



Our classes are for individuals desiring information to improve job skills, for completion of Certificate and Associate Degree programs, community education and personal interest. Classes meet for 11 weeks, unless otherwise indicated.

Visit the Clackamas Community College Horticulture website at:

<http://depts.clackamas.edu/hort/>



Campus Map and driving directions at:

<http://www.clackamas.edu/documents/campusmap.pdf>



CCC has the only  
 PLANET accredited  
 program in Oregon.

### Workshops & Short Courses

CRN = Crs. Reg.# on form

**1/11-3/21 Winter Food Growing – HOR 009-05 CRN 216409** - Sarah West, Instructor

1:00 to 3:50 p.m. Wednesdays, January 5 through March 16 in Clairmont room 118. This eleven week class utilizes a hands-on approach to organic methods of growing cool season food plants, using a hoop-house, through the study of soil ecosystem, variety selection, pest management, data collection, harvest, and storage. Participants in this class will share in 50% of the food grown, while the remainder will be donated to the local HOPE (Helping Other People Eat) Food Pantry. Fee: \$30.00

**1/22-1/27 Organic Land Care – Bruce Nelson**

8:30 to 4:50 pm, January 23—27 in Clairmont room 118. Organic Land Care Accreditation Training for Landscape Professionals: focusing on organic landscape practices including Integrated Pest Management, soil building, sustainable landscape design, organic weed management, marketing organic land care, storm water management, tree care, sustainable resources and more. Participants will be eligible for Oregon Tilth Organic Land Care Accreditation. Forty (40) Landscape Contractors Board CEU's. Workshop cost includes local organic lunch. . Co-sponsored by Oregon Tilth and the Horticulture Department of Clackamas Community College.



Registration fee for 5-day Training: \$495 by December 13; \$550 after December 13. Accreditation examination is an additional cost of \$100. **Register at [tilth.org](http://tilth.org) or call Oregon Tilth at 503-378-0690.** Meets: 1/23-1/27

**Jan 21 Make Your Own Mini Hoop House - HOR 008-09 CRN 216395** - E. Howley, Instructor

1:00 p.m. to 3:50 p.m., Saturday, January 21, in Clairmont 117. Grow food year round in your own backyard. In this class you will be guided in the construction of your own mini hoop house. Bring up to a dozen, 10 foot, 1/2 inch, galvanized electrical conduit. (Available at your local home improvement store for approx. \$2 each.) Fee \$ 20

**Jan 21 Orchard Care Seminar - HOR 008-10 CRN 220545**

9:00 a.m. to 12:20 p.m., Saturday, January 21, in McLoughlin Auditorium. Learn about important winter care of fruit bearing plants. Half-day seminar will feature local experts covering a variety of fruit growing techniques. Visit the Home Orchard Society website after January 1, 2012 for a list of speakers. [www.homeorchardsociety.org](http://www.homeorchardsociety.org) Co-sponsored by the Home Orchard Society. Fee \$15

**Jan 24 Marketing Waterwise Landscaping - HOR 009-02 CRN 216406** - Dave Snell

6:30 to 8:20 pm, Tuesday, January 24th in Clairmont room 117. Explore ways to incorporate water efficiency into standard business practices: for business retention, new business and how your company can be more profitable by selling water conservation practices to your residential and commercial clients. This workshop qualifies for Irrigation Association CEU's. Fee: \$20.00

#### Horticulture Department

Clackamas Community College

19600 Molalla Ave

Oregon City, OR 97045

#### Contact Information:

##### Elizabeth Howley

Department Chair/Faculty

[ehowley@clackamas.edu](mailto:ehowley@clackamas.edu)

503 594 3295

##### Loretta Mills

Administrative Assistant

[lorettam@clackamas.edu](mailto:lorettam@clackamas.edu)

503 594 3292

##### Bruce Nelson

Horticulture Faculty

[brucen@clackamas.edu](mailto:brucen@clackamas.edu)

503 594 3296

##### Renee Harber

Horticulture Faculty

[rharber@clackamas.edu](mailto:rharber@clackamas.edu)

503 594 3294

*Phone or email if you would like additional information about our classes or programs.*



