

IOP: Introduction to Environmental Research Methodology
Early Fall Start, University of Washington
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Course Description:

This introduction to environmental research methodology focuses on the relationship between humans and the environment. In this course, we will integrate our learning about the coastal temperate rain forest that characterizes the ecological region, and the geological processes that shape it, with the urbanized environments in Puget Sound and its waterways, including Seattle's Lake Washington and the river closest to our home, the Duwamish. The lower Duwamish River was listed by the Environmental Protection Agency (EPA) in 2001 as one of the most toxic sites in the country, placing it on the federal Superfund list. Government, businesses and communities are now working together on plans for the river cleanup.

Learning Goals:

- Develop laboratory skills
- Continue to practice making direct observations outside of the classroom
- Develop drawing, writing, question asking and listening skills
- Observe urban ecosystems
- Develop an understanding of urban ecological processes
- Learn about sustainable practices in the region

Student Responsibilities:

1. Contribute thoughtfully to each day's discussion and work.
2. Complete all assignments in a timely manner while ensuring that the work is of a consistently superior standard.
3. Participate in class activities and discussions.
4. Turn in all lab assignments, field book and worksheets for field trips.

Attendance will be taken at all scheduled meeting times.

Class Meets:	Topics and Activities
Friday September 5 9:00- 11:50	Topic: Human Response to the Environment: Earthquakes, Tsunamis and Volcanoes in the Pacific Northwest: Traditional Knowledge, Paleoecological Methods, Seismology

<p>Location: Hitchcock 218 Biology Teaching Lab 9-10:50</p> <p>Northwest Seismology Lab 11:00-11:50 Room ATG-146 between buildings Atmospheric Sciences (ATG) and Johnson Hall (JHN).</p>	<p>Lab on tsunami sediments with special guest: Research Scientist Brian Atwater, author of: http://pubs.usgs.gov/pp/pp1707/</p> <p>Special tour of the Northwest Seismology Lab http://www.pnsn.org/welcome.html with Seismologist Ruth Ludwin, author of : <i>Serpent spirit-power stories along the Seattle Fault</i> and <i>Dating the 1700 Cascadia Earthquake: Great Coastal Earthquakes in Native Stories</i></p>
<p>Monday September 15</p> <p>10:00-11:50 Walking tour Meet at Hitchcock room 218</p>	<p>Topic: The Pacific Northwest: Ecosystems and Urbanization</p> <p>Field trip: Lake Washington: Foster Island Walk</p> <ul style="list-style-type: none"> • History of Seattle and the modification of Seattle's Waterways • Urban Ecology
<p>Wednesday September 17 8:30- 11:50 Return to campus after lunch for afternoon class by 12:50</p> <p>Meet vans at the Burke Museum</p> <p>*Field books due for Intro to Pac NW Ecology</p>	<p>Topic: The Duwamish River Communities</p> <p>Field trip: Boat Tour of the Duwamish River</p> <ul style="list-style-type: none"> • History of the Duwamish Waterway • Meet with the Duwamish Tribe. The Duwamish Tribe website http://www.duwamishtribe.org/ <p>Resources:</p> <p>Duwamish River Cleanup Coalition, for an overview of citizens' involvement in the superfund cleanup http://www.duwamishcleanup.org/</p> <p>Introduction to Superfunds: http://www.duwamishcleanup.org/factsheets.html</p> <p>Here is their photo tour: http://www.duwamishcleanup.org/photos.html</p>
<p>Monday September 24 9:00-11:50 Meet: Hitchcock 218 Biology Teaching Lab</p> <p>*Assignments and filed books due for Intro to Research</p>	<p>Topic: The uses of Ecology: the Lake Washington Story</p> <ul style="list-style-type: none"> • Urban Planning Solutions: Eutrophication and the Origins of METRO • Lake Washington Food Chains Microscope Lab <p>Resources: http://dnr.metrokc.gov/wlr/waterres/lakes/biolake.htm</p>

END of EARLY FALL START