Environmental Studies

Richard York, Program Director
541-346-5000
541-346-5954 fax
144 Columbia Hall
5223 University of Oregon
Eugene, Oregon 97403-5223

Environmental studies crosses the boundaries of traditional disciplines in the natural sciences, social sciences, humanities, management, policy, design, and law. It challenges faculty members and students to look at the relationship between humans and their environment from new perspectives. The Environmental Studies Program is dedicated to gaining greater understanding of the natural world from an ecological perspective; devising policies and behaviors that address contemporary environmental problems; and promoting a rethinking of basic cultural premises, ways of structuring knowledge, and the root metaphors of contemporary society.

Faculty

Core faculty members listed in the faculty list have dedicated responsibilities in the program. Participating faculty members have demonstrated professional interests in environmental studies by researching environmental issues, teaching courses that meet program requirements, or participating in a variety of program activities on a voluntary basis. They are all available to advise students who are interested in environmental studies. More information about the faculty is available on the program website.

Resources

The program’s resource center has a limited collection of books related to environmental topics. University of Oregon students and members of the faculty and staff may borrow items for up to two weeks.

Faculty

Brendan J. M. Bohannan, associate professor (microbial ecology). See Biology.

Peg Boulay, instructor (environmental monitoring, wildlife conservation, outreach and education); codirector, environmental leadership and advising. BS, 1989, Furman; MS, 1992, Florida. (2009)

Scott D. Bridgham, professor (ecosystem ecology, climate change). See Biology.

Trudy Ann Cameron, Raymond F. Mikesell Professor of Environmental and Resource Economics (environmental economics). See Economics.

Mark Carey, associate professor (history). See Robert Donald Clark Honors College.

Matthew Dennis, professor (colonial and early national America, American cultural and environmental history, American Indian history). See History.

Alan Dickman, senior instructor with title of research associate professor. See Biology.

Stephanie LeMenager, Barbara and CarlisleMoore Distinguished Professor in English and American Literature. See English.

Kathryn A. Lynch, instructor (environmental leadership, tropical conservation, environmental education); codirector, environmental leadership and advising. BS, 1992, California, Davis; MA, 1995, PhD, 2001, Florida. (2005)

Kathy Lynn, research assistant (Tribal Climate Change Project).


Galen Martin, senior instructor (sustainable agriculture, food systems).

Patricia F. McDowell, professor (river management and restoration). See Geography.

Ronald B. Mitchell, professor (environmental politics, international relations). See Political Science.

Erin Moore, assistant professor (life-cycle environmental impacts). See Architecture.

Nicolae Morar, visiting assistant professor (applied ethics, philosophy of biology). See Philosophy.

Brook Muller, associate professor (environmentally responsive architecture). See Architecture.


David Sutherland, assistant professor (ice-ocean interaction, coastal and estuarine oceanography). See Geological Sciences.

Ted Toadvine, professor (environmental ethics, ecophenomenology). See Philosophy.

Sarah Wald, assistant professor (race and ethnic studies, environmental humanities).

Peter A. Walker, professor (environmental politics, political ecology). See Geography.

Marsha Weisiger, Rocky and Julie Dixon Chair of U.S. Western History; associate professor (environmental, Native American, American West). See History.

Louise Westling, professor (ecocriticism, environmental humanities). See English.


Richard York, associate professor (assessing anthropogenic driving forces of global environmental change). See Sociology.

The date in parentheses at the end of each entry is the first year on the University of Oregon faculty.