- Jan 31 Pesticide Applicator in Spanish – HOR 009-03 CRN 216407 – Carson Merrill**  
9:00 a.m. to 3:50 p.m., Tuesday, January 31, in Clairmont 118. Un repaso del uso apropiado y seguro de pesticidas, equipo protector, mezclar, cargar, rociar, almacenar, transporte y equipo de aplicacion. A review of the safe use of: pesticides, protective equipment, mixing, loading, spraying, storage, transportation, and application equipment. Re-certification credits are available. Fee: \$35.00
- Feb 3 Pesticide Core Training - HOR 009-01 CRN 216405 – Bob Nelson**  
8:00 a.m. to 11:50 a.m., Friday, February 3, in Clairmont room 133. This workshop provides training required by the Oregon Department of Agriculture for the re-certification of Private Pesticide License. This workshop is designed for individuals who intend to maintain a current ODA Private Pesticide License. Fee: \$40.00
- Feb 4 Fruit Tree Pruning - HOR 008-05 CRN 216391– Karen Tillou, Instructor**  
9:00 a.m. to 11:50 a.m. Saturday, February 4, at CCC Home Orchard Society Arboretum. Demonstration and practice of pruning methods appropriate for a variety of fruit trees. Bring your pruning tools and appropriate outdoor wear. Co-sponsored by the Home Orchard Society. Fee: \$10.00
- Feb 8 Urban Pest Management - Multiple Speakers**  
8:00 a.m. to 4:50 p.m. Wednesday, February 8, in the Gregory Forum. Workshop covers current ornamental plant pest control information, with eight ODA Pesticide re-certification credits anticipated. **To register call 541-737-3541.** Fee: \$70 by February 1; \$80 after February 1.
- Feb 18 Fruit Tree Grafting - Beginning - HOR 008-06 CRN 216392- Karen Tillou, Instructor**  
9:00 a.m. to 10:20 a.m. Saturday, February 18, in Clairmont room 118. Hands-on explanation and practice in whip grafting of fruit trees under the supervision of experienced HOS grafters. You will be provided with a rootstock and scion wood. Please bring your straight edged knife. Co-sponsored by the Home Orchard Society. Fee: \$15.00
- Feb 18 Fruit Tree Grafting - Beginning - HOR 008-07 CRN 216393 - Karen Tillou, Instructor**  
10:45 a.m. to 12:05 p.m. Saturday, February 18, in Clairmont room 118. Hands-on explanation and practice in whip grafting of fruit trees under the supervision of experienced HOS grafters. You will be provided with a rootstock and scion wood. Please bring your straight edged knife. Co-sponsored by the Home Orchard Society. Fee: \$15.00
- Feb 18 Fruit Tree Grafting - Intermediate - HOR 008-08 CRN 216394- Karen Tillou, Instructor**  
12:45 p.m. to 2:05 p.m. Saturday, February 18, in Clairmont 118. Hands on practice with advanced grafting methods: cleft, kerf, bark, inarching etc. You will be provided with a rootstock and scion wood. Please bring your straight edged knife. Co-sponsored by the Home Orchard Society. Fee: \$15.00
- 1/28-2/11 Herb Growing and Gardening - HOR 134-01 CRN 216418 - Elizabeth Howley, Instructor**  
1 credit, 8:30 a.m. to 11:50 a.m., Saturdays, January 28, February 4 & 11, in Clairmont 118. Students will have the opportunity to study herb plants including propagation and garden use. Students will carry out herb propagation and learn garden culture of herbs. Tuition & fees: \$ 103.50





## Credit Classes

January 3—March 19, 2011 or as listed

CRN = Crs. Reg.# on form

### Plant Propagation Theory - HOR 130-01 CRN 216413 Elizabeth Howley, Instructor

3 credits, 9:00 a.m. to 11:50 a.m., Thursdays, in C133. Covers plant anatomy and reproduction techniques of plants from seed, cuttings, grafting, division, and micro-propagation. The class offers an in-depth overview of propagation systems that may be selected.

