

MARINE SCIENCE

School of Fisheries and Ocean Sciences
907-474-7824
www.sfos.uaf.edu/academics/

Minor only

Though the marine science minor is available to students in all degree programs, fisheries students will particularly benefit from the breadth this minor offers. The program will also appeal to students from other disciplines (e.g., political science, earth sciences, biology and wildlife, environmental science, resource management, and education) in which possible career paths may require and/or benefit from training in marine science (policy-making, resource management, education, the seafood industry, etc.).

Students who complete the minor in marine science will possess a knowledge base and skill set that will make them more competitive for a wide variety of agency and organization positions, particularly within the state of Alaska. The education and training will be applicable to jobs within government management agencies such as the Alaska Department of Fish and Game and the U.S. Fish and Wildlife Service, as well as Alaska Native organizations, non-profit conservation organizations, the seafood industry, or in other policy development, fisheries, education, or outreach capacities.

1. Complete the following:
MSL F211—Introduction to Marine Science I 3
MSL F212—Introduction to Marine Science II 3
MSL F213L—Marine Science Laboratory 1
2. Complete 6 credits from the following:
MSL F317—Introduction to Marine Mammal Biology 3
MSL F330—The Dynamic Alaskan Coastline 3
MSL F403—Estuaries Oceanography 2
MSL F412—Early Life Histories of Marine Invertebrates 3
MSL F431—Polar Marine Science 3
MSL F449—Biological Oceanography 3
MSL F463—Chemical Coastal Processes 3

3. Complete 2 additional credits from the following:

Marine Science and Limnology

MSL F220—Scientific Diving.....	2
MSL F317—Introduction to Marine Mammal Biology.....	3
MSL F330—The Dynamic Alaskan Coastline.....	3
MSL F403—Estuaries Oceanography.....	2
MSL F412—Early Life Histories of Marine Invertebrates.....	3
MSL F421—Field Course in Subtidal Studies.....	2
MSL F431—Polar Marine Science.....	3
MSL F449—Biological Oceanography.....	3
MSL F450—Marine Biology and Ecology Field Course.....	4
MSL F456—Kelp Forest Ecology.....	4
MSL F463—Chemical Coastal Processes.....	3
MSL F497—Marine Field Experience (Independent Study)...	1 – 2

Fisheries

FISH F288/BIOL F288—Fish and Fisheries of Alaska.....	3
FISH F301—Biology of Fishes.....	3
FISH F425—Fish Ecology.....	3
FISH F440—Oceanography for Fisheries.....	3
Biology and Wildlife	
BIOL F305—Invertebrate Zoology.....	5
BIOL F473—Limnology.....	4

Economics

ECON F235—Introduction to Natural Resource Economics.....	3
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4. Minimum credits required..... 15

All degrees (e.g. B.A., B.S., etc.) require additional courses. Refer to specific degree and program requirements.

Baccalaureate Core Requirements

(Note: all courses for Core must be at C- or higher.)

COMMUNICATION (9)

Complete the following:

ENGL F111X(3) _____
ENGL F190H may be substituted.

Complete one of the following:

ENGL F211X OR ENGL F213X(3) _____

Complete one of the following:

COMM F131X OR COMM F141X(3) _____

PERSPECTIVES ON THE HUMAN CONDITION (18)

Complete all of the following four courses:

ANTH F100X/SOC F100X(3) _____
ECON F100X OR PS F100X(3) _____
HIST F100X(3) _____
ENGL/FL F200X(3) _____

Complete one of the following three courses:

ART/MUS/THR F200X, HUM F201X OR ANS F202X (3) _____

Complete one of the following six courses:

BA F323X, COMM F300X, JUST F300X, NRM F303X,
PS F300X OR PHIL F322X(3) _____

OR complete 12 credits from the above courses PLUS

- two semester-length courses in a single Alaska Native language or other non-English language **OR**
- three semester-length courses (9 credits) in American Sign Language taken at the university level.

MATHEMATICS (3)

Complete one of the following:

MATH F103X, MATH F107X, MATH F161X OR
STAT F200X(3 – 4) _____
* No credit may be earned for more than one of MATH F107X or F161X.

OR complete one of the following:*

MATH F200X, MATH F201X, MATH F202X,
MATH F262X OR MATH F272X(4) _____
*Or any math course having one of these as a prerequisite.

NATURAL SCIENCES (8)

Complete any two (4-credit) courses:

ATM F101X(4) _____
BIOL F100X(4) _____
BIOL F103X(4) _____
BIOL F104X(4) _____
BIOL F111X(4) _____
BIOL F112X(4) _____
BIOL F115X(4) _____
BIOL F116X(4) _____
CHEM F100X(4) _____
CHEM F103X(4) _____
CHEM F104X(4) _____
CHEM F105X(4) _____
CHEM F106X(4) _____
GEOG F111X(4) _____
GEOS F100X(4) _____
GEOS F101X(4) _____
GEOS F112X(4) _____
GEOS F120X(4) _____
GEOS F125X(4) _____
MSL F111X(4) _____
PHYS F102X(4) _____
PHYS F103X(4) _____
PHYS F104X(4) _____
PHYS F115X(4) _____
PHYS F116X(4) _____
PHYS F175X(4) _____
PHYS F211X(4) _____
PHYS F212X(4) _____
PHYS F213X(4) _____

LIBRARY AND INFORMATION RESEARCH (0 – 1)

Successful completion of library skills competency test **OR**
LS F100X or F101X prior to junior standing(0 – 1) _____

UPPER-DIVISION WRITING AND ORAL COMMUNICATION (0)

Complete the following:

Two writing intensive courses designated (W)(0) _____
and one oral communication intensive course
designated (O)(0) _____

OR two oral communication intensive courses designated
(O/2), at the upper-division level (see degree and/or major
requirements)(0) _____

CORE CREDITS REQUIRED 38 – 39

Minimum credits required for degree 120



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