OCEANOGRAPHY

School of Fisheries and Ocean Sciences
Graduate Program in Marine Sciences and Limnology
907-474-7289
www.sfos.uaf.edu/academics/

MS, PhD Degrees

Minimum Requirements for Degrees: MS: 30 credits;
PhD: 18 thesis credits

This program offers MS degrees in several concentration areas of oceanography: physical, chemical, biological, geological and fisheries. Limnological research projects are also undertaken under the oceanography degree. The PhD degree is offered in oceanography.

Opportunities for laboratory and field work are available through the School of Fisheries and Ocean Sciences, including the Institute of Marine Science. These include laboratories in Fairbanks, the Seward Marine Center, Kasitsna Bay, the Juneau Center and the Kodiak Seafood and Marine Science Center. Research vessels operated by the institute and school include the R/V *Little Dipper,* which operates on day trips in Resurrection Bay. Laboratory facilities include a seawater system at Seward and a variety of modern and analytical instrumentation, including stable isotope mass spectrometers, a gamma spectrometer, a flow cytometer facility, and gas and liquid chromatography equipment. Mainframe and personal computing facilities are readily accessible to graduate students.

Oceanography is both interdisciplinary and multidisciplinary. For both MS and PhD oceanography students, research emphasis is on processes influencing the ocean's circulation, composition, biological productivity and geology. Students considering graduate study in oceanography should have a strong background in physics, chemistry, biology, geology or mathematics, and a working familiarity with the other subjects.

MS Degree

Concentrations: Biological, Chemical, Fisheries, Geological, Physical

1. Complete the following admission requirement:
   a. Submit GRE scores.
2. Complete the general university requirements (page 200).
3. Complete the master's degree requirements (page 204).
4. Complete one of the following concentrations:
   Biological, Chemical, Geological, Physical*
   a. Complete the following:
   MSL F620—Physical Oceanography..4
   MSL F630—Geological Oceanography 3
   MSL F650—Biological Oceanography 3
   MSL F660—Chemical Oceanography..3
   MSL F692—Seminar 3
   MSL F699—Thesis*.. open
   Electives**... open
   b. Minimum credits required 30
   * Appropriate to area of concentration
   Fisheries*
   a. Complete the following:
   MSL F620—Physical Oceanography..4
   MSL F630—Geological Oceanography 3
   MSL F640—Fisheries Oceanography 4
   MSL F650—Biological Oceanography 3
   MSL F660—Chemical Oceanography..3
   MSL F692—Seminar 3
   MSL F699—Thesis .... open
   Electives .... open
   b. Minimum credits required 30

PhD Degree

1. Complete the following admission requirement:
   a. Submit GRE scores.
2. Complete the general university requirements (page 200).
3. Complete the PhD degree requirements (page 205).
4. Complete course work equivalent to MS degree.*
5. Minimum credits required** 18
* *Students must earn a B- grade or better in the core courses of the degree program before being eligible to take the comprehensive exam*
** *There are no fixed course requirements, nor is an MS degree required to earn the PhD degree. However, a candidate for the PhD degree in oceanography (biological, chemical, fisheries, geological, and physical oceanography) will be expected to have completed course work at least equivalent to that required for the corresponding MS degree.*
Note: *Students are admitted to the graduate program in marine sciences and limnology on the basis of their ability and the capability of the program to meet their particular interests and needs. Applications are considered throughout the year but students should apply by March 1 to have the best chance for admission and financial support for the subsequent fall semester. Assistantship stipends are awarded competitively and limited fellowship support is available. Most students are supported on research projects that relate directly to their degree research.*
Note: *Oceanography majors must demonstrate field experience aboard an oceanographic vessel.*

UNIVERSITY OF ALASKA FAIRBANKS
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