

# TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

CORVALLIS

ECAMPUS

**Tillamook Bay  
Community College**

## Horticulture

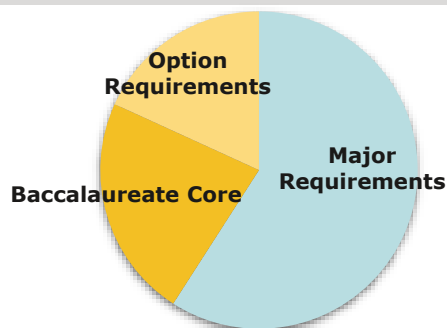
Horticulture involves the production, genetic improvement, and research of fruits, nuts, vegetables, and ornamental plants, along with the design, construction, and management of landscape plantings such as parks, gardens, golf courses, sports fields, and ecological restoration projects. Our program provides students with the skills, knowledge, and applied experience needed to provide novel and innovative solutions to contemporary environmental issues.

Students must select from one of these options:

- Ecological Management of Turf, Landscape, & Urban Horticulture
- General Horticulture (Ecampus only)
- Plant Breeding & Genetic
- Sustainable Horticulture Production
- Therapeutic Horticulture
- Viticulture and Enology
- Horticulture Research\*

\* Please refer to the Horticulture Research Transfer Guide for course information

## Your Bachelor's Degree (BS) in Horticulture



- A minimum of 180 credits are required for graduation; 60 must be upper division (300 and 400-level courses).
- A maximum of 135 transfer credits may be applied toward a bachelor's degree at OSU.
- Only courses with letter prefixes and numbers above 100 are accepted.
- Option required for Horticulture major
- More info at: [agsci.oregonstate.edu/horticulture-main/degree/horticulture](http://agsci.oregonstate.edu/horticulture-main/degree/horticulture)

## Courses Required for Horticulture Major

This list is not comprehensive. Speak with OSU advisor for more information.

Horticulture Core Requirement	TBCC Equivalent Course	OSU Course	Notes
Biology			
Introductory Biology	--	BI 204 BI 205 BI 206	BI 204-206 available online to Ecampus students only; may not meet requirements for required courses in this or other programs
Principles of Biology	BI 211 BI 212 BI 213	BI LD2 BI LD2 BI LD2	Only select one full series (either all of 204-206, all of 211-213, or all of 221-223)
Principles of Biology	--	BI 221 BI 222 BI 223	OSU now only offers BI 221-223. If taking BI 211-213, you must take entire series at Tillamook Bay CC. Refer to <a href="http://admissions.oregonstate.edu/ld1-and-ld2-explained">admissions.oregonstate.edu/ld1-and-ld2-explained</a> to learn more about BI LD2 equivalency
General Chemistry	--	CH 121 CH 122 CH 123	CH 121-123 available online at OSU
	--	CH 231/261 CH 232/262 CH 233/262	Only select one full series (either all 100-level, or 200-level) Lecture & lab for 200-level Chemistry have separate course numbers at OSU
Mathematics			
College Algebra	MTH 111	MTH 111	MUST complete MTH 111
Elementary Functions	MTH 112	MTH 112	Complete 1(one) additional math course from options listed. Work with OSU advisor to discuss best course for preferred option
Calc for Mgmt & Social Sci	--	MTH 241	
Math for Mgmt, Life, Social Sci	--	MTH 245	
Differential Calc			



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## Courses Required for Horticulture Major, cont.

This list is not comprehensive. Speak with OSU advisor for more information.