Participating

Susan C. Anderson, German and Scandinavian

William S. Ayres, anthropology
Environmental Studies

Patrick J. Bartlein, geography
Carol Ann Bassett, journalism and communication
Carla Bengtson, art
Ann Bettman, landscape architecture
Aletta Biersack, anthropology
Thomas H. Bivins, journalism and communication
Christopher Bone, geography
John E. Bonine, law
Gregory D. Bothun, physics
William E. Bradshaw, biology
Yvonne A. Braun, women’s and gender studies
G. Z. Brown, architecture
George C. Carroll, biology
Katharine V. Cashman, geological sciences
Richard W. Castenholz, biology
Suzanne Clark, English
Shaul E. Cohen, geography
John S. Conery, computer and information science
William A. Cresko, biology
James R. Crosswhite, English
Edward B. Davis, Museum of Natural and Cultural History
Jerome Diethelm, landscape architecture
Rebecca J. Dorsey, geological science
Michael C. Dreiling, sociology
James R. Elliott, sociology
Richard B. Emlet, biology
Paul C. Engelking, chemistry and biochemistry
Arthur M. Farley, computer and information science
Mark Fonstad, geography
John B. Foster, sociology
John T. Gage, English
Daniel Gavin, geography
Daniel Goldrich, political science
Jessica L. Green, biology
Patricia A. Gwartney, sociology
William T. Harbaugh, economics
Susan W. Hardwick, geography
Jill A. Harrison, sociology
Kenneth I. Helphand, landscape architecture
Michael Hibbard, planning, public policy and management
Richard G. Hildreth, law
Derrick Hindery, international studies
Janet Hodder, Oregon Institute of Marine Biology
Garrett K. Hongo, creative writing
Samantha Hopkins, honors college
Carl J. Hosticka, planning, public policy and management
David Hulse, landscape architecture
James E. Hutchison, chemistry and biochemistry
Renee A. Irvin, planning, public policy and management
Colin Ives, art
Grant Jacobsen, planning, public policy and management
Bart Johnson, landscape architecture
Mark Johnson, philosophy
Lamia Karim, anthropology
Craig Kauffman, political science
Lauren J. Kessler, journalism and communication
Gyoung-Ah Lee, anthropology
Glen A. Love, English
Bonnie Mann, philosophy
W. Andrew Marcus, geography
Ralph Mastromonaco, economics
Theresa May, theater arts
Gregory McLauchlan, sociology
Jerry F. Medler, political science
Kate Meehan, geography
Robert Z. Melnick, landscape architecture
Debra L. Merskin, journalism and communication
Geraldine Moreno Black, anthropology
Cassandra Moseley, Institute for a Sustainable Environment
Madonna L. Moss, anthropology
Alexander B. Murphy, geography
Lise Nelson, geography
Jeffrey Ostler, history
Robert G. Parker, planning, public policy and management
Stephen E. Ponder, journalism and communication
Daniel A. Pope, history
Scott L. Pratt, philosophy
Mark H. Reed, geological sciences
Gregory J. Retallack, geological sciences
John S. Reynolds, architecture
Robert G. Ribe, landscape architecture
William Rossi, English
Bitty A. Roy, biology
Michael V. Russo, management
Gordon M. Sayre, English
Marc Schlossberg, planning, public policy and management
Alan Shanks, biology
Lynda P. Shapiro, biology
Paul Slovic, psychology
J. Josh Snodgrass, anthropology
Lawrence S. Sugiyama, anthropology
Kelly Sutherland, geological sciences
Richard P. Suttmeier, political science
Nora B. Terwilliger, biology
Roxi Thoren, landscape architecture
Joseph W. Thornton, biology
Nelson Ting, anthropology
Douglas R. Toomey, geological sciences
Daniel Udovic, biology
Peter Warnek, philosophy
Peter B. Wetherwax, biology
Ray J. Weldon, geological sciences
W. Ed Whitelaw, economics
A. Michelle Wood, biology
Mary C. Wood, law
Yizhao Yang, planning, public policy and management

- Bachelor of Arts in Environmental Studies
- Bachelor of Science in Environmental Science
- Minor in Environmental Studies

Undergraduate Studies

The program offers undergraduate instruction through two majors, leading to a bachelor of arts (BA) or a bachelor of science (BS) degree. A minor in environmental studies is also offered.

Both majors provide a broad, solid, interdisciplinary perspective on the relationship between humans and nature. Their goals are to develop awareness of environmental issues and to develop an understanding of the nature and scope of the forces underlying environmental problems, the various approaches used to bring environmental problems to the public’s attention, and the methods and approaches used to solve these problems.

Majors gain an appreciation of the interdisciplinary nature of environmental studies, and they master content and skills associated with a number of different disciplines.

