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 (>2)
- GEOG 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 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 333 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 [>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

Humansities
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
  ________ HIST [SSC]/HUM [A&L]/ PHYS [SCI] 361 Modern Science & Culture
  ________ 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 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
  ________ Honors Thesis (ENVS 403 – w/ advisor approval)
  ________ Other experiential learning opportunity as approved by faculty advisor

Last updated 10/25/2017