



Oregon State University

ENVIRONMENTAL SCIENCES GRADUATE PROGRAM (ESGP) AREA OF CONCENTRATION IN SOCIAL SCIENCES

PURPOSE

The Area of Concentration in Social Sciences is designed for students who have a strong natural science background and want to develop capabilities in the social sciences to go with this background. The Social Science track focuses on merging qualitative methodologies with various types of survey research.

Identification and measurement of people's values are a major area of social science inquiry that integrates across social science disciplines. Environmental decisions require the systematic study of values and preferences from both scientific and applied perspectives. Methods for assessing values are central to the Social Science track.

PROGRAM OF STUDY

The Social Sciences track includes: ESGP Core courses, Methods and Numerical Skills courses, Science Focal Area courses, Elective courses, and Thesis or Project. Total credits required are a minimum of 45 Cr for the M.S. and M.A. degrees and 108 Cr for the Ph.D. degree. Typical Programs of Study will include minimum credits as follows:

Subject Area	M.S. & M.A. Degrees	Ph.D. Degree
ENSC Core Courses	6 Cr	6 Cr
Methods and Numerical Skills	6-8 Cr	9-10 Cr
Science Focal Area Courses	15 Cr min.	30 Cr min.
Electives	11 Cr max.	26 Cr max.
Thesis or Project	6 Cr	36 Cr
Total	45 Cr	108 Cr

ESGP CORE COURSES

ENSC 515 Environmental Perspectives and Methods (3) (Fall term)
ENSC 520 Environmental Analysis (3) (Winter term)

ETHICS

CITI Responsible Conduct for Research (free training through OSU) or equivalent (0 Cr).
Instructions are found at this link: <https://gradschool.oregonstate.edu/environmental-sciences/student-handbook-environmental-science-graduate-program>

METHODS AND NUMERICAL SKILLS

6-8 Cr for the M.S. and M.A. degrees and **9 Cr minimum** for the Ph.D. degree. These courses are to ensure students have sufficient skills in research methods including mathematics, statistics, and computer science. Courses are to be selected by the student, advisor, and advising committee from the list below and from other offerings. **The courses below are a suggested partial listing and are to be selected by consensus of the graduate advisor, advising committee, and student.**

Additional online courses may be included in the program of study that are not listed below. Search the Schedule of Classes by keyword or prefix for additional course options:

https://classes.oregonstate.edu/?keyword=ensc&srcdb=999999&coursetype=coursetype_02&camp=DB,DI

AEC 525 Applied Econometrics (4)
AEC 550 Environmental and Natural Resource Economics (4)
ANTH 591 Ethnographic Methods (4)
ANTH 593 Statistical Applications in Anthropology (4)
ANTH 595 Anthropological Research Design (4)
COMM 514 Communication Research Methods (3)
ECON 524 Introduction to Econometrics (4)
ECON 539 Public Policy Analysis (4)
FES 520 Posing Research Questions (3)
FES 522 Research Methods Social Science (4)
FES 523 Quantitative Analysis in Social Science (4)
GEOG 552 Environmental Assessment (3)
PPOL 521 Understanding Social Research (4)
PPOL 522 Quantitative Methods for Public Policy Analysis (4)
PPOL 523 Qualitative Research Methods (4)
ST 511, 512, 513 Methods of Data Analysis (4 each)

ST 515 Design and Analysis of Planned Experiments (3)

SCIENCE FOCAL AREA COURSES

15 Cr Minimum for the M.S. and M.A. degree and **30 Cr Minimum** for the Ph.D. degree. Courses in social science environmental topics are intended to develop student background in human impacts on environmental systems and effects of environmental change on social systems. The courses below are a suggested partial listing and are to be selected by consensus of the graduate advisor, advising committee, and student. Additional online courses may be included in the program of study that are not listed below.

AEC 532 Environmental Law (4)
AEC 550 Environmental and Natural Resource Economics (4)
ANTH 581 Natural Resources and Community Values (4)
COMM 540 Theories of Conflict and Conflict Management (3)
FES 521 Natural Resource Research Planning (3)
FES 525 Interdisciplinary Approaches to Socio-Ecological Problems (3)
FES 526 Effective Communication and Presentation Skills for Scientists (1)
FES 580 Writing Scientific Manuscripts (1)
FES 585 Consensus and Natural Resources (3)
FES 586 Public Lands Policy and Management (3)
GEOG 512 Social-Ecological Systems (3)
GEOG 533 Climate Change Impacts, Adaptation, and Vulnerability (3)
GEOG 540 Conflict, Cooperation, and Control of Water in the United States (3)
GEOG 541 The World's Water (3)
GEOG 551 Planning Principles and Practices for Resilient Communities (4)
GEOG 553 Effective Communication of Environmental Change Science (3)
GEOG 564 Geospatial Perspective on Intelligence, Security, and Ethics (3)
TRAL 593 Environmental Interpretation (4)
PHL 543 World Views and Environmental Values (3)
PPOL 544 Collaborative Governance (4)
PPOL 546 The Policy and Law of United States Coastal Governance (4)
PS 575 Environmental Politics and Policy (4)

PS 577 International Environmental Politics and Policy (4)
SOC 580 Environmental Sociology (4)
SOC 581 Society and Natural Resources (4)
WRP 521 Water Conflict Management and Transformation (3)
WRP 524 Sociotechnological Aspects of Water Resources (3)
WRP 544 Managing Natural Resources for Climate Adaptation (3)

ELECTIVE COURSES

11 Cr maximum for the M.S. and M.A. degrees and **26 Cr maximum** for the Ph.D. degree. Students will work with their graduate advisor and committee to select elective courses to develop necessary background, and to add breadth and depth to the student's Program of Study.

Search the Schedule of Classes by keyword or prefix for additional course options:
https://classes.oregonstate.edu/?keyword=ensc&srcdb=999999&coursetype=coursetype_o2&camp=DB,DI

THESIS

6 Cr for the M.S. and M.A. degrees and **36 Cr** for the Ph.D. degree.