Horticulture Core Requirement	TBCC Equivalent Course	OSU Course	Notes
Soil Science	SOIL 205 --	SOIL 205/206 CSS 205	Complete 1(one) CSS 205 = Available online at OSU
Intro to Hort. Systems, Practices and Careers	--	HORT 112	Available online at OSU
Additional HORT Courses			Other courses may apply to this option. Work with OSU HORT advisor for appropriate course selection

## Courses Required for Horticulture Major: Option specific coursework

Hort. Option Requirements	TBCC Equivalent Course	OSU Course	Notes
<b>Ecological Management of Turf, Landscape, &amp; Urban Horticulture</b>			
Landscape I: Deciduous Hardwood	--	HORT 226	Available online at OSU
Landscape II: Spring Flower Trees	--	HORT 228	Available online at OSU
Plant Materials Elective			Complete 1(one) course
Dendrology	FOR 241	FES 241	Other options available post-transfer. Work with OSU advisor for course selection FES 241 - Available online at OSU
Intro to Environ. Econ & Policy	--	HORT 251	
Intro to Agric. & Food Econ.	--	HORT 255	
Business Management			Complete 1(one) course
Agriculture & Food Mgmt.	--	AEC 211	Other options available post-transfer. Work with OSU advisor for course selection AEC 211/250/251, BA 260 = Available online at OSU
Agriculture & Food Marketing	--	AEC 221	
Intro to Environ. Econ & Policy	--	AEC 250	
Intro to Agric. & Food Econ.	--	AEC 251	
Intro to Entrepreneurship	--	BA 260	
<b>Sustainable Horticulture Production</b>			
Plant Materials			Complete 2(two) courses
Crop Ecology & Morphology	--	CROP 200	Other options available post-transfer. Work with OSU advisor for course selection CROP 200, FES 241, HORT 226/228 = Available online at OSU
Dendrology	FOR 241	FES 241	
Landscape I: Deciduous Hdwd	--	HORT 226	
Landscape II: Sp. Flower Trees	--	HORT 228	
Temperate Tree Fruit, Berries, ...	--	HORT 251	
Herbaceous Ornamental	--	HORT 255	
Hort. Production Elective			Complete 1(one) course
Organic Farm/Gardening	--	HORT 260	Other options available post-transfer. Work with OSU advisor for course selection HORT 260 = Available online at OSU
Business Management			Complete 1(one) course
Agriculture & Food Mgmt.	--	AEC 211	Other options available post-transfer. Work with OSU advisor for course selection AEC 211/250/251, BA 260 = Available online at OSU
Agriculture & Food Marketing	--	AEC 221	
Intro to Environ. Econ & Policy	--	AEC 250	
Intro to Agric. & Food Econ.	--	AEC 251	
Intro to Entrepreneurship	--	BA 260	
Government and Policy			Complete 1(one) course
Global Poverty & Sust. Develop	--	AEC 243	Other options available post-transfer. Work with OSU advisor for course selection AEC 250/251/253, NR 201/202, PS 201/205 = Available online at OSU
Intro to Environ. Econ & Policy	--	AEC 250	
Intro to Agric. & Food Econ.	--	AEC 251	
Environ. Law, Policy, & Econ.	--	AEC 253	
Manage Nat. Resource for Future	NAT 201	NR 201	
Nat. Resource Probs & Solutions	--	NR 202	
Intro to US Gov & Politics	--	PS 201	
Intro to Intl. Relations	--	PS 205	
<b>Therapeutic Horticulture</b>			
Plant Materials			Complete 2(two) courses
Landscape I: Deciduous Hdwd	--	HORT 226	Other options available post-transfer. Work with OSU advisor for course selection
Landscape II: Sp. Flower Trees	--	HORT 228	
Temperate Tree Fruit, Berries, ...	--	HORT 251	

