NATURAL RESOURCES UNDERGRADUATE MAJOR (BS, HBS)

This major offers the following option(s):

- Conservation Law Enforcement (http://catalog.oregonstate.edu/college-departments/forestry/forest-ecosystems-society/natural-resources-bs-hbs/conservation-law-enforcement-option/)
- Ecological Restoration (http://catalog.oregonstate.edu/college-departments/forestry/forest-ecosystems-society/natural-resources-bs-hbs/ecological-restoration-option/)
- Fish and Wildlife Conservation (http://catalog.oregonstate.edu/college-departments/forestry/forest-ecosystems-society/natural-resources-bs-hbs/fish-wildlife-conservation-option/)
- Forest Ecosystems (http://catalog.oregonstate.edu/college-departments/forestry/forest-ecosystems-society/natural-resources-bs-hbs/forest-ecosystems-option/)
- Human Dimensions in Natural Resources (http://catalog.oregonstate.edu/college-departments/forestry/forest-ecosystems-society/natural-resources-bs-hbs/human-dimensions-natural-resources-option/)
- Individualized Specialty (http://catalog.oregonstate.edu/college-departments/forestry/forest-ecosystems-society/natural-resources-bs-hbs/individualized-specialty-option/)
- Integrated Conservation Analysis (http://catalog.oregonstate.edu/college-departments/forestry/forest-ecosystems-society/natural-resources-bs-hbs/integrated-conservation-analysis-option/)
- Landscape Analysis (http://catalog.oregonstate.edu/college-departments/forestry/forest-ecosystems-society/natural-resources-bs-hbs/landscape-analysis-option/)
- Natural Resource Education (http://catalog.oregonstate.edu/college-departments/forestry/forest-ecosystems-society/natural-resources-bs-hbs/natural-resource-education-option/)
- Policy and Management (http://catalog.oregonstate.edu/college-departments/forestry/forest-ecosystems-society/natural-resources-bs-hbs/policy-management-option/)
- Urban Forest Landscapes (http://catalog.oregonstate.edu/college-departments/forestry/forest-ecosystems-society/natural-resources-bs-hbs/urban-forest-landscapes-option/)
- Wildland Fire Ecology (http://catalog.oregonstate.edu/college-departments/forestry/forest-ecosystems-society/natural-resources-bs-hbs/wildland-fire-ecology-option/)

Also available at OSU-Cascades and via Ecampus.

Troy Hall, Director
Terina McLachlain, Program Manager
408 Snell Hall
Oregon State University
Corvallis, OR 97331-5703
Phone: 541-207-3580
Email: naturalresources@oregonstate.edu
Website: http://nr.forestry.oregonstate.edu/

Students who graduate with a BS degree in Natural Resources from OSU should be able to integrate technical field or laboratory skills with analytical skills to solve critical natural resource problems. The curriculum is designed to help students acquire knowledge about a range of natural resource issues, work in interdisciplinary teams, and deal with social and political aspects of resource management.

Students acquire knowledge in biophysical and social sciences, math, and statistics. They will learn holistic resource management approaches that emphasize the interconnectedness of humans and the environment. In addition, students will develop a toolbox of resource management skills such as communication, collaboration, analysis, assessment, and planning. They explore conservation and management of key resources which include fish and wildlife, land and water resources, and a wide range of ecosystems from forests to rangelands. Students develop disciplinary depth in a focused area through a required specialty option, choosing from a number of pre-approved options, or creating an individualized (student designed) specialty option.

The Natural Resources major is also available at the OSU-Cascades campus in Bend and through the OSU Ecampus program. The Natural Resources major is an interdisciplinary program administered by the College of Forestry.

Major Code: 671

- Describe ecological processes, including human impacts that influence ecosystem change, natural succession and the future sustainability of natural resources.
- Characterize natural resources and be able to quantify at least one of these resources.
- Envision desired future conditions in an area to achieve a set of natural resource-related objectives, prescribe management actions needed to achieve those objectives, and evaluate success of these actions.
- Describe how the use, management, and allocation of natural resources are affected by laws, policies, economic factors (both market and non-market), and characteristics (including demographic, cultural, ethnic, and “values” differences) of private and public resource owners and users.
- Communicate effectively, orally and in writing, with audiences of diverse backgrounds.
- Work effectively with, and within, interdisciplinary and diverse groups to resolve management problems and achieve management objectives.

