

Clackamas Community College

Online Course/Outline Submission System

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Section #1 General Course Information

Department: Horticulture

Submitter

First Name: **April**

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Course Prefix and Number: HOR - 220

Credits: 3

Contact hours

Lecture (# of hours): **22**

Lec/lab (# of hours): **22**

Lab (# of hours):

Total course hours: 44

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 Propagation/Fall

Course Description:

Proper techniques for reproducing plants from seeds, cuttings, and grafting. Emphasis on seasonal plant production. Class includes a lab component.

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

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?

✓ **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. demonstrate the successful technique for propagating semi-hardwood cuttings;
2. describe the environmental requirements for successful cutting propagation;
3. explain the factors important to successful seed collection, storage and breaking of dormancy;
4. explain the sources of variation within both sexually and clonally propagated plants;
5. describe the process of layering, and how it's used in commercial propagation;
6. make sound decisions concerning approaches to propagation, based on knowledge, research and experimentation;
7. maintain accurate records, and conduct research using the internet and other publications.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Plant physiology.
 - a. Plant parts.
 - b. Plant physiological processes.
2. Plant and environment—relationships for survival.
 - a. Sanitation.
 - b. Fertility.
 - c. Diseases and insect control.
 - d. Plant quality.
3. Propagation structures and materials.
 - a. Structures for plant propagation.
 - b. Equipment for propagation.
 - c. Propagation media.
 - d. Hormones and "wounding."
4. Seed propagation.
 - a. Seed harvest/selection.
 - b. Seed viability.
 - c. Seed storage.
 - d. Seed stratification.
 - e. Seed scarification.
5. Asexual plant propagation by cuttings, budding, grafting, layering, specialized structures and tissue culture.
 - a. Advantages and disadvantages of each method.
 - b. Timing of asexual propagation.
 - c. Selection of cutting wood.
 - d. Use of various plant parts.
 - e. Collecting propagation materials.
 - f. Record keeping for asexual propagation.

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: **10%**

First term to be offered:

Next available term after approval

:
