

## Clackamas Community College

### Online Course/Outline Submission System

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#### Section #1 General Course Information

**Department:** Horticulture

**Submitter**

First Name: **April**

Last Name: **Chastain**

Phone: **3055**

Email: **april.chastain**

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**Course Prefix and Number:** HOR - 122

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**# 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.

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**Course Title:** Greenhouse Crops-Potted Plants

**Course Description:**

Environmental influences on plant growth, crop scheduling, greenhouse structures and equipment. Emphasis on foliage and flowering potted 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

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. describe the principles of plant growth as well as physiological processes;
2. analyze production techniques and systems including heating and cooling systems as well as equipment and tools;
3. distinguish assigned crops and be able to identify them as well as water, fertilizer, soil/media, light, and temperature and their role in greenhouse crop production;
4. describe plant disorders including insects and diseases as well a diagnose plant disorders;
5. define the components in integrated pest management for greenhouse crops.

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

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**Major Topic Outline:**

1. Introduction to Greenhouse Crops.
  - a. Principles of plant growth.
  - b. Plant physiological processes.
  - c. Production techniques and systems.
  - d. Plant identification.
2. Growing Structures.
  - a. Heating and cooling systems.
  - b. Equipment and tools.
3. Controlling Plant Growth.
  - a. Water.
  - b. Fertilizer.
  - c. Soil/Media.
  - d. Light.
  - e. Temperature.
4. Plant Disorders.
  - a. Greenhouse pests.
  - b. Plant diseases.
  - c. Diagnosing plant disorders.

Does the content of this class relate to job skills in any of the following areas:

- |                                      |            |
|--------------------------------------|------------|
| 1. Increased energy efficiency       | <b>No</b>  |
| 2. Produce renewable energy          | <b>No</b>  |
| 3. Prevent environmental degradation | <b>Yes</b> |
| 4. Clean up natural environment      | <b>No</b>  |
| 5. Supports green services           | <b>No</b>  |

Percent of course: 10%

First term to be offered:

**Specify term:** Fall 2017

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