Fisheries Ph.D.

Program Requirements
Catalog Department Overview # (https://catalog.uaf.edu/academic-departments/fisheries/)

Minimum Requirements for Fisheries Ph.D.: 36 credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>General University Requirements</td>
<td>Complete the graduate general university requirements. (<a href="https://catalog.uaf.edu/phd/#gurphdtext">https://catalog.uaf.edu/phd/#gurphdtext</a>)</td>
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<td>Ph.D. Degree Requirements</td>
<td>Complete the Ph.D. degree requirements. (<a href="https://catalog.uaf.edu/phd/#phdrequirementstext">https://catalog.uaf.edu/phd/#phdrequirementstext</a>)</td>
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<td>As part of the Ph.D. requirements, complete the following:</td>
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<td>FISH F689</td>
<td>Thesis (18 credits)</td>
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<td></td>
<td>Fisheries Program Requirements</td>
<td>Complete at least 18 credits of coursework</td>
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<td>Complete a thesis.</td>
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Total Credits 36

Note: At least 9 of the required 18 non-thesis Ph.D. degree credits must be at the F600 level, other courses must be at least at the F400 level.

Admission Requirements
Complete the following admission requirements:

1. Complete a master’s degree in a fisheries-related field or meet the requirements as outlined below to be accepted directly into a Ph.D. program without a master’s degree.

Admission to Ph.D. Program Directly from Bachelor’s Program
Entering graduate students whose highest earned degree is the baccalaureate are normally admitted as Master of Science students. However, exceptionally able and accomplished students in this category are eligible for direct admission to the Ph.D. program. Criteria for direct admission to the Ph.D. program from the baccalaureate are:

1. Endorsement by proposed chair of graduate advisory committee AND 2 or 3 below.
2. At least one first-authored manuscript published or accepted for publication in a peer-reviewed scientific journal or receipt of an NSF, NIH, or similar prestigious pre-doctoral fellowship, OR
3. Demonstrated research proficiency (e.g. undergraduate thesis, Research Experiences for Undergraduates or other intensive research experience) documented in the application AND either
   a. attained a GPA of at least 3.5 at the undergraduate level, or
   b. scored at the 80% level in two of three categories in the GRE.

Students who elect this route must fulfill course requirements as outlined for both the M.S. and Ph.D. degrees. Applicants who do not meet these criteria may enter the graduate program as M.S. candidates, and in exceptional cases may petition for conversion to the Ph.D. program after advancement to candidacy (for the M.S.). Such petitions must be approved both by the student’s current (M.S.) and proposed (Ph.D.) advisory committee and the department director or designee.

Learning Outcomes
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Learning Outcomes are measurable statements that describe knowledge or skills achieved by students upon completion of the program.

Students graduating from this program will be able to:

- Develop a written dissertation that includes publishable scientific papers using clear language, logic, and convincing arguments
- Deliver a professional oral presentation and respond to questions with confidence
- Display mastery of relevant knowledge of fishery science in a range of subject areas identified by the committee
- Be experts in the subject area of their dissertation
- Recognize assumptions, evaluate arguments and draw conclusions
- Demonstrate mastery in data collection, analysis, interpretation and reporting
- Be prepared to teach fisheries science courses in universities and four-year colleges, at the upper-division and graduate levels
- Be prepared to compete successfully for senior professional career positions
- Demonstrate the ability to prepare and publish peer-reviewed manuscripts in professional journals