### Tree & Shrub Pruning/Winter - HOR 131-01 CRN 216414 Bruce Nelson, Instructor

3 credits, 1:00 p.m. to 4:50 p.m., Mondays, in C133. Emphasis on dormant pruning of fruiting and ornamental plants. Training in dormant pruning and training of grapes, fruit trees, deciduous, evergreens, ornamental trees and shrubs. Basic woody plant anatomy, growth, and development.

### Pesticide Selection and Use - HOR 132-01 CRN 216415 Bruce Nelson, Instructor

3 credits, 1:00 p.m. to 3:50 p.m., Wednesdays, in C133. Plant protection methods for weed, insect or disease control. Laws and regulations related to safety, handling and storage of pesticides. Techniques for product selection, including chemical and non-chemical options, applicator safety and environmental protection included. Prepare and test for the Oregon Pesticide Applicator exams.



### Horticulture Practicum / Winter - HOR 133-01 CRN 216417 Bruce Nelson, Renee Harber, & Beth Benz, Instructors

6 credits, 8:00 a.m. to 11:50 a.m., Mondays and Wednesdays, in C133, plus online hours. Practical horticulture practices which include seasonal activities covering container and field nurseries, greenhouse crops, garden design, landscape installation and landscape management. Basic practices involved in propagation, transplanting, pruning, pest control, equipment operations, water and fertilizer management. Industry field trips included. Projects parallel Horticulture classes for winter term. **HYBRID CLASS.**

### Herb Growing and Gardening - HOR 134-01 CRN 216418 Elizabeth Howley, Instructor

1 credit, 8:30 a.m. to 11:50 a.m., Saturdays, January 28, Feb 4 & 11, in C118. Students will have the opportunity to study herb plants including propagation and garden use. Students will carry out herb propagation and learn garden culture of herbs.

### Propagation of Edible Plants - HOR 135-01 CRN 220004 Elizabeth Howley, Instructor

3 credits, 1:00 p.m. to 4:50 p.m., Tuesdays, in C117. Survey and practice reproducing plants utilizing sexual and asexual propagation methods of organically produced food crops used for local production. Instruction will focus on desirable traits of specific varieties and crop replication methods for sustainable farm operations.



### Urban Agriculture Practicum / Winter - HOR 136-01 CRN 220543 Renee Harber & Beth Benz, Instructors

6 credits, 8:00 a.m. to 11:50 a.m., Mondays and Wednesdays, in C133, plus online hours. Essential horticulture practices which include seasonal activities covering farm crop lay-out, edible crop installation and management. Basic practices involved in propagation, transplanting, pruning, pest control, equipment operations, water and fertilizer management and farm field trips included. Class includes a lab component. **HYBRID CLASS.**



### Integrated Pest Management - HOR 216-01 CRN 216419 Bruce Nelson, Instructor

2 credit, 6:30 p.m. to 10:20 p.m., Tuesdays, February 14 through March 13, in C133. The development of an Integrated Pest Management (IPM) plan for landscape, nursery, greenhouse or agricultural industries. Plan incorporates pest detection, control practices and evaluates effectiveness. Recertification credits may be granted by the Oregon Department of Agriculture toward pesticide license renewal.

### Horticultural Computer Applications - HOR 222-01 CRN 216420 Renee Harber, Instructor

2 credits, 1:00 p.m. to 2:50 p.m. Tuesdays and Thursdays, January 10 – February 9, in C134. Class utilizes database, spreadsheet, word processing and other computer programs for record keeping and management for growers and landscape businesses. Prerequisite: pass CS-091 or placement into CS-120.



**Horticultural Computer Applications - HOR 222-02 CRN 216421** Renee Harber, Instructor

2 credits, 1:00 p.m. to 2:50 p.m. Tuesdays and Thursdays, February 14 – March 15, in C134. Class utilizes database, spreadsheet, word processing and other computer programs for record keeping and management for growers and landscape businesses. Prerequisite: pass CS-091 or placement into CS-120.

**Plant Identification / Winter - HOR 227-01 CRN 216422** Renee Harber, Instructor

3 credits, 8:00 a.m. to 11:50 p.m., Tuesdays, in C133. Identification of conifers and broadleaved evergreens, shrubs, and ground-covers, including their cultural requirements in the landscape.

