

# APPLIED FISHERIES, A.A.S.

## Sitka, e-Learning

The Associates of Applied Science (A.A.S.) provides students with a broad educational and practical foundation in the fields of fisheries management and aquaculture. Students will be prepared for entry level employment in federal and state agencies, hatcheries, and the private sector. This program is offered via both distance and local course options. Successful graduates who work closely with academic advisors will have the option to continue on to Bachelors of Science (B.S.) in Fisheries and Ocean Sciences through UAS or UAF. Program assessment plans are posted at the Program Assessment website (<https://uas.alaska.edu/provost/academic-affairs/assessment/>).

The A.A.S. in Applied Fisheries requires a minimum of sixty credit hours and a GPA of 2.50. Of the 60 credits, students must complete 20 credits at the 200 level or above. Students must complete 6 credit hours of internship.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>60</b>
General Education Requirements	17
Major Requirements	43

Code	Title	Credits
<b>General Education Requirements</b>		
<i>Written Communication Skills</i>		6
WRTG S111	*Writing Across Contexts	
WRTG S212	*Writing and the Professions	
<i>Oral Communication Skills</i>		3
COMM S111	*Fundamentals of Oral Communication <sup>1</sup>	
or COMM S235	*Small Group Communication and Team Building	
<i>Computational Skills</i>		4
MATH S105	Intermediate Algebra <sup>2</sup>	
or MATH S151	*College Algebra for Calculus	

### Science

Select one of the following:		4
BIOL S103	*Biology and Society	
BIOL S104	*Natural History of Alaska	
BIOL S115	*Fundamentals of Biology I <sup>2</sup>	
BIOL S116	*Fundamentals of Biology II	
CHEM S103	*Introduction to General Chemistry	
ENVS S102	*Earth and Environment	

### Major Requirements

FT S120	Fisheries of Alaska	3
FT S122	Alaska Salmon Culture	3
FT S123	Introduction to Mariculture	3
FT S211	Fisheries Management Techniques	3
FT S212	Fisheries Management Techniques Lab	1

FT S223	Alaskan Aquaculture Lab	1
FT S224	Shellfish Hatchery and Farming Techniques	3
or FT S270	Freshwater Ecology	
or FISH F446 FRESH		
FT S272	Fisheries Management, Law and Economics	3
FT S274	Fish Biology	3
or BIOL S427	Introduction to Ichthyology	
or FISH F427 - ICHTH		
FT S291	Fisheries Internship	6
OCN S101	*Introduction to Oceanography	3
or MSL F211 - INTRO		

### Select 11 credits of the following: 11

BA S166	Small Business Management	
FT S125	Fish Pathology Lab	
FT S188	Basic Scuba Diving	
FT S194	Fisheries Policy Practicum (Fisheries Technology Practicum)	
FT S225	Seafood Business and Marketing for Mariculture	
STAT S200	*Elementary Statistics	
Advisor approved electives		
Any of the science GERs not taken above		

### Total Credits 60

\* Denotes GER

<sup>1</sup> Grade C 2.00 or better

<sup>2</sup> Students interested in pursuing a bachelor's degree should take BIOL S115 and MATH S151.

Upon completion, students will be able to:

1. Describe ecological attributes of fish and their habitats.
2. Demonstrate sound field sampling techniques.
3. Demonstrate the safe utilization of fisheries and field sampling equipment.
4. Describe the basic principles of salmon enhancement techniques used in Alaskan hatcheries.
5. Describe management and legal frameworks within which marine fisheries exist.