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)

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: agsci.oregonstate.edu/degree/crop-and-soil-science-bs-degree
- More info for LaGrande Campus: https://agsci.oregonstate.edu/agprogrameou/degree/crop-soil-sciences

Courses Required for Crop and Soil Science Major

This list is not comprehensive. Contact an OSU advisor for more information.

<table>
<thead>
<tr>
<th>CSS Core Requirements</th>
<th>Equivalent Rogue Course</th>
<th>OSU Course</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>BI 211</td>
<td>BI LD2</td>
<td>-Only select one series (either all 211-213 or all of 221-223)</td>
</tr>
<tr>
<td></td>
<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 Rogue 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.</td>
</tr>
<tr>
<td></td>
<td>BI 213</td>
<td>BI LD2</td>
<td></td>
</tr>
<tr>
<td>Intro to Crop &amp; Soil Science</td>
<td>--</td>
<td>SOIL 101</td>
<td>Available online at OSU</td>
</tr>
<tr>
<td>Soil Science</td>
<td>--</td>
<td>SOIL 205/206</td>
<td>Available online at OSU as CSS 205</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CSS Option Requirements</th>
<th>Rogue Course</th>
<th>OSU Course</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agronomy</td>
<td>CHEM 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></td>
<td>CHEM 222</td>
<td>CH 232/262</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CHEM 223</td>
<td>CH 233/263</td>
<td></td>
</tr>
</tbody>
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### Courses Required for Crop & Soil Science Major: Option specific coursework

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<th>CSS Option Requirements</th>
<th>Rogue Course</th>
<th>OSU Course</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Agronomy</strong> (cont. from previous page)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crop Ecology &amp; Morphology</td>
<td>--</td>
<td>CROP 200</td>
<td>Available online at OSU</td>
</tr>
<tr>
<td>Ag and Food Management</td>
<td>--</td>
<td>AEC 211</td>
<td>Available online at OSU</td>
</tr>
<tr>
<td>Ag and Food Marketing</td>
<td>--</td>
<td>AEC 221</td>
<td>Available online at OSU</td>
</tr>
<tr>
<td>Economics</td>
<td>--</td>
<td>ECON 201</td>
<td>AEC 250: Available online at OSU</td>
</tr>
<tr>
<td>General Electives</td>
<td></td>
<td></td>
<td>Complete 7-8 credits</td>
</tr>
<tr>
<td>Physics</td>
<td>PH 201</td>
<td>PH 201</td>
<td>(LD) = Lower Division Transfer</td>
</tr>
<tr>
<td>Technical Writing</td>
<td>WR 227</td>
<td>WR 327 (LD)</td>
<td></td>
</tr>
<tr>
<td>Microbiology</td>
<td>BI 234</td>
<td>CH 331</td>
<td>CH 331/332: Available online at OSU</td>
</tr>
<tr>
<td>Organic Chemistry</td>
<td>--</td>
<td>CH 332</td>
<td></td>
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<tr>
<td>--</td>
<td>CH 337</td>
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#### Plant Breeding & Genetics

*(cross listed with Horticulture)*

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<tr>
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</thead>
<tbody>
<tr>
<td>Crop Eco &amp; Morph</td>
<td>--</td>
<td>CROP 200</td>
<td>Complete one(1) course from options</td>
</tr>
<tr>
<td>Landscape PM 1</td>
<td>--</td>
<td>HORT 226</td>
<td>All courses listed: Available online at OSU</td>
</tr>
<tr>
<td>Landscape PM 2</td>
<td>--</td>
<td>HORT 228</td>
<td></td>
</tr>
<tr>
<td>Herbaceous Ornamental</td>
<td>--</td>
<td>HORT 255</td>
<td></td>
</tr>
</tbody>
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#### Soil Science (continued on next page)

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<tr>
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</thead>
<tbody>
<tr>
<td>Crop Ecology &amp; Morphology</td>
<td>--</td>
<td>CROP 200</td>
<td>Other course options available post-transfer Available online at OSU</td>
</tr>
<tr>
<td>General Electives</td>
<td></td>
<td></td>
<td>Complete 12 credits</td>
</tr>
<tr>
<td>Ag and Food Mgmt</td>
<td></td>
<td>AEC 211</td>
<td></td>
</tr>
<tr>
<td>Economics</td>
<td></td>
<td>AEC 250</td>
<td>All courses listed = Available online at OSU</td>
</tr>
<tr>
<td>Gen Chm. Living Systems</td>
<td></td>
<td>CH 130</td>
<td></td>
</tr>
<tr>
<td>Organic Chemistry</td>
<td></td>
<td>CH 331</td>
<td></td>
</tr>
<tr>
<td>Organic Chemistry</td>
<td></td>
<td>CH 332</td>
<td>If interested in pursuing graduate school, recommended for students to complete entire Physics series: PH 201, 202, 203</td>
</tr>
<tr>
<td>Calculus</td>
<td>MTH 251</td>
<td>MTH 251</td>
<td></td>
</tr>
<tr>
<td>Calculus</td>
<td>MTH 252</td>
<td>MTH 252</td>
<td></td>
</tr>
<tr>
<td>Physics</td>
<td>PH 201</td>
<td>PH 201</td>
<td></td>
</tr>
<tr>
<td>Physics</td>
<td>PH 202</td>
<td>PH 202</td>
<td></td>
</tr>
<tr>
<td>Org. Farm &amp; Garden</td>
<td>--</td>
<td>HORT 260</td>
<td>If complete MTH 251 or 252, will also fulfill the MTH 111 requirement</td>
</tr>
</tbody>
</table>

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*Updated October 2020*
Courses Required for Crop & Soil Science Major: Option specific coursework

<table>
<thead>
<tr>
<th>Soil Science</th>
<th>(continued from previous page)</th>
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**SOIL RESEARCH**

Earth Science
- G 201
- G 202
- G 203
- G 204
- MTH 251
- PH 201
- PH 202

**Calculus**
- MTH 251
- MTH 252
- MTH 253

**Physics**
- PH 201
- PH 202

Complete one(1) course from Earth Science options, complete Calculus, and all Physics
- GEO 201
- GEO 202
- GEO 203
- GEO 211
- MTH 251
- MTH 252
- MTH 253

GEO 221/101 = 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, will fulfill the MTH 111 req.

**General Soils**

Earth Science
- G 101
- G 102
- G 103
- G 104
- MTH 112

Math
- MTH 112

Complete one(1) course from Earth Science options, and one(1) course from the Math options
- GEO 201
- GEO 202
- GEO 203
- GEO 211
- G 101
- G 102
- G 103
- G 104
- MTH 112
- MTH 241
- MTH 245

GEO 221/101, MTH 241/245 = Available online at OSU
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 Rogue CC courses that fulfill Bacc Core requirements: admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-rogue-community-college

**SKILLS COURSES**

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

**PERSPECTIVE COURSES**

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

**DPD COURSE**

Difference, Power, & Discrimination

Can be completed as part of major: see advisor

**SYNTHESIS COURSES**

Contemporary Global Issues
- Science, Technology, & Society

Upper division course, take through OSU
- Upper division course, take through OSU

**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/.

**Rogue Community College**

web.roguecc.edu/advising

**OSU College of Agricultural Sciences**

Student Advisor
- Stefan Seiter
  - 541-737-6372
  - seiters@oregonstate.edu
- Michelle Hines, OSU AG & NR Program at EOU in LaGrande, 541-962-3047
  - michelle.hines@oregonstate.edu

**Updated October 2020**