

Marine Fisheries and Human Health (Spring 2026)

Required course for the Certificate in Marine Bioresources

Faculty: Henry Carson (henry.carson@evergreen.edu)

8 credits, including 4 credits in Fisheries Biology: Pathology and 4 credits in Food Safety and Toxicology: Marine Foods

Schedule: Evening and Weekends Hybrid offering:

Synchronous online weekly on Tuesdays: 6:30 -9:00pm

Asynchronous online weekly (Thursday target)

Required in-person labs and field trips: Sunday April 19, Friday May 1, Sunday May 17th, Sunday May 31st.

Prerequisites: 1 quarter of General Biology OR 2 quarters of Environmental Studies (with marine/aquatic content)

Reliable internet access for use of Zoom and Canvas materials, as well as digital resources provided through the Evergreen Library will be a requirement for this course.

Description:

This course will survey the pollutants, pathogens, and parasites that impact populations of marine organisms, and how pollutants, pathogens, and parasites impact the humans that consume those organisms. Topics include water quality, harmful algal blooms, biotoxins, shellfish and marine fish disease, persistent organic pollutants, and microplastics. It will also address some of the ways that fished populations are changed by humans, such as illegal harvest, and that fisheries change populations of humans, such as labor practices. Coursework will combine instructor lectures, guest lectures from professionals, synchronous and asynchronous discussion, primary literature readings, written assignments, a research project and presentation, and field and laboratory experiences.

This course, and the Marine Bioresources Certificate offering from Evergreen, is intended to help students be prepared for work in hatcheries and habitat management that oversee marine animals of economic, subsistence and ecosystem importance in the Pacific Northwest.