APPLIED FISHERIES CERTIFICATE

Sitka, e-Learning

FT S122

FT S125

FT S222

FT S223

FT S274

FT S291

or FT S194

The Certificate in Applied Fisheries offers students a broad training and background in fisheries, while also including courses encompasing broad areas of knowledge that support advanced learning. This program is articulated with the A.A.S. in Applied Fisheries and is intended to offer students practical skills and knowledge to enter careers in fisheries. Students may elect a certificate with an Aquaculture or Fisheries Management emphasis. The Certificate requires 3 credit hours of internship.

Alaskan Aquaculture Emphasis

Minimum Credit Hours	
General Requirements	
nts	20
Title	Credits
ents	
mmunication Skills	
lowing:	3
*Fundamentals of Oral Communication ¹	
*Small Group Communication and Team Building ¹	
*Writing Across Contexts	
*Writing and the Professions	
5	
lowing:	3 - 4
Intermediate Algebra	
*College Algebra for Calculus	
*Elementary Statistics	
Select one of the following:	
*Biology and Society	
*Natural History of Alaska	
*Fundamentals of Biology I	
*Fundamentals of Biology II	
*Introduction to General Chemistry	
*Earth and Environment	
nents	
Fisheries of Alaska	3
	Title nents mmunication Skills lowing: *Fundamentals of Oral Communication 1 *Small Group Communication and Team Building 1 *Writing Across Contexts *Writing and the Professions solowing: Intermediate Algebra *College Algebra for Calculus *Elementary Statistics lowing: *Biology and Society *Natural History of Alaska *Fundamentals of Biology II *Introduction to General Chemistry *Earth and Environment ments

Alaska Salmon Culture I

Fisheries Policy Practicum

Alaska Salmon Culture II

Alaskan Aquaculture Lab

Fish Pathology Lab

Fisheries Internship

Fish Biology

Total Credits		30-31
or FT S270	Freshwater Ecology	
OCN S101	*Introduction to Oceanography	3

^{*} Denotes GER

FT S272

FT S274

FT S291

OCN S101

or FT S270

Total Credits

3

1

3

1

3

3

Hours

Fisheries Management Emphasis

Requirement	Hours
Minimum Credit Hours	30
General Requirements	10 - 11
Program Requirements	20

Program Requiremen	20	
Code	Title	Credits
General Requirem	ents	
Written and Oral Cor	mmunication Skills	
Select one of the foll	owing:	3
COMM S111	*Fundamentals of Oral Communication ¹	
COMM S235	*Small Group Communication and Team Building ¹	
WRTG S111	*Writing Across Contexts	
WRTG S212	*Writing and the Professions	
Computational Skills		
Select one of the foll	owing:	3 - 4
MATH S105	Intermediate Algebra	
MATH S151	*College Algebra for Calculus	
STAT S200	*Elementary Statistics	
Science Skills		
Select one of the foll	owing:	4
BIOL S103	*Biology and Society	
BIOL S104	*Natural History of Alaska	
BIOL S115	*Fundamentals of Biology I	
BIOL S116	*Fundamentals of Biology II	
CHEM S103	*Introduction to General Chemistry	
ENVS S102	*Earth and Environment	
Program Requirem	nents	
FT S120	Fisheries of Alaska	3
FT S194	Fisheries Policy Practicum	1
or FT S125	Fish Pathology Lab	
FT S211	Fisheries Management Techniques	3
FT S212	Fisheries Management Techniques Lab	1

Fisheries Management, Law and

Fisheries Internship (Fisheries

*Introduction to Oceanography

Technology Internship)

Freshwater Ecology

Economics

Fish Biology

3

3

3

3

30-31

¹ Grade C 2.00 or better

2 Applied Fisheries Certificate

- * Denotes GER
- ¹ Grade C 2.00 or better
- ${\bf 1}.$ Students will describe ecological attributes of fish and their habitats.
- 2. Students will demonstrate sound field sampling techniques.
- 3. Students will operate safely while participating in program activities and utilizing program equipment.
- 4. Students will describe the basic principles of salmon enhancement techniques used in Alaskan hatcheries.
- 5. Students will describe management and legal frameworks within which marine fisheries exist.