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

General University Requirements
Complete the general university requirements. (http://catalog.uaf.edu/graduate)

Master’s Degree Requirements
Complete the master’s degree requirements. (http://catalog.uaf.edu/graduate/#Masters)

Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FISH F699</td>
<td>Thesis</td>
<td>6-12</td>
</tr>
<tr>
<td>STAT F401</td>
<td>Regression and Analysis of Variance</td>
<td>4</td>
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<tr>
<td></td>
<td>Graduate seminars</td>
<td>2</td>
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<tr>
<td></td>
<td>Select one from the following emphasis areas:</td>
<td>9-14</td>
</tr>
<tr>
<td></td>
<td>Fisheries Emphasis</td>
<td></td>
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<tr>
<td></td>
<td>Seafood Science Emphasis</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>21-32</td>
</tr>
</tbody>
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Fisheries Emphasis
Select one from the following under each area: 9-11

Biology and Ecology of Fish and Shellfish
- 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

Quantitative Population Dynamics of Fish and Shellfish
- FISH F421 Fisheries Population Dynamics
- FISH F601 Quantitative Fishery Science
- FISH F621 Estimation of Fish Abundance
- FISH F622 Quantitative Fish Population Dynamics

Management and Human Dimensions of Fisheries
- FISH F411 Human Dimensions of Environmental Systems
- FISH F487 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

Total Credits 9-11

Seafood Science Emphasis

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FISH F661</td>
<td>Seafood Processing and Preservation</td>
<td>3</td>
</tr>
<tr>
<td>FISH F662</td>
<td>Seafood Composition and Analysis</td>
<td>3</td>
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</tbody>
</table>
|             | Select one of the following from two of the three core areas: 6-8

Biology and Ecology of Fish and Shellfish
- 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
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- FISH F670 Quantitative Analysis for Marine Policy Decisions
- FISH F675 Political Ecology

Total Credits 12-14

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.