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
- GEOL 213

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

- ANTH 330 Hunters and Gatherers
- ANTH 341 Food Origins
- ANTH 361 Human Evolution
- ANTH 362 Human Biological Variation
- 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 Diseases of Africa
- BI 330/331 Microbiology and Lab
- BI 357 Marine Biology
- BI 359 Plant 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] (if 8 credits, then counts as 2 courses)
- 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 476 Terrestrial Ecosystem Ecology
- BI 478/479 Neotropical Ecology in Ecuador (8 credits, counts as 2 courses)
- CHEM 331 Organic Chemistry I
- CHEM 335 Organic Chemistry II
- CHEM 336 Organic Chemistry III
- ENVS 350 Ecology 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 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 504, 506, 507, 508 OR 509 (no more than one course of GEOL 30X)
- GEOL 301 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 Geochemistry
- GEOL 473 Isotope Geochemistry
- LA 465 Landscape Ecology
- Other approved course listed on tip sheet

Last updated 11/17/2015
### 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
- 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
- INTL 420 International Community Development
- INTL 421 Gender and International Development [IP]
- INTL 432 Indigenous Cultural Survival
- SOC 303 World Population and Social Structure [SSC] (IC) (contact instructor for approval)
- SOC 304 Community, Environment, Society [SSC]
- SOC 442 Urbanization and the City (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
- PPPM 331 Environmental Management
- 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 [IP] [SSC]
- EC 333 Resource & Environmental Economic Issues [SSC]
- EC 433 Resource and Environmental Economics
- EC 434 Environmental Economics
- GEOG 463 Geography, Law, and the Environment
- GEOG 467 International Water Policy
- PPPM 327 Global Leadership and Change
- PPPM 340 Climate Change Policy
- PPPM 418 Introduction to Public Law
- PPPM 438 Bicycle Transportation
- 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]
- ENVS 440 Environmental Aesthetics
- HIST 473 American Environmental History
- PHIL 340 Environmental Philosophy [A&L]

**Elective Courses:**
- ENG 325 Literature of the Northwest
- HIST/HUM/PHYS 361 Modern Science & Culture
- J 463 Specialized Reporting: Environmental Writing
- LA 333 Photo and Environmental Values [A&L]
- LA 421 Photography and Environmental Perception
- PHIL 309 Global Justice
- PHIL 339 Intro Philosophy of Science
- PHIL 345 Place in the Cosmos
- 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 413 Analyzing Land Systems
- LA 337 Landscape Field Work\*
- LA 390 Urban Farm (this course may be taken only once for the major)
- 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
- PEO 451, 453, or 455
- Honors Thesis (ENVS 403 – w/ advisor approval)
- Other experiential learning opportunity as approved by faculty advisor