Only two courses used to complete the Natural Resources major requirements may be taken S/U.

The Natural Resources Specialty option requires a minimum GPA of 2.25.

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<th>Interdisciplinary Foundations (10 credits)</th>
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<tr>
<td>FES 485 *CONSENSUS AND NATURAL RESOURCES</td>
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<td>NR 201 MANAGING NATURAL RESOURCES FOR THE FUTURE</td>
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<td>NR 455 NATURAL RESOURCE DECISION MAKING</td>
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</table>

Advanced Communication (3-4 credits)

Select one course from the following: 3-4

- COMM 321 INTRODUCTION TO COMMUNICATION THEORY
- COMM 322 SMALL-GROUP PROBLEM SOLVING
- COMM 324 COMMUNICATION IN ORGANIZATIONS
- COMM 326 INTERCULTURAL COMMUNICATION
- COMM 328 NONVERBAL COMMUNICATION
- COMM 385 COMMUNICATION AND CULTURE IN CYBERSPACE
- COMM 440 THEORIES OF CONFLICT AND CONFLICT MANAGEMENT
- COMM 442 BARGAINING AND NEGOTIATION PROCESSES
Select one course from the following:

- **Statistics (4 credits)**
- **Mathematics (4 credits)**
- **Mathematics and Statistics (8 credits)**

Select one of the following:

- **Chemistry (5 credits)**
  - BI 101
  - BI 102
  - BI 103
  - CH 121
  - CH 231
  - CH 261
  - FES 430
  - FES 412
  - FW 345
  - GEO 323
  - SUS 103
  - & FOR 206

Select one group of courses from the following:

- **Biology (12 credits)**
- **Biological Sciences (27-29 credits)**

Select one course from the following:

- **ECOLOGY (3-4 credits)**
- **CLIMATE SCIENCE (3-4 credits)**
- **Forest ID (2-4 credits)**
- **Land and Water (3-5 credits)**

Select one course from the following:

- **Fisheries and Marine Sciences (3-4 credits)**
- **Environmental Assessment and Planning (3-4 credits)**

Select one course from the following:

- **Natural Resources Undergraduate Major (BS, HBS)**
  - *DIFFERENTIAL CALCULUS*
  - *MATHEMATICS FOR MANAGEMENT, LIFE, AND SOCIAL SCIENCES*
  - *CALCULUS FOR MANAGEMENT AND SOCIAL SCIENCE*
  - *ELEMENTARY FUNCTIONS*
  - *INTRODUCTION TO STATISTICAL METHODS*
  - *FOREST ECOLOGY*
  - *PLANT ECOLOGY*
  - *ECOLOGY*
  - *MARINE ECOLOGY*
  - *SOIL SCIENCE*
  - *PHYSICAL GEOGRAPHY*
  - *ENVIRONMENTAL GEOLOGY*
  - *PHYSICAL GEOLOGY*
  - *THE SOLID EARTH*
  - *PRINCIPLES OF SOIL SCIENCE*
  - *SOIL SCIENCE*
  - *INTRODUCTION TO CLIMATE CHANGE*
  - *KNOWLEDGE BASED DECISION MAKING*
  - *LAND USE PLANNING FOR SUSTAINABLE COMMUNITIES*
  - *GENERAL CHEMISTRY*
  - *PHYSICAL GEOLOGY*
  - *THE SOLID EARTH*
  - *INTRODUCTION TO SOIL SCIENCE*
  - *GLOBAL CHANGE BIOLGY*
  - *FOREST BIOLOGY*
  - *INTERNATIONAL FORESTRY*
  - *WILDLAND RESTORATION AND ECOLOGY*
  - *AGROFORESTRY*
  - *TOPICS IN WILDLAND FIRE MANAGEMENT*
  - *WILDLAND FIRE TECHNOLOGY*
  - *FOREST TYPES OF THE NORTHWEST*
  - *Sustainable Site Planning*
  - *SUSTAINABILITY ASSESSMENT*
  - *SCIENTIFIC METHODS FOR ANALYZING NATURAL RESOURCE PROBLEMS*
  - *FOREST ENTOMOLOGY*
  - *HERPETOLOGY*
  - *AQUATIC ENTOMOLOGY*
  - *INTRODUCTION TO NATURAL RESOURCES SCIENCE*
  - *WILDLAND RESTORATION AND ECOLOGY*
  - *SUSTAINABLE SITE PLANNING*
  - *ECOLOGICAL RESTORATION*
  - *INTERNATIONAL COMMUNITIES*
  - *SUSTAINABLE SITE PLANNING*
  - *SUSTAINABLE SITE PLANNING*
  - *INTRODUCTORY POPULATION DYNAMICS*
  - *SUSTAINABLE COMMUNITIES*
  - *SCIENTIFIC METHODS FOR ANALYZING NATURAL RESOURCE PROBLEMS*
  - *SUSTAINABLE SITE PLANNING*
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  - *SUSTAINABLE SITE PLANNING*
  - *SUSTAINABLE SITE PLANNING*