Majors and minors have considerable latitude in designing a course of study that combines theory and practice, invites active participation, and fits specific interests, needs, and aptitudes. The majors, which provide a well-rounded basic education, prepare students for entry-level positions in business, government, nongovernmental and nonprofit organizations, and for a variety of graduate and professional degree programs. Students are encouraged to take advantage of career planning services offered by the Career Center.

The environmental studies major focuses on social sciences, policy studies, the humanities, and sustainable design. It is designed for students who are interested in such areas as environmental policy, planning, ethics or philosophy, ecocriticism, ecofeminism, environmental justice, sustainable development, international environmental issues, or social theory and the environment.

The environmental science major is designed for students who want to focus on scientific careers in conservation biology, climate science, pollution prevention and abatement, or ecosystem protection, restoration, and management.

Students should plan their programs early in their undergraduate careers with the aid of an environmental studies academic advisor. Majors are urged to consider completing a second major or a minor in a related field. The program offers drop-in student advising in the main office.

Up-to-date information, major requirements sheets, and tip sheets are available in the program office and on the website.

Major Requirements

The environmental studies curriculum is designed to provide a solid foundation in the sciences, social sciences, and humanities; to build on these foundations in advanced course work in a variety of disciplines; to develop the skills necessary to study human-environment interactions; and to encourage participation in experiential learning activities that help students prepare for active participation in the work force and in local and global communities. Students should have a strong foundation in written and verbal skills.

Courses applied to the major, except environmental studies courses numbered 401 through 409, must be taken for letter grades and passed...
with grades of C– or better. As many as four upper-division courses may
be used to fulfill requirements of another major. At least 24 credits must
be taken at the University of Oregon.

Bachelor of Arts in Environmental Studies

Upper-division credit may be earned through course work or through a
combination of course work and an honors thesis. Major requirements
sheets containing detailed information about specific courses that meet
the major requirements are available on the program website (http://
envs.uoregon.edu/undergrad/envsfocus), in the program office, or from
an environmental studies advisor.

Lower-Division Core Courses

ENVS201  Introduction to Environmental Studies:  4
Social Sciences
ENVS202  Introduction to Environmental Studies:  4
Natural Sciences
ENVS203  Introduction to Environmental Studies:  4
Humanities

Lower-Division Mathematics and Science Courses

MATH111  College Algebra  4
Approved statistics course  4
Approved introductory sequence in natural science  12
Course from different natural science sequence or from the
list of approved science courses  4

Upper-Division Natural Science Courses

Two upper-division natural science courses from the major
requirements sheet  8

Upper-Division Social Science, Policy, Humanities, and
Design Courses

Social science core course  4
Policy core course  4
Humanities core course  4
Design core course  4
Six additional courses: three from one of the above areas;
three from another  24

Environmental Issues Course

ENVS411  Environmental Issues: [Topic]  4
orENVS425  Environmental Education Theory and Practice
orENVS427  Environmental and Ecological Monitoring

Practical Learning Experience

Choose from one of several approved practical learning
experience options. These include internships, participation
in the Environmental Leadership Program, research
experiences with UO faculty members, honors thesis,
courses at field stations, study abroad opportunities, or IE3
internships.  4

Total Credits  92

1  Recommended course; however, a university-level mathematics
course numbered 100 or higher fulfills the requirement.

Bachelor of Science in Environmental Studies

Lower-Division Core Courses

ENVS201  Introduction to Environmental Studies:  4
Social Sciences
ENVS202  Introduction to Environmental Studies:  4
Natural Sciences
ENVS203  Introduction to Environmental Studies:  4
Humanities

Lower-Division Mathematics and Science Courses

MATH111  College Algebra  4
Approved statistics course  4
Approved introductory sequence in natural science  12
Course from different natural science sequence or from the
list of approved science courses  4

Upper-Division Natural Science Courses

Two upper-division natural science courses from the major
requirements sheet  8

Upper-Division Social Science, Policy, Humanities, and
Design Courses

Social science core course  4
Policy core course  4
Humanities core course  4
Design core course  4
Six additional courses: three from one of the above areas;
three from another  24

