

# 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
ENGL 104	Composition and Rhetoric	3
HORT 201 & HORT 202	Horticultural Science and Practices and Horticultural Science and Practices Laboratory	4
MATH 140	Mathematics for Business and Social Sciences	3
RWFM 101	Exploring Rangeland, Wildlife and Fisheries Management	1
<b>Semester Credit Hours</b>		<b>14</b>
Spring		
ECCB 205	Fundamentals of Ecology	3
ECCB 215	Fundamentals of Ecology--Laboratory	1
ENGL 210 or COMM 203	Technical and Professional Writing or Public Speaking	3
MATH 142	Business Calculus	3
Select one of the following:		4
BIOL 107	Zoology	
BIOL 111	Introductory Biology I	
BIOL 112	Introductory Biology II	
<b>Semester Credit Hours</b>		<b>14</b>

### Second Year

Fall		
CHEM 119	Fundamentals of Chemistry I	4
POLS 206	American National Government	3
RWFM 305	Principles and Practices of Wildlife and Fisheries Management	3
American history ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history</a> )		3
Creative arts ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts</a> )		3
<b>Semester Credit Hours</b>		<b>16</b>
Spring		
POLS 207	State and Local Government	3
RWFM 202	Concepts in Applied Plant Biology	3
American history ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history</a> )		3
Language, philosophy and culture ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture</a> )		3
Directed elective <sup>1</sup>		3
<b>Semester Credit Hours</b>		<b>15</b>

### Summer

RWFM 333	Rangeland, Wildlife & Fisheries Field Techniques	3
<b>Semester Credit Hours</b>		<b>3</b>

### Third Year

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 <sup>1</sup>		3
<b>Semester Credit Hours</b>		<b>16</b>

### 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
<b>Semester Credit Hours</b>		<b>15</b>

### Fourth Year

Fall		
ECCB 312	Agrostology	3
RWFM 316	Range Ecology	3
RWFM 481	Senior Seminar	1
RWFM 411 or RWFM 415	Ecosystem Management or Range Analysis and Management Planning	4

Directed elective <sup>1</sup>		3
<b>Semester Credit Hours</b>		<b>14</b>
<b>Spring</b>		
AGEC 325	Principles of Farm and Ranch Management	3
ECCB 351	Geographic Information Systems for Resource Management	3
RWFM 375	Conservation of Natural Resources	3
RWFM 484	Internship	1
Directed elective <sup>1</sup>		3
<b>Semester Credit Hours</b>		<b>13</b>
<b>Total Semester Credit Hours</b>		<b>120</b>

<sup>1</sup> Direct electives to be chosen in consultation with Academic Advisor.

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.