1.2, 5.1, 6.2, 6.4, 6.5)

<b>Included in Course Outcome Number</b>	<b>Landscape Design and Construction Degree (AAS, AAS-T) Program Outcomes</b>
1, 3, 4, 7, 8	6. Create and develop a plan after conferring with client and assessing the client and site needs, and demonstrate critical thinking skills to reconstruct or modify design according to environmental and human resources, codes or regulations, and or budgetary concerns. (SLO 1.2, 2.3, 3.1, 3.2, 4.1, 5.1, 6.2, 6.5, 7.2)
7	7. Plan progression and determine cost to construct hardscape and install plants according to plan. (SLO 1.2, 2.2, 2.3, 4.1, 5.1, 6.4, 6.5)

2, 3, 5, 6, 7, 8	8. Demonstrate ability to analyze a given site, develop a maintenance schedule and plan, identify and solve problems, and estimate to manage for cost efficiency. (SLO 1.2, 2.2, 2.3, 4.1, 5.1, 6.5,7.2)
7, 8	9. Discuss and practice sound business practices as it relates to planning operations, budgets, personnel, customer service, and sales and marketing. (SLO 1.1, 1.2, 2.3, 3.1, 3.2, 4.1, 5.1, 6.1, 6.4, 6.5, 7.2)

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**Course Outcomes / Objectives:**

1. Describe the basics of binomial nomenclature.
2. Distinguish between common plant classifications applicable to horticulture.
3. Summarize the basis of plant life and it's relation to working with plants.
4. Describe and identify basic plant anatomical structures with an understanding of modifications for adaptability.
5. Identify plant structures for plant identification, pruning and propagation.
6. Describe how plant ecology concepts apply to plant growth and development.
7. Give examples of how plants interact with their environment.
8. Discuss environmental issues and their relation to the horticulture industry.

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**Explain the student demand for the course and potential enrollment:**

This is required for all students earning a one year certificate, and a two year AAS (and AAS-T) degree.

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**Explain why this course is being revised:**

Corrections to the description, and student learning outcomes. The issue with SLO's is they are for the final results of the program and this course is part of most of them, yet there is no way to connect it specifically.

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**What challenges, if any, do you foresee in offering this course:**

None. This is an ongoing course, that has been offered for over 20 years.

This is to certify that the above criteria have all been met and all statements are accurate to the best of my knowledge.

Faculty involved in originating this program:

Robert Glatt

Print Name

*Robert Glatt*

Signature

1/1/0001

Date

Sarah Skamser

Print Name

*Sarah Skamser*

Signature

1/1/0001

Date

Dean:

Karen L Whitney (Admin)

Print Name

*Karen L Whitney*

Signature

10/15/2013

Date

### Results of SSCC Curriculum Coordinating Council Findings

#### Participating Faculty Response and Remarks

Recommended for approval

Not recommended for approval

Chairman, Curriculum Coordinating Council:

Diane Schmidt

Print Name

*Diane Schmidt*

Signature

3/11/2014

Date

Vice President for Instruction:

Donna Miller-Parker

Print Name

*Donna Miller-Parker*

Signature

3/17/2014

Date