Environmental Issues Course

ENVS411  Environmental Issues: [Topic]  4
orENVS425  Environmental Education Theory and Practice
orENVS427  Environmental and Ecological Monitoring

Practical Learning Experience

Choose from one of several approved practical learning
experience options. These include internships, participation
in the Environmental Leadership Program, research
experiences with UO faculty members, honors thesis,
courses at field stations, study abroad opportunities, or IE3
internships.  4

Total Credits  92

1  Recommended course; however, a university-level mathematics
course numbered 100 or higher fulfills the requirement.

Bachelor of Arts in Environmental Science

The major requires a minimum of 112 credits including 60 upper-division
credits. Upper-division credits may be earned through course work or
through a combination of course work and an honors thesis. Sample
course plans are available on the program’s website. Major requirements
sheets containing detailed information about specific courses that
meet the major requirements are available in the program office, from
an environmental science advisor, or on the program website (http://
envs.uoregon.edu/undergrad/escifocus).

Lower-Division Core Courses

ENVS201  Introduction to Environmental Studies:  4
Social Sciences
### Mathematics and Statistics Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH246–247</td>
<td>Calculus for the Biological Sciences I-II</td>
<td>8</td>
</tr>
<tr>
<td>or MATH251–252</td>
<td>Calculus I-II</td>
<td></td>
</tr>
</tbody>
</table>

### Approved statistics course

- Approved course in analytical approaches: 4

### Lower-Division Introductory Science Sequences

- Two introductory sequences in focal area: 24

### Upper-Division Natural Science Courses

- Six upper-division natural science courses in focal area (life sciences or earth and physical sciences): 24
- At least two upper-division courses in nonfocal area: 8

### Upper-Division Social Science, Policy, Humanities, and Design Courses

- Three courses from the areas of social science, policy, humanities, or design (no more than one course per area): 12

### Environmental Issues Course

- ENVS411: Environmental Issues: [Topic] 4
- or ENVS425: Environmental Education Theory and Practice
- or ENVS427: Environmental and Ecological Monitoring

### Practical Learning Experience

Choose from one of several approved practical learning experience options. These include internships, participation in the Environmental Leadership Program, research experiences with UO faculty members, honors thesis, and courses at field stations.

### Total Credits

112

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1 Five courses total are required for nonfocal area.

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### Bachelor of Science in Environmental Science

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS203</td>
<td>Introduction to Environmental Studies: Humanities</td>
<td>4</td>
</tr>
</tbody>
</table>

### Mathematics and Statistics Courses

- Calculus for the Biological Sciences I-II: 8
- Calculus I-II: 4

### Approved statistics course

- Approved course in analytical approaches: 4

### Lower-Division Introductory Science Sequences

- Two introductory sequences in focal area: 24

### Upper-Division Natural Science Courses

- Six upper-division natural science courses in focal area (life sciences or earth and physical sciences): 24
- At least two upper-division courses in nonfocal area: 8

### Upper-Division Social Science, Policy, Humanities, and Design Courses

- Three courses from the areas of social science, policy, humanities, or design (no more than one course per area): 12

### Environmental Issues Course

- ENVS411: Environmental Issues: [Topic] 4
- or ENVS425: Environmental Education Theory and Practice
- or ENVS427: Environmental and Ecological Monitoring

### Practical Learning Experience

Choose from one of several approved practical learning experience options. These include internships, participation in the Environmental Leadership Program, research experiences with UO faculty members, honors thesis, and courses at field stations.

### Total Credits

112

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### Options for Majors

#### Environmental Leadership Program

Through the Environmental Leadership Program, students team up with local businesses, nonprofits, and government agencies to work on environmental projects. Students learn professional research, writing, and presentation skills as they develop a network of professional relationships in the region. Participants make a two- or three-term commitment, for which they earn 8–12 upper-division credits. These credits satisfy upper-division requirements for the environmental studies and environmental science majors.

