Make a better world
A healthy planet depends on scientists and natural resource specialists.
Food, water, wildlife, air quality and climate change all require people with problem-solving skills and solid backgrounds in the biological, environmental, mathematical and physical sciences.

AND OREGON STATE UNIVERSITY IS A GREAT PLACE TO START BUILDING THAT EXPERIENCE. Here, you can study with world-renowned faculty, participate in groundbreaking research and get hands-on, real-world experience. Plus, with several nationally recognized science and natural resources programs, Oregon State can prepare you to make a positive difference shaping environmental progress and putting your innovative ideas to work.

Science and natural resources programs at Oregon State cover the natural and often complex balance within ecosystems, as well as the balance between what people need from our natural resources and how to maintain them for future generations. You can work on projects that have real impacts in people’s lives and on our world — safe food, environmental protection, alternative energy sources, sustainable forest and ocean ecosystems and others. And as part of the curriculum, you’ll learn how to relate scientific research to important public policy issues.

Because these fields are complex, Oregon State programs frequently combine instruction from two or more departments or colleges. This interdisciplinary approach will give you the comprehensive skills needed to solve real-world problems.
Careers
Think outside the office

Because there’s such a need for people with strong backgrounds in science and natural resources, you’ll find multiple career opportunities in just about any field that interests you. Plus, many of those careers will take you out of the office and into a lab or the great outdoors. With your Oregon State education, you’ll be well prepared for graduate or professional school or ready to move on directly to your career.

With your science and natural resources training you might be:

• A fisheries or wildlife biologist working to protect endangered animal species.
• A forensics expert using the latest scientific knowledge to investigate and solve crimes.
• A specialist in writing, enforcing or interpreting natural resource and environmental policy.
• The manager of an agribusiness or ranch operation.
• A designer of environmentally friendly processes in construction and other fields.
• A research scientist seeking a cure for cancer or other serious diseases that affect humans or animals.
• An environmental scientist studying the influences of climate change on marine organisms.
• A researcher or professor in a college or university.

Preparation
Getting ready

To prepare for study in science and natural resources, you should have a strong academic background. You’ll benefit from four years of mathematics, including the most advanced courses available, along with coursework in biology, chemistry and physics. You should also pursue a well-balanced background in the social sciences and humanities, including English. And as with most fields today, it’s important to have solid computer skills.

If you have questions about preparing for university-level study in these fields, feel free to contact the advising staff in the program you’re considering.
Your first year

Suggested first-year curriculum

Strong roots are needed for robust growth. During your first year, you’ll focus on developing your critical thinking, communication and problem-solving skills through courses from Oregon State’s Baccalaureate Core — the physical and biological sciences, arts and humanities, mathematics, writing, fitness, cultural diversity and freshman orientation — along with some beginning courses in your major.

To make sure you get off to a good start and stay on course for graduation, you should meet with an adviser as you plan your first-year program — and at regular intervals after that.
College of Agricultural Sciences
Agricultural Business Management
Agricultural and Resource Economics
Natural Resource and Environmental Law and Policy
Agricultural Sciences
Animal Sciences
Bioresource Research
Animal Reproduction and Development
Applied Genetics
Bioenergy
Bioproducts
Biotechnology
Climate and Biosystems Modeling
Environmental Chemistry
Food Quality
Genomics/Bioinformatics
Pest Biology and Management
Plant Growth and Development
Sustainable Ecosystems
Toxicology
Water Resources
Botany
Crop and Soil Science
Environmental Economics and Policy
Fisheries and Wildlife Sciences
Food Science and Technology
Fermentation
Food Science
Enology and Viticulture
Horticulture
Ecological and Sustainable Horticultural Production
Ecological Landscape and Urban Forestry
General Horticulture
Horticultural Research
Plant Breeding and Genetics
Therapeutic Horticulture
Turf Management
Viticulture and Enology
Sustainability (Double Degree)
Rangeland Sciences