Herbaceous Ornamental	--	HORT 255	HORT 226/228 = Available online at OSU
Horticulture Science & Technology Organic Farm/Gardening Permaculture Design & Theory	-- --	HORT 260 HORT 285	Complete 2(two) courses. Other course available to select from post-transfer. Work with OSU advisor for course selection All courses listed = Available online at OSU
<b>Hort. Option Requirements</b>	<b>Tillamook Bay CC Equivalent Course</b>	<b>OSU Course</b>	<b>Notes</b>
<b>Therapeutic Horticulture</b> (continued from page 2)			
Intro to Therapeutic Hort.	--	HORT 270	
Techniques & Adapt. Strategies	--	HORT 271	
Basic Therapeutic Skills I	--	HORT 272	
Basic Therapeutic Skills II	--	HORT 273	
Therapeutic Hort. Programs	--	HORT 274	
Therapeutic Garden Design	--	HORT 275	
General Psychology	PSY 201	PSY 201	Available online at OSU
General Psychology	PSY 202	PSY 202	Available online at OSU
Human Lifespan Development	--	PSY 350	Available online at OSU
Abnormal Psychology	--	PSY 381	Available online at OSU
<b>Viticulture and Enology</b>			
Temperate Tree Fruit, Berries, ...	--	HORT 251	
Horticulture Science & Technology Metals & Welding Organic Farm/Gardening Permaculture Design & Theory	AG 221 -- --	AG 221 HORT 260 HORT 285	Complete 1(one) course. Other options available post-transfer. Work with OSU advisor for course selection HORT 260/280 = Available online at OSU
Organic Chemistry	-- --	CH 331 (LD) CH 332 (LD)	(LD): Transfers as lower division credit.
Business Management Agriculture & Food Mgmt. Agriculture & Food Marketing Intro to Environ. Econ & Policy Intro to Agric. & Food Econ. Intro to Entrepreneurship	-- -- -- -- --	AEC 211 AEC 221 AEC 250 AEC 251 BA 260	Complete 1(one) course Other options available post-transfer. Work with OSU advisor for course selection AEC 211/250/251, BA 260 = Available online at OSU
<b>Plant Breeding &amp; Genetic</b> (Also listed as option in Crop & Soil Science major)			
Plant Materials Crop Ecology & Morphology Dendrology Landscape I: Deciduous Hdwd Landscape II: Sp. Flower Trees Temperate Tree Fruit, Berries, ... Herbaceous Ornamental	-- FOR 241 -- -- -- --	CROP 200 FES 241 HORT 226 HORT 228 HORT 251 HORT 255	Complete 1(one) course Other options available post-transfer. Work with OSU advisor for course selection CROP 200, FES 241, HORT 226/228 = Available online at OSU
<b>General Horticulture - Ecampus only</b> (all courses listed available online at OSU)			
Plant Materials Intro to Plant Biology Landscape I: Deciduous Hdwd Landscape II: Sp. Flower Trees Herbaceous Ornamental	-- -- -- --	BOT 220 HORT 226 HORT 228 HORT 255	Complete 3(three) courses Other options available post-transfer. Work with OSU advisor for course selection
Business Management Agriculture & Food Mgmt. Agriculture & Food Marketing Intro to Entrepreneurship	-- -- --	AEC 211 AEC 221 BA 260	Complete 1(one) course Other options available post-transfer. Work with OSU advisor for course selection
Government and Policy Intro to Environ. Econ & Policy Environ. Law, Policy, & Econ. Intro to US Gov & Politics Intro to Intl. Relations	-- -- -- --	AEC 250 AEC 253 PS 201 PS 205	Complete 1(one) course Other options available post-transfer. Work with OSU advisor for course selection

## Advising Contacts

Academic advisors at your community college and OSU are available to answer your questions and assist you in creating a transfer plan. **See your community college advisor first and use this Transfer Guide to help you**

**plan.** It is important to speak with your OSU academic advisor early on, and often, to ensure correct course selection and sequencing. See [visitosu.oregonstate.edu/visit-campus](https://visitosu.oregonstate.edu/visit-campus) to schedule your personalized visit.