#### Internships

By offering academic credit for environmentally focused work experience, the internship program allows students to connect their academic studies with practical applications. Internship positions must involve significant work with an environmental focus. Potential internship sponsors include public interest nonprofits, government agencies, and private corporations. Students are expected to be self-motivated and arrange their own positions in their areas of particular interest. However, if a student needs assistance finding an appropriate program, the internship coordinator can help identify potential opportunities. Students may take 18 credits of Field Studies: [Topic] (ENVS196), Internship: [Topic] (ENVS404), or both. To fulfill the practical learning experience requirement, students take 4 credits (which translates to 120 hours) of internship service.

#### Honors

Students who want to graduate with honors in environmental science or environmental studies must have a 3.30 overall grade point average (GPA) and a 3.50 GPA in courses required for the major. Honors candidates must also complete a research-based thesis or creative project under the direction of a faculty advisor. Students preparing to graduate with honors should notify their advisor no later than the first term of their senior year.

Honors students who are not enrolled in the Clark Honors College must earn 8 credits of Research: [Topic] (ENVS401), Thesis (ENVS403), or both in environmental studies or another appropriate department. These credits must be distributed over at least two terms. Environmental science majors may substitute these credits for one upper-division natural science elective, environmental studies majors for one upper-division...
social science or humanities elective. This can also count for the practical learning experience requirement.

Environmental Studies Minor

The interdisciplinary minor in environmental studies includes three lower-division courses and five upper-division elective courses for a minimum of 32 credits. Courses applied to the minor must be taken for letter grades and passed with grades of C– or better. At least 16 of the 40 credits must be taken at the University of Oregon. No more than 8 upper-division credits from the major may be applied to minor requirements. With the advisor’s consent, an environmental issues course and a practical learning experience may be substituted for one of the elective courses. Students may also submit a petition to their advisor to substitute one upper-division course for one of the required lower-division courses.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS201</td>
<td>Introduction to Environmental Studies: Social Sciences</td>
<td>4</td>
</tr>
<tr>
<td>ENVS202</td>
<td>Introduction to Environmental Studies: Natural Sciences</td>
<td>4</td>
</tr>
<tr>
<td>ENVS203</td>
<td>Introduction to Environmental Studies: Humanities</td>
<td>4</td>
</tr>
</tbody>
</table>

**Advanced Course Requirements**

- One upper-division natural science course from the major requirements sheet | 4
- Four electives from areas of social science, policy, humanities or design | 16

**Total Credits** | 32

Kindergarten through Secondary Teaching Careers

Students who complete a bachelor’s degree with a major in environmental studies or environmental science are eligible to apply for the College of Education’s fifth-year licensure program in middle-secondary teaching or the fifth-year licensure program to become an elementary teacher. More information is available from the department’s undergraduate advisor; see also the College of Education (http://catalog.uoregon.edu/education) section in this catalog.

- Master of Arts
- Master of Science
- Doctor of Philosophy

Graduate Studies

The Environmental Studies Program offers graduate study leading to the degrees of master of arts (MA) or master of science (MS) in environmental studies, and an interdisciplinary doctor of philosophy (PhD) degree in environmental sciences, studies, and policy.

Students choose courses offered in appropriate disciplines to design a course plan based on individual goals and backgrounds.

Some financial support for graduate students in the Environmental Studies Program is available through graduate teaching fellowships. Support generally consists of a stipend, health insurance, and a tuition waiver.

Application instructions and materials are available on the program’s website.

Application Deadline

Applicants for admission to the master’s program must submit all necessary materials online by January 15. New students are accepted for fall term only.

Master of Arts Degree in Environmental Studies

The master of arts degree requires demonstrated proficiency in a second language.

| Environmental studies graduate core sequence | 9 |
| Concentration area course work | 24 |
| Electives | 12 |
| Thesis or terminal project | 12 |

**Total Credits** | 57

1 First year.
2 Graduate-level courses related to environmental studies in each of two 12-credit concentration areas.
3 Public defense or presentation required.

Master of Science Degree in Environmental Studies

| Environmental studies graduate core sequence | 9 |
| Concentration area course work | 24 |
| Electives | 12 |
| Thesis or terminal project | 12 |

**Total Credits** | 57

1 First year.
2 Graduate-level courses related to environmental studies in each of two 12-credit concentration areas.
3 Public defense or presentation required.

