

RANGELAND, WILDLIFE AND FISHERIES MANAGEMENT

- BS, RANGELAND MANAGEMENT TRACK

The Rangeland Management track combines the disciplines of ecology and range management to best promote the production, conservation, function and stewardship of rangelands found around the world. Our curriculum focuses on fundamental ecological and rangeland principles used in addressing leading challenges, such as watershed health, invasive exotic plant control and wildland fires. Included in this track is a summer field camp providing intense field experience to solidify principles students will need to pursue advanced coursework in focal management areas.

The Society for Rangeland Management has recognized this track as an accredited program, exceeding acceptable standards in the profession. Upon graduation, students will meet the basic qualifications to apply for certificates as a Certified Professional in Rangeland Management and Certified Range Management Consultants, providing competitive credentials in today's job market. Students will be prepared to seek employment with government agencies, such as the Natural Resources Conservation Service, or head into environmental and natural resources consulting or private sector ranch management.

Program Requirements

First Year

Fall		Semester Credit Hours
AGEC 105	Introduction to Agricultural Economics	3
BIOL 111	Introductory Biology I	4
ENGL 104	Composition and Rhetoric	3
MATH 140	Mathematics for Business and Social Sciences ¹	3
RWFM 101	Exploring Rangeland, Wildlife and Fisheries Management	1
Semester Credit Hours		14

Spring		Semester Credit Hours
BIOL 112	Introductory Biology II	4
ECCB 205	Fundamentals of Ecology	3
ECCB 215	Fundamentals of Ecology--Laboratory	1
MATH 142	Business Calculus	3
RWFM 202	Concepts in Applied Plant Biology	3
Semester Credit Hours		14

Second Year

Fall		Semester Credit Hours
CHEM 119	Fundamentals of Chemistry I	4
ENGL 210 or COMM 203	Technical and Professional Writing or Public Speaking	3
POLS 206	American National Government	3
RWFM 305	Principles and Practices of Wildlife and Fisheries Management	3

Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts)	3
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Semester Credit Hours		16
Spring		
POLS 207	State and Local Government	3
RWFM 375	Conservation of Natural Resources	3
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)	3	
Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture)	3	
Directed elective ²	3	

Semester Credit Hours		15
Summer		
RWFM 333	Rangeland, Wildlife & Fisheries Field Techniques	3
Semester Credit Hours		3

Third Year		Semester Credit Hours
Fall		
RWFM 302	Wildland Plants of North America	3
RWFM 308	Fish and Wildlife Laws and Administration	3
RWFM 314	Principles of Rangeland Management Around the World	3
SCSC 301	Soil Science	4
Directed elective ²	3	

Semester Credit Hours		16
Spring		
RWFM 301	Wildland Watershed Management	3
RWFM 313	Vegetation Sampling Methods and Designs in Ecosystems	3
RWFM 317	Vegetation Management	3
RWFM 321	Communicating Natural Resources	3
STAT 302	Statistical Methods	3

Semester Credit Hours		15
Summer		
RWFM 484	Internship	1
Semester Credit Hours		1

Fourth Year		Semester Credit Hours
Fall		
RWFM 316	Range Ecology	3
RWFM 351	Geographic Information Systems for Resource Management	3
RWFM 415	Range Analysis and Management Planning	4
Select one of the following:	3	

ECCB 312	Diversity, Evolution, and Ecology of Grasses	
RWFM 370	Aquatic Vegetation Identification and Management	
RWFM 480	Plant Identification and Undergraduate Range Management Exam	
Semester Credit Hours		13

Spring		Semester Credit Hours
AGEC 325	Principles of Farm and Ranch Management	3

RWFM 349	Rangeland and Wildlife Animal Nutrition	3
RWFM 401	Rangeland Plant and Herbivory Dynamics	3
RWFM 481	Senior Seminar	1
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)		3
Semester Credit Hours		13
Total Semester Credit Hours		120

¹ Must make a grade of C or better.

² Select from AGECE 350, ANSC 107, ANSC 108, ANSC 302, ECCB 304, ECCB 416, RWFM 406, RWFM 345, RWFM 436, RWFM 440, RWFM 480, SCSC 310.

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.