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: 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 [SSC]

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 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
________ 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 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
________ 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 435 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

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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 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

Humansities

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 (QINT 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

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