College of Earth, Ocean, and Atmospheric Sciences
Earth Sciences
Geographic Information Science (GIS)
Geography
Geology
Ocean Sciences
Environmental Sciences

College of Engineering
Bioengineering
Energy Systems Engineering (OSU-Cascades)
Chemical Engineering
Ecological Engineering
Environmental Engineering

College of Forestry
Forestry
Forest Management
Forest Operations Management
Landscape Processes and Management
Forest Engineering
Forest Engineering–Civil Engineering
Natural Resources
Arid Land Ecology
Ecological Restoration
Fish and Wildlife Conservation
Forest Ecosystems
Geosciences and Natural Resource
Human Dimensions in Natural Resources
Law Enforcement and Natural Resources
Native Americans and Natural Resources
Natural Resource Education
Natural Resource Policy and Management
Natural Resource Conservation and Technology
Recreation and Tourism Management
Resource Conservation
Soil Resources
Sustainable Agroforestry
Urban Forest Landscapes
Watershed Management
Wildland Fire Ecology
Recreation Resource Management
Cultural Resource Management
Environmental Resource Interpretation
Forest Resources
Law Enforcement
Park Landscapes
Public Policy
Resource Planning
Sociology
Tourism
Renewable Materials
Marketing and Management
Science and Engineering
Tourism and Outdoor Leadership (OSU-Cascades)

College of Science
Biochemistry and Biophysics
BioHealth Sciences
Biotechnology
Marine Biology
Chemistry
Forensic Science
Mathematics
Actuarial Science
Microbiology
Physics
Zoology
Research
Put theory to the test

Each year, more than 2,000 Oregon State undergraduate students participate in research with professors and graduate students on real issues confronting society today. Research projects are especially valuable if you plan to attend graduate school or if your career will involve laboratory work. Check with your major professors about available research opportunities.

Environmental science students have conducted research and completed internships with industry, government, educational institutions and advocacy groups as far away as South Africa, giving them an edge with graduate and professional schools, as well as in the job market.

Additional programs
Other ways to learn

As a premier international research university, Oregon State offers a resource-rich environment that encourages you to combine your studies in science and natural resources with opportunities like the University Honors College, International Degree and Study Abroad programs. These programs offer challenges and unique experiences to support your academic, professional and personal growth. They’re also fun.
Step outside

Internships

The on-the-job experience provided by internships is required in some programs and encouraged in most. Increasingly, graduate and professional schools prefer students who have experience working in the field.

Your professors, department and college, as well as Oregon State Career Services, can help you apply for an internship. Depending on your internship, you can choose to take a term or two off from classes, take classes while completing your internship or do one over the summer.
Seed funding
Scholarships

Anything worthwhile, including college, requires an investment. But we might be able to help with some of the costs. Scholarships are available at the university level, as well as from individual colleges and departments. Most scholarships are awarded based on information in the Oregon State scholarship application submitted with your application for admission, but others require separate applications. The deadline for applying for university scholarships is Feb. 1. Be sure to check with your college and department on the deadlines for other scholarships.
See yourself here
Be sure to visit

The best way to see yourself as an Oregon State student is to come visit. Set up a campus tour and arrange to talk with people in your area of academic interest by calling the Office of Admissions at 800-291-4192 or visiting oregonstate.edu/admissions.

For more information:

- College of Agricultural Sciences ................................. 541-737-2211
  agsci.oregonstate.edu

- College of Earth, Ocean, and Atmospheric Sciences ... 541-737-1201
  ceoas.oregonstate.edu

- College of Engineering ................................................877-257-5182
  engineering.oregonstate.edu

- College of Forestry .....................................................541-737-1594
  forestry.oregonstate.edu

- College of Science ......................................................541-737-4811
  science.oregonstate.edu

Oregon State University is committed to affirmative action and equal opportunity and complies with Section 504 of the Rehabilitation Act of 1973.
This publication will be made available in accessible format upon request. Call 541-737-4411.