

RANGELAND, WILDLIFE AND FISHERIES MANAGEMENT - BS, AQUACULTURE AND FISHERIES MANAGEMENT TRACK

Program Requirements

First Year

		Semester Credit Hours
Fall		
AGEC 105	Introduction to Agricultural Economics	3
BIOL 111	Introductory Biology I	4
ENGL 104	Composition and Rhetoric	3
ESSM 201	Exploring Ecosystem Science and Management	1
MATH 140	Mathematics for Business and Social Sciences	3
Semester Credit Hours		14

Spring

BIOL 112	Introductory Biology II	4
ENGL 210	Technical and Professional Writing	3
MATH 142	Business Calculus	3
RENR 205	Fundamentals of Ecology	3
RENR 215	Fundamentals of Ecology--Laboratory	1
Semester Credit Hours		14

Second Year

		Semester Credit Hours
Fall		
CHEM 119	Fundamentals of Chemistry I	4
POLS 206	American National Government ¹	3
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) ¹		3
Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts) ¹		3
Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture) ¹		3
Semester Credit Hours		16

Spring

CHEM 222	Elements of Organic and Biological Chemistry	3
POLS 207	State and Local Government ¹	3
RWFM 202	Concepts in Applied Plant Biology	3
RWFM 305	Principles and Practices of Wildlife and Fisheries Management	3

American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) ¹		3
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Semester Credit Hours	15
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Third Year

		Semester Credit Hours
Fall		
RWFM 321	Communicating Natural Resources	3
RWFM 370	Aquatic Vegetation Management	2
STAT 302	Statistical Methods	3
WFSC 302	Natural History of the Vertebrates	3
WFSC 335	Natural History of the Invertebrates	3
Semester Credit Hours		14

Spring

AGEC 325	Principles of Farm and Ranch Management	3
ESSM 314	Principles of Rangeland Management Around the World	3
WFSC 303	Fish and Wildlife Laws and Administration	3
WFSC 311	Ichthyology	3
WFSC 404	Aquatic Ecosystems	3
Semester Credit Hours		15

Summer

RENR 345	Park Ecology and Management	3
Semester Credit Hours		3

Fourth Year

		Semester Credit Hours
Fall		
ESSM 351/ RENR 405	Geographic Information Systems for Resource Management	3
RENR 375	Conservation of Natural Resources	3
RWFM 444	Aquaculture Hatchery Management	3
RWFM 445	Fish Health and Diseases	3
WFSC 444	Aquaculture I: Principles and Practices	3
Semester Credit Hours		15

Spring

ESSM 481	Senior Seminar	1
RWFM 446	Fish Physiology	3
WFSC 410	Principles of Fisheries Management	4
WFSC 425	Marine Fisheries	3
WFSC 447	Aquaculture II: Aquatic Animal Nutrition, Feeding and Disease Management	3
Semester Credit Hours		14

Total Semester Credit Hours	120
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¹ Graduation requirements include a requirement for 3 hours of International and Cultural Diversity (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/>) courses and 3 hours of Cultural Discourse (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/cultural-discourse-requirements/>) courses. A course satisfying a Core category, a college/department requirement, or a free elective can be used to satisfy this requirement. Select in consultation with an academic advisor.