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: LHO109
Prefix: LHO Number: 109

Request a new Prefix
This will be a common course

Full Title: Integrated Pest Management

Abbreviated Title: Integrated Pest Management

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

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:

<table>
<thead>
<tr>
<th>Included in Course Outcome Number</th>
<th>Landscape Design and Construction Certificate Program Outcomes</th>
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</thead>
<tbody>
<tr>
<td>2, 3, 4, 5, 6, 9, 10, 11</td>
<td>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)</td>
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<tr>
<td>1, 2, 3, 4, 5, 6, 9, 10, 11</td>
<td>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)</td>
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</tbody>
</table>
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)

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<td>2, 3, 4, 5, 6, 7, 8, 9, 10, 11</td>
<td>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)</td>
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<td>1, 2, 3, 4, 5, 6, 8, 9, 10, 11</td>
<td>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)</td>
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<td>1, 2, 3, 4, 5, 6, 9, 10, 11</td>
<td>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)</td>
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<td>1, 2, 3, 4, 5, 6, 9, 10, 11</td>
<td>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)</td>
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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:

<table>
<thead>
<tr>
<th>Faculty Name</th>
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<tbody>
<tr>
<td>Robert Glatt</td>
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<td>1/1/0001</td>
</tr>
<tr>
<td>Van M Bobbitt</td>
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</tbody>
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Dean:

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<tr>
<td>Robert Glatt</td>
<td>Robert Glatt</td>
<td>10/14/2013</td>
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Results of SSCC Curriculum Coordinating Council Findings

Participating Faculty Response and Remarks

- Recommended for approval
- Not recommended for approval

Chairman, Curriculum Coordinating Council:

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<tr>
<th>Faculty Name</th>
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<tbody>
<tr>
<td>Diane Schmidt</td>
<td>Diane Schmidt</td>
<td>3/11/2014</td>
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Vice President for Instruction:

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<tr>
<th>Faculty Name</th>
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<tbody>
<tr>
<td>Donna Miller-Parker</td>
<td>Donna Miller-Parker</td>
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