Environmental Studies Major Requirements

All courses for the major must be taken for a grade (C- or better). Up to 16 upper division credits (usually four courses) may be applied to a 2nd major. You must meet with a student or faculty adviser at least two terms prior to graduation.

Check pre-requisites for all upper division courses.

**AREA 1. Lower Division Environmental Studies Core Requirements**

<table>
<thead>
<tr>
<th>ENVS 201 (Soc Sci)</th>
<th>ENVS 202 (Nat Sci)</th>
<th>ENVS 203 (Humanities)</th>
</tr>
</thead>
</table>

**AREA 2. Lower Division Math and Science Requirements**

Math (2 courses):
- ______ MATH 100 or above (Math 111 recommended)
- ______ Statistics (MATH 243, 425, SOC 312, GEOL 418 or GEOG 495)

Natural Sciences (4 courses): One sequence of three courses from approved list below, plus an additional course from a different sequence. At least two departments must be represented.

Sequence: _________, _________, _________, additional Nat Sci class _________

- Life Sciences: BI 211-213 or CHEM 111/113/114, BI 211, BI 213
- Chemistry: CH 221-223
- Earth Sciences: GEOL 101-103 or GEOL 201-203
- Physical Sciences: CH 111/113, PHYS 161-162 or PHYS 201-203

Additional approved non-sequence lower-division science courses:
- ANTH 170, BI 130, BI 131 (but not in conjunction with the Life Science sequence)
- CH 113
- CH 114
- GEOG 141
- GEOG 181 [>2]
- GEOL 213

**AREA 3A. Upper-Division Natural Science (2 courses)**

- ANTH 341 Food Origins
- ANTH 361 Human Evolution
- ANTH 362 Human Biological Variation (IP)
- ANTH 375 Primates in Ecological Communities
- ANTH 446 Practical Archaeobotany
- ANTH 463 Primate Behavior
- ANTH 466 Primate Feeding and Nutrition
- ANTH 472 Primate Conservation Biology
- BI 306 Pollination Biology
- BI 307 Forest Biology
- BI 309 Tropical Diseases of Africa
- BI 330/331 Microbiology and Lab
- BI 357 Marine Biology
- BI 359 Plant Biology
- BI 370 Ecology
- BI 374 Conservation Biology
- BI 375 Biological Diversity
- BI 380 Evolution
- BI 390 Animal Behavior
- BI 432 Mycology
- BI 442 Systematic Botany
- BI 448 Field Botany
- BI 451 Invertebrate Zoology [OIMB] (If 8 credits, then counts as 2 courses)
- BI 452 Insect Biology
- BI 454 Estuarine Biology [OIMB] (5 credits)
- BI 455 Marine Birds and Mammals [OIMB] (6 credits)
- BI 457 Marine Biology [OIMB] (8 credits, counts as 2 courses)
- BI 458 Biological Oceanography [OIMB] (5 credits)
- BI 468 Amphibians & Reptiles of Oregon
- BI 471 Population Ecology
- BI 472 Community Ecology
- BI 474 Marine Ecology [OIMB] (8 credits, counts as 2 courses)
- BI 476 Terrestrial Ecosystem Ecology
- CH 331 Organic Chemistry I
- CH 335 Organic Chemistry II
- CH 336 Organic Chemistry III
- ENVS 350 Ecological Footprint of Energy Generation
- ENVS 465 Wetland Ecology & Management
- ENVS 477 Soil Science
- GEOG 321 Climatology
- GEOG 322 Geomorphology
- GEOG 323 Biogeography
- GEOG 360 Watershed Science & Policy
- GEOG 361 Global Environmental Change
- GEOG 421 Advanced Climatology
- GEOG 423 Advanced Biogeography
- GEOG 425 Hydrology and Water Resources
- GEOG 427 Fluvial Geomorphology
- GEOG 430 Long-Term Environmental Change
- GEOG 433 Fire and Natural Disturbances
- GEOG 461 Environmental Alteration
- GEOG 481 GIScience I
- GEOG 482 GIScience II
- GEOG 485 Remote Sensing I
- GEOG 486 Remote Sensing II
- GEOG 491 Advanced GIS
- GEOL 304, 305, 306, 307 OR 308 (no more than one course of GEOL 30X)
- GEOL 310 Earth Resources & Environment
- GEOL 311 Earth Materials (5 credits)
- GEOL 315 Earth Physics
- GEOL 316 Introduction to Hydrogeology
- GEOL 331 Mineralogy (5 credits)
- GEOL 332 Introduction to Petrology (5 credits)
- GEOL 334 Sedimentology and Stratigraphy
- GEOL 350 Structural Geology (3 credits)
- GEOL 353 Geological Hazards
- GEOL 425 Geology of Ore Deposits
- GEOL 431 Paleontology I: Paleozoic Marine Fossils
- GEOL 433 Paleobotany
- GEOL 434 Vertebrate Paleontology
- GEOL 438 Geobiology
- GEOL 439 Paleopedology
- GEOL 441 Hillslope Geomorphology
- GEOL 451 Hydrogeology
- GEOL 452 Neotectonics and Quaternary Geology
- GEOL 462 Environmental Geomechanics
- GEOL 468 Intro Seismology
- GEOL 472 Aqueous-Mineral-Gas Equilibria
- GEOL 473 Isotope Geochemistry
- LA 465 Landscape Ecology
- Other approved course listed on tip sheet
**AREA 3B. Upper-Division Social Science, Policy, Humanities and Sustainable**

**Design and Practice Courses (10 courses)**
All ENVS majors must complete 1 core course from each of the following 4 categories. Then select 2 categories and complete an additional 3 courses (core or elective) in each. *Course is repeatable if titles are different*

An Honors Thesis can substitute for one elective course.

