

**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 - 220

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**# 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.

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**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.

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**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?

**✓ 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.

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***This course does not include assessable General Education outcomes.***

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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 **No**
- 4. Clean up natural environment **No**
- 5. Supports green services **No**

Percent of course:0%

First term to be offered:

**Next available term after approval**

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