

Environmental Studies Major Requirements

All courses for the major must be taken for a grade (**C- or better**).

DO NOT take major courses for P/NP!

Up to 16 upper division credits (usually four courses) may be applied to a 2nd major.

You must meet with a Tykeson adviser at least two terms prior to graduation.

Check pre-requisites for all upper division courses.

AREA 1. Lower Division Environmental Studies 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, EARTH 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 CH 111& BI 211, BI 213
- Chemistry: CH 221-223
- Earth Sciences: EARTH 101-103 or EARTH 201-203
- Physical Sciences: CH 111 & PHYS 161-162 or PHYS 201-203

Additional approved non-sequence lower-division science courses:

- ANTH 270, BI 130, BI 131 (but not in conjunction with the Life Science sequence)
- CH 113
- CH 114
- GEOG 141
- GEOG 181 [>2]
- EARTH 213
- Other approved course listed on tip sheet

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 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 380 Evolution
_____ BI 390 Animal Behavior
_____ BI 395 Tropical Ecology
_____ 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 Top: Marine Conservation [OIMB] (5 credits)
_____ 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
_____ BI 478/479 Neotropical Ecology in Ecuador (8 credits, counts as 2 courses)
_____ CH 331 Organic Chemistry I
_____ CH 335 Organic Chemistry II
_____ CH 336 Organic Chemistry III
_____ ENVS 350 Ecological 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 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 Geographic Information Systems
_____ EARTH 304, 305, 306, 307 OR 308 (no more than one course of EARTH 30X)
_____ EARTH 310 Earth Resources & Environment
_____ EARTH 311 Earth Materials (5 credits)
_____ EARTH 315 Earth Physics
_____ EARTH 316 Introduction to Hydrogeology
_____ EARTH 331 Mineralogy (5 credits)
_____ EARTH 332 Intro Petrology (5 credits)
_____ EARTH 334 Sedimentology and Stratigraphy
_____ EARTH 350 Structural Geology (3 credits)
_____ EARTH 353 Geological Hazards
_____ EARTH 425 Geology of Ore Deposits (5 credits)
_____ EARTH 433 Paleobotany
_____ EARTH 434 Vertebrate Paleontology
_____ EARTH 435 Paleopedology
_____ EARTH 438 Geobiology
_____ EARTH 441 Hillslope Geomorphology
_____ EARTH 451 Hydrogeology
_____ EARTH 462 Environmental Geomechanics
_____ EARTH 468 Intro Seismology
_____ EARTH 472 Aqueous-Mineral-Gas Equilibria
_____ EARTH 473 Isotope Geochemistry
_____ 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 foundation course from each of the following 4 categories.

Then select 2 categories and complete an additional 3 courses (foundation or elective) in each.

*Course is repeatable if titles are different

An Honors Thesis can substitute for one elective course.

Social Science

Foundation 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 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 304 Community, Environment, Society [>2]
- _____ WGS 331 Science, Technology & Gender {IP}
- _____ Other approved course listed on tip sheet

Policy

Foundation 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 446 Socioeconomic Development Planning
- _____ PPPM 480 Nonprofit Management I
- _____ Other approved course listed on tip sheet

Humanities

Foundation 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: Topic
- _____ PHIL 340 Environmental Philosophy [>1]

Elective Courses:

- _____ ENG 325 Literature of the Northwest
- _____ 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

Foundation Courses:

- _____ ARCH 431 Community Design
- _____ ARCH 435 Principles of Urban Design
- _____ ENVS 467 Sustainable Agriculture
- _____ PPPM 442 Sustainable Urban Development
- _____ PPPM 445 Green Cities

Elective Courses:

- _____ LA 326 Plants: Fall
- _____ LA 337 Spring Plants
- _____ LA 337 Landscape Field Work*
- _____ LA 390 Urban Farm (this course may be taken only once for the major)
- _____ 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, 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)
- _____ Honors Thesis (ENVS 403 – w/ advisor approval)
- _____ Other experiential learning opportunity as approved by advisor