

# M.S., FISHERIES

- Complete the following admission requirements:
  - a. Prerequisites: calculus; elementary statistics; ichthyology, biology of fish or invertebrate zoology; and computer competency.
  - b. Submit GRE scores.

## Minimum Requirements for Degree: 30 credits

Code	Title	Credits
<b>General University Requirements</b>		
Complete the general university requirements. ( <a href="http://catalog.uaf.edu/graduate">http://catalog.uaf.edu/graduate</a> )		
<b>Master's Degree Requirements</b>		
Complete the master's degree requirements. ( <a href="http://catalog.uaf.edu/graduate/#Masters">http://catalog.uaf.edu/graduate/#Masters</a> )		
<b>Program Requirements</b>		
FISH F699	Thesis	6-12
STAT F401	Regression and Analysis of Variance	4
Graduate seminars		2
Complete one from the following emphasis areas:		9-14
Fisheries Emphasis		
Seafood Science Emphasis		

## Fisheries Emphasis

Code	Title	Credits
Complete one from the following under each area:		9-11
<i>Biology and Ecology of Fish and Shellfish</i>		
FISH F612	Marine and Freshwater Conservation Biology	
FISH F626	Behavioral Ecology of Fishes	
FISH F628	Physiological Ecology of Fishes	
FISH F633	Pacific Salmon Life Histories	
FISH F650	Fish Ecology	
FISH F651	Fishery Genetics	
FISH/MSL F676	Aquatic Food Web Ecology	
MSL F615	Physiology of Marine Organisms	
MSL F640	Fisheries Oceanography	
MSL F652	Marine Ecosystems	
<i>Quantitative Population Dynamics of Fish and Shellfish</i>		
FISH F421	Fisheries Population Dynamics	
FISH F601	Quantitative Fishery Science	
FISH F621	Estimation of Fish Abundance	
FISH F622	Quantitative Fish Population Dynamics	
<i>Management and Human Dimensions of Fisheries</i>		
FISH F411	Human Dimensions of Environmental Systems	
or FISH F611	Human Dimensions of Environmental Systems	
FISH F487	Fisheries Management	
or FISH F687	Fisheries Management	
FISH F640	Management of Renewable Marine Resources	

FISH F645	Bioeconomic Modeling and Fisheries Management
FISH F670	Quantitative Analysis for Marine Policy Decisions
FISH F675	Political Ecology

## Seafood Science Emphasis

Code	Title	Credits
FISH F661	Seafood Processing and Preservation	3
FISH F662	Seafood Composition and Analysis	3
Complete one of the following from two of the three core areas:		6-8
<i>Biology and Ecology of Fish and Shellfish</i>		
FISH F612	Marine and Freshwater Conservation Biology	
FISH F626	Behavioral Ecology of Fishes	
FISH F628	Physiological Ecology of Fishes	
FISH F633	Pacific Salmon Life Histories	
FISH F650	Fish Ecology	
FISH F651	Fishery Genetics	
FISH/MSL F676	Aquatic Food Web Ecology	
MSL F615	Physiology of Marine Organisms	
MSL F640	Fisheries Oceanography	
MSL F652	Marine Ecosystems	
<i>Quantitative Population Dynamics of Fish and Shellfish</i>		
FISH F421	Fisheries Population Dynamics	
FISH F601	Quantitative Fishery Science	
FISH F621	Estimation of Fish Abundance	
FISH F622	Quantitative Fish Population Dynamics	
<i>Management and Human Dimensions of Fisheries</i>		
FISH F411	Human Dimensions of Environmental Systems	
or FISH F611	Human Dimensions of Environmental Systems	
FISH F487	Fisheries Management	
or FISH F687	Fisheries Management	
FISH F640	Management of Renewable Marine Resources	
FISH F645	Bioeconomic Modeling and Fisheries Management	
FISH F670	Quantitative Analysis for Marine Policy Decisions	
FISH F675	Political Ecology	

**Note:** At least 21 credits of the required 30 M.S. degree credits must be at the F600 level. All other credits must be at least at the F400 level.