Rangeland Sciences

Rangeland sciences is the study and sustainable management of rangelands across a variety of biomes, from arid deserts, to mesic grasslands, to tropical savannahs. The program takes an interdisciplinary approach to provide advanced scientific knowledge regarding multiple ecological processes and social drivers influencing rangeland ecosystems around the globe.

Students gain the skills and knowledge needed to fully understand and effectively manage rangelands.

Students may select an option from:
- Habitat Management
- Pastoral Systems of the World
- Sustainable Livestock Ranching
- Sustainable Rangeland Ecosystem Stewardship

Your Bachelor’s Degree (BS) in Rangeland Sciences

Courses Required for Rangeland Sciences Major

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

<table>
<thead>
<tr>
<th>Rangeland Science Core Requirements</th>
<th>Equivalent LBCC Course</th>
<th>OSU Course</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus for Management &amp; Social Sci.</td>
<td>MTH 241</td>
<td>MTH 241</td>
<td></td>
</tr>
<tr>
<td>Principles of Statistics</td>
<td>MTH 243</td>
<td>ST 201</td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>BI 211</td>
<td>BI 204</td>
<td>Only select one full series (either all 211-213 or all of 221-223)</td>
</tr>
<tr>
<td>Intro to Biology</td>
<td>--</td>
<td>BI 205</td>
<td>OSU now only offers BI 221-223. If taking BI 211-213, you must take entire series at LBCC.</td>
</tr>
<tr>
<td>Principles of Biology</td>
<td>BI 212</td>
<td>BI 206</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BI 213</td>
<td>BI 221</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>BI 222</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>BI 223</td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>CH 121</td>
<td>CH 121</td>
<td>CH 121-123: Available online at OSU</td>
</tr>
<tr>
<td></td>
<td>CH 122</td>
<td>CH 122</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CH 123</td>
<td>CH 123</td>
<td></td>
</tr>
<tr>
<td>Communication</td>
<td>WR 227</td>
<td>WR 327 (LD)</td>
<td>(LD) = Lower division transfer</td>
</tr>
<tr>
<td></td>
<td>COMM 111</td>
<td>COMM 111</td>
<td></td>
</tr>
<tr>
<td></td>
<td>COMM 114</td>
<td>COMM 114</td>
<td></td>
</tr>
<tr>
<td></td>
<td>COMM 218</td>
<td>COMM 218</td>
<td></td>
</tr>
<tr>
<td>Technical Writing</td>
<td>RING 121</td>
<td>Available online at OSU</td>
<td></td>
</tr>
<tr>
<td>Intro to Wildland Ecology</td>
<td>FW 255</td>
<td>Available online at OSU</td>
<td></td>
</tr>
<tr>
<td>Soil Science</td>
<td>CSS 205</td>
<td>SOIL 205/206</td>
<td>Complete one(1) option</td>
</tr>
<tr>
<td>Soil Science + Lab</td>
<td>CSS 205</td>
<td>CSS 205</td>
<td></td>
</tr>
<tr>
<td>Principles of Soil Science</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Field Sampling of Fish and Wildlife</td>
<td>ANS 210/211</td>
<td>ANS 313 (LD)</td>
<td>(LD) = Lower division transfer</td>
</tr>
<tr>
<td>Applied Animal Nutrition</td>
<td>ANS 210/211</td>
<td>ANS 313 (LD)</td>
<td></td>
</tr>
</tbody>
</table>

Courses Required for Rangeland Sciences Major: Option specific

Note: Students are not required to complete an option

<table>
<thead>
<tr>
<th>Habitat Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Resources Management</td>
</tr>
<tr>
<td>Managing NR for Future</td>
</tr>
<tr>
<td>NR Problems &amp; Solutions</td>
</tr>
<tr>
<td>All courses listed: Available online at OSU</td>
</tr>
</tbody>
</table>
Courses Required for Rangeland Sciences Major: Option specific, cont.

