

Major Offered At:

CORVALLIS

ECAMPUS

**Blue Mountain  
Community College**

## Crop and Soil Science

Want to get your hands dirty while making a difference? Our students work on solving the most complex agricultural and natural resource problems faced in Oregon, our nation and across the globe.

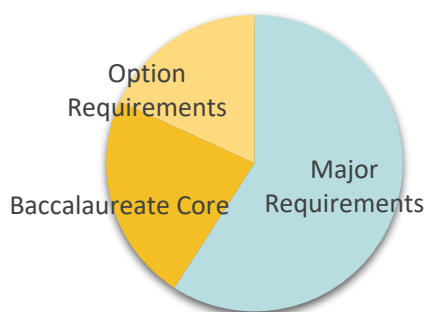
Students who want to make a measurable difference in our communities are perfect candidates for a degree in either crop science or soil science. Graduates of our program are in demand across the United States.

Students must select from one option:

- Agronomy
- Plant Breeding and Genetics
- Soil Science (also available via Ecampus)

The Crop and Soil Science major in the OSU Ag Program at LaGrande will not be accepting new students effective January 1, 2022. Current students will be able to complete their major through a combination of in person, remote, and Ecampus courses through the OSU Ag Program.

## Your Bachelor's Degree (BS) in Crop and Soil Science



- 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.
- More info for Corvallis Campus: <https://cropandsoil.oregonstate.edu/degree/crop-and-soil-science-bs-degree>

## Courses Required for Crop and Soil Science Major

CSS Core Requirements This list is not comprehensive. Contact an OSU advisor for more information.	BMCC Equivalent Course	OSU Course	Notes
Biology	BI 211	BI LD2	-Only select one full series (either all 211-213 or all of 221-223) -OSU now only offers BI 221-223. If taking BI 211-213, you must take entire series at Blue Mountain CC. Refer to <a href="https://admissions.oregonstate.edu/ld1-and-ld2-explained">https://admissions.oregonstate.edu/ld1-and-ld2-explained</a> to learn more about BI LD2 equivalency.
Principles of Biology	BI 212	BI LD2	
Principles of Biology	BI 213	BI LD2	
	--	BI 221	
	--	BI 222	
	--	BI 223	
Intro to Crop & Soil Science	--	SOIL 101	Available online at OSU
Soil Science	--	SOIL 205/206	Available online at OSU as CSS 205

## Courses Required for Crop & Soil Science Major: Option specific coursework

CSS Option Requirements	BMCC Course	OSU Course	Notes
<b>Agronomy</b>			
Chemistry	CH 221 CH 222 CH 223	CH 231/261 CH 232/262 CH 233/263	Lecture & lab for 200-level Chemistry have separate course numbers at OSU

Calculus	MTH 241 -- MTH 251	MTH 241 MTH 245 MTH 251	Complete one(1) course from options All courses listed = Available online at OSU
Crop Ecology & Morphology	CSS 201	CROP 200	Available online at OSU
Ag and Food Management	--	AEC 211	Available online at OSU
Ag and Food Marketing	AGR 221	AEC 221	Available online at OSU
Economics	-- EC 201	AEC 250 ECON 201	Complete one(1) course from options AEC 250: Available online at OSU
General Electives Physics Technical Writing Microbiology Organic Chemistry	PHY 201 WR 227 BI 234 CH 241 CH 243 CH 242	PH 201 WR 327 (LD) MB 230 CH 331 CH 332 CH 337	Complete 7-8 credits (LD) = Lower Division Transfer Must pass the ACS organic exam offered as part of Clackamas course to receive upper division credit: <a href="http://chemistry.oregonstate.edu/content/organic-chemistry-transfer-policies">chemistry.oregonstate.edu/content/organic-chemistry-transfer-policies</a>
<b>Plant Breeding &amp; Genetics (cross listed with Horticulture)</b>			
Chemistry	-- -- --	CH 121 CH 122 CH 123	CH 121-123 available online at OSU Only select one full sequence (either all 100-level, or 200-level)
	CH 221 CH 222 CH 223	CH 231/261 CH 232/262 CH 233/262	Lecture & lab for 200-level Chemistry have separate course numbers at OSU
Math Elementary Functions Calculus	MTH 112 MTH 241 -- MTH 251	MTH 112 MTH 241 MTH 245 MTH 251	Complete one(1) course from options All courses listed = Available online at OSU
Plant Materials Crop Eco & Morph Landscape PM 1 Landscape PM 2 Herbaceous Ornamental	CSS 201 -- -- --	CROP 200 HORT 226 HORT 228 HORT 255	Complete one(1) course from options All courses listed = Available online at OSU
<b>Soil Science (continued on next page)</b>			
Chemistry	-- -- --	CH 121 CH 122 CH 123	CH 121-123 available online at OSU Only select one full sequence (either all 100-level, or 200-level)
	CH 221 CH 222 CH 223	CH 231/261 CH 232/262 CH 233/262	Lecture & lab for 200-level Chemistry have separate course numbers at OSU
College Algebra	MTH 111	MTH 111	Minimum requirement; see TRACK for more detail below
Crop Ecology & Morphology	CSS 201	CROP 200	Other course options available post-transfer
General Electives Ag and Food Mgmt Economics Gen Chm. Living Systems Organic Chemistry Organic Chemistry Calculus Calculus Physics Physics Org. Farm & Garden	-- -- -- CH 241 CH 243 MTH 251 MTH 252 PHY 201 PHY 202 --	AEC 211 AEC 250 CH 130 CH 331 (LD) CH 332 (LD) MTH 251 MTH 252 PH 201 PH 202 HORT 260	Complete 12 credits (LD) = Lower Division Transfer All courses listed = Available online at OSU If interested in pursuing graduate school, recommended for students to complete entire Physics series: PH 201, 202, 203 If complete MTH 251 or 252, will also fulfill the MTH 111 requirement

