Horticulture Program
go.chemeketa.edu/ag

The Horticulture program offers career training and education for those entering the career field and for those already employed. The program curriculum includes a wide variety of topics ranging from plant propagation to sustainable landscape design. Chemeketa has a well-equipped greenhouse in which students will acquire hands-on training in the basic knowledge and technical skills required for successful employment in a variety of positions in the horticulture industry.

You may be interested in our Cooperative Work Experience program, which allows you to earn college credit for work relating to your program. With the approval of the program chair, you may enroll in HOR280B-L Cooperative Work Experience and earn college credit hours. For more information, look under Cooperative Work Experience in the catalog index.

Horticulture Associate of Applied Science Degree

The Horticulture program prepares students for occupations in greenhouse and nursery production, propagation, or plant protection as managers, crew leaders, inventory controllers, irrigation specialists, plant sellers, or customer service representatives. The program offers a two-year associate of applied science degree.

For more information about the program, contact Joleen Schilling at 503.399.5150.

Program outcomes

Students completing the Horticulture degree should be able to:

- Perform skills and use equipment necessary to propagate, transplant, fertilize, irrigate, prune, and otherwise regulate growth of plants produced in the nursery and greenhouse
- Recognize, name, and understand management requirements for plants commonly grown in the Oregon nursery and greenhouse industry and their associated pests
- Demonstrate knowledge of government regulations related to nursery and greenhouse operations, workplace safety, water regulations, pesticide safety, and crop sanitation requirements to effectively manage a nursery or greenhouse
- Evaluate production practices in terms of currently understood principles of sustainability

Getting started

The first step to entering this program is to take part in an assessment process, which includes taking the college’s free placement test and meeting with Advising and Counseling Services. You may need to complete program entry requirements. Then your advisor will help you develop an individualized program of study, which may include one or more of the following:

- CA121A Keyboarding A (if less than 25 wpm) ................. 1
- MTH060 Introductory Algebra ............................................. 4
- RD115 Academic Thinking and Reading ......................... 3
- SSP112 Effective Learning .................................................. 3
- WR115 Introduction to Composition ................................  4

Note: In some cases, students can enroll in program courses without competing all of the above prerequisite courses. If you have questions about the program requirements, contact the Agricultural Sciences department at 503.399.5139 or e-mail sherrie.magarrell@chemeketa.edu.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $3,125; class fees, $648; universal fee, $1,372. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an associate of applied science degree by successfully completing the required 97 credit hours with a grade of “C” or better in all courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS101</td>
<td>Introduction to Microcomputer Applications (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>HOR111</td>
<td>Introduction to Horticulture</td>
<td>3</td>
</tr>
<tr>
<td>WR121</td>
<td>The College Essay+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>Horticulture elective*</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Term 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOR211</td>
<td>Plant Propagation</td>
<td>4</td>
</tr>
<tr>
<td>MTH070</td>
<td>Elementary Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PSY104</td>
<td>Workplace Psychology+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>SOIL205</td>
<td>Soil Science</td>
<td>4</td>
</tr>
</tbody>
</table>
### Term 3
- BI153  Fundamentals of Plant Biology ............................. 4
- COMM111  Fundamentals of Public Speaking (or higher)......... 4
  or
- COMM115  Introduction to Intercultural Communication  
  (or higher)....................................................................... 4
- HOR221  Nursery Production and Management.................. 3
- WR227  Technical Writing (or higher)............................. 4

### Term 4
- HOR237  Integrated Pest Management: Insects  
  and Diseases .................................................................... 4
- SPN101  First Year Spanish, Term 1 (or higher).................... 4
  Horticulture elective* ............................................ 4
  Plant Identification course** ........................................ 4

### Term 5
- HOR112  Pesticides and Safety ............................................ 2
- HOR225  Greenhouse Production and Management ............. 4
- SPN102  First Year Spanish, Term 2(or higher) ..................... 4
  Horticulture elective* ............................................ 4
  Plant Identification course** ........................................ 4

### Term 6
- HOR224  Horticulture Practicum ........................................... 4
- HOR236  Integrated Pest Management: Weeds .................... 3
  Horticulture elective* ............................................ 2
  Plant Identification course** ........................................ 3

### Term 7
- HOR280F  Cooperative Work Experience .............................. 6
  +Meets related instruction requirement, see page 50. For subject areas, see page 56.

#### *Horticulture electives (select 14 credit hours):*
- BI131  Environmental Science 1 ....................................... 4
- BI132  Environmental Science 2 ....................................... 4
- BI133  Environmental Science 3 ....................................... 4
- CH121  College Chemistry (or higher)............................... 5
- HOR110  Bees and Other Pollinators ............................... 2
- HOR115  Nursery and Greenhouse Equipment and Safety .. 3
- HOR116  Introduction to Phytotechnology ....................... 4
- HOR201  Growing Vegetables in the Willamette Valley ...... 4
- HOR212  Advanced Plant Propagation ............................... 2
- HOR238  Plant Problem Diagnosis ................................... 2
- HOR240  Sustainable Landscape Design ......................... 4
- HOR251  Growing Fruit in the Willamette Valley .......... 3
- HOR256  Identification of Herbaceous Plants 2 ............. 2
- HOR257  Horticultural Marketing ................................... 3
- HOR273  Urban and Community Forestry ......................... 2
- HOR275  Innovative Strategies for Water Management  
  in Nurseries ............................................................ 2
- HOR276  Organic Gardening ........................................... 3
- HOR277  Composting.......................................................... 2

#### **Plant Identification courses (select 11 credit hours):**
- HOR226  Fall Plant Identification..................................... 4
- HOR227  Winter Plant Identification............................... 4
- HOR228  Spring Plant Identification ............................... 4
- HOR255  Identification of Herbaceous Plants 1 ............... 3