Environmental Science Major Requirements (after Summer 2007)

All courses for the major must be taken for a grade. 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 final year.

AREA 1. Environmental Studies Core Requirements (2 courses)

ENVS 201 (Soc Sci) _______ ENVS 203 (Humanities) _______

AREA 2. Math and Statistics Requirements (4 courses)

Mathematics: Take one of the sequences below
__ MATH 246 and 247 – Calculus for Biological Sciences I, II
__ MATH 251 and 252 – Calculus I, II

Statistics – take one of the following:
__ GEOG 417 Geographic Data Analysis
__ GEOL 418 Data Analysis for Earth & Env Sciences
__ MATH 426 Statistical Methods II (prereq: MATH 425)
__ PSY 302 Statistical Methods in Psychology (prereq: MATH 111, PSY 201, 202, WR 121, 122)
__ Other approved course listed on the tip sheet.

Analytical Approaches - take one of the following:
__ BI 473 Quantitative Ecology
__ CIS 445 Modeling and Simulation
__ CIS 455 Computational Science
__ ENVS 355 Environmental Data Analysis and Modeling
__ ENVS 411 Intro to Monitoring Tools & Techniques (prereq: junior standing)
__ GEOG 416 Intro to Geographic Info Systems
__ GEOG 418 Fundamentals of Remote Sensing
__ GEOG 472 Advanced Geographic Information Systems
__ Other approved course listed on the tip sheet.

AREA 3A. Natural Science Requirements (17 courses)

Natural Science courses are divided into two major categories: a) life sciences courses and b) earth and physical science courses. Choose one as a focal area and complete two, three-course introductory sequences (six courses) and an additional six upper division courses in that focal area. In the non-focal area, you must complete five courses, at least two of which must be upper division.

LIFE SCIENCES □ Focal Area or □ Non- Focal Area

Lower division introductory sequences:
__ Biology: BI 211-213 or BI 251-253 or CHEM 111, BI 211, BI 213
__ Chemistry: CHEM 221-223 or equivalent. CHEM 227-229 (Accompanying lab courses, CHEM 227-229, are strongly recommended)
__ CHEM 113 (if non-focal area)

Upper division electives:
__ ANTH 360 Human Ecology
__ ANTH 361 Human Evolution
__ ANTH 367 Human Adaptation

EARTH & PHYSICAL SCIENCES □ Focal Area or □ Non- Focal Area

Lower division introductory sequences:
__ Earth Sciences: GEOL 201-203
__ Physical Sciences: PHYS 201-203 or equivalent. (Accompanying lab courses, PHYS 204-206, are strongly recommended)

Upper division electives:
__ ENVS 350 Ecology of Energy Generation
__ GEOG 321 Climatology
__ GEOG 322 Geomorphology
__ GEOG 360 Watershed Science & Policy
__ GEOG 421 Advanced Climatology
__ GEOG 422 Advanced Geomorphology
__ GEOG 425 Hydrology and Water Resources

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### AREA 3B. Social Science and Humanities Courses (3 courses)

One course from 3 of the 4 areas below:

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

**Policy - Core Courses:**
- ENVS 399 Allocating Scarce Environmental Resources
- PPPM 331 Environmental Management
- PPPM 443 Natural Resource Policy
- PS 477 International Environmental Politics (prereq: ENVS 201 or PS 205)

**Humanities - Core Courses:**
- ENG 469 Literature and the Environment
- ENVS 345 Environmental Ethics [A&L] (prereq: ENVS 203)
- GEOG 462 Historical and Contemporary Views of the Environment (prereq: Jr.)
- HIST 473 American Environmental History
- PHIL 340 Environmental Philosophy [A&L]

**Design - Core Courses:**
- ARCH 410 Sustainable Architecture
- ARCH 430 Architectural Contexts: Place & Culture (prereq: ARCH 202)
- ARCH 435 Principles of Urban Design
- LA 361 Land Analysis

### AREA 4. Environmental Issues course (1 course)
- ENVS 411 Issues course, or other approved course as listed on tip sheet

### AREA 5. Practical Learning Experience (1 course or 4 credits)

All ESCI majors must complete 4 upper division credits of practical learning, which can be satisfied in any of the following ways:

**A.** One term of study at a field station such as OIMB or Malheur Field Station
**B.** Two terms of research experience with a UO faculty member in environmental science
**C.** Participation in the Environmental Leadership Program (ELP) (w/adviser approval)
**D.** Internship with a substantial component in environmental science (w/adviser approval)
**E.** IE3 international internship
**F.** Honors Thesis with a substantial environmental science focus (w/adviser approval)
**G.** A Science-oriented Student Initiated Project (or SIP) (w/adviser approval)
**H.** Other science-oriented experiential learning opportunities as approved by adviser

Adviser:  
Date:  

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