



ENVIRONMENTAL SCIENCES GRADUATE PROGRAM AREA OF CONCENTRATION IN SOCIAL SCIENCE

PURPOSE

The Area of Concentration in Social Science 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 Science track has five components: ES Core courses, Methods and Numerical Skills courses, Social Science Topics courses, Scientific Focal Area courses, Elective co~s, and dissertation. Total credits required are a minimum of 45 Cr for the M.S. and M.A. degree and 108 Cr for the Ph. D. degree. Typical Programs of Study will include minimum credits as follow:

<u>Subject Area</u>	<u>M.S. & M.A. Degrees</u>	<u>Ph. D. Degree</u>
ES Core Courses	9 Cr	10 Cr
Methods and Numerical Skills	9 Cr	9 Cr
Social Science Environ. Topics	12 Cr	18 Cr
Science Focal Area Courses	9 Cr	15 Cr
Electives	0 Cr	0-14 Cr
Thesis	6 Cr	36-50 Cr
Total	45 Cr	108 Cr

CORE COURSES

9-12 Cr. for the M.S and M.A. degree (required are ENSC 515, 520, 508 and one class from the approved list of core courses- below) and 10-12 Cr. for the Ph. D. degree. (required are ENSC 515, 520, 508 and classes from the approved list of core courses- below). These courses include Environmental Perspectives, Environmental Analysis, Environmental Profiles, and the Joint-Campus Workshop in Environmental Science, Studies, and Policy.

Approved Core Course List:

ANTH 581	Natural Resources and Community Values
ANTH 582	World Food and the Cultural Implications of International Development
BI/BOT 589	Analysis of Environmental Issues
BI 570	Community Structure and Analysis
BI 670	Community Structure and Analysis
Comm 540	Theories of Conflict and Conflict Management
EC 539	Public Policy Analysis
FOR 561	Forest Policy Analysis
FS520	Posing Researchable Questions
FS521	Natural Resource Research Plan
FS565	Forest Ecosystem Management
FS646	Ecosystem Analysis and Evaluation
FW515	Model Selection and Inference
GEO 520	Geography of Resource Use
H524	Health Data Analysis
H525	Intro Epidemiology
H526	Epidemiological Methods

H549	Health Risk Communication
H575	Evaluation
H576	Proposal Writing
HIST 569	History of the Pacific Northwest
LA 607	Experimental Seminar in Biocomplexity and Alternative Futures
MRM515	Coastal Resources Management
PS 574	Bureaucratic Politics and Policy
PS 575	Politics of Environmental Problems
PS 576	Science and Politics
RNG 650	GIS Watersheds Analysis
SED 580	Research and Evaluation
SOC 581	Society and Natural Resources
Z582	Molecular Methods in Ecology and Evolution

METHODS AND NUMERICAL SKILLS COURSES

9 Cr for M.S. and M.A. degree and 9 Cr for Ph. D. degree. Courses in Methods and Numerical Skills are intended to develop student background in qualitative, quantitative or statistical methods courses. The courses below are not a complete list satisfying the Methods and Numerical Skills category of courses. Quantitative methods, qualitative methods, and statistical methods courses are to be selected by consensus of the graduate advisor, advising committee, and student.

1A. Qualitative Methods

ANTH 591 Ethnographic Methods
 ANTH 598 Oral Traditions
 COMM 514 Communication Research Methods
 PS 5XX Course Under Development
 SOC 518 Qualitative Sociology

1B. Quantitative Methods

ANTH 593 Statistical applications in Anthropology
 EC 525 Econometric Methods
 EC 526 Applied Econometrics
 HDFS 531 Methods of Behavioral Research
 SOC 516 Conducting Social Research

1C. Statistical Methods

STAT 511, 512, 513 Methods of Data Analysis
 STAT 531 Sampling Methods
 STAT 539 Survey Methods

SOCIAL SCIENCE

Social Science Environmental Topics: 12 Cr for M.S. and M.A. degree and 18 Cr for 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. Social science environmental topics are to be selected by consensus of the graduate advisor, advising committee, and student.

Agricultural and Resource Economics

AREC 550 Environmental Economics
 AREC 551 Natural Resource Economics
 AREC 651 Advanced Resource Economics
 AREC 652 Advanced Environmental Economics

Anthropology

ANTH 581 Natural Resources and Community Values
 ANTH 582 World Food and Development

Business

BA 532 Environmental Law

Civil Engineering

CE 547 Environmental Resource Systems

Economics

EC 539 Public Policy Analysis

Forest Resources

FOR 530 & 531 Forest Resource Economics I & II
 FOR 532 Economics of Recreation Resources
 FOR 559 Forest Resource Planning and Decision Making

Geosciences

GEO 520 Geography of Resource Use
GEO 522 Ecological Knowledge and Environmental Problems
GEO 524 Water Resources Geography
GEO 526 Third-World Resource Development
GEO 529 Topics in Resource Geography

History

HST 581 Environmental History
HST 569 History of the Pacific Northwest
HST 567 & 568 History of the American West

Marine Resource Management

MRM 514 Ocean Resources Management
MRM 515 Coastal Resources Management

Philosophy

PHIL 590 Ethical Issues in the Resource Sciences
PHIL 543 World Views and Environmental Values

Political Science

PS 574 Bureaucratic Politics and Policy
PS 575 Politics of Environmental Problems
PS 576 Science and Politics

Sociology

SOC 580 Environmental Sociology
SOC 581 Society and Natural Resources
SOC 575 Rural-Urban Sociology

Speech Communication

COMM 540 Theories of Conflict and Conflict Management
COMM 542 Bargaining and Negotiation Processes
COMM 544 Mediation

SCIENCE FOCAL AREA

9 Cr for M.S. and M.A. degree and 15 Cr for Ph. D. degree. Courses in the science focal area are to supplement the natural science background that was the background for entering the program and may be selected from life or physical science disciplines. The combination of courses taken prior to admission to the program and science focal area courses are intended to develop a coherent area of scientific study. Science focal area courses may be selected from the Ecological Area of Concentration, other ES areas of concentration, or courses from the Colleges of Science, Agricultural Sciences, Oceanic and Atmospheric Sciences, Forestry, or Engineering. Science focal area courses are to be selected by consensus of the graduate advisor, advising committee, and student.

ELECTIVE COURSES

0 Cr for M.S. and M.A. degree and 0-14 Cr for Ph. D. Degree. Students will work with their graduate advisor and committee to select elective co~ to develop necessary background to add breadth and depth to the student's Program of Study.

THESIS:

6 Cr for M.S. and M.A. degree and 36-50 Cr for Ph. D. degree.