

Classes used for assessment of WATS learning objectives

Major: Management and Restoration of Aquatic Ecosystems	ENVS	WATS	WATS	WATS	WATS	WATS	WATS	WATS	WATS	WATS	WATS	WATS
Learning Objective	4000	3600	3700	3910	4490	4500	4530	4930	4980	5300	5340	5350
(1) Competence in applying computing and mathematical methods			X	X	X	X		X				
(2) Functional knowledge of the physical, biological and chemical components of aquatic ecosystems		X	X	X	X	X	X					
(3) Ability to make, analyze, and report observations of aquatic ecosystems					X		X	X				
(4) Ability to understand and apply the principles of aquatic ecosystem restoration										X	X	X
(5) Effective oral, written, and visualization communication skills			X					X			X	X
(6) Understanding of the social context of ecosystem management and restoration in modern society	X						X				X	X
(7) Ability to identify, formulate, and develop solutions to ecosystem management and restoration problems using modern analytical tools, synthesizing knowledge from supporting sciences											X	X
	F	F	S	F	S	F	F	S	S	S	F	S

MRAE REQUIRED COURSES	FAAS REQUIRED COURSES
WATS 3600 Geomorphology	WATS 3100 Fish Diversity and Conservation
WATS 3700 Fundamentals of Watershed Science	WATS 3110 Fish Diversity Laboratory
WATS 3910 Climatology & Hydrology for Western Watersheds	WATS 3700 Fundamentals of Watershed Science
WATS 4490 Small Watershed Hydrology	WATS 4490 Small Watershed Hydrology
WATS 4500 Limnology: Ecology of Inland Waters	WATS 4500 Limnology: Ecology of Inland Waters
WATS 4530 Water Quality & Pollution	WATS 4510 Aquatic Ecology Practicum I: Lab Methods
WATS 4930 Advanced GIS and Spatial Analyses	WATS 4520 Aquatic Ecology Practicum II: Analysis
WATS 4980 Watershed Sciences Departmental Seminar	WATS 4650 Principles in Fishery Management
WATS 5300 Principles of Aquatic Ecosystem Restoration	WATS 4930 Advanced GIS and Spatial Analyses
WATS 5340 Capstone I - Management and Restoration of Aquatic Ecosystems	WATS 4980 Watershed Sciences Departmental Seminar
WATS 5350 Capstone II - Management and Restoration of Aquatic Ecosystems	WATS 5200 Fish Habitats
ENVS 4000 Human Dimensions of NR Management	WATS 5300 Principles of Aquatic Ecosystem Restoration
	WATS 5310 Ecology and Restoration of Wetland and Riparian Plants
	WATS 5550 Freshwater Invertebrates
	WATS 5340 Capstone I - Management and Restoration of Aquatic Ecosystems
	WATS 5350 Capstone II - Management and Restoration of Aquatic Ecosystems
	ENVS 4000 Human Dimensions of NR Management

Major: Fisheries and Aquatic Sciences	ENVS	WATS	WATS	WATS	WATS	WATS	WATS	WATS	WATS	WATS	WATS	WATS	WATS	WATS	WATS	WATS	
Learning Objective	4000	3100	3110	3700	4490	4500	4510	4520	4650	4930	4980	5200	5300	5310	5550	5340	5350
(1) Competence in applying computing and mathematical methods				X	X	X			X	X							
(2) Functional knowledge of the physical, biological and chemical components of aquatic ecosystems			X	X	X	X			X			X		X			
(3) Ability to make and analyze observations of aquatic ecosystems			X		X		X	X		X							
(4) Ability to understand and apply the principles of fisheries conservation and management									X				X			X	X
(5) Effective oral, written, and visualization communication skills		X		X						X						X	X
(6) Understanding of the social context of ecosystem management and restoration in modern society	X								X					X		X	X
(7) Ability to identify, formulate, and develop solutions to ecosystem management and restoration problems using modern analytical tools, synthesizing knowledge from supporting sciences																X	X
	F	F	F	S	S	F	F	F	S	S	S	F	F	S	S	F	S