### Social Science
**Core Courses:**
- ENVS 435 Environmental Justice
- ENVS 450 Political Ecology
- ENVS 455 Sustainability
- GEOG 341 Population & Environment [>2][IC]
- SOC 416 Issues in Sociology of the Environment [contact instructor for approval]*

**Elective Courses:**
- ANTH 320 Native North Americans [>2][IP]
- ANTH 431 Plants and People
- ES 350 Native American and the Environment [IP]
- GEOG 342 Geography of Globalization
- GEOG 442 Urban Geography
- GEOG 465 Environment and Development [IC]
- GEOG 466 Gender and Environment
- GEOG 471 North American Historical Landscapes [AC]
- INTL 420 International Community Development
- INTL 421 Gender and International Development [IP]
- INTL 432 Indigenous Cultural Survival [IC]
- SOC 303 World Population [>2][IC] (contact instructor for approval)
- SOC 304 Community, Environment, Society [>2]
- SOC 442 Issues in Urban Sociology (contact instructor for approval)
- SOC 450 Soc of Developing Areas [IC] (contact instructor for approval)
- WGS 331 Science, Technology & Gender [IP]
- Other approved course listed on tip sheet

### Policy
**Core Courses:**
- ENVS 335 Allocating Scarce Environmental Resources [>2]
- ENVS 443 Natural Resource Policy
- ENVS 444 Environmental Policy
- PS 367 Science and Politics of Climate Change [>2]
- PS 477 International Environmental Politics

**Elective Courses:**
- EC 330 Urban and Regional Economic Problems [>2][IP]
- EC 333 Resource & Environmental Economic Issues [>2]
- EC 434 Environmental Economics
- EC 435 Natural Resource Economics
- GEOG 463 Geography, Law, and the Environment
- GEOG 467 International Water Policy
- PPPM 327 Global Leadership and Change
- PPPM 331 Environmental Management
- PPPM 340 Climate Change Policy [>2]
- PPPM 418 Introduction to Public Law
- PPPM 438 Issues in Planning
- PPPM 441 Growth Management
- PPPM 446 Socioeconomic Development Planning
- PPPM 480 Nonprofit Management I
- Other approved course listed on tip sheet

### Humanities
**Core Courses:**
- ENG 469 Literature and the Environment*
- ENVS 345 Environmental Ethics [>1]
- HIST 378 American Environmental History to 1890 [>2] [AC]
- HIST 379 American Environmental History, 1890-Present [>2] [AC]
- HIST 473 American Environmental History
- PHIL 340 Environmental Philosophy [>1]

**Elective Courses:**
- ENG 325 Literature of the Northwest
- J 463 Specialized Reporting: Environmental Writing
- LA 333 Photo and Environmental Values [>1]
- LA 421 Landscape Photography and Environmental Perception
- PHIL 309 Global Justice [>2]
- PHIL 339 Intro Philosophy of Science
- PHIL 345 Place in the Cosmos [>1]
- Other approved course listed on tip sheet

### Sustainable Design and Practice
**Core Courses:**
- ARCH 430 Architectural Contexts: Place & Culture
- ARCH 431 Community Design
- ARCH 435 Principles of Urban Design
- ENVS 467 Sustainable Agriculture
- LA 440 Introduction to Landscape Planning Analysis
- LA 441 Principles of Applied Ecology
- PPPM 442 Sustainable Urban Development
- PPPM 445 Green Cities

**Elective Courses:**
- ARCH 436/437 Theory of Urban Design
- ARCH 491/492 Environmental Control Systems
- LA 337 Landscape Field Work*
- LA 390 Urban Farm (this course may be taken only once for the major)
- LA 413 Analyzing Land Systems
- LA 484 Landscape Perception
- Other approved course listed on tip sheet

### AREA 4. Environmental Issues (1 course)
- ENVS 411, 425, 427, or other approved course listed on tip sheet

### AREA 5. Practical Learning Experience (4 credits)
All ENVS majors must complete 4 upper division credits of practical learning (eg, ENVS 401, 404, 429 or other approved course) which can be satisfied in any of the following ways:
- Environmental Leadership Program (ENVS 429 – application required)
- Internship (ENVS 404 – approval by Internship Coordinator required)
- IE3 international internship (OINT 488)
- One pre-approved environmental course taken while studying abroad
- One term of study at a field station such as OIMB
- Honors Thesis (ENVS 403 – w/ advisor approval)
- Other experiential learning opportunity as approved by faculty advisor

Last updated 2/2/2018