



## LHO109 - Integrated Pest Management

Document Type: District Master Course Outline

Proposal Type: Revision

Requester(s): Robert Glatt Van M Bobbitt

College: South

Origination Approved: 03/17/2014 - 3:54 PM

### BASIC INFORMATION

**Requester(s):** Robert Glatt  
Van M Bobbitt

**College:** South Seattle Community College

**Division/Dept:** Professional Technical

**Dean:** Robert Glatt

**Peer Reviewer(s):** Aaron Burman  
Steve Hilderbrand  
Sarah Skamser

### COURSE INFORMATION

**Proposed Course Number:**

Prefix: **LHO**

Number: **109**

Request a new Prefix

This will be a common course

**Full Title:** Integrated Pest Management

**Abbreviated Title:** Integrated Pest Managemt

**Catalog Course Description:**

Principles of integrated pest management (IPM). Covers pesticide laws, health and environmental concerns, and how to develop an IPM plan. Helps prepare students for the WSDA pesticide license exam.

**Course Length:** 11 Weeks

Request an Exception

**Course Prerequisite(s):**

None

**Course Corequisite(s):**

None

**Topical Outline:**

- |                                                                     |     |
|---------------------------------------------------------------------|-----|
| I. Introduction to plant health care and integrated pest management | 3   |
| II. Pesticide laws                                                  | 3   |
| III. Pesticide formulations                                         | 1.5 |
| IV. Pesticide labels-reading and interpreting                       | 1.5 |

V. Pesticide health and safety issues	4.5
VI. Pesticides and the environment	3
VII. Insects and other arthropod pests	1.5
VIII. Insecticides, miticides and biological control	3
IX. Plant diseases	1.5
X. Plant disease management principles and fungicides	1.5
XI. Pesticide application principles and calculations	3
XII. IPM plans: research, write and present	6
Total	33

**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

COLLEGE SUPPLEMENTAL

**Proposed Quarter of Implementation:**

Request Provisional Exception

**Class Capacity:** 25

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

- Fully On Campus
- Fully Online
- Hybrid
- Other Explanation:

**Class Schedule Description:**

Principles of integrated pest management (IPM). Covers pesticide laws, health and environmental concerns, and how to develop an IPM plan. Helps prepare students for the WSDA pesticide license exam.

**Student Learning Outcomes:**

**Critical Thinking and Problem-Solving**

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

Use critical thinking skills and problem-solving skills to evaluate pest management strategies and select proper strategies for a given situation.

**Personal Responsibility**

Abide by appropriate safety rules in laboratories, shops and classroom

Be motivated to continue educating oneself about pest management practices to keep up with the latest technologies and be aware of safety and environmental issues related to pest management.

**Information Literacy**

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

Be able to access, evaluate, and utilize plant health care information from a variety of sources: pesticide labels, books, commercial and nonprofit organizations, land-grant universities, government agencies, websites, and local authorities.

**Program Outcomes:**

<b>Included in Course Outcome Number</b>	<b>Landscape Design and Construction Certificate Program Outcomes</b>
2, 3, 4, 5, 6, 9, 10, 11	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)
1, 2, 3, 4, 5, 6, 9, 10, 11	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)

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	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)
1, 2, 3, 4, 5, 6, 9, 10, 11	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>
2, 3, 4, 5, 6, 7, 8, 9, 10, 11	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. 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)
1, 2, 3, 4, 5, 6, 8, 9, 10, 11	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)
1, 2, 3, 4, 5, 6, 9, 10, 11	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)

**Course Outcomes / Objectives:**

1. Define the terms "plant health care" and "integrated pest management".
2. Read and interpret a pesticide label.
3. Discuss pesticide hazards to human health.
4. Cite examples of pesticide safety procedures.
5. Describe potential pesticide impacts on the environment (water quality, wildlife, etc.).
6. Identify federal and state laws regulating pesticide use.
7. Explain basic insect biology and classification.
8. Categorize the chemical classification and mode of action of common insecticides.
9. Explain basic principles of plant pathology and disease management and their relationship in IPM.
10. Demonstrate the basic principles of pesticide application – pesticide selection, timing of application, application methods, calculations, and calibrations.
11. Research, write, and present an integrated pest management (IPM) plan.

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

Required course for all LHO 1-Year Certificates and AAS/AAS-T degrees. This is not a new course.

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

This is not a new course.

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

None. This course has been offered for many 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

Van M Bobbitt

Print Name

*Van M Bobbitt*

Signature

1/1/0001

Date

Dean:

Robert Glatt

Print Name

*Robert Glatt*

Signature

10/14/2013

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