

Appendix 3b. Student learning outcomes assessment plan for the Ph.D. in Fisheries Science degree program.

Expanded Statement of Institutional Purpose	Intended Objectives/Outcomes	Assessment Criteria and Procedures	Implementation (what, when, who)
<p>Mission:We shall provide quality graduate education responsive to the needs of individual students and the diverse population of Alaska.</p> <p>Goal:To assure that our graduates are adequately prepared to succeed in the job market in their chosen fisheries field or a closely related field.</p>	<p>1. Be prepared to compete successfully for senior professional career positions in research and management at resource management agencies in Alaska and elsewhere.</p>	<p>Students must pass a written Comprehensive Qualifying Examination which assesses their knowledge of Fisheries Science; 80% will be successful within 3 years of admission (for outcomes 1-3)</p>	<p>Advisory committee will grade as pass, conditional pass, or fail. Academics Office will track success rate.</p>
	<p>2. Be prepared to teach Fisheries Science courses in Universities and four year colleges, at the upper-division and graduate levels.</p>	<p>Students are required to write a Ph.D. dissertation that reports the results of independent research in some aspect of fisheries science. Students are required to orally defend the dissertation, and they must present a public presentation of the dissertation (all outcomes). 80% of students will be judged by faculty and the program head to have performed at the level of a competent fisheries professional.</p>	<p>At the Thesis defense, each faculty member on the committee will rate the student on a scale of 1-4 on whether he/she has achieved professional level performance in several areas. The program head will review the dissertation using similar criteria.</p>
	<p>3. Have excellent oral and written communication skills.</p> <p>4. Have mastery of the core knowledge of fishery science, and be expert in the subject area of their dissertation.</p> <p>5. Be capable of accomplishing rigorous scientific research.</p>	<p>80% of graduates seeking employment in fisheries or aquatic sciences will succeed within one year of graduation (outcomes 1-3).</p>	<p>Three years after graduation, Fisheries Division staff and the faculty advisor will request that each graduate complete a short questionnaire, addressing their experiences seeking employment or continuing graduate studies. Similar questions will be asked of the student in the exit interview.</p>

		<p>75% of graduates will submit a manuscript based on their PhD research to a peer-reviewed scientific journal within 1 year of graduating. 75% of graduates will be first author on a peer-reviewed scientific article within 3 years of graduating.</p>	<p>Three years after graduation, the advisor will be asked whether the students submitted manuscripts to peer-reviewed journals, and whether any were published. Similar questions will be asked of the student in the exit interview.</p>
		<p>80% of graduates will be "satisfied" or "very satisfied" overall, with the education they received in the Fisheries Program at UAF (outcomes 1-2)</p>	<p>Upon graduation Fisheries Division staff will give each graduate an exit interview assessing their satisfaction with the program. Three years after graduation, Fisheries Division staff and the faculty advisor will request that each graduate complete a short questionnaire, which will include similar questions.</p>