APPLIED ECOLOGY OPTION

This option is offered within the following major(s):

- Environmental Sciences - College of Earth, Ocean, and Atmospheric Sciences (http://catalog.oregonstate.edu/college-departments/earth-ocean-atmospheric-sciences/environmental-sciences-bs-hbs)

Also available via Ecampus (http://ecampus.oregonstate.edu).

The Applied Ecology option is for Environmental Sciences students who seek to orient their studies around ecology. This is applied ecology and therefore includes geographic methods for measuring and data collection in ecological change. Students seeking a concentration in policy and management are encouraged to consider the Conservation, Resources, and Sustainability option.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BI 370</td>
<td>ECOLOGY</td>
<td>3</td>
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**Applied Ecology Core**

**Ecological Studies**

Select a minimum of one of the following: 3-4

- BOT 341 PLANT ECOLOGY
- FES 341 FOREST ECOLOGY
- FW 479 WETLANDS AND RIPARIAN ECOLOGY
- RNG 341 RANGELAND ECOLOGY AND MANAGEMENT

**Field Methods**

Select a minimum of one of the following: 3-4

- BI 371 *ECOLOGICAL METHODS
- BOT 440 FIELD METHODS IN PLANT ECOLOGY
- RNG 353 WILDLAND PLANT IDENTIFICATION

**Geographic Methods**

Select one to three of the following: 4-12

- GEOG 201 *FOUNDATIONS OF GEOSPATIAL SCIENCE AND GIS
- GEOG 360 GISCIENCE I: GEOGRAPHIC INFORMATION SYSTEMS AND THEORY
- GEOG 370 GEOVISUALIZATION: CARTOGRAPHY
- GEOG 480 REMOTE SENSING I: PRINCIPLES AND APPLICATIONS

**Electives**

Select 9-17 credits of the following: 9-17

- BI 311 GENETICS
- or PBG 430 PLANT GENETICS
- BI 345 *INTRODUCTION TO EVOLUTION
- or BI 445 EVOLUTION
- BI 351 MARINE ECOLOGY
- BI 481 BIogeography
- BOT 313 PLANT STRUCTURE
- BOT 321 PLANT SYSTEMATICS
- BOT 331 PLANT PHYSIOLOGY
- FES 342 FOREST TYPES OF THE NORTHWEST
- FES 350 URBAN FORESTRY
- or HORT 350 URBAN FORESTRY

Total Hours: 22-40

* Baccalaureate Core Course (BCC)
^ Writing Intensive Course (WIC)

Option Code: 845