Concurrent Master’s Degrees Programs

Environmental studies students may obtain concurrent degrees in other disciplines. Applicants must apply separately to each program. For more information, contact the program office.

Doctor of Philosophy Degree in Environmental Sciences, Studies, and Policy

The interdisciplinary PhD degree is offered by the Environmental Studies Program under the umbrella of the Joint-Campus Graduate Program in Environmental Sciences, Studies, and Policy, established by Oregon State University, Portland State University, and the University of Oregon.

The environmental sciences, studies, and policy program takes four or more years of study after earning the master’s degree.

Admissions Procedure

Application to the PhD program must be granted by the Environmental Studies Program and approved by the focal department—another University of Oregon academic unit, chosen by the applicant, that offers a PhD degree. Applications are reviewed independently by the admissions committee in the Environmental Studies Program and in the
focal department. Both committees must approve the application before
the applicant can be accepted into the program. The online application
must be completed and submitted by December 1 for the following fall
admission.

Doctor of Philosophy Degree Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tr>
<td>Focal department course work</td>
<td>NaN</td>
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<tr>
<td>Environmental studies course work</td>
<td>32</td>
</tr>
<tr>
<td>Focal department assessment of competence</td>
<td>3</td>
</tr>
<tr>
<td>Interdisciplinary assessment of competence</td>
<td>3</td>
</tr>
<tr>
<td>ENVS603 Dissertation</td>
<td>18</td>
</tr>
</tbody>
</table>

1 Completion of graduate course work as established by the focal
department, which includes basic graduate-level proficiency in
research methods appropriate to the designated focal discipline.
2 Courses taken in departments or programs outside the focal
department. First-year students participate in a sequence of courses
required of all incoming environmental studies graduate students.
3 The term “assessment of competence” is used in lieu of
“comprehensive examination” in recognition of the different ways in
which departments engage in such assessments.

PhD students must satisfy breadth and concentration requirements
established by the Environmental Studies Program and the focal
department. Working with an advisory committee, each student
customizes a plan of action for completion of the degree.

Requirements may vary depending on the chosen focal department. In
addition to the course work, candidates are required to complete and
defend a written dissertation and receive approval of the dissertation by
a committee chosen in accordance with Graduate School regulations.
The committee must have at least five members. The chair and two
additional members must be from the focal department. At least three
members of the committee must be participants in the Environmental
Studies Program.

Graduate Courses

Graduate students typically choose courses that contribute to their
individual environmental focus from the Departments of Anthropology;
Architecture; Biology; Chemistry and Biochemistry; Economics; English;
Geography; Geological Sciences; History; Landscape Architecture;
Philosophy; Physics; Planning, Public Policy and Management; Political
Science; Psychology; and Sociology; from the International Studies
Program; from the School of Law; and others. Consult the individual
department listings in this catalog for course descriptions.

Courses

ENVS196. Field Studies: [Topic]. 1-5 Credits.
Repeatable.

ENVS198. Laboratory Projects: [Topic]. 1-2 Credits.
Repeatable.

ENVS199. Special Studies: [Topic]. 1-5 Credits.
Repeatable.

ENVS201. Introduction to Environmental Studies: Social Sciences. 4
Credits.
Contributions of the social sciences to analysis of environmental
problems. Topics include human population, the relationship between
social institutions and environmental problems, and appropriate political,
policy, and economic processes.

ENVS202. Introduction to Environmental Studies: Natural Sciences.
4 Credits.
Contributions of the natural sciences to analysis of environmental
problems. Topics include biological processes, ecological principles,
chemical cycling, ecosystem characteristics, and natural system
vulnerability and recovery.

ENVS203. Introduction to Environmental Studies: Humanities. 4
Credits.
Contributions of the humanities and arts to understandings of the
environment. Emphasis on diverse ways of thinking, writing, creating, and
engaging in environmental discourse.

ENVS225. Introduction to Food Studies. 4 Credits.
An exploration of the field of "food studies" and examination of the role of
food in historical and contemporary life in the US and around the world.

