

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)

Earth Science Concentration (46 to 52 credits)

Students selecting the Earth Science Concentration will complete G314 Hydrology and G360 Environmental Geology within the Environmental Studies core.

Core courses cannot be used to meet upper division elective requirements within this concentration.

Lower Division Core (20-24 credits)

- G 103 Historical Geology (4)

Select one of the following Chemistry Sequences:

- CH 100/100L Fundamentals of Chemistry (4)
- CH 201 and CH 204 General Chemistry (5)
- CH101/101L Environmental Chemistry (4)
- CH 202 and CH 205 General Chemistry (5)

Select one of the following Biology or Physics Sequences:

- BI 101/101L General Biology: Cells (4)
- PH 201/224 General Physics I (5)
- BI 103/103L General Biology: Populations (4)
- PH 202/225 General Physics II (5)

Note: Students may substitute BI 211 and BI 212 with advisor approval.

Note: Students may substitute PH 221 and PH 222 with advisor approval.

Earth Science Concentration Core (16 credits)

- G 318 Minerals & Crystals (3)
- G 319 Lithology & Geology of Southern Oregon (3)
- G 321 Structural Geology: Brittle Deformation (3)
- G 341 Sedimentology (3)
- G 480 Field Techniques (4)

Upper Division Geology: Select two of the following (6 to 8 credits)

- G 315 Hydrogeology (4)
- G 322 Structural Geology: Plastic Deformation & Tectonics (3)
- G 342 Stratigraphy (3)
- G 431 Igneous & Metamorphic Petrology (4)
- G/GEOG 433 Soil Science (4)
- G/GEOG 481 Geomorphology (4)

Upper Division Natural Science: Select one of the following (4 credits)

- BI 340 Introductory Ecology (4)
- ES 475 Environmental Modeling (4)
- ES 327 Energy & Climate Change (4)
- ES 435 Water Resources (4)
- GEOG 482 Climatology (4)