**Plant Identification / Winter - HOR 227-02 CRN 216423** Renee Harber, Instructor

3 credits, 6:30 p.m. to 7:20 p.m., Wednesdays, in C133. Identification of conifers and broadleaved evergreens, shrubs, and ground-covers, including their cultural requirements in the landscape. **HYBRID CLASS.** Meets every Wednesday plus online hours. Contact Renee at [rharber@clackamas.edu](mailto:rharber@clackamas.edu) or 503-594-3294.

**Equipment Operation and Maintenance - HOR 230-01 CRN 216424** Robert Nelson, Instructor

3 credits, 1:00 p.m. to 2:50 p.m., Thursdays, in C117. Class will cover selection, operation, and maintenance of power-driven machines, such as mowers, rototillers, chainsaws, sprayers, tractors, and related equipment for nursery and landscape applications. Must register for 1 Equipment Operation and Maintenance Lab class.

**Equipment Operation and Maintenance Lab - HOR 230L-01 CRN 216425** Robert Nelson, Instructor

10:00 a.m. to 11:50 a.m., Thursdays, in C117. Co-requisite for HOR 230 Equipment Operation and Maintenance class.

**Equipment Operation and Maintenance Lab - HOR 230L-02 CRN 216426** Robert Nelson, Instructor

3:00 p.m. to 4:50 p.m., Thursdays, in C117. Co-requisite for HOR 230 Equipment Operation and Maintenance class.

**Irrigation and Drainage Design - HOR 231-01 CRN 216427** Dave Snell, Instructor

3 credits, 6:30 p.m. to 10:20 p.m., Mondays, in C118. Design principles of irrigation and drainage systems for various situations, including underground and aboveground, residential and commercial systems.



**Commercial Floral Design - HOR 232-01 CRN 216428** Linda Beutler, Instructor

3 credits, 6:00 p.m. to 9:50 p.m., Tuesdays, in C118. Present design techniques, used by florists today, to create naturalistic centerpieces, corsages, and gift arrangements using fresh flowers. Students will learn cut flower conditioning and handling. Wedding and sympathy design, and sales strategies will also be covered.

**Intermediate Landscape Design - HOR 234-01 CRN 216429** Lupin Hipp, Instructor

3 credits, 6:00 p.m. to 9:50 p.m., Wednesdays, in C118. Further skill development in drawing, site analysis, and design, including two, three, and four dimensional design concepts. Graphic exercises and model-making skills will be included as well as the study of creative and practical solutions for various site and program requirements of commercial and residential landscape sites. Prerequisite: Pass HOR-229.

**Disease Identification - HOR 237-01 CRN 216430** Bruce Nelson, Instructor

2 credits, 6:30 p.m. to 10:20 p.m., Tuesdays, January 10 through February 7, in C133. Class covers identification of ornamental plant diseases that occur in greenhouses, landscapes and nurseries. Oregon Department of Agriculture re-certification credits may be available.

**Tree Climber Training - HOR 239-01 CRN 216431** Joe Mendez, Instructor

2 credits, 8:00 a.m. to 11:50 a.m., Saturdays, February 11 through March 17, in C117. The safe use of ropes and saddle tree climbing procedures will be covered through lecture, discussion and field practice. This class is for beginner and moderately experienced climbers.



# Horticulture Department WINTER 2012



## Herbal Products – HOR 251-01 CRN 216432 Elizabeth Howley, Instructor

1 credits, 8:00 a.m. to 11:50 a.m. Fridays, January 27, February 3 & 10, in C133. Instruction will be provided in making herbal teas, skin salve, tincture, infused oil, vinegar, and syrup. Students will learn what ingredients to use and why each is important.

**Horticulture Cooperative Work Experience - HOR 280-01 CRN 216433** or **HOR 282-01 CRN 216435** B. Nelson, Instructor  
3 credits, Arrangements to be made with the instructor - interested students are advised to schedule an appointment with the instructor, to receive information packets. On-the-job experience in the various segments of horticulture. Students enroll in co-op after completing nine credits of horticulture courses. May be repeated up to 6 credits. Contact [brucen@clackamas.edu](mailto:brucen@clackamas.edu).

