

Environmental Studies Degree Requirements (2009/2010 Catalog)

Requirements for the Major

1. Fulfill requirements for the Bachelor of Science degree as stated in the Southern Oregon University catalog.
2. Maintain a 2.5 GPA in all courses taken for the major. Note: Coursework in the major must be taken for a letter grade (not P/NP).
3. Complete the Core Requirements for the Environmental Studies major.
4. Complete requirements for a Concentration in Cultural Resource Management, Earth Science, Ecology & Conservation, Land Use Planning, **or** Sustainability & Policy.

SOU Core Curriculum Requirements

University Seminar (12)

Quantitative Reasoning (4-8)

Explorations Courses

Humanities (12)

Sciences (12)

Social Sciences (12)

Integration Courses

Strand H: Science, Technology, and Society (3-4)

Strand I: Citizenship and Social Responsibility (3-4)

Strand J: Diversity and Global Awareness (3-4)

*Two of three strands can be met in the major area.

ES Core Curriculum Requirements

Required Lower Division (16 credits):

ES 101 Intro to ES: Earth Science (4)

ES 102 Intro to ES: Biological Science (4)

ES 103 Intro to ES: Social Science (4)

Note: Students may substitute either of the following for ES 101 and ES 102, with advisor approval:

G 101 or G102 and G103 (8) **or** ES 111 and 112 (8)

ES 210 Applications in Environmental Studies (4)

Required Upper Division (14 credits):

ES 310 Topics in Environmental Studies (2)

ES 351 Environmental Policy (4)

ES/GEOG 349 Maps/Carto/Geospatial Tech. (4)

Select one from the following:

ES/GEOG 451 Intro to GIS (4)

ES/GEOG 453 Intro to Remote Sensing (4)

ES/GEOG 457 Intro to Global Positioning Systems (4)

Upper Division Natural Science

Select two of the following (8 credits):

BI 340 Introductory Ecology (4)

GEOG 482 Climatology (4)

G 360 Environmental Geology (4)

G 314 Hydrology (4)

Upper Division Social Science

Select two of the following (8 credits):

ES 421 Ecological Economics & Sustainable Development (4)

ANTH 451 Cultural Ecology (4)

SOC 420 Environmental Sociology (4)

GEOG 437 Conservation in the U.S. (4)

Mathematics (8 credits):

MTH 243 Introductory Statistics (4)

ES/GEOG 386 Environmental Data Analysis (4) or
Students selecting the Earth Science Concentration are required to complete

MTH 111 and MTH 112. These courses will substitute for MTH 243 and ES 386.

Capstone (4 to 9 credits):

ES 494 ES Capstone (4)

ES 496, ES 497 ES Honors Capstone with advisor approval (5 - 8)

or

Students taking the Earth Science Concentration should complete Field Geology (G 406) as their capstone, but may substitute the above ES Capstone (ES 494) with an additional geology course with advisor approval (9)

Ecology and Conservation Concentration (41 to 44 credits)

Students selecting the Ecology and Conservation Concentration will complete BI 340 Introductory Ecology, G 360 Environmental Geology, and GEOG 437 Conservation in the U.S. within the Environmental Studies core. Core courses cannot be used to meet upper division elective requirements within this concentration.

Ecology and Conservation Core (28 credits)

- CH 100 and CH 100L Fundamentals of Chemistry with Laboratory (4)
- CH101 and CH101L Environmental Chemistry with Laboratory (4)
- ES 479 Biosphere, Ecology & Global Environmental Change (4)
- ES 480 Fire Ecology (4)
- ES 475 Environmental Modeling (4)
- GEOG/G 433 Soil Science (4)
- ES 435 Water Resources (4)

Upper Division Electives: Select four of the following (13 to 16 credits)

- BI 475 Aquatic Ecology (4)
- ES 379 Biodiversity (3)
- BI 438 Conservation Biology (3)
- ES 445 Ecosystem Management & Conservation (4)
- BI 450 Fish & Fisheries (4)
- BI 386 Forest Ecology & Management (3)
- BI 454 Plant Ecology (4)
- ES 442 Valuation of Ecosystem Goods & Services (4)