# Bachelor of Science with a Major in:

## Environmental Science and Terrestrial Resource Management

### General and Areas of Knowledge (AoK) Requirements

- **ENGL COMP*** (5) Any Composition Course
- **ANY VLPA** (5 or 10 if COM, not VLPA) Any UW VLPA Courses
- **Any I&S** (10) Outside of ESRM and major
- **Any NW** (10) Outside of ESRM and major
- **ANY DIV** (3) Any UW DIV Course
- **ELECTIVE CREDITS** (25+ to reach 180 for a BS degree)

### ESRM Major Requirements (122 credits)

- **COM** (5) Any 200-level Communications course
- **Economics** (5) ESRM/ENVIR/ECON 235* or ECON 200 or ECON 201
- **Q Sci 381** (5) Intro to Probability/Statistics \( \text{prereq Math 120 or Q SCI 190} \)
- **Q Sci 291** (5) Analysis for Biologists I \( \text{prereq Math 120 or Q SCI 190} \)
- **Q Sci 292** (5) Analysis for Biologists II \( \text{prereq Q SCI 291} \)
- **ESRM 250*** (5) Introduction to Geographic Info. Sys.
- **BIOL 180** (5) General Biology I
- **BIOL 200** (5) General Biology II \( \text{prereq 1.7 in BIOL 180; CHEM 152 or 220} \)
- **BIOL 220** (5) General Biology III \( \text{prereq 2.0 in BIOL 200} \)
- **CHEM 120** (5) Principles of Chemistry I
- **CHEM 220** (5) Principles of Chemistry II \( \text{prereq CHEM 120 or 142} \)
- **Earth Science** (5) Choose one: ESRM 210*, ESS 201 or 210, ESS/OCEAN 230, ATM S 211

### ESRM Core (17 credits)

- **ESRM 200*** (5) Society and Sustainable Environments
- **ESRM 201*** (5) Sustainable Pacific NW Ecosystems
- **ESRM 300*** (2) Principles of Sustainability
- **ESRM 304*** (5) Environmental/Resource Assessment

### ESRM Electives or Transcripted Option (45 credits or 35 credits + senior capstone)

Transcripted option requirements on reverse. 45 credits can include SEFS and BSE prefixes, as well as 10 credits from Q Sci.

400+ level courses (min 25 credits) 300+ level courses (max 20 credits)

Students may complete all 45 ESRM elective credits at the 400-level.

- **Senior Capstone** (10) ESRM 494 & ESRM 495/496 Senior Project/Thesis
- OR ESRM 462-464 Restoration Capstone

**The senior capstone is a requirement for any student completing the departmental Honors program and some ESRM Options, please see individual options on the back for more details.**

* 2.0 Required in all ESRM courses. 1 Or STAT 311. 2 Or MATH 124 & 125. 3 Or CHEM 142 & 152. Effective Spring 2021
**Natural Resource and Environmental Management**
(The NREM option is SAF accredited)

Landscape ecology is an integrated approach to studying the interaction of physical, biological, and social processes on ecological systems at a wide range of spatial scales. The Natural Resource and Environmental Management option focuses on applied aspects of landscape ecology that create, sustain, and alter landscapes to achieve biological diversity and integrity as well as social purposes.

**Required Courses:**
- ESRM 323, 331, 350, 381, 400, 426, 470;
- and one of: ESRM 415, 420, or 435;
- and one of: ESRM 315, 425, 428, 461, or SEFS 540;
- and one of: ESRM 320, 371, 403, 423, or 465.

**Sustainable Forest Management**
(The SFM option is accredited by the Society of American Foresters (SAF))

Students acquire the knowledge and skills to measure and assess natural resources in order to understand the ecology of forest systems; manage for environmental services; treat forest fuels; achieve sustainable harvest; market and sell forest products; and understand how social, economic, and ecologic forces impact the management of forests and their resources.

**Required Courses:**
- ESRM 323, 331, 368, 400, 426, 428, 430, 461, 470;
- and one of: ESRM 350, 410, 415, 435;
- and one of: ESRM 315, 381, 420, 425, 468;
- and one of: ESRM 320, 423, or 465.

**Restoration Ecology and Environmental Horticulture**

Restoration Ecology and Environmental Horticulture students learn and apply fundamental concepts of biology, plant science, and ecology. This disciplinary knowledge, supporting coursework, and experience allow students to become accomplished in the productions of plant material, the practice of sustainable landscaping, repairing damaged ecosystems, and contributing to other large interdisciplinary projects.

**Required Courses:**
- (choose 30 credits from) ESRM 331, 362, 411, 412, 415, 473, 474, 478, 479, SEFS 503;
- Capstone: ESRM 462, 463, 464 or ESRM 494, 495, 496.

**Wildlife Conservation**

Wildlife conservation is the science and art of managing animals populations and their related resources. This option offers coursework in wildlife ecology, quantitative science, and the social and political aspects of wildlife conservation issues. Students can expect hands-on field experiences including: how to identify, capture, and handle animals, and how to assess, map, and plan wildlife habitats. Instruction on writing technical reports and scientific papers, as well as presentation of findings and implementation of wildlife conservation plans will be expected.

**Required Courses:**
- ESRM 350, 351, 441, 450, 451, 458, Q SCI 482 and one of: ESRM 452, 453, or 459.
- Capstone: ESRM 462, 463, 464 or ESRM 494, 495, 496.

**Admission**

ESRM is an open major and can be declared by current students and UW applicants at any time.

**Prospective UW students**

www.washington.edu/admissions

**Program study options**

- Research, internships, honors, study abroad, scholarships, and graduate study available

**Career information**

environment.uw.edu/students/career-opportunities

**Office of Student and Academic Services**

Anderson Hall Rooms 116/130

PH: 206-543-3077

Appointments: https://norduw.youcanbook.me

BLOG: sefs.uw.edu/students/student-blog/

WEB: sefs.uw.edu/