

Clackamas Community College

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Section #1 General Course Information

Department: Horticulture

Submitter

First Name: April

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Course Prefix and Number: HOR - 263

Credits: 2

Contact hours

Lecture (# of hours):

Lec/lab (# of hours):

Lab (# of hours): 66

Total course hours: 66

For each credit, the student will be expected to spend, on average, 3 hours per week in combination of in-class and out-of-class activity.

Course Title: Plant Health Care Practicum

Course Description:

Experience with the implementation of basic requirements and techniques employed by Plant Health Care Technicians who work on tree crews. Covers personal protective equipment, safe operation, routine maintenance and common techniques in accordance with current industry standards. Students will perform ground related activities, gaining experience in spray techniques, chipper operation, driving truck with chipper, interpretation of water audits, hazard tree identification, evaluation of key plants in the landscape, fertilization, customer education/communication and work site management. Class is a lab.

Type of Course: Career Technical Preparatory

Is this class challengeable?

Yes

Can this course be repeated for credit in a degree?

No

Is general education certification being sought at this time?

No

Does this course map to any general education outcome(s)?

No

Is this course part of an AAS or related certificate of completion?

Yes

Name of degree(s) and/or certificate(s): Arboriculture AAS

Are there prerequisites to this course?

Yes

Pre-reqs: HOR-115, HOR-131, HOR-216, HOR-236, HOR-237

Have you consulted with the appropriate chair if the pre-req is in another program?

No

Are there corequisites to this course?

Yes

Co-reqs: HOR-120

Are there any requirements or recommendations for students taken this course?

No

Are there similar courses existing in other programs or disciplines at CCC?

No

Will this class use library resources?

Yes

Have you talked with a librarian regarding that impact?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F or Pass/No Pass

Audit: Yes

When do you plan to offer this course?

✓ **Spring**

Is this course equivalent to another?

If yes, they must have the same description and outcomes.

No

Will this course appear in the college catalog?

Yes

Will this course appear in the schedule?

Yes

Student Learning Outcomes:

Upon successful completion of this course, students should be able to:

- 1.perform and evaluate timely plant health care practices, including tree pruning and removal;
- 2.perform ground operations required for tree pruning and removal;
- 3.perform appropriate site management practices;
- 4.demonstrate competency with use of hydraulic sprayer;
- 5.demonstrate competency with use of chipper apparatus;
- 6.explain to a potential customer the value of preventative vs. reactive plant health care practices.

This course does not include assessable General Education outcomes.

Major Topic Outline:

- 1.Plant Health Care (IPM) Practices
 - a.Structural training of young trees
 - b.Safe tree removal in urban settings
 - c.Maintenance pruning of trees and shrubs to improve health
 - d.Tree and shrub fertilization and soil amendment techniques
 - e.Tree injection techniques

- f. Tree and shrub spraying techniques for pest problems
- g. Soil compaction modification approaches
- h. Tree planting technique – bare root, ball and burlap, container
- i. Tree protection practices at construction sites
- 2. Site Assessment Practices
 - a. Plant Health Care site inspections, treatments and reports
 - b. Electrical hazard awareness when working with trees
 - c. Hazard tree identification
 - d. Evaluation of key plants in landscape
 - e. Water audit interpretation
- 3. Perform Worksite Management Activities
 - a. Personal protective equipment
 - b. Hazard awareness
 - c. Staging the site
 - d. Communication between ground & aerial workers
 - e. Communication with public near work area
 - f. Protection of non-target items
 - g. Traffic & noise considerations
- 4. Perform Safe Equipment Operation
 - a. Chainsaw
 - b. Chipper
 - c. Truck & trailer
- 5. Practice Customer Interaction
 - a. Convey understandable Plant Health Care information to customer
 - b. Market strategies for Plant Health Care practices

Does the content of this class relate to job skills in any of the following areas:

- | | |
|--------------------------------------|------------|
| 1. Increased energy efficiency | No |
| 2. Produce renewable energy | No |
| 3. Prevent environmental degradation | Yes |
| 4. Clean up natural environment | Yes |
| 5. Supports green services | Yes |

Percent of course: 30%

First term to be offered:

Specify term: Spring 2018
