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, ERTH 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: ERTH 101-103 or ERTH 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]
- ERTH 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
_____ ERTH 304, 305, 306, 307 OR 308 (no more than one course of ERTH 30X)
_____ ERTH 310 Earth Resources & Environment
_____ ERTH 311 Earth Materials (5 credits)
_____ ERTH 315 Earth Physics
_____ ERTH 316 Introduction to Hydrogeology
_____ ERTH 331 Mineralogy (5 credits)
_____ ERTH 332 Intro Petrology (5 credits)
_____ ERTH 334 Sedimentology and Stratigraphy
_____ ERTH 350 Structural Geology (3 credits)
_____ ERTH 353 Geological Hazards
_____ ERTH 425 Geology of Ore Deposits (5 credits)
_____ ERTH 433 Paleobotany
_____ ERTH 434 Vertebrate Paleontology
_____ ERTH 435 Paleopedology
_____ ERTH 438 Geobiology
_____ ERTH 441 Hillslope Geomorphology
_____ ERTH 451 Hydrogeology
_____ ERTH 462 Environmental Geomechanics
_____ ERTH 468 Intro Seismology
_____ ERTH 472 Aqueous-Mineral-Gas Equilibria
_____ ERTH 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
_____ LA 440 Introduction to Landscape Planning Analysis
_____ 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