Note: Students are not required to complete an option

<table>
<thead>
<tr>
<th>Additional course requirements</th>
<th>LBCC Course</th>
<th>OSU Course</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Systems</td>
<td></td>
<td>AEC 243</td>
<td>Complete two(2) courses from options. Other courses available post-transfer; speak with advisor for selection</td>
</tr>
<tr>
<td>Global Poverty &amp; Sustain. Develop.</td>
<td>--</td>
<td>GEOG 105</td>
<td>GEOG 105/203: Available online at OSU</td>
</tr>
<tr>
<td>Geography of Non-Western World</td>
<td>--</td>
<td>GEOG 203</td>
<td></td>
</tr>
<tr>
<td>Human-Environment Geography</td>
<td>--</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Sustainable Livestock Ranching

| Livestock Management          | ANS 121     | ANS 121     | Complete 9 credits from options; other courses available post-transfer; speak with advisor for selection |
| Intro to Animal Science       | ANS 215     | ANS 215     | ANS 121: Available online at OSU |
| Small Ruminant/Swine          | ANS 216A    | ANS 216     | |

Business Management

| Ag & Food Management          | AEC 211     | AEC 251     | Complete 6 credits from options; other courses available post-transfer; speak with advisor for selection |
| Intro to Ag & Food Economics  | --          |            | ANS 211: Available online at OSU |

Sustainable Rangeland Ecosystem Stewardship

| Deeper Plants, Soils, and Water | --          | FES 240     | Complete 12 credits from options; other courses available post-transfer; speak with advisor for selection |
| Forest Biology                 | --          | FES 241     | All courses listed: Available online at OSU |
| Dendrology                     | --          |            | |

Business Management

| Intro to Animal Science        | ANS 121     | ANS 121     | Complete 6 credits from options; other courses available post-transfer; speak with advisor for selection |
| Beef/Dairy Industries          | ANS 215     | ANS 215     | ANS 121: Available online at OSU |
| Small Ruminant/Swine           | ANS 216A    | ANS 216     | |

Deeper Natural Resource Mgmt.

| Environmental Law, Policy, Econ. | --          | AEC 253     | Complete 9 credits from options; other courses available post-transfer; speak with advisor for selection |
| Managing NR for Future          | --          | NR 201      | All courses listed: Available online at OSU |
| NR Problems & Solutions         | --          | NR 202      | |
| Recreation Resource Mgmt.       | --          | TRAL 251    | |

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 Linn-Benton CC courses that fulfill Bacc Core requirements: admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-linn-benton-community-college

<table>
<thead>
<tr>
<th>SKILLS COURSES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Math</td>
<td>Completed as part of major</td>
</tr>
<tr>
<td>Writing I</td>
<td>WR 121. Required to transfer.</td>
</tr>
<tr>
<td>Writing II</td>
<td>Completed as part of major: see advisor for options</td>
</tr>
<tr>
<td>Speech (Writing III)</td>
<td>Completed as part of major: see advisor for options</td>
</tr>
<tr>
<td>Fitness (HHS 231 and 241)</td>
<td>PE 231</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PERSPECTIVE COURSES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological Science</td>
<td>Completed as part of major</td>
</tr>
<tr>
<td>Physical Science</td>
<td>Completed as part of major</td>
</tr>
<tr>
<td>Additional Biological or Physical Science</td>
<td>Completed as part of major</td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td>Completed as part of major</td>
</tr>
<tr>
<td>Literature and the Arts</td>
<td>Choose one course from BaccCore link above</td>
</tr>
<tr>
<td>Social Processes and Institutions</td>
<td>Choose one course from BaccCore link above</td>
</tr>
<tr>
<td>Western Culture</td>
<td>Completed as part of major: see advisor for options</td>
</tr>
<tr>
<td></td>
<td>Choose one course from BaccCore link above</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DPD COURSE</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Difference, Power, &amp; Discrimination</td>
<td>Choose one course from BaccCore link above</td>
</tr>
</tbody>
</table>

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

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/.

Linn-Benton Community College
linnbenton.edu/current-students/student-support/advising-center/index.php

OSU College of Agricultural Sciences Student Advisor
Dodi Reesman
541-737-4761
Dodi.reesman@oregonstate.edu
Michelle Hines, OSU AG & NR Program at EOU in LaGrande, 541-962-3047
michelle.hines@oregonstate.edu

Updated October 2020