Select one course from the following:

- **Fisheries and Marine Sciences (3-4 credits)**
- **Environmental Assessment and Planning (3-4 credits)**
- **Natural Resources Undergraduate Major (BS, HBS)**
  - *DIFFERENTIAL CALCULUS*
  - *MATHEMATICS FOR MANAGEMENT, LIFE, AND SOCIAL SCIENCES*
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Select one course from the following:

- **Biological Sciences (27-29 credits)**
- **Environmental Assessment and Planning (3-4 credits)**

Select one course from the following:

- **Natural Resources Undergraduate Major (BS, HBS)**
  - *DIFFERENTIAL CALCULUS*
  - *MATHEMATICS FOR MANAGEMENT, LIFE, AND SOCIAL SCIENCES*
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Select one course from the following:

- **Fisheries and Marine Sciences (3-4 credits)**
- **Environmental Assessment and Planning (3-4 credits)**

Select one course from the following:

- **Natural Resources Undergraduate Major (BS, HBS)**
  - *DIFFERENTIAL CALCULUS*
  - *MATHEMATICS FOR MANAGEMENT, LIFE, AND SOCIAL SCIENCES*
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  - *SUSTAINABLE SITE PLANNING*
  - *SUSTAINABLE SITE PLANNING*
Select one course from the following:

- Ethics and Philosophy (3-4 credits)
- Social and Political Dimensions (15–20 credits)

Select one course from the following:

- Wildlife Management (3-4 credits)
- Vegetation ID (3-4 credits)
- Range (3-4 credits)

Select one course from the following:

- Spatial Analysis (3-4 credits)
- Social Issues (3-4 credits)
- Economics

Select one course from the following:

- Natural Resource Policy (3-4 credits)
- Political Issues (3-4 credits)

Select one course from the following:

- HST 481 *ENVIRONMENTAL HISTORY OF THE UNITED STATES
- NR 312 CRITICAL THINKING FOR NATURAL RESOURCE CHALLENGES
- NR 380 NATURE IN STORYTELLING OVER THE CENTURIES
- PHL 440 *ENVIRONMENTAL ETHICS
- PHL/REL 443 *WORLD VIEWS AND ENVIRONMENTAL VALUES

Natural Resource Policy (3-4 credits)

Select one course from the following:

- AEC 432 ENVIRONMENTAL LAW
- AEC 454 RURAL DEVELOPMENT ECONOMICS AND POLICY
- FES 486 *PUBLIC LANDS POLICY AND MANAGEMENT
- FOR 460 *FOREST POLICY
- FOR 462 NATURAL RESOURCE POLICY AND LAW
- FW 415 FISHERIES AND WILDLIFE LAW AND POLICY
- FW 422 INTRODUCTION TO OCEAN LAW
- PS 473 US ENERGY POLICY
- PS 475 ENVIRONMENTAL POLITICS AND POLICY
- PS 477 INTERNATIONAL ENVIRONMENTAL POLITICS AND POLICY

Political Issues (3-4 credits)

Select one course from the following:

