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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>General University Requirements</td>
<td>Complete the general university requirements. (<a href="http://catalog.uaf.edu/graduate">http://catalog.uaf.edu/graduate</a>)</td>
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<td>Program Requirements</td>
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<tr>
<td>FISH F699</td>
<td>Thesis</td>
<td>6-12</td>
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<tr>
<td>STAT F401</td>
<td>Regression and Analysis of Variance</td>
<td>4</td>
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<tr>
<td>Graduate seminars</td>
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<td>Complete one from the following emphasis areas:</td>
<td>9-14</td>
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<tr>
<td>Fisheries Emphasis</td>
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<tr>
<td>Seafood Science Emphasis</td>
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</tbody>
</table>

### Fisheries Emphasis

- Complete 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
  - 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**

- Complete 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
  - 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
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  **Management and Human Dimensions of Fisheries**
  - FISH F411 Human Dimensions of Environmental Systems
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  - 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.