



MARINE BIOLOGY @ UNIVERSITY OF WASHINGTON

Are you interested in studying marine biology

at the University of Washington (UW)? The UW currently offers a minor in marine biology. Students are encouraged to declare the marine biology minor during their freshmen or sophomore years and immediately join a community of researchers and students interested in marine organisms, ecosystems, and conservation. All marine biology minors participate in hands-on learning in tandem with their coursework through labs and fieldtrips, research with faculty, and other exciting opportunities. The minor combines courses from three UW departments and our marine station on San Juan Island:

OCEANOGRAPHY studies the marine environment and its interactions with the earth, the biosphere, and the atmosphere. The field examines the larger picture of the marine world, the global processes governing the distribution, abundances, and interactions of life, chemicals, geological formations, and motion in the seas.

AQUATIC & FISHERY SCIENCES (AFS) studies aquatic environments, the distribution and abundance of marine and freshwater species, and the sustainable use of ocean resources. AFS students explore the biology of aquatic organisms, the ecology of aquatic communities and habitats, and the issues surrounding resource conservation and management.

BIOLOGY studies life from molecular, cellular, organismal, community, and global perspectives. The field examines the origins and evolution of organisms, as well as chemical and cellular processes, physiology, behavior, and relationships to the environment and to larger populations across ecosystems.

FRIDAY HARBOR LABORATORIES (FHL), UW's world-renowned marine station located on San Juan Island, offers marine biology courses and apprenticeships in a range of topics. Students live on-site for spring, summer, and autumn quarter programs. Marine biology minors are strongly encouraged to incorporate a quarter of study at FHL into their academic plans.

OVERVIEW

- 35 credits minimum
- Core coursework (19 credits)
- Approved electives (13 credits)
- Integrative experience (3 credits, may not be used for student's major requirements)
- Minimum of 2.0 cumulative GPA in all minor coursework
- Minimum 15 credits at the 300—400 level
- At least 18 credits may not overlap with student's major requirements; 5 credits may overlap with other minor requirements

DECLARING A MINOR IN MARINE BIOLOGY

Students can declare the minor at any time during their degrees, even if they have fewer than 90 credits. Students can declare the minor by emailing the marine biology adviser:

marbiol@uw.edu

VISIT

marinebiology.uw.edu

Photo credit: Aaron Dufault

Core Coursework (19 credits)

<input type="checkbox"/> FISH/OCEAN/BIOL 250	Introduction to Marine Biology	(5; A, Sp, Su)
<input type="checkbox"/> OCEAN 210	Integrated Oceans (Physics 114 or 121 recommended)	(4; A, W)
<input type="checkbox"/> BIOL 180	Introduction to Biology	(5; A, W, Sp, Su)
<input type="checkbox"/> Q SCI 381	Introduction to Probability and Statistics	(5; A, W, Sp, Su)

Approved Electives (13+ credits)

Students must take a least 13 credits from the following approved electives lists,
Additional marine biology courses may be petitioned to count.

1 course from Oceanography:

Oceanography (OCEAN)

- ☐ 330 Marine Biogeochemical Cycles (5; Sp)
- ☐ 409 Marine Pollution (3; A)
- ☐ 431 Special Topics in Biological Oceanography (3; Sp)
- ☐ 454 Hydrothermal Systems: An Interdisciplinary View (3; W)
- ☐ 455 Introduction to Ocean Modeling (3; A)
- ☐ 481 Puget Sound & Estuarine Oceanography (3; W)
- ☐ 496 Study Abroad: Coastal Ecosystems of Micronesia (6; S)

1 course from Aquatic & Fishery Sciences:

Aquatic & Fishery Science (FISH)

- ☐ 310 Biology of Shellfishes (5; Sp)
- ☐ 311 Biology of Fishes (3/5; W)
- ☐ 312 Fisheries Ecology (3/5; Sp)
- ☐ 323 Conservation and Management of Aquatic Resources (5; A)
- ☐ 324 Aquatic Animal Physiology and Reproduction (3/5; W)
- ☐ 423 Aquatic Invasion Ecology (4; A)
- ☐ 424 Biology and Culture of Aquatic Organisms (5; Sp)
- ☐ 437 Fisheries Oceanography (4; W)
- ☐ 475 Marine Mammalogy (5; Sp)

1 course from either Biology or Friday Harbor Labs:

Biology (BIOL)

- ☐ 311 Biology of Fishes (3/5; W)
- ☐ 423 Marine Ecological Processes (3; W)
- ☐ 433 Marine Ecology (5; Sp-odd yrs)
- ☐ 434 Invertebrate Zoology (5; W, Sp, Su)

Friday Harbor Labs (FHL)

- ☐ 305 Biology of Fishes (5; A)
- ☐ 430 Marine Zoology (5; Sp)
- ☐ 432 Marine Invertebrate Zoology (9; Su)
- ☐ 440 Marine Botany (5; Sp)
- ☐ 446 Marine Botany: Diversity and Ecology (9; Su)
- ☐ 492 Ecology & Conservation of Marine Birds & Mammals (15; A)

Integrative Experience (3+ credits)

Integrative experience credits cannot count toward students' majors. Students may take the Seattle campus seminar (477) or use research credits from FHL for their integrative experiences. Occasionally, students arrange to do independent projects, but they must work in a lab for at least two quarters beforehand.

<input type="checkbox"/> FISH/BIOL/OCEAN 477	Seminar in Marine Biology	(3; W)
<input type="checkbox"/> FHL 450, 460, or 470	Research Experience in Marine Biology (FHL)	(6; A, Sp)
<input type="checkbox"/> OCEAN 492	Research Apprenticeship in Marine Biology (FHL)	(15; A, Sp)
<input type="checkbox"/> FISH/BIOL/OCEAN 479	Independent Research in Marine Biology	(3+; A, W, Sp, Su)

* List the 18 credits that you plan to use for you minor that you will not overlap with your major
