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://cropandspecial.oregonstate.edu/degree/crop-and-soil-science-bs-degree](https://cropandspecial.oregonstate.edu/degree/crop-and-soil-science-bs-degree)

### Courses Required for Crop and Soil Science Major

#### CSS Core Requirements

<table>
<thead>
<tr>
<th>Equivalent Clatsop Course</th>
<th>OSU Course</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI 211</td>
<td>BI LD2</td>
<td>-Only select one full series (either all 211-213 or all of 221-223)</td>
</tr>
<tr>
<td>BI 212</td>
<td>BI LD2</td>
<td>-OSU now only offers BI 221-223. If taking BI 211-213, you must take entire series at Clatsop CC.</td>
</tr>
<tr>
<td>BI 213</td>
<td>BI LD2</td>
<td></td>
</tr>
<tr>
<td>BI 231/261</td>
<td>BI 221</td>
<td>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.</td>
</tr>
<tr>
<td>BI 232/262</td>
<td>BI 222</td>
<td></td>
</tr>
<tr>
<td>BI 233/263</td>
<td>BI 223</td>
<td></td>
</tr>
</tbody>
</table>

#### 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

#### Agronomy

<table>
<thead>
<tr>
<th>Chemistry</th>
<th>OSU Course</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 221</td>
<td>CH 231/261</td>
<td>Lecture &amp; lab for 200-level Chemistry have separate course numbers at OSU</td>
</tr>
<tr>
<td>CH 222</td>
<td>CH 232/262</td>
<td></td>
</tr>
<tr>
<td>CH 223</td>
<td>CH 233/263</td>
<td></td>
</tr>
</tbody>
</table>

[Updated September 2022](#)
## Calculus
```
---
---
MTH 251
---
MTH 245
MTH 251
```
Complete one course from options
All courses listed = Available online at OSU

## Agronomy (cont. from previous page)

### Crop Ecology & Morphology
```
---
CROP 200
```
Available online at OSU

### Ag and Food Management
```
---
AEC 211
```
Available online at OSU

### Ag and Food Marketing
```
---
AEC 221
```
Available online at OSU

### Economics
```
---
EC 201
```
AEC 250
ECON 201
Complete one course from options
AEC 250: Available online at OSU

### General Electives

#### Physics
```
PH 201
WR 227
BI 234
```
CH 331
CH 332
CH 337
Complete 7-8 credits
(LD) = Lower Division Transfer
CH 331/332 = Available online at OSU

#### Technical Writing
```
```

#### Microbiology
```
```

#### Organic Chemistry
```
```

## Plant Breeding & Genetics

**(cross listed with Horticulture)**

### 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
```
MTH 112
```
MTH 112
Complete one course from options
All courses listed = Available online at OSU

