FOREST ECOSYSTEMS OPTION

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

- Natural Resources - College of Forestry (http://catalog.oregonstate.edu/college-departments/forestry/forest-ecosystems-society/natural-resources-bs-hbs)

This option will assist students in understanding the nature of forest ecosystems and the processes by which they function. Course work includes an understanding of the multiple resources and values associated with forest ecosystems and some of the techniques involved in managing them.

Minimum of 40 credits with 20 upper division credits required.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI 375</td>
<td>FIELD METHODS IN ECOLOGICAL RESTORATION</td>
<td>4-5</td>
</tr>
<tr>
<td>BOT 440</td>
<td>FIELD METHODS IN PLANT ECOLOGY</td>
<td></td>
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<tr>
<td>FOR 321</td>
<td>FOREST MENSURATION</td>
<td></td>
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</tbody>
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### Ecological Foundations (23 credits)

- FES 341: FOREST ECOLOGY 3
- FES 412: FOREST ENTOMOLOGY 3
- FES 440: WILDLAND FIRE ECOLOGY 3
- FES 452: BIODIVERSITY CONSERVATION IN MANAGED FORESTS 3
  or FW 452: BIODIVERSITY CONSERVATION IN MANAGED FORESTS
- FOR 413: FOREST PATHOLOGY 3
  or BOT 413: FOREST PATHOLOGY
- FOR 436: WILDLAND FIRE SCIENCE AND MANAGEMENT 4
- FOR 441: SILVICULTURE PRINCIPLES 4

### Ecology Breadth

Select 2 courses from below (6–8 credits):

- BOT 321: PLANT SYSTEMATICS 6
- BOT 341: PLANT ECOLOGY
- BOT 425: FLORA OF THE PACIFIC NORTHWEST
- FE 434: FOREST WATERSHED MANAGEMENT
- FES 445: ECOLOGICAL RESTORATION
  or FW 445: ECOLOGICAL RESTORATION
- FES 447: ARBORICULTURE
  or NR 477: *AGROFORESTRY
- FW 251: PRINCIPLES OF FISH AND WILDLIFE CONSERVATION
- FW 311: ORNITHOLOGY
- FW 315: ICHTHYOLOGY
- FW 317: MAMMALOGY
- FW 320: INTRODUCTORY POPULATION DYNAMICS
- FW 321: APPLIED COMMUNITY AND ECOSYSTEM ECOLOGY
- FW 451: AVIAN CONSERVATION AND MANAGEMENT
- FW 458: MAMMAL CONSERVATION AND MANAGEMENT

### Technical Electives

Select 2 courses from below (8 credits):

- FE 208: FOREST SURVEYING
- FE 209: FOREST PHOTOGRAMMETRY AND REMOTE SENSING
- FE 370: HARVESTING OPERATIONS
- FES 477: *AGROFORESTRY
  or HORT 447: ARBORICULTURE
- GEOG 201: *FOUNDATIONS OF GEOSPATIAL SCIENCE AND GIS
- GEOG 360: GISCIENCE I: GEOGRAPHIC INFORMATION SYSTEMS AND THEORY
- ST 351: INTRODUCTION TO STATISTICAL METHODS
  or ST 352: INTRODUCTION TO STATISTICAL METHODS

**Total Hours: 41-44**

* Baccalaureate Core Course (BCC)

**Option Code: 673**