<b>Tillamook Bay Community College</b>	<a href="https://tillamookbaycc.edu/programs-services/degree-partnership-program">tillamookbaycc.edu/programs-services/degree-partnership-program</a>
<b>OSU College of Agricultural Sciences Student Advisor</b>	Kelly Donegan 541-737-5448 <a href="mailto:Katherine.donegan@oregonstate.edu">Katherine.donegan@oregonstate.edu</a>

## General Education Courses (called the Baccalaureate Core)

- Complete one course in each Perspective category with no more than two in the same department.
- Full listing of Tillamook Bay CC courses that fulfill Bacc Core requirements: [admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-tillamook-bay-community-college](https://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-tillamook-bay-community-college)

<b>SKILLS COURSES</b>	Math Writing I Writing II Speech (Writing III) Fitness (HHS 231 and 241)	Completed as part of major WR 121. Required to transfer. Can be completed as part of major: see advisor Choose one course from BaccCore link above PE 291
<b>PERSPECTIVE COURSES</b>	Biological Science Physical Science Additional Biological or Physical Science Cultural Diversity Literature and the Arts Social Processes and Institutions Western Culture	Completed as part of major Completed as part of major Completed as part of major Choose one course from BaccCore link above Choose one course from BaccCore link above Completed as part of major Choose one course from BaccCore link above
<b>DPD COURSE</b>	Difference, Power, & Discrimination	Can be completed as part of major: see advisor
<b>SYNTHESIS COURSES</b>	Contemporary Global Issues Science, Technology, & Society	Upper division course, take through OSU Upper division course, take through OSU

## Horticulture option descriptions

**Ecological Management of Turf, Landscape, & Urban Horticulture** – The Turf Management program works to develop ecological and sustainable ways to manage large grassed areas, such as golf courses, athletic fields, and parks. In the Landscape and Urban Horticulture program, students will learn about sustainable landscape management, urban forestry, and the ecosystem services provided by the built environment, such as carbon sequestration and climate regulation, temperature modulation, waste decomposition and detoxification, purification of water and air, storm and rainwater management, crop pollination, pest and disease control, nutrient dispersal and cycling, seed dispersal, intellectual and spiritual inspiration, recreational experiences, and scientific discovery. Landscape professionals design, build, and manage aesthetically pleasing, functional, and environmentally responsible natural spaces where we all live, work, and play. Some focus is on ecological restoration of disturbed habitats.

**General Horticulture** (on-line option) – provides students with a strong foundation in horticultural science. Recommended for students already working in the horticultural industry, whose careers will benefit from post-secondary education in the horticultural sciences.

**Plant Breeding & Genetics** - Students in the Plant Breeding and Genetics Option will learn an interdisciplinary approach to applied plant breeding by taking courses across a broad spectrum of disciplines. The option may be tailored to meet students' career goals including graduate school, as well as directly entering public or private sector breeding programs. After completing the degree, students will have gained fundamental knowledge in plant breeding that may be applied in a range of crops including annual and perennial horticultural crops, agronomic food and feed crops, and forestry products. See note on last page.

**Sustainable Horticultural Production** – Students will gain skills & knowledge necessary to manage integrated & organic fruit, nut, and vegetable farms, fields and orchards, along with nursery and greenhouse production systems. You will gain knowledge & experience in integrated pest management, plant propagation, plant nutrition, soil science, ecology, agricultural policies & business.

**Therapeutic Horticulture** – prepares students with the skills and knowledge needed to design healing and adapted gardens and to provide therapy programs used to improve the quality of people's lives. The curriculum stresses effectively treating many types of clients, including senior citizens with physical or cognitive issues, individuals with developmental disabilities, and at-risk youth with the restorative powers of gardens, landscapes, and greenscapes. Graduates of this option may become Registered Horticultural Therapists, Community Garden Coordinators, and Rehabilitation Program Coordinators.

**Viticulture and Enology** – this option is designed to support student learning about sustainable grape production practices that consider vine and vineyard health. Recent graduates of the Viticulture and Enology option have become vineyard managers, viticulturalists, consultants, and winemakers.

**Refer to Horticulture: Horticulture Research Transfer Guide if interested in option below:**

**Horticultural Research** – This option is designed for students interested in graduate school and/or a career in academic or industrial research. It provides an excellent foundation in the natural sciences and horticulture, and accommodates specific research interests. Studies will involve critical thinking, and allow students to seek out, synthesize, and apply information from many sources to analyze novel situations and solve problems. Option requires a research project under the guidance of a faculty mentor, and an undergraduate thesis.