

ESCI 470/FAIR 334P ECOLOGICAL RESTORATION I
3 cr., Western Washington University
Fall 2017

Instructors:

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Meetings:

Th 9:00 am – 11:50 am, ES 410

Course Objectives and Approach:

The objectives of this course are to:

- i. familiarize students with the theory and practice of ecological restoration, including physical and ecological as well as philosophical, cultural, and economic considerations;
- ii. provide students with practical experience in designing, implementing and monitoring restoration projects; and
- iii. help students become informed, critical thinkers capable of evaluating restoration projects and communicating effectively to professional audiences and the general public.

Interspersed with lectures, discussions and case studies, students will work in groups on small-scale restoration projects at local field sites. Each group will present a proposal describing restoration objectives, implementation plans and monitoring plans. Groups will then carry out their restoration and baseline monitoring work and present their preliminary results at the end of the quarter.

Prerequisites:

ESCI 470 is open to Huxley College seniors. FAIR 334P is open to WWU students who have completed FAIR 206A or equivalent coursework.

Readings:

There is no required text. Readings will be made available for download from the class [Canvas site](#).

Service learning:

Students will be expected to carry out at least 2 hours of independent service learning with a local organization involved in ecological restoration. Each student will submit a 1-2 page report indicating the main insights gained from the experience.

Grading/Evaluations:

Students who enroll in ESCI 470 will receive letter grades for their work in the class. Students who enroll in FAIR 334P will submit narrative self-evaluations and receive narrative faculty evaluations. Group project work will be assessed with letter grades for all students.

Final grades/evaluations will be based on the following:

Group Project:	
Pre-Proposal	10%
Oral Proposal Presentation	20%
Full Written Proposal	20%
Compliance Monitoring and Baseline Data	20%
Service Learning Assignment	10%
Participation and Peer Evaluation	20%
Total	100%

Students who miss a presentation without a valid excuse will be given a grade of 0% for that presentation. Late reports or assignments will be penalized 5% per day. If you have a valid excuse for missing a presentation or a deadline, you should contact an instructor beforehand to make alternate arrangements.

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Schedule:

Week	Date	Topic
1	9/28	<ul style="list-style-type: none"> · Introduction to the Course · Definitions and Objectives of Ecological Restoration · Group Project Site Tour · Student Group Project Choices
2	10/5	<ul style="list-style-type: none"> · Group Assignments and Consultations RE: Project Objectives and Methods · Monitoring and Assessment · Monitoring Vegetation Recovery (Field exercise)
3	10/12	<ul style="list-style-type: none"> · Habitat Restoration: Fragmentation and Photographs vs. Moving Pictures · Invasive Species and Ecological Function · Plant Identification (Field exercise) · PRE-PROPOSALS DUE
4	10/19	<ul style="list-style-type: none"> · Ecological Integrity · Case Study: River Restoration in Sweden · Case Study: Elwha Dam Removal · ARBORETUM BOARD MEETING
5	10/26	<ul style="list-style-type: none"> · PROPOSAL PRESENTATIONS
6	11/2	<ul style="list-style-type: none"> · Case Study: Nooksack River Log Jams (Field trip) · PROPOSAL REPORTS DUE
7	11/9	<ul style="list-style-type: none"> · Case Study: Re-Wilding North America · Group Project Work · SERVICE LEARNING REPORTS DUE
8	11/16	<ul style="list-style-type: none"> · Case Study: Padden Creek Daylighting (Field trip) · Group Project Work
9	11/23	<ul style="list-style-type: none"> · Thanksgiving (CLASS DOES NOT MEET)
10	11/30	<ul style="list-style-type: none"> · Group Project Work
Dead	12/7	<ul style="list-style-type: none"> · COMPLIANCE MONITORING SITE TOUR · BASELINE DATA DUE
Finals	12/14	<ul style="list-style-type: none"> · SELF AND PEER EVALUATIONS DUE