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 your adviser during the first term of your last year.

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 or ESCI approved stats course)

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, BI 211, BI 213
- Chemistry: CHEM 221-223, or equivalent
- Earth Sciences: GEOL 101-103 or GEOL 201-203
- Physical Sciences: CHEM 111, PHYS 161-162 or PHYS 201-203, or equivalent

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
- GEOG 141
- GEOG 181

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

- ANTH 360 Human Ecology
- ANTH 361 Human Evolution
- ANTH 367 Human Adaptation
- ANTH 375 Primates in Ecological Communities
- ANTH 446 Practical Archaeobotany
- ANTH 460 Nutritional Anthropology
- 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 Diseases of Africa
- BI 330/331 Microbiology and Lab
- BI 357 Marine Biology
- BI 370 Principles of Ecology
- BI 374 Conservation Biology
- BI 375 Biological Diversity
- BI 380 Evolution
- BI 390 Animal Behavior [OIMB]
- BI 412 Marine Field Studies [OIMB]
- BI 432 Mycology
- BI 442 Systematic Botany
- BI 448 Field Botany
- BI 451 Invertebrate Zoology [OIMB]
- BI 452 Insect Biology
- BI 454 Estuarine Biology [OIMB]
- BI 455 Marine Birds and Mammals [OIMB]
- BI 457 Marine Biology [OIMB]
- BI 458 Biological Oceanography [OIMB]
- 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
- BI 474 Marine Ecology [OIMB]
- BI 475 Freshwater Ecology
- BI 476 Terrestrial Ecosystem Ecology
- BI 478/479 Neotropical Ecology in Ecuador
- CHEM 331 Organic Chemistry I
- CHEM 335 Organic Chemistry II
- CHEM 336 Organic Chemistry III
- ENVS 350 Ecology of Energy Generation
- ENVS 355 Environmental Data Analysis and Modeling
- 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 422 Advanced Geomorphology
- GEOG 423 Advanced Biogeography
- GEOG 425 Hydrology and Water Resources
- GEOG 427 Fluvial Geomorphology
- GEOG 430 Long-Term Environmental Change
- GEOG 431 Vegetation History and Ecosystem Dynamics
- GEOG 432 Climatological Aspects of Global Change
- GEOG 433 Fire and Natural Disturbance
- 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 495 Geographic Data Analysis
- 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 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 418 Data Analysis for Earth & Env Science
- GEOL 425 Geology of Ore Deposits
- GEOL 431 Paleontology I: Paleozoic Marine Fossils
- GEOL 432 Paleontology II: Mesozoic and Cenozoic Marine Fossils
- GEOL 433 Paleontology III: Nonmarine Fossils
- GEOL 435 Paleopedology
- GEOL 441 Hillslope Geomorphology
- GEOL 451 Hydrogeology
- GEOL 452 Neotectonics and Quaternary Geology
- GEOL 462 Environmental Geomechanics
- GEOL 472 Aqueous Geochemistry
- GEOL 473 Isotope Geochemistry
- LA 441 Principles of Applied Ecology
- 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 and 3 additional courses (core or elective) in 2 categories. 

An Honors Thesis can substitute for one elective course.

#### Social Science

**Core Courses:**
- ENVS 435 Environmental Justice (prereq: ENVS 201)
- ENVS 450 Political Ecology (prereq: ENVS 201)
- ENVS 455 Sustainability
- GEOG 341 Population & Environment [SSC][IC] (prereq: Soph standing)
- SOC 304 Community, Environment, Society [SSC] (prereq: SOC 204 or 207)

**Elective Courses:**
- ANTH 320 Native North Americans [SSC][IP] (prereq: ANTH 161 or 260)
- ANTH 452 Postcolonialism and Globalization
- ANTH 482 Human Behavioral Ecology (prereq: ANTH 170 or 270)
- GEOG 342 Geography of Globalization (prereq: Soph standing)
- GEOG 442 Urban Geography (prereq: Jr. standing)
- GEOG 465 Environment and Development {IC} (prereq: Jr. standing)
- GEOG 471 North American Historical Landscapes
- INTL 420 International Community Development
- INTL 421 Gender and International Development
- INTL 432 Indigenous Cultural Survival
- PS 434 Feminism and Ecology [IP]
- SOC 303 World Population and Social Structure [SSC][IC] (prereq: SOC 204 or 207)
- SOC 416 Issues in Sociology of the Environment (instructor approval)
- SOC 442 Urbanization and the City (instructor approval)
- SOC 450 Soc of Developing Areas [IC] (instructor approval)
- WGS 331 Science, Technology & Gender [IP] (prereq: WGS 101 or equiv.)
- Other approved course listed on tip sheet

#### Policy

**Core Courses:**
- ENVS 335 Allocating Scarce Environmental Resources
- PPM 331 Environmental Management
- PPM 443 Natural Resource Policy
- PPM 444 Environmental Policy
- PS 477 International Environmental Politics (prereq: ENVS 201 or PS 205)

**Elective Courses:**
- EC 330 Urban and Regional Economic Problems [IP] [SSC] (prereq: EC 201)
- EC 433 Resource and Environmental Economics (prereq: EC 311)
- GEOG 463 Geography, Law, and the Environment (prereq: Jr. standing)
- PPM 340 Climate Change Policy
- PPM 418 Introduction to Public Law
- PPM 438 Transportation Issues in Planning
- PPM 440 Land Use Planning and Growth Management
- PPM 446 Socioeconomic Development Planning
- PPM 480 Nonprofit Management I
- PS 421 Science, Technology and International Relations
- PS 497 Environmental Politics
- Other approved course listed on tip sheet

### Sustainable Design and Practice

**Core Courses:**
- ARCH 430 Architectural Contexts: Place & Culture (prereq: ARCH 201)
- ARCH 431 Community Design
- ARCH 434 Vernacular Architecture (prereq: ARCH 201)
- ARCH 435 Principles of Urban Design
- ENVS 467 Sustainable Agriculture
- LA 375 Contemporary American Landscapes
- PPM 442 Sustainable Urban Development
- PPM 445 Green Cities

**Elective Courses:**
- AAA 408 HOPES Conference (1 credit only)
- ARCH 436/437 Theory of Urban Design (prereq: ARCH 430)
- ARCH 439 Minimal Dwelling
- ARCH 491/492 Environmental Control Systems
- ARCH 497 Case Studies in Sustainable Design (prereq: ARCH 492)
- ARH 477 or 478 History of Landscape Architecture
- LA 390 Urban Farm
- LA 407 Green Neighborhoods
- LA 408 Permaculture
- LA 410 Civic Agriculture
- LA 459 Tech Topics (2 credits only)
- LA 484 Landscape Perception
- Other approved course listed on tip sheet

### AREA 4. Environmental Issues (1 course)

- ENVS 411, 425, or 427 Issues course, or other approved course listed on tip sheet

### AREA 5. Practical Learning Experience (1 course or 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:

- Participation in the Environmental Leadership Program (ELP)
- An environmentally-oriented internship or practicum (equivalent of four credits during junior or senior year; approval of the ENVS Adviser is required)
- IE3 international internship
- 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

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