**Horticulture Cooperative Work Experience - HOR 281-01 CRN 216434** Bruce Nelson, Instructor  
6 credits, Arrangements to be made with the instructor - interested students are advised to schedule an appointment with the instructor, to receive information packets. On-the-job experience in the various segments of horticulture. Students enroll in co-op after completing nine credits of horticulture courses. Contact [brucen@clackamas.edu](mailto:brucen@clackamas.edu).

## Financial Aid

Information 503 594 6100

<http://www.clackamas.edu/inside.asp?content=2104>

## Registration Options

Information 503 594 6100

CRN = Crs. Reg.# on form

Online—CURRENT STUDENTS only—at:  
<https://my.clackamas.edu/>

### By mail or fax:

Send or fax the completed registration form (below) to:  
Registrar's Office Clackamas Community College  
19600 Molalla Avenue, Oregon City, OR 97045

Fax number: 503-722-5864

Note: Mailed/faxed registrations are processed in the order that they are received. All mailed/faxed registrations must be postmarked prior to the first day of class.

### Register in person:

At The Enrollment Services Center in Roger Rook Hall  
Clackamas Community College  
19600 Molalla Avenue  
Oregon City, OR 97045



# QUICK ENTRY REGISTRATION FORM 2011-2012

Social Security # **or** Student I.D.# \_\_\_\_\_ Birthdate \* \_\_\_\_\_ Today's Date \_\_\_\_\_

Name \_\_\_\_\_  
Last First Middle Previous names

Mailing address \_\_\_\_\_  
Street City State County Zip

Telephone \_\_\_\_\_  
Home Work

High school attended \_\_\_\_\_  
Name Location Graduation Date

SUMMER  FALL  
 WINTER  SPRING

Providing your Social Security Number (SSN) is voluntary. If you provide it, the college will use your SSN for keeping records, doing research, aggregate reporting, extending credit and collecting debts. Your SSN will not be given to the general public. If you choose not to provide your SSN, you will not be denied any rights as a student. Providing your Social Security Number means that you consent to the use of the number in the manner described.

\* If you're under 18, additional permissions may be required before you can register for classes.

**Gender**  Male  Female

**Ethnicity**  Hispanic or Latino  Not Hispanic or Latino

**Race** (Choose all that apply)  American Indian/Alaska Native  Asian  
 Black or African America  Native Hawaiian or other Pacific Islander  White

**Residency/Student Type** (Required for tuition purposes)  
 **In State** (US citizen or permanent resident of Oregon, CA, ID, WA, or NV 90 days prior to first day of class.)  Immigrant  Refugee  Other  
 **Out of State**  
 US citizen and permanent resident outside of Oregon, CA, ID, WA, NV  
 International visitor (B, J, H or other nonstudent Visa)  
 International student (requires I-20)

**Intended Academic Program**  
Program Code/Title \_\_\_\_\_

**Previous College Attendance**  
 Yes  No  
Name of School \_\_\_\_\_

**Reason for Enrolling**  
 Transfer classes  Reading/writing/math skills  
 Learn job skills  Learn English language  
 Update job skills  Personal interest  
 High school completion/GED  Other  
 Explore career/academics

Crs. Reg.#	Section No./Course Title	Credits/CEU	Time	M	T	W	Th	F	S	Room	Start Date	Crs. Fee/Tuition
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**Payment by:**  
 VISA/Mastercard/Discover  Check  Cash  Other \_\_\_\_\_

Card # \_\_\_\_\_ Exp. Date \_\_\_\_\_  
Name on card \_\_\_\_\_  
Signature \_\_\_\_\_

**FAX to: 503-722-5864 or Mail to:**  
**Registrar, Clackamas Community College**  
**19600 Molalla Avenue**  
**Oregon City, OR 97045-7998**

A registration confirmation will not be mailed. Please verify your enrollment by going to [cougartrax@clackamas.edu](mailto:cougartrax@clackamas.edu)

Clackamas Community College does not discriminate on the basis of race, color, religion, gender, sexual orientation, marital status, age, national origin/ancestry, disability, family relationship or any other protected status in accordance with applicable law. The College's commitment to nondiscrimination applies to curriculum activity and all aspects of operation of the College.

