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 Aquous-Mineral-Gas Equilibria
- ERTH 473 Isotope Geochemistry
- Other approved course listed on tip sheet

Last updated 1/28/2021
**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

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