

Clackamas Community College

Online Course/Outline Submission System

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Section #1 General Course Information

Department: Horticulture

Submitter

First Name: Renee
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Course Prefix and Number: HOR - 225

Credits: 3

Contact hours

Lecture (# of hours): 33
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 33

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: **Arboriculture I**

Course Description:

Management of trees in residential, commercial, and urban landscapes. Follows course materials prepared by the International Society of Arboriculture (ISA). Topics covered include tree anatomy, selection, installation, response to damage, soil characteristics, pruning techniques and diagnosis of pest problems. Prepares student for Arboriculture II.

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): Horticulture AAS, Landscape AAS, Arboriculture AAS

Are there prerequisites to this course?

No

Are there corequisites to this course?

No

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?

✓ Winter

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. describe basic tree anatomy and physiology,
2. identify and describe the growth patterns of tree crowns, roots and trunks;
3. sketch compartmentalization of decay in trees,
4. list the common characteristics of urban soils relevant to tree health,
5. define engineered soils and assess their utility to tree health,
6. identify methods used to modify soil chemical, physical and biological properties;
7. list key factors to consider in tree selection,
8. describe the recommended tree planting recommendations for bare root, containerized and ball-and-burlap trees;
9. explain the advantages and disadvantages of bare root, containerized and ball-and-burlap trees relative to planting practices;
10. evaluate landscape installation practices for a new building site,
11. formulate an appropriate Tree Preservation Plan for 2 different trees,
12. describe and be able to illustrate International Society of Arboriculture pruning guidelines for trees,
13. employ the systematic process for accurately diagnosing a tree pest problem.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Tree anatomy & growth patterns.
2. Review of ISA tree list for Pacific Northwest.
3. Management of the tree's environment.
4. Soil relations, water management, fertilization.
5. Site considerations.
6. Tree selection, installation, and establishment.
7. Pruning concepts and techniques.
8. Tree problem diagnosis.
9. Cultural maladies.
10. Biotic & abiotic disorders.
11. Plant health care.

12. Compartmentalization of decay in trees.

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: **50%**

First term to be offered:

Specify term: Winter 2016