#### Calculus
```
---
MTH 241
MTH 245
MTH 251
```

### Plant Materials

#### Crop Eco & Morph
```
---
CROP 200
```
Complete one course from options
All courses listed = Available online at OSU

#### Landscape PM 1
```
---
HORT 226
```

#### Landscape PM 2
```
---
HORT 228
```

#### Herbaceous Ornamental
```
---
HORT 255
```

## Soil Science

**(continued on next page)**

### 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
```
Minimum requirement; see TRACK for more detail below

### Crop Ecology & Morphology
```
---
CROP 200
```
Other course options available post-transfer

### General Electives

#### Ag and Food Mgmt
```
---
AEC 211
```
All courses listed = Available online at OSU

#### Economics
```
---
AEC 250
```
If interested in pursuing graduate school, recommended for students to complete entire Physics series:

#### Gen Chem. Living Systems
```
---
CH 130
```
PH 201, 202, 203

#### Organic Chemistry
```
---
CH 331
```

#### Organic Chemistry
```
---
CH 332
```

#### Calculus
```
MTH 251
```
If complete MTH 251 or 252, will also fulfill the MTH 111 requirement

#### Calculus
```
MTH 252
```

#### Physics
```
PH 201
PH 202
```

#### Org. Farm & Garden
```
---
HORT 260
```

---

Updated September 2022
**Soil Science** (continued from previous page)

**CHOOSE TRACK:** Soil Research, General soils

<table>
<thead>
<tr>
<th>SOIL RESEARCH</th>
<th>G 201</th>
<th>GEO 201</th>
<th>Complete one(1) course from Earth Science options, complete Calculus, and all Physics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earth Science</td>
<td>G 202</td>
<td>GEO 202</td>
<td>GEO 221= Available online at OSU</td>
</tr>
<tr>
<td>G 203</td>
<td>GEO 203</td>
<td>GEO 221= Available online at OSU</td>
<td></td>
</tr>
<tr>
<td>--</td>
<td>GEO 101</td>
<td>If interested in pursuing graduate school, recommended for students to complete entire Physics series: PH 201, 202, 203</td>
<td></td>
</tr>
<tr>
<td>Calculus</td>
<td>MTH 251</td>
<td>MTH 251</td>
<td>If complete MTH 251, will fulfill the MTH 111 req.</td>
</tr>
<tr>
<td>Physics</td>
<td>PH 201</td>
<td>PH 201</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PH 202</td>
<td>PH 202</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>General Soils</th>
<th>G 201</th>
<th>GEO 201</th>
<th>Complete one(1) course from Earth Science options, and one(1) course from the Math options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earth Science</td>
<td>G 202</td>
<td>GEO 202</td>
<td>GEO 221/101, MTH 241/245 = Available online at OSU</td>
</tr>
<tr>
<td>G 203</td>
<td>GEO 203</td>
<td></td>
<td></td>
</tr>
<tr>
<td>--</td>
<td>GEO 221</td>
<td></td>
<td></td>
</tr>
<tr>
<td>--</td>
<td>GEO 101</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Math</td>
<td>MTH 112</td>
<td>MTH 112</td>
<td>If complete MTH 112, 241, OR 245 will also fulfill the MTH 111 requirement</td>
</tr>
<tr>
<td></td>
<td>MTH 241</td>
<td></td>
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<tr>
<td></td>
<td>MTH 245</td>
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</table>

**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 Clatsop CC courses that fulfill Bacc Core requirements: [admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-clatsop-community-college](admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-clatsop-community-college)

<table>
<thead>
<tr>
<th>SKILLS COURSES</th>
<th>Math</th>
<th>Writing I</th>
<th>Writing II</th>
<th>Speech (Writing III)</th>
<th>Fitness (HHS 231 and 241)</th>
<th>Completed as part of major WR 121. Required to transfer.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td>Can be completed as part of major: see advisor</td>
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<td></td>
<td>Choose one course from BaccCore link above HPE 295</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PERSPECTIVE COURSES</th>
<th>Biological Science</th>
<th>Physical Science</th>
<th>Additional Biological or Physical Science</th>
<th>Cultural Diversity</th>
<th>Literature and the Arts</th>
<th>Social Processes and Institutions</th>
<th>Western Culture</th>
<th>Completed as part of major</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>DPD COURSE</th>
<th>Difference, Power, &amp; Discrimination</th>
<th>Can be completed as part of major: see advisor</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>SYNTHESIS COURSE</th>
<th>Contemporary Global Issues Science, Technology, &amp; Society</th>
<th>Upper division course, take through OSU</th>
</tr>
</thead>
</table>

**Important Notes & Resources**

- See a [sample degree plan](http://catalog.oregonstate.edu) by searching "Crop and Soil Science" in the OSU Catalog at [catalog.oregonstate.edu](catalog.oregonstate.edu). Or find a sample degree plan on the Crop and Soil Science Degree Fact Sheet [agsci.oregonstate.edu/degree-factsheet/crop-soil-science](agsci.oregonstate.edu/degree-factsheet/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](catalog.oregonstate.edu).
- Other similar majors to explore: Horticulture, Botany, and Biology. Check out all OSU programs at [catalog.oregonstate.edu](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.

Resources and OSU Information:
• Students do not have to complete a transfer degree in order to transfer to OSU.
  o 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
• Want to take classes at both OSU and an Oregon community college? Check out the Degree Partnership Program: partnerships.oregonstate.edu/students
• Visit OSU for a campus tour and meet with an advisor; schedule your visit at 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 and LaGrande campus: https://www.eou.edu/admissions/visit/.

<table>
<thead>
<tr>
<th>Clatsop Community College</th>
<th>clatsopcc.edu/academic-planning/academic-advising/</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSU College of Agricultural Sciences</td>
<td>Stefan Seiter</td>
</tr>
<tr>
<td>Student Advisor</td>
<td>541-737-6372</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:seiters@oregonstate.edu">seiters@oregonstate.edu</a></td>
</tr>
</tbody>
</table>

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