- ENT 300/HORT 330 *PLAGUES, PESTS, AND POLITICS
- FOR 462 NATURAL RESOURCE POLICY AND LAW
- FW 350 *ENDANGERED SPECIES, SOCIETY AND SUSTAINABILITY
- NR 351 *WHEN SCIENCE ESCAPES THE LAB: SCIENCE AND RESOURCE MANAGEMENT
- PS 455 THE POLITICS OF CLIMATE CHANGE
- PS 475 ENVIRONMENTAL POLITICS AND POLICY
- PS 476 *SCIENCE AND POLITICS
- PS 477 INTERNATIONAL ENVIRONMENTAL POLITICS AND POLICY
- TRAL 352 WILDERNESS MANAGEMENT

Economics

Select one course from the following:

- AEC 250 *INTRODUCTION TO ENVIRONMENTAL ECONOMICS AND POLICY
- ECON 201 *INTRODUCTION TO MICROECONOMICS

Social Issues (3-4 credits)

Select one course from the following:

- FES 355 MANAGEMENT FOR MULTIPLE RESOURCE VALUES
- FES 365 *ISSUES IN NATURAL RESOURCES CONSERVATION
- FW 325 *GLOBAL CRISIES IN RESOURCE ECOLOGY
- GEOG 240 *HUMAN DIMENSIONS OF CLIMATE CHANGE
- GEOG 300 *SUSTAINABILITY FOR THE COMMON GOOD
- GEOG 430 RESILIENCE-BASED NATURAL RESOURCE MANAGEMENT
- GEOG 431 GLOBAL RESOURCES AND DEVELOPMENT
- NR 351 *WHEN SCIENCE ESCAPES THE LAB: SCIENCE AND RESOURCE MANAGEMENT
- SOC 381 SOCIAL DIMENSIONS OF SUSTAINABILITY
- SOC 475 RURAL SOCIOLOGY
- SOC 480 ENVIRONMENTAL SOCIOLOGY
- SOC 481 *SOCIETY AND NATURAL RESOURCES
- SUS 420 SOCIAL DIMENSIONS OF SUSTAINABILITY
- TRAL 251 RECREATION RESOURCE MANAGEMENT
- TRAL 351 OUTDOOR RECREATION MANAGEMENT ON PUBLIC LANDS
- TRAL 352 WILDERNESS MANAGEMENT
- TRAL 353 NATURE, ECO, AND ADVENTURE TOURISM
- TRAL 354 COMMUNITIES, NATURAL AREAS, AND SUSTAINABLE TOURISM
- WGSS 440 *WOMEN AND NATURAL RESOURCES

Spatial Analysis (3-4 credits)
Select one course from the following:  

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<th>Course Title</th>
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<tr>
<td>CROP/HORT 414</td>
<td>PRECISION AGRICULTURE</td>
<td>3-4</td>
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<tr>
<td>FE 257</td>
<td>GIS AND FOREST ENGINEERING APPLICATIONS</td>
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<td>FW 303</td>
<td>SURVEY OF GEOGRAPHIC INFORMATION SYSTEMS IN NATURAL RESOURCE</td>
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<td>GEOG 201</td>
<td>*FOUNDATIONS OF GEOSPATIAL SCIENCE AND GIS</td>
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<td>GEOG 360</td>
<td>GISCIENCE I: GEOGRAPHIC INFORMATION SYSTEMS AND THEORY</td>
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Total credits required for graduation is 180

Total Hours 86-104

1. Baccalaureate Core Course (BCC)
2. Writing Intensive Course (WIC)
3. The BI 2XX series is required for some specialty options.
4. SOIL 205 is a Bacc Core course only when taken in conjunction with a laboratory course (FOR 206 or SOIL 206)
5. Completion of an option is required to earn a degree in Natural Resources

**Major Code: 671**

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<tr>
<th>Year</th>
<th>Fall</th>
<th>Hours</th>
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<tr>
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<td>WR 121</td>
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<td>HHS 231</td>
<td>*LIFETIME FITNESS FOR HEALTH</td>
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<td>Winter</td>
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<td>MANAGING NATURAL RESOURCES FOR THE FUTURE</td>
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<td>Climate Science</td>
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<td>Spring</td>
<td>Earth or Soil Science</td>
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<td>Ethics &amp; Philosophy</td>
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| Year | Total Hours | 180 |