

SEATTLE PACIFIC UNIVERSITY

# Blakely Island Field Station

## Summer 2022 Courses

### BIO 1104 Environmental Science

5 Credits

This course introduces environmental science and ways that humans interact with the natural world. Topics covered may include geology, global climate, ocean chemistry, and fisheries and forest management. We will examine these topics with a multidisciplinary approach, employing not only science but also economics and political science. The first week of the course is taught online, and the second on Blakely Island.

August 15–26 | Ryan Ferrer, PhD

### BIO 3436 Behavioral Ecology

5 Credits | Prerequisites: BIO 2102 and 2103

Examines the proximate and ultimate causes of behavior in the major animal groups. This field course uses techniques in behavioral ecology to explore the application of scientific thinking and methodology to the study of animal behavior. It focuses on understanding animal communication, habitat selection, feeding behavior and predator/prey interactions, altruistic behavior, sexual selection and mating systems, and parental care. No credit will be given for students who have taken BIO 3434.

August 1–12 | Janet Bester-Meredith, PhD

### BIO 4744 Marine Botany

5 Credits | Prerequisites: BIO 2101 and BIO 2103

Provides a field and laboratory course emphasizing identification, life histories, habitats, and interrelationships of marine plants with emphasis on local flora and Blakely Island. Includes laboratory.

July 11–22 | Tim Nelson, PhD

### BIO 4810 Marine Ecology

5 Credits | Prerequisites: BIO 2102 and 2103

Considers recent advances in marine ecology. Symbioses, predation, herbivory, and interactions with the physical environment will be emphasized. Laboratory and field work will include the application of ecological techniques to a specific problem and will include the writing of reports describing the results.

June 13–24 | Lindsay Whitlow, PhD

### BIO 4835 Forest Ecology

5 Credits | Prerequisite: BIO 2103

Examines the organisms that compose the forest ecosystem and their interactions with the physical environment. Emphasis will be placed on field study of patterns and processes within forest communities.

June 27–July 8 | Eric Long, PhD

### PHY 1135 Astronomy: Individual and the Universe

5 Credits

An integrative general introduction to astronomy, including astronomical observation and measurement, the solar system, extragalactic phenomena, and cosmology. Includes the scientific method and worldview implications. The first week of the course is taught in Seattle, and the second on Blakely Island.

July 18–30 | John Lindberg, PhD

## Facilities

The Blakely Island Field Station (BIFS) campus is located near the center of Blakely Island in the San Juan archipelago in northwestern Washington. The island is isolated and sparsely populated, and BIFS provides a unique opportunity to examine simultaneously forests, lakes, and marine ecosystems.

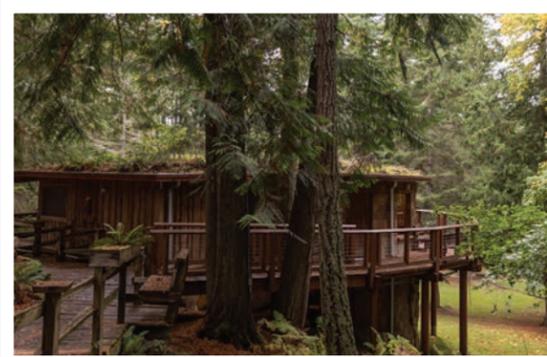
The island is surrounded by lush kelp forests, eelgrass meadows, and spectacular rock walls. In the island interior, two freshwater lakes provide habitat for river otters, herons, kingfishers, bald eagles, and ospreys, as well as for diverse invertebrate fauna. Forest communities vary from dry pine/fir to coastal spruce and wet cedar/hemlock. The island also holds pockets of coastal species such as Sitka spruce and others adapted to drier climates, including pine, madrona, and oak.

## Details

In 2022, the five-credit courses will cost approximately \$3,500. Fees include tuition, housing, meals, and transportation between Anacortes, Washington, and Blakely Island. For registration information, go to [spu.edu/blakely](http://spu.edu/blakely) or contact:

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