CHOOSE TRACK: Soil Research, General soils

<b>SOIL RESEARCH</b>			
Earth Science	G 201 G 202 G 203 --	GEO 201 GEO 202 GEO 203 GEO 221	Complete one(1) course from Earth Science options, complete Calculus, and all Physics  GEO 221/101= Available online at OSU
Calculus Physics	G 101 MTH 251 PHY 201 PHY 202	GEO 101 MTH 251 PH 201 PH 202	If interested in pursuing graduate school, recommended for students to complete entire Physics series: PH 201, 202, 203
			If complete MTH 251, will fulfill the MTH 111 req.
<b>General Soils</b>			
Earth Science	G 201 G 202 G 203 --	GEO 201 GEO 202 GEO 203 GEO 221	Complete one(1) course from Earth Science options, and one(1) course from the Math options  GEO 221, MTH 245 = Available online at OSU
Math	G 101 MTH 112 MTH 241 --	GEO 101 MTH 112 MTH 241 MTH 245	If complete MTH 112, 241, OR 245 will also fulfill the MTH 111 requirement

## 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 Blue Mountain CC courses that fulfill Bacc Core requirements:  
[admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-blue-mountain-community-college](https://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-blue-mountain-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 HPE 295
<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

## Important Notes & Resources

- See a [sample degree plan](#) by searching "Crop and Soil Science" in the OSU Catalog at [catalog.oregonstate.edu](https://catalog.oregonstate.edu). Or find a sample degree plan on the Crop and Soil Science Degree Fact Sheet [agsci.oregonstate.edu/degree-fact-sheet/crop-soil-science](https://agsci.oregonstate.edu/degree-fact-sheet/crop-soil-science).
- Crop and Soil Science offers 3 options which allow students to specialize. The options are [Agronomy](#), [Plant Breeding and Genetics](#), and [Soil Science](#). More details can be found by searching "Crop and Soil Science" in the OSU Catalog at [catalog.oregonstate.edu](https://catalog.oregonstate.edu)
- Other similar majors to explore: [Horticulture](#), [Botany](#), and [Biology](#). Check out all OSU programs at [catalog.oregonstate.edu](https://catalog.oregonstate.edu).
- 100 and 200 level and lower division Baccalaureate Core are priority courses to complete before transferring to OSU.
- For Crop and Soil Sciences students, the best time to transfer is fall term, particularly due to the Crop and Soil Science series courses. Talk with an OSU advisor about your specific timeline.
- It is important to speak with the Crop and Soil Science Advisor, [Stefan Seiter](#), early on, and often, to ensure correct course selection and sequencing for programs offered at the Corvallis campus and via Ecampus. Stefan

can be reached at [stefan.seiter@oregonstate.edu](mailto:stefan.seiter@oregonstate.edu).

**Resources and OSU Information:**

- Students do not have to complete a transfer degree in order to transfer to OSU.
  - If you've completed the Oregon AAOT, all requirements of the Baccalaureate Core are complete except for Synthesis Courses and Writing Intensive Courses.
- Preparing to apply to OSU? See transfer student admissions info: [transfer.oregonstate.edu](https://transfer.oregonstate.edu)
- Want to take classes at both OSU and an Oregon community college? Check out the Degree Partnership Program: [partnerships.oregonstate.edu/students](https://partnerships.oregonstate.edu/students)
- Visit OSU for a campus tour and meet with an advisor; schedule your visit at [visitosu.oregonstate.edu/visit-campus](https://visitosu.oregonstate.edu/visit-campus).

## 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. To schedule a visit, go to Corvallis campus: [visitosu.oregonstate.edu/visit-campus](https://visitosu.oregonstate.edu/visit-campus).

<b>Blue Mountain Community College</b>	<a href="https://bluecc.edu/enrollment-services/advising">bluecc.edu/enrollment-services/advising</a>
<b>OSU College of Agricultural Sciences Student Advisor</b>	Stefan Seiter 541-737-6372 <a href="mailto:stefan.seiter@oregonstate.edu">stefan.seiter@oregonstate.edu</a>

OSU College of Agricultural Sciences prohibits discrimination in all its programs, services, activities, and materials.