

FISHERIES M.S.

Admission Requirements

Complete the following admission requirements:

- Prerequisites: calculus; elementary statistics; ichthyology, biology of fish or invertebrate zoology; and computer competency.
- An application for admission (<https://uaf.edu/admissions/apply/>) and application fee
- Official transcripts from all universities or colleges attended
 - Grades are an important part of the review process to assess academic success, particularly performance in relevant courses.
- Resume / curriculum vitae
- It is recommended that you provide evidence of communication (oral and writing) and analytical skills. This could be shown through technical writing samples, recorded presentations, poster presentations, examples of data analyses, relevant test results, etc. Please limit the evidence provided to, **two examples** and explain how this evidence is relevant in your Statement of Purpose.
- Statement of Purpose
 - Your statement provides the application review committee within the department an opportunity to learn about your background and motivation:
 - Your professional goals, including longer-term career goals and your motivations for pursuing those goals
 - Your preparation and background, including evidence of any relevant qualifications not captured elsewhere in the application
 - Your particular reasons for applying to the Department of Fisheries at the University of Alaska Fairbanks
 - Your general research interests or special emphasis that you hope to pursue
 - Any special circumstances you wish the department to consider
- Three letters of reference from individuals who understand the challenges of completing a graduate program and are able to write about your ability to successfully complete graduate courses in fisheries and conduct the research, analyses, and writing needed to complete a thesis or dissertation. Ideally, these letters of recommendation should come from faculty, research staff, professionals, or individuals who are familiar with your academic or work experience and can speak to your work ethic and potential for success in our program.
- International students: Please reference UAF's most recent requirements (<https://catalog.uaf.edu/getting-started/admission/#internationalstudentstext>).

Program Requirements

< Back to Department (<https://catalog.uaf.edu/academic-departments/fisheries/#programstext>)

Minimum Requirements for Fisheries M.S.: 30 credits

Code	Title	Credits
General University Requirements		
Complete the graduate general university requirements. (https://catalog.uaf.edu/masters/#gurmastersdegreestext)		
Master's Degree Requirements		
Complete the master's degree requirements. (https://catalog.uaf.edu/masters/#masterofsciencethesis)		
As part of the master's degree requirements, complete the following:		
FISH F699	Thesis	6-12
Fisheries Program Requirements		
Complete the following:		
STAT F401	Regression and Analysis of Variance	4
Graduate seminars		2
Complete at least 3 credits from each of the three focal areas		9-11
Biology		
Quantitative Approaches		
Management and Human Dimensions		
Electives		
Advisor approved courses		1-9
Total Credits		30

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.

Focal Areas

BIOLOGY

Code	Title	Credits
Complete at least 3 credits from the following:		
FISH F626	Behavioral Ecology of Fishes	
FISH F628	Physiological Ecology of Fishes	
FISH F633	Pacific Salmon Life Histories	
FISH F650	Fish Ecology	
FISH F651	Aquatic Conservation and Management Genetics	
FISH/MBI F676	Aquatic Food Web Ecology	
MBI F615	Physiology of Marine Organisms	
MBI F652	Marine Ecosystems	
MBI F667	Ecology and Physiology of Marine Macroalgae	

QUANTITATIVE APPROACHES

Code	Title	Credits
Complete at least 3 credits from the following:		
FISH F604	Modern Applied Statistics for Fisheries	
FISH F621	Estimation of Fish Abundance	
FISH F622	Quantitative Fish Population Dynamics	
FISH F625	Population Dynamics of Vertebrates	
FISH F645	Bioeconomic Modeling and Fisheries Management	

FISH F670 Quantitative Analysis for Marine Policy
Decisions

MANAGEMENT AND HUMAN DIMENSIONS

Code	Title	Credits
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Complete at least 3 credits from the following:

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 F616	Indigenous Fisheries of Alaska	
FISH F641	Ecosystem-based Fisheries Management	
FISH F671	Foundations of Marine Policy and Ocean Governance	
FISH F672	Law and Fisheries	
FISH F673	International Maritime Law and IUU Fishing	
FISH F674	Economic Development for Fish-dependent Communities	
FISH F675	Political Ecology	
FISH F681	The North Pacific Fishery Management Council	
FISH F683	The Alaska Board of Fisheries	