

Aquatics & Fisheries Science Assessment Planning Report

MSCHE Assessment Plan Format

Program Learning Outcome Name	Program Learning Outcome	Outcome Year(s)	Assessment Method	Measurement Scale	Target
Communication 09-12	Communicate scientific concepts, observations and experimental results in a variety of oral and written formats.	2009-2010	Course Assignment	>87% - Exceeds Standard 73% - 86% - Meets Standard 60% - 72% - Approaches Standard <60% - Does Not Meet Standard	80% of students meet or exceed expectations.
		2009-2010	Course Grade	>87% - Exceeds Standard 73% - 86% - Meets Standard 60% - 72% - Approaches Standard <60% - Does Not Meet Standard	80% of students meet or exceed expectations
		2009-2010	Presentation/Performance	>87% - Exceeds Standard 73% - 86% - Meets Standard 60% - 72% - Approaches Standard <60% - Does Not Meet Standard	80% of students meet or exceed expectations
		2009-2010	Writing Assignment	>87% - Exceeds Standard 73% - 86% - Meets Standard 60% - 72% - Approaches Standard <60% - Does Not Meet Standard	80% of students meet or exceed expectations
		2010-2011	Course Assignment	>87% - Exceeds Standard 73% - 86% - Meets Standard 60% - 72% - Approaches Standard <60% - Does Not Meet Standard	80% of students meet or exceed expectations.
		2010-2011	Course Grade	>87% - Exceeds Standard 73% - 86% - Meets Standard 60% - 72% - Approaches Standard <60% - Does Not Meet Standard	80% of students meet or exceed expectations
		2010-2011	Presentation/Performance	>87% - Exceeds Standard 73% - 86% - Meets Standard 60% - 72% - Approaches Standard <60% - Does Not Meet Standard	80% of students meet or exceed expectations
		2010-2011	Writing Assignment	>87% - Exceeds Standard 73% - 86% - Meets Standard 60% - 72% - Approaches Standard <60% - Does Not Meet Standard	80% of students meet or exceed expectations
		2011 - 2012	Course Assignment	>87% - Exceeds Standard 73% - 86% - Meets Standard 60% - 72% - Approaches Standard <60% - Does Not Meet Standard	80% of students meet or exceed expectations.
		2011 - 2012	Course Grade	>87% - Exceeds Standard	80% of students meet or exceed expectations

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		2011 - 2012	Presentation/Performance	>87% - Exceeds Standard 73% - 86% - Meets Standard 60% - 72% - Approaches Standard <60% - Does Not Meet Standard	80% of students meet or exceed expectations
		2011 - 2012	Writing Assignment	>87% - Exceeds Standard 73% - 86% - Meets Standard 60% - 72% - Approaches Standard <60% - Does Not Meet Standard	80% of students meet or exceed expectations
Communication 12-15	Communicate scientific concepts, observations and experimental results in a variety of oral and written formats.	2012 - 2013			
		2013 - 2014			
		2014 - 2015			
Competency of Tools 09-12	Demonstrate mastery of basic competencies needed to be an effective aquatic science professional, including understanding and application of the most common and important tools of aquatic ecology and fisheries, including organism collection, habitat assessment and related field and laboratory techniques, basic and applied mathematics and numeracy, statistics, and fundamentals of the scientific method.	2009-2010	Course Assignment	>87% - Exceeds Standard 73% - 86% - Meets Standard 60% - 72% - Approaches Standard <60% - Does Not Meet Standard	80% of students meet or exceed expectations (>73%)
		2009-2010	Course Grade	>87% - Exceeds Standard 73% - 86% - Meets Standard 60% - 72% - Approaches Standard <60% - Does Not Meet Standard	80% of students meeting or exceeding expectations
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		2013 - 2014			
		2014 - 2015			
Economics and Natural Resource Management Principles 09-12	Demonstrate understanding of economics and natural resource management principles and techniques (e.g., assessment,	2009-2010	Course Grade	>87% - Exceeds Standard 73% - 86% - Meets Standard 61% - 72% - Approaches Standard <60% - Does Not Meet Standard	80% of students meet or exceed expectations (>73%)

Program Learning Outcome Name	Program Learning Outcome	Outcome Year(s)	Assessment Method	Measurement Scale	Target
Economics and Natural Resource Management Principles 09-12	intervention, evaluation, and policy development), and appreciate the complexity of natural/human systems wherein management is applied.	2009-2010	Course Grade	>87% - Exceeds Standard 73% - 86% - Meets Standard 61% - 72% - Approaches Standard <60% - Does Not Meet Standard	80% of students meet or exceed expectations (>73%)
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Economics and Natural Resource Management Principles 12-15	Demonstrate understanding of economics and natural resource management principles and techniques (e.g., assessment, intervention, evaluation, and policy development), and appreciate the complexity of natural/human systems wherein management is applied.	2012 - 2013			
		2013 - 2014			
		2014 - 2015			
Familiarity with Aquatic Ecology 09-12	Demonstrate broad familiarity with aquatic ecology and environmental systems science, including basic knowledge of physical sciences (e.g., physical, chemical and hydrologic properties of water) and the distribution and functioning of aquatic ecosystems.	2009-2010	Course Grade	>87% - Exceeds Standard 73% - 86% - Meets Standard 60% - 72% - Approaches Standard <60% - Does Not Meet Standard (Active)	80% of students meet or exceed expectations

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		2012 - 2013				
		2013 - 2014				
		2014 - 2015				
Familiarity with Fishes 09-12	Demonstrate broad familiarity with fishes and other aquatic organisms from both freshwater and marine environments, as well as breadth in organismal diversity of plants or microbes and animals, including their taxonomy, evolution, anatomy, physiology, distribution, and life history.	2009-2010	Course Assignment	>87% - Exceeds Standard 73% - 86% - Meets Standard 60% - 72% - Approaches Standard <60% - Does Not Meet Standard	80% Meet or Exceed Standard (>73%)	
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		2013 - 2014			
		2014 - 2015			
Knowledge of Structure/Function/Organization 09-12	Demonstrate knowledge of structure, function and organization at molecular, cellular and organismal levels, as well as micro- and macro-evolutionary processes that contribute to adaptations and biodiversity.	2009-2010	Course Grade	>87% - Exceeds Standard 73% - 86% - Meets Standard 60% - 72% - Approaches Standard <60% - Does Not Meet Standard	80% Meet or Exceed Standard (>73%)
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