The Environmental Agriculture option in the Environmental Sciences BS program contains a selection of agricultural sciences courses in its core. In addition, the option offers courses clustered in a category of agricultural Ecology and Production, as well as another category focused on Societal Issues related to agriculture and the environment. Before embarking on this option, students first complete SOIL/CSS 205 Soil Science or CSS 395 World Soil Resources, either of which satisfies the Environmental Sciences core requirement in the Geosphere category.

This is a popular field for students both with and without direct agricultural experience from their family or personal backgrounds. The option draws students with an interest in alternative approaches to agriculture, either as a producer (e.g. organic farmer or gardener), a consumer, an environmental scientist, or all three.

Courses from a variety of fields contribute to this option, including especially horticulture, crop science, entomology, and soil science. Those in the Ecology and Production category have a science and/or agronomy orientation. They include plant and animal science courses, as well as those with a focus on cultivating a particular crop, the husbandry of specific animals, or the use of certain techniques. In the Societal Issues category, students can select courses on such topics as agricultural cooperatives, the decline in pollinators, genes and chemicals in agriculture, and food studies in a social justice perspective.

Students completing this option prepare for jobs in non-profits, urban agriculture promotion, and organic or alternative farming interests. Public sector jobs can be found in federal agencies like the Bureau of Land Management and U.S. Department of Agriculture. Depending on their orientation, graduates may also develop skill-sets in this option to work in a variety of state and county-level jobs related to agriculture.
The Environmental Agriculture option has a core of agricultural sciences courses and includes a variety of course possibilities in the areas of agricultural ecology and production, as well as societal issues related to agriculture and environmental science.

*Classes used to fulfill requirements in the specialization cannot double count with ENSC Core. All courses must be taken for a letter grade, no S/U grades. Students must earn at least a C- in upper division (300 or higher) major/option courses.*

**BACKGROUND COURSE:** Meets ENSC core requirement.

<table>
<thead>
<tr>
<th>On Campus</th>
<th>Ecampus</th>
</tr>
</thead>
</table>
| SOIL/CSS 205 Soil Science (4) | and SOIL 206 Soil Science Laboratory for Soil 205 (1) [+]
| or SOIL 395 World Soil Resources (3) [+], S |

**ENVIRONMENTAL AGRICULTURE CORE:** Select a minimum of 6-8 credits from below.

<table>
<thead>
<tr>
<th>On Campus</th>
<th>Ecampus</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 411 Introduction to Food Systems: Local to Global (3)</td>
<td>ANS 121 Introduction to Animal Sciences (4)</td>
</tr>
</tbody>
</table>
| CROP 280 Introduction to the Complexity of Oregon Cropping Systems (4) | CROP/HORT 300 Crop Production in Pacific Northwest Agroecosystems (4) [+]
| or CROP 200 Crop Ecology and Morphology (3) | ENT 311 Introduction to Insect Pest Management (4) [+]
| HORT 260 Organic Farming and Gardening (3) | HORT 301 The Biology of Horticulture (3) [+]
| HORT 318 Applied Ecology of Managed Ecosystems (3) [WIC] |

**ECOLOGY AND PRODUCTION:** Select a minimum of nine credits from below.

<table>
<thead>
<tr>
<th>On Campus</th>
<th>Ecampus</th>
</tr>
</thead>
</table>
| AGRI 438 Exploring World Agriculture (2) | ANS 215 Beef/Dairy Industries (3) [+]
| ANS 216 Sheep/Swine Industries (3) [+]
| ANS 217 Poultry Industries (3) | BEE 439 Irrigation Principles and Practices (4) [+]
| BOT 313 Plant Structure (4) [+]
| BOT 350 Introductory Plant Pathology (4) [+]
| CROP 310 Forage Production (4) [+]
| CROP 319 Principles of Field Crop Productions (3) [+]
| CROP 440 Weed Management (4) [+]
| CSS/HORT/PBG 431 Plant Genetics Recitation (1) [CSS 431 EOU LaGrande campus] | ENT 322 Honey Bee Biology and Beekeeping (3) |
| ENT 332 Honey Bee Biology and Beekeeping (3) | FES/HORT 350 Urban Forestry (3) [+]
| FES/NR/RNG 477 Agroforestry (3) [+], S | HORT 226 Landscape Plant Materials I: Deciduous Hardwoods and Conifer (4) |
| HORT 228 Landscape Plant Materials II: Spring Flowering Trees & Shrubs (4) | HORT 285 Permaculture Design and Theory: Certificate Course (4) |
| HORT 311 Plant Propagation (4) [+]|
HORT 314 Principles of Turfgrass Maintenance (4) [*]
HORT 315 Sustainable Landscapes: Maintenance, Conservation, Restore (4) [*]
HORT 316 Plant Nutrition (4) [*]
HORT 315 Sustainable Landscapes: Maintenance, Conservation, Restore (4) [*]
HORT 351 Floriculture and Greenhouse Systems (4) [*]
HORT 361 Plant Nursery Systems (4) [*]
HORT 380 Sustainable Landscape Design (3)
RNG 442 Rangeland-Animal Relations (4)

**SOCIETAL ISSUES:** Select a minimum of six credits from below.

AEC 372 Agricultural Cooperatives (3) [*]
AEC 442 Agricultural Business Management (4)
AEC 462 The Economic History of American Agriculture (3)
ANS 315 Contentious Social Issues in Animal Agriculture (3) [S]
ANTH 361 Food Studies in a Social Justice Perspective (4)
ANTH 486 Anthropology of Food (2-6) [*]
BI/FES/TOX 435 Genes and Chemicals in Agriculture: Value and Risk (3) [S, +]
CROP 330 World Food Crops (3) [+, G]
ENT/HORT 331 Pollinators in Peril (3) [+ G]
GEO 449 Geography of Food and Agriculture (3) [S]
HORT 319 Restoration Horticulture (3) [*]
HORT 330 Plagues, Pests and Politics (3) [S]
SUS 350 Sustainable Communities (4) [G]

400-level CROP, ENT, HORT courses may be added in consultation with an advisor.

Total Credits 27 (Background course not included)