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 105 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

Additonal 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 350 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]
- PPPM 443 Natural Resource Policy
- PPPM 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