

Clackamas Community College
Online Course/Outline Submission System

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Section #1 General Course Information**Department:** Horticulture**Submitter**

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Course Prefix and Number: HOR - 242**# Credits:** 3**Contact hours**

Lecture (# of hours): 33
Lec/lab (# of hours):
Lab (# of hours): 11
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/Spring**Course Description:**

Proper techniques for reproducing plants from cuttings, division, micropropagation and budding. 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?

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**

✓ **Not every year**

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 successful technique for dividing herbaceous perennials,
2. demonstrate successful technique for propagating deciduous softwood cuttings,
3. demonstrate successful technique for budding deciduous trees,
4. describe the environmental requirements for successful cutting propagation,
5. explain the factors necessary for successful microplant acclimation from laboratory to greenhouse,
6. describe the environmental/field conditions necessary for optimal seed germination and growth,
7. explain the basics of IPM and general sanitation approaches and concerns,
8. summarize how new plants are developed, trademarked and/or patented;
9. maintain accurate records, and to conduct research using the internet and other publications.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Propagation sanitation.
 - a. Reasons for sanitation.
 - b. What to sanitize.
 - c. Methods for sanitation.
2. Propagation timing.
 - a. Juvenility/aging.
 - b. Flowering vs. vegetative wood.
 - c. Tissue maturity.
 - d. Factors altering timing.
3. Rooting aids.
 - a. Rooting hormones.
 - b. Wounding.
4. Propagation media.
 - a. Reasons for selecting media type.
 - b. Media functions.
 - c. Factors influencing media functions.
 - d. Components of propagation media.
 - e. Media mixes.
5. Caring for plants while rooting.
 - a. Watering.
 - b. Misting.
 - c. Fertilizing.
 - d. Maintaining cutting environment.

6. Harvesting rooted plants.
 - a. Potting.
 - b. Growing on structures.
 - c. Overwintering.
7. Propagation through division.
 - a. Bulbs, rhizomes, corms, roots.
 - b. Timing of division.
 - c. Media for plants produced.
 - d. Growing on plants produced.
8. New cultivars.
 - a. Plant patent laws.
 - b. Plant hybridizers.
9. Propagation by budding.
 - a. Budding technique.
 - b. Budding production schedule in Oregon.
10. Microplant acclimatization.

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:

Next available term after approval

:
