

# RANGELAND, WILDLIFE AND FISHERIES MANAGEMENT- 5-YEAR BACHELOR OF SCIENCE AND MASTER OF PUBLIC SERVICE ADMINISTRATION

The five-year degree program with the Bush School of Government and Public Service allows undergraduate students in Rangeland, Wildlife and Fisheries Management to enter the Master of Public Service and Administration program at the beginning of their fourth year. The program integrates the science and practice of managing fish and wildlife populations with policies for these public resources on both public and private lands. Students are prepared for careers in conservation with a foundation in life and physical sciences, mathematics, and problem-solving skills that accommodate animals and their habitats within larger ecological systems. Upon graduation, students are prepared for a wide variety of post-graduate opportunities including employment in local, state, or federal government, non-profit organizations and private industry.

## Program Requirements

### First Year

		<b>Semester Credit Hours</b>
<b>Fall</b>		
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 <sup>1</sup>	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>
<b>Spring</b>		
BIOL 112	Introductory Biology II	4
ECCB 205	Fundamentals of Ecology	3
MATH 142	Business Calculus	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
<b>Semester Credit Hours</b>		<b>16</b>

### Second Year

<b>Fall</b>		
CHEM 119	Fundamentals of Chemistry I	4
COMM 203 or ENGL 210	Public Speaking or Technical and Professional Writing	3
ECCB 302	Diversity and Evolution of Vertebrates	3
POLS 206	American National Government	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
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<b>Semester Credit Hours</b>	<b>16</b>
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### Spring

CHEM 222	Elements of Organic and Biological Chemistry	3
ECCB 215	Fundamentals of Ecology–Laboratory	1
POLS 207	State and Local Government	3
RWFM 202	Concepts in Applied Plant Biology	3
RWFM 351	Geographic Information Systems for Resource Management	3

Biodiversity	3
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Select one of the following:

ECCB 315	Herpetology	3
ECCB 401	General Mammalogy	3
ECCB 402	General