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
ENVS 201 (Soc Sci) _______ ENVS 202 (Nat Sci) _______ ENVS 203 (Humanities) _______

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: CHEM 221-223
• Earth Sciences: GEOL 101-103 or GEOL 201-203
• Physical Sciences: CHEM 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 [SSC]
• GEOL 213

AREA 3A. Upper-Division Natural Science (2 courses)
______ ANTH 330 Hunters and Gatherers [SSC] [IC]
______ 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 456 Marine Biology [OIMB] (8 credits, counts as 2 courses)
______ BI 457 Marine Biology [OIMB] (5 credits)
______ BI 458 Biological Oceanography [OIMB] (5 credits)
______ BI 459 Field Ornithology
______ BI 468 Amphibians & Reptiles of Oregon
______ BI 469 Ecological Restoration
______ BI 471 Population Ecology
______ BI 472 Community Ecology
______ BI 473 Quantitative Ecology (5 credits)
______ BI 474 Marine Ecology [OIMB] (8 credits, counts as 2 courses)
______ BI 476 Terrestrial Ecosystem Ecology
______ CHEM 331 Organic Chemistry I
______ CHEM 335 Organic Chemistry II
______ CHEM 336 Organic Chemistry III
______ CHEM 375 Biological Chemistry
______ CHEM 380 Ecological Footprint of Energy Generation
______ CHEM 450 Wetland Ecology & Management
______ CHEM 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 432 Climatological Aspects of Global 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
______ GEOG 504, 505, 506, 507 OR 508 (no more than one course of GEOG 50X)
______ GEOG 510 Earth Resources & Environment
______ GEOG 511 Earth Materials (5 credits)
______ GEOG 515 Earth Physics
______ GEOG 516 Introduction to Hydrogeology
______ GEOG 531 Mineralogy (5 credits)
______ GEOG 532 Introduction to Petrology (5 credits)
______ GEOG 534 Sedimentology and Stratigraphy
______ GEOG 535 Structural Geology (3 credits)
______ GEOG 536 Geological Hazards
______ GEOG 542 Geology of Ore Deposits
______ GEOG 431 Paleontology I: Paleozoic Marine Fossils
______ GEOG 433 Paleobotany
______ GEOG 434 Vertebrate Paleontology
______ GEOG 435 Paleopedology
______ GEOG 441 Hillslope Geomorphology
______ GEOG 451 Hydrogeology
______ GEOG 452 Neotectonics and Quaternary Geology
______ GEOG 462 Environmental Geomorphology
______ GEOG 468 Intro Seismology
______ GEOG 472 Aqueous-Mineral-Gas Equilibria
______ GEOG 473 Isotope Geochemistry
______ GEOG 486 Remote Sensing II
______ GEOG 491 Advanced GIS
______ GEOG 492 Advanced GIS
______ GEOG 493 Advanced GIS
______ GEOG 494 Advanced GIS
______ GEOG 495 Advanced GIS
______ LA 465 Landscape Ecology
______ Other approved course listed on tip sheet

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**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 [SSC][IC]
- SOC 416 Issues in Sociology of the Environment (contact instructor for approval)*

Elective Courses:
- ANTH 320 Native North Americans [SSC][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 [SSC][IC] (contact instructor for approval)
- SOC 304 Community, Environment, Society [SSC]
- 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 [SSC]
- PPPM 443 Natural Resource Policy
- PPPM 444 Environmental Policy
- PS 367 Science and Politics of Climate Change [SSC]
- PS 477 International Environmental Politics

Elective Courses:
- EC 330 Urban and Regional Economic Problems [SSC][IP]
- EC 333 Resource & Environmental Economic Issues [SSC]
- 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 [SSC]
- PPPM 438 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 [A&L]
- HIST 378 American Environmental History to 1890 [SSC] [AC]
- HIST 379 American Environmental History, 1890-Present [SSC] [AC]
- HIST 473 American Environmental History
- PHIL 340 Environmental Philosophy [A&L]

Elective Courses:
- ENG 325 Literature of the Northwest
- J 463 Specialized Reporting: Environmental Writing
- LA 333 Photo and Environmental Values [A&L]
- LA 421 Landscape Photography and Environmental Perception
- PHIL 309 Global Justice [SSC]
- PHIL 339 Intro Philosophy of Science
- PHIL 345 Place in the Cosmos [A&L]
- 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 439 Minimal Dwelling
- ARCH 491/492 Environmental Control Systems
- ARH 477 or 478 History of Landscape Architecture
- 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
- PEOL 451, 453, or 455
- Honors Thesis (ENVS 403 – w/ advisor approval)
- Other experiential learning opportunity as approved by faculty advisor

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