ENVS298. Temporary Group-Satisfying Course. 4 Credits.

ENVS335. Allocating Scarce Environmental Resources. 4 Credits.
Considerations for the design of environmental and natural resources
policies and regulations: balancing society's preferences and the costs of
environmental protection and resource conservation.
Prereq: MATH 105 or higher.

ENVS345. Environmental Ethics. 4 Credits.
Key concepts and various moral views surveyed; includes
anthropocentrism, individualism, ecocentrism, deep ecology, and
ecofeminism. Exploration includes case studies and theory.

ENVS350. Ecological Footprint of Energy Generation. 4 Credits.
Detailed study of the ecological consequences of all forms of energy
generation including fossil fuels and alternative energy sources. Open to
environmental science, environmental studies, and planning, public policy
and management majors only.
Prereq: ENVS 201, MATH 112.

ENVS355. Environmental Data Analysis and Modeling. 4 Credits.
Statistical methods of data modeling and analysis with specific application
to environmental data sets.
Prereq: MATH 252 or equivalent.

ENVS375. Oregon Seminar. 4 Credits.
Students broaden and deepen their understanding of the materials
presented in three linked courses: BI 372 Field Biology, GEOL 308
Geology of Oregon and the Pacific Northwest, and HIST 473 American
Environmental History; [Topic]. Offered alternate years.
Prereq: junior or senior standing.

ENVS399. Special Studies: [Topic]. 1-5 Credits.
Repeatable.

ENVS401. Research: [Topic]. 1-12 Credits.
Repeatable.

ENVS403. Thesis. 1-8 Credits.
Repeatable.

ENVS404. Internship: [Topic]. 1-12 Credits.
Repeatable.
Prereq: Instructor's approval.
ENVS405. Reading and Conference: [Topic]. 1-18 Credits. Repeatable.

ENVS406. Field Studies: [Topic]. 1-12 Credits. Repeatable.

ENVS407. Seminar: [Topic]. 1-5 Credits. Repeatable.

ENVS408. Workshop: [Topic]. 1-8 Credits. Repeatable.

ENVS409. Practicum: [Topic]. 1-12 Credits. Repeatable.

ENVS410. Experimental Course: [Topic]. 1-5 Credits. Repeatable.

ENVS411. Environmental Issues: [Topic]. 4 Credits. In depth examination of a particular environmental topic such as global warming, ecosystem restoration, energy alternatives, geothermal development, public lands management, or environmental literature. Repeatable twice when topic changes for maximum of 12 credits. Prereq: junior or senior standing.

ENVS425. Environmental Education Theory and Practice. 4 Credits. Learning theories, environmental literacy, and the planning, implementation, and evaluation of environmental education programs. Development of teaching materials in collaboration with a community partner for group project. Prereq: instructor's approval.

ENVS427. Environmental and Ecological Monitoring. 4 Credits. Theory, design, and practice of monitoring sampling mapping, field techniques, data collection, management, analysis and presentation methods, local case studies.

ENVS429. Environmental Leadership: [Topic]. 1-4 Credits. Partnering with governmental agencies, nonprofit organizations, public schools and local businesses, students develop service learning projects. Repeatable when topic changes. Prereq: instructor's approval.


ENVS440. Environmental Aesthetics. 4 Credits. Explores aesthetic experience of nature through philosophical perspective; emphasizes nature and art; beauty and the sublime; embodiment, culture, and science; and ethics, conservation, and preservation. Prereq: ENVS 345 or PHIL 340.

ENVS450. Political Ecology. 4 Credits. Examines how social relations and economic, social, and cultural control of natural resources shape human interactions with the environment. Theory and case studies. Prereq: ENVS 201.

ENVS455. Sustainability. 4 Credits. Examines the evolution of the concept of sustainability and its complex and sometimes problematic uses among scholars, policymakers, environmentalists, and businesses. Pre- or coreq: ENVS 201; junior or senior standing.

