



Restoration Ecology and Environmental Horticulture Option

in the Environmental Science and Resource Management major

<http://www.cfr.washington.edu/Acad/undergrad/esrm/index.htm>

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

Required Option Courses (34+ credits)

(Fulfills most ESRM major restricted electives)

ESRM 331 (3) Landscape Plant Recognition
ESRM 362 (5) Intro to Restoration Ecology
ESRM 415 (5) Biology, Ecology, and Management of Plant Invasions
ESRM 473 (5) Ecosystem-Based Restoration Ecology or ESRM 479 Restoration Design
ESRM 478 (5) Plant Ecophysiology
ESRM 480 (5) Landscape Plant Science and Sustainable Management

AND, at least two courses from:

ESRM 411 (3) Plant Propagation
ESRM 412 (3) Native Plant Production
ESRM 444 (5) Forest Ecosystems Protection
ESRM 451 (5) Urban Plant Protection

Relevant General Elective Courses (examples)

ESRM 201 Introductory Soils
ESRM 311 Soils and Land Use
ESRM 350 Wildlife Biology and Conservation
ESRM 402 Curation and Education in Public Gardens
ESRM 425 Ecosystem Management
ESRM 426 Wildland Hydrology
ESRM 427 Integrated Management of Forest Landscapes
ESRM 471 Urban Forest Landscapes
ESRM 472 Wetland Ecology
ESRM 477 Wetland Restoration

There are also many courses available at UW Bothell and UW Tacoma that are appropriate electives.

Recommended Capstone Experience

To fulfill the 10 credit major capstone requirement, students may choose the experience most appropriate to their goals, including the Proposal (ESRM 494) and Senior Thesis (ESRM 496) or Senior Project (ESRM 495) or the award-winning Restoration Ecology Capstone through UW-REN (ESRM 462-464). Capstone requirements include a project proposal, data collection or project implementation, analysis of data/project, final written report of findings/project, and an oral presentation.

Career Opportunities and Graduate Study

After graduation, students can work as restoration ecologists for agencies, tribes, non-profits, and consulting firms to help repair previously damaged natural landscapes, or as environmental horticulturists, practicing sustainable landscaping and developing and managing plant nurseries. Students can also work in closely related professions such as environmental education or choose to pursue graduate studies in biology, forest resources, agriculture, environmental education and other related fields.

CFR and Affiliated Faculty: Sarah Reichard (lead for 2008-2009), Jonathan Bakker, Susan Bolton, Sharon Doty, Bob Edmonds, Kern Ewing, Jim Fridley, Bob Gara, Dean Glawe, Warren Gold, Tom Hinckley, Soo-Hyung Kim, John Wott

Information about UW-Restoration Ecology Network and Certificate Program:

<http://depts.washington.edu/uwren/>