Environmental Sciences consists of curricula that foster interdisciplinary education for students seeking to better understand earth systems. The undergraduate curriculum leads to the BS degree in Environmental Sciences and requires students to complete courses that develop a broad base of knowledge in basic science disciplines, social sciences, and an area of specialization. A minor in environmental sciences is also available for those undergraduate students completing their degrees in other fields. The theme of the Environmental Sciences Program is central to the mission of OSU and reflects the strengths of OSU and other agencies and institutions in Corvallis and throughout the state of Oregon. The BS degree in Environmental Sciences provides excellent training for careers with agencies responsible for environmental protection and natural resource use, consulting firms, and those seeking opportunities for graduate studies.

Graduate Programs

Major
- Environmental Sciences (http://catalog.oregonstate.edu/college-departments/graduate-school/environmental-sciences/environmental-sciences-ma-ms-phd-psm/)

Minor
- Environmental Sciences (http://catalog.oregonstate.edu/college-departments/graduate-school/environmental-sciences/environmental-sciences-graduate-minor/)

Carolyn Fonyo Boggess, Interim Program Director
Environmental Sciences Graduate Program
104 Wilkinson Hall
Oregon State University
Corvallis, OR 97331
Phone: 541-737-5095
Website: http://envsci.science.oregonstate.edu/

ENSC 003, UNDERGRADUATE RESEARCH, 0 Credits
Engage in research activities appropriate to the discipline; and through the research experience, acquire skills, techniques, and knowledge relevant to the field of study. In consultation with a faculty mentor, engage in research activity, and make and execute a plan for a project.

ENSC 004, INTERNSHIP, 0 Credits
Provides basic personal and professional skills that can be used within and outside of a work setting. Through practice, this experience guides students in building and maintaining positive professional relationships, networking/mentoring relationships, and enhances students’ understanding of the connection between theory and practice in their respective disciplines.

ENSC 101, ENVIRONMENTAL SCIENCES ORIENTATION, 1 Credit
Introduction to the Environmental Sciences Program and related professional and educational opportunities. Recommended for all freshman and first-year transfer environmental sciences majors, but open to all students interested in learning about career options in the environmental sciences. Graded P/N.

ENSC 399, SPECIAL TOPICS, 1-16 Credits
Equivalent to: ENSC 399H
This course is repeatable for 16 credits.

ENSC 401, RESEARCH AND SCHOLARSHIP, 1-16 Credits
This course is repeatable for 24 credits.
Available via Ecampus

ENSC 402, INDEPENDENT STUDIES, 1-16 Credits
This course is repeatable for 24 credits.

ENSC 403, THESIS, 1-16 Credits
This course is repeatable for 24 credits.

ENSC 405, READING AND CONFERENCE, 1-12 Credits
Equivalent to: ENSC 405H
This course is repeatable for 16 credits.

ENSC 406, PROJECTS, 1-16 Credits
This course is repeatable for 24 credits.

ENSC 407, SEMINAR, 1-16 Credits
Equivalent to: ENSC 407H
This course is repeatable for 12 credits.

ENSC 407H, SEMINAR, 1-16 Credits
Attributes: HNRS – Honors Course Designator
Equivalent to: ENSC 407
This course is repeatable for 12 credits.
Available via Ecampus

ENSC 408, WORKSHOP, 1-16 Credits
This course is repeatable for 12 credits.

ENSC 410, ENVIRONMENTAL SCIENCE INTERNSHIP, 1-12 Credits
Supervised practical experience working with professionals at selected cooperating institutions, agencies, laboratories, or companies. Graded P/N.
This course is repeatable for 48 credits.
Available via Ecampus

ENSC 452, ENVIRONMENTAL ASSESSMENT, 3 Credits
Environmental site assessment is a primary tool for environmental science professionals. Apply environmental science concepts to evaluate features of a specific natural area and conduct a land suitability analysis. Create a conceptual site design and management plan that complies with federal, state, and local regulations and environmental laws.
CROSSLISTED as ENSC 452/GEOG 452 and GEOG 552.
Equivalent to: GEOG 452
ENSC 479, ENVIRONMENTAL CASE STUDIES, 3 Credits
Improves students' ability to ask questions, gather and synthesize information, and communicate ideas on environmental topics. Instruction and information necessary for the course is entirely Web based. (Bacc Core Course) (Writing Intensive Course)
Attributes: CSST – Core, Synthesis, Science/Technology/Society; CWIC – Core, Skills, WIC
Equivalent to: BOT 479
Recommended: One year of college biology or chemistry
Available via Ecampus

ENSC 499, SPECIAL TOPICS, 1-16 Credits
This course is repeatable for 16 credits.

ENSC 501, RESEARCH AND SCHOLARSHIP, 1-16 Credits
This course is repeatable for 16 credits.

ENSC 503, THESIS, 1-16 Credits
PREREQ: Departmental approval required.
This course is repeatable for 999 credits.

ENSC 505, READING AND CONFERENCE, 1-16 Credits
This course is repeatable for 16 credits.
Available via Ecampus

ENSC 506, PROJECTS, 1-16 Credits
This course is repeatable for 16 credits.
Available via Ecampus

ENSC 507, SEMINAR, 1-16 Credits
This course is repeatable for 16 credits.

ENSC 508, WORKSHOP, 1-16 Credits
PREREQ: Departmental approval required.
This course is repeatable for 16 credits.
Available via Ecampus

ENSC 510, INTERNSHIP, 1-12 Credits
This course is repeatable for 12 credits.
Available via Ecampus

ENSC 515, ENVIRONMENTAL PERSPECTIVES AND METHODS, 3 Credits
Unique perspective or method each quarter. Possibilities include: remote sensing, modeling over a range of scales in time, space, and levels of system organization; and risk analysis.
Available via Ecampus

ENSC 516, USING BEST PRACTICES IN ENVIRONMENTAL PROJECT MANAGEMENT, 4 Credits
Explore foundational project management concepts using a real world case-study to practice both soft and hard skills through individual and group assignments, discussions and presentations. Apply best practices, methodologies and tools using a global standards framework to achieve successful outcomes in environmental project management work. Active learning and networking are incorporated throughout the course to provide a full perspective on project management.
Available via Ecampus

ENSC 520, ENVIRONMENTAL ANALYSIS, 3 Credits
Develop analytical thinking, explore analytical approaches, enhance writing skills, and gain experience in oral communication about environmental issues.
Available via Ecampus

ENSC 540, ENVIRONMENTAL SCIENCE PERSPECTIVES ON THE FUTURE OF FOOD, 4 Credits
Examines the newest developments in environmental science research and on-the-ground best management practices for achieving food security and sustainability for growing U.S. and global populations in a dynamic environment and climate.
Available via Ecampus

ENSC 541, ENVIRONMENTAL SCIENCE, SCIENTISTS, AND SOUND DECISIONS, 4 Credits
Focusing on analyzing the role of environmental science and scientists in decision-making in a variety of professional contexts at various scales (local through global) using a case-study approach and proposing a draft model process.
Available via Ecampus

ENSC 542, MANAGEMENT OPPORTUNITIES IN THE NITROGEN CASCADE, 4 Credits
Analyzes the environmental science behind reducing excess reactive nitrogen entering the environment through our provision of food, power, and transportation for future populations. Identifies emerging complementary suites of interventions and legislation innovating management practices at local, regional, national and international scales.
Available via Ecampus

ENSC 543, EXCELLING IN AN INTERDISCIPLINARY TEAM, 4 Credits
Identifying, examining and practicing the top skills, attributes and leadership dynamics involved in working in interdisciplinary environmental science teams in industry, government, and research organizations, informed by experienced experts across these areas.
Available via Ecampus
ENSC 555X, FOOD FOR CHANGE, 3 Credits
Focusing on traditional regional recipes, explore and document how
global change has affected food production and demand until today and
how projected climate change will affect it in the future by analyzing the
ingredient lists. Focus on one recipe/ingredient, find maps of past/current
crop ranges, document changes, and identify possible replacement
ingredients projecting future culinary solutions.
Recommended: GEOG 472
Available via Ecampus

ENSC 599, SELECTED TOPICS, 1-16
Credits
This course is repeatable for 16 credits.

ENSC 601, RESEARCH AND
SCHOLARSHIP, 1-16 Credits
This course is repeatable for 16 credits.

ENSC 603, THESIS, 1-16 Credits
This course is repeatable for 999 credits.

ENSC 605, READING AND CONFERENCE,
1-16 Credits
This course is repeatable for 16 credits.

ENSC 606, PROJECTS, 1-16 Credits
This course is repeatable for 16 credits.

ENSC 607, SEMINAR, 1-16 Credits
This course is repeatable for 16 credits.

ENSC 699, SELECTED TOPICS, 1-16
Credits
This course is repeatable for 16 credits.