

**Clackamas Community College**  
Online Course/Outline Submission System

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

First Name: Renee

Last Name: Harber

Phone: 503-594-3294

Email: rharber@clackamas.edu

**Course Prefix and Number:** HOR - 113**# Credits:** 3**Contact hours**

Lecture (# of hours): 11

Lec/lab (# of hours): 44

Lab (# of hours):

Total course hours: 55

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:** Organic Farming Practicum / Fall**Course Description:**

Essential organic farming practices, including seasonal activities such as crop rotation, cover cropping, four-season production strategies, edible crop planting, pest management, and tool and equipment operations. Field trips to area farms included. Class lecture, field trips, and lab are essential components of this course. This format has been selected to create a hands-on experience for each student in seasonal crop production. Class includes a lab component.

**Type of Course:** Career Technical Preparatory**Reason for the new course:**

Program review.

**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):** Organic Farming Certificate**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 skills in efficient use of crop production tools and equipment and the proper maintenance of these tools,
- 2.incorporate crop rotation planning into yearly crop scheduling,
- 3.create effective cover cropping plans based on soil type and desired outcomes,
- 4.identify plant growth and form to determine seasonal plant cultural practices for annual and perennial edible plants,
- 5.identify pest and disease management methods, integrated pest management strategies, application equipment and regulations associated with pesticide use for organic production systems;
- 6.understand and apply concepts of four season crop production.

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

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Major Topic Outline:

Note: 11 hrs of Lecture occur in online format

- 1.Cover Cropping
  - a.Types of cover crops
  - b.When to seed, seeding rates
  - c.Recommended rotational strategies
- 2.Crop Rotation
  - a.Plant families and their characteristics
  - b.Fallow fields and soil health
  - c.Pest and disease life cycles
- 3.Principles of Plant Growth
  - a.Plant problems and symptoms displayed.
  - b.Plant evaluation.
  - c.Pest Control.
- 4.Pest Control.
  - a.Insect and disease monitoring.
  - b.Use of safety equipment and measures.
  - c.Determining type of control.

- d. Biological control strategies
- e. Biological control agents
- f. Chemical storage.
- g. Backpack sprayers.
- 5. Four Season Production
- a. Over-wintering structures
- b. Planting times
- c. Appropriate crop selections
- d. Off-season marketing
- e. Winter crop management practices

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>Yes</b> |

Percent of course: 80%

First term to be offered:

**Specify term:** Fall 2016

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