

Clackamas Community College

Online Course/Outline Submission System

Section #1 General Course Information

Department: Horticulture

Submitter

First Name: Renee

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Course Prefix and Number: HOR - 260

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 II

Course Description:

Evaluation, assessment and management of trees in the urban environment. Covers monetary and ecosystem values for trees, property development considerations, tree appraisals, tree inventories, risk assessments, and crew management. Together with Arboriculture I, this class will prepare students for passing the ISA Certified Arborist exam.

Type of Course: Career Technical Preparatory

Reason for the new course:

New Arboriculture program course.

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 & Landscape Management AAS

Are there prerequisites to this course?

Yes

Pre-reqs: HOR-225

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

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?

✓ **Fall**

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.explain the role of trees in urban ecosystems,
- 2.explain basic tree biomechanics principles as they relate to tree health,
- 3.explain tree challenges confronted in property development projects,
- 4.perform plant appraisals,
- 5.perform and evaluate tree risk assessments,
- 6.explain the purpose and process for completing tree inventories,
- 7.explain the impact of utilities on tree management,
- 8.identify key aspects of successful crew management.

This course does not include assessable General Education outcomes.

Major Topic Outline:

- 1.Role of Trees in Urban Ecosystems
 - a.Stormwater capture
 - b.Wildlife habitat
 - c.Calming effect
 - d.Erosion reduction
 - e.Temperature modification
 - f.Property value

2. Tree Biomechanics Relating to Tree Health
 - a. Normal tree form
 - b. Tree form modifications as response to stresses
 - c. Visual Tree Assessment as relates to biomechanics
3. Tree Challenges in Development Projects
 - a. Street improvements (streets, sidewalks)
 - b. New construction around existing trees
4. Plant Appraisals
 - a. Plant appraisal process
 - b. Approaches to value
 - c. Factors in plant appraisal
 - d. Professional consideration and responsibilities
 - e. Report writing
5. Tree Risk Assessments (hazard tree evaluation)
 - a. Factors to consider
 - b. Tools that assist in assessment
 - c. Writing the Form
 - d. Conveying information to the client
6. Tree Inventories
 - a. Objectives of tree inventories
 - b. Tools that assist in inventory
 - c. Inventories done by volunteers vs. professionals
 - d. Examples of completed inventories
7. Utilities
 - a. Electrical hazards
 - b. Planting considerations
 - c. Management schedule
8. Crew Management
 - a. Training
 - b. Ethics
 - c. Communication skills
 - d. Labor issues

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 | No |
| 5. Supports green services | Yes |

Percent of course: 30%

First term to be offered:

Specify term: Fall 2016
