



Restoration Ecology and Environmental Horticulture Option

in the Environmental Science and Terrestrial Resource Management major

<http://www.sefs.uw.edu/academicPrograms/undergrad/esrm/REEHOption.pdf>

Students in the Restoration Ecology and Environmental Horticulture (REEH) option learn and apply fundamental concepts of biology, plant science, and ecology. This disciplinary knowledge, with supporting coursework and experience, allows students to become accomplished in producing plant materials, managing sustainable landscapes, repairing damaged ecosystems, and participating in large interdisciplinary projects.

Required Option Courses (choose a minimum of 35 credits from the following courses)

ESRM 331 (3) Landscape Plant Recognition
ESRM 362 (5) Intro to Restoration Ecology
ESRM 411 (3) Plant Propagation
ESRM 412 (3) Native Plant Production
ESRM 415 (5) Biology, Ecology, and Management of Plant Invasions
ESRM 473 (5) Restoration in North American Ecosystems
ESRM 474 (5) Restoration Problem Solving: Ecological Engineering
ESRM 478 (5) Plant Ecophysiology
ESRM 479 (5) Restoration Design
ESRM 480 (5) Landscape Plant Science and Sustainable Management
SEFS 503 (1) Current Issues in Restoration Ecology and Environmental Horticulture

Relevant General Elective Courses (examples):

ESRM 210 Introductory Soils (5)
ESRM 311 Soils and Land Use (3)
ESRM 350 Wildlife Biology and Conservation (5)
ESRM 425 Ecosystem Management (5)
ESRM 426 Wildland Hydrology (4)

There are also many courses 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-Restoration Ecology Network (ESRM 462-463-464). 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. Participation in the UW Undergraduate Research Symposium in May is highly recommended for those students pursuing an individual capstone project.

Career Opportunities and Graduate Study

After graduation, students can work as restoration ecologists for agencies, tribes, non-profits, and consulting firms to help repair damaged ecosystems, or as environmental horticulturists, practicing sustainable landscaping, arboriculture, and plant nursery management. Students can also work in closely related professions such as environmental education or pursue graduate studies in biology, forest resources, agriculture, environmental education and related fields.

REEH Faculty: Soo-Hyung Kim (lead), Jonathan Bakker, Sally Brown, Sharon Doty, Jim Fridley, Warren Gold (UW Bothell)

Information about UW-Restoration Ecology Network (UW-REN) Program:

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