



UNDERGRADUATE DEGREES

The UAF College of Fisheries and Ocean Sciences offers two undergraduate fisheries degrees:

B.S. in Fisheries and Ocean Sciences — Focuses on research, conservation, and management of fish, shellfish, marine mammals, and their freshwater and marine environments. Two concentrations: (1) Fisheries Science; (2) Ocean Sciences.

B.A. in Fisheries — Focuses on fisheries and seafood business, administration, policy, and rural and community development. Two concentrations: (1) Business and Social Science; (2) Rural and Community Development.

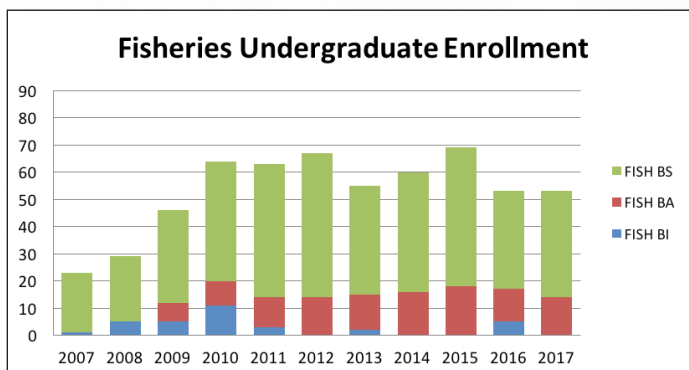
Both programs require 120 credits. Minors are also available in Fisheries and Marine Science.

PROGRAM SUCCESSES

- Highest retention rate of any undergraduate program at UAF (80% versus 40–60% for other programs).
- Number of majors has tripled over the past decade (23 in 2006 to 69 in 2015), making it one of the largest undergraduate fisheries programs in the country.
- Serves students from across the state (20 different Alaska communities in fall 2015).
- Since 2012, 37 percent of students are Alaska Native or from rural areas of Alaska.
- Program is “location-flexible”—students can study at other UA locations for all or a portion of their degree.

EMPLOYMENT OF GRADUATES

- Students who complete the B.S. in Fisheries and Ocean Sciences degree with a concentration in Fisheries Science meet the educational requirements for professional certification with the American Fisheries Society.
- Since 2007, there have been 71 graduates (58 B.S., 13 B.A.). Employment has been: (45%) - AK state or federal fisheries agencies (e.g., ADF&G, USFWS), (14%) - UAF, (14%) - AK fisheries industry, (27%) - graduate school.



PROGRAM STRENGTHS

- Emphasizes hands-on learning in the laboratory (e.g., Ichthyology, Biology, Chemistry) and the field (e.g., Freshwater Fisheries Techniques, Field Methods in Marine Ecology and Fisheries, Scientific Diving).
- All majors complete an internship, most with state or federal agencies, as well as opportunities outside Alaska.

GRADUATE DEGREES

M.S. and Ph.D. in Fisheries - Research on quantitative stock assessment, biology and ecology of marine and freshwater species, molecular genetics, etc. Laboratory facilities in Juneau, Fairbanks, and Kodiak.

M.S. and Ph.D. in Marine Biology - Research on ecology, physiology, and biochemistry/molecular biology of marine organisms. Laboratory and field research in Fairbanks, Juneau, Kodiak, Seward, and Kasitsna Bay.

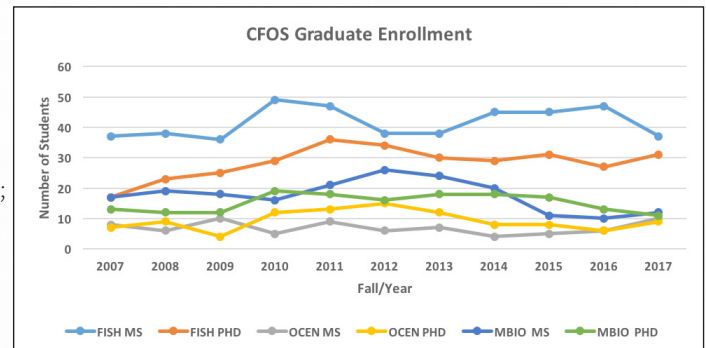
M.S. and Ph.D. in Oceanography - Research in physical, biological, geological, chemical, and fisheries oceanography. Facilities in Fairbanks, Juneau, Seward, and Kasitsna Bay.

PROGRAM STATISTICS

- Graduate student enrollment has ranged from 99 to 144 students since 2007.
- Graduate student funding: (45%) - self funded or from agency employer; (37%) - research assistantships; (10%) - fellowships; (8%) - teaching assistantships.
- Graduate student locations: Fairbanks (44%); Juneau (34%); Anchorage (7%); elsewhere (14%).

EMPLOYMENT OF GRADUATES

- Graduates since 2007: 128 in Fisheries (90 M.S., 37 Ph.D.), 57 in Marine Biology (39 M.S., 18 Ph.D), and 28 in Oceanography (17 M.S., 11 Ph.D).
- Employment for Fisheries graduates: (29%) - non-AK federal agencies; (26%) - AK federal agencies; (23%) - AK state agencies; (14%) - AK private industry; (8%) - academia.
- Employment for Marine Biology and Oceanography graduates: (34%) - federal agencies; (18%) - UAF; (14%) - AK state agencies; (14%) - academia; (10%) - AK private industry.



PROGRAM STRENGTHS

- Over \$20 million in research funds is secured annually to address societal information needs in fisheries and ocean sciences.
- The research vessel Sikuliaq is a 261-foot oceanographic research ship owned by the National Science Foundation and operated by SFOS that brings scientists to the ice-choked waters of Alaska and the Polar Regions.
- The Ocean Acidification Research Center examines increasing ocean acidity and impacts on Alaska's marine ecosystems.
- The UA's Scientific Diving Program offers courses involving scientific diving and subtidal research projects.