ENVS465. Wetland Ecology and Management. 4 Credits. Examines management, law, and policies related to wetlands in an ecological framework; includes wetland type definitions, classification, distribution, formation and development, and restoration. Prereq: BI 307 or BI 370 or GEOG 360.

ENVS467. Sustainable Agriculture. 4 Credits. Examines sustainability issues in agricultural production and current food systems. Focuses on environmental aspects of seed, water, soil, energy, and pest management. Prereq: ENVS 201 or 202.

ENVS477. Soil Science. 4 Credits. Chemical and physical characteristics and classification of soils, field soil identification, soil degradation. Prereq: CH 111 or 221 or 224H.

ENVS503. Thesis. 1-16 Credits. Repeatable.

ENVS507. Seminar: [Topic]. 1-5 Credits. Repeatable.

ENVS508. Workshop: [Topic]. 1-8 Credits. Repeatable.

ENVS510. Experimental Course: [Topic]. 1-5 Credits. Repeatable.

ENVS511. Environmental Issues: [Topic]. 4 Credits. In depth examination of a particular environmental topic such as global warming, ecosystem restoration, energy alternatives, geothermal development, public lands management, or environmental literature. Repeatable twice when topic changes for maximum of 12 credits.

ENVS525. Environmental Education Theory and Practice. 4 Credits. Learning theories, environmental literacy, and the planning, implementation, and evaluation of environmental education programs. Development of teaching materials in collaboration with a community partner for group project.

ENVS535. Environmental Justice. 4 Credits. Environmental justice and its impact on current decisions. Focus on civil rights law, perception of risk, and relation of sustainability and equity.

ENVS540. Environmental Aesthetics. 4 Credits. Explores aesthetic experience of nature through philosophical perspective; emphasizes nature and art; beauty and the sublime; embodiment, culture, and science; and ethics, conservation, and preservation.

ENVS550. Political Ecology. 4 Credits. Examines how social relations and economic, social, and cultural control of natural resources shape human interactions with the environment. Theory and case studies.

ENVS555. Sustainability. 4 Credits. Examines the evolution of the concept of sustainability and its complex and sometimes problematic uses among scholars, policymakers, environmentalists, and businesses.

ENVS565. Wetland Ecology and Management. 4 Credits. Examines management, law, and policies related to wetlands in an ecological framework; includes wetland type definitions, classification, distribution, formation and development, and restoration.

ENVS567. Sustainable Agriculture. 4 Credits. Examines sustainability issues in agricultural production and current food systems. Focuses on environmental aspects of seed, water, soil, energy, and pest management.
ENVS577. Soil Science. 4 Credits.
Chemical and physical characteristics and classification of soils, field soil identification, soil degradation.

ENVS601. Research: [Topic]. 1-16 Credits.
Repeatable.

ENVS602. Supervised College Teaching. 1-5 Credits.
Repeatable.

ENVS603. Dissertation. 1-16 Credits.
Repeatable.

ENVS604. Internship: [Topic]. 1-5 Credits.
Repeatable for maximum of 10 credits.

ENVS605. Reading and Conference: [Topic]. 1-16 Credits.
Repeatable.

ENVS606. Field Studies: [Topic]. 1-16 Credits.
Repeatable.

ENVS607. Seminar: [Topic]. 1-5 Credits.
Repeatable.

ENVS608. Workshop: [Topic]. 1-16 Credits.
Repeatable.

ENVS609. Terminal Project. 1-16 Credits.
Repeatable.

ENVS610. Experimental Course: [Topic]. 1-5 Credits.
Repeatable. A recent topic is Interdisciplinary Capstone Project.

ENVS631. Environmental Studies Theory and Practice. 4 Credits.
Introduction to various disciplinary perspectives that contribute to environmental studies, including their research methods, vocabularies, and core concepts.

ENVS632. Environmental Studies Research Methodology. 2 Credits.
Identifying a clear and concise research problem, developing methodology to address that problem, and the process of developing a thorough knowledge of relevant literature.

ENVS633. Environmental Studies Thesis Development. 3 Credits.
Interdisciplinary readings in environmental studies focused on topics chosen by each student in consultation with instructor. Preparation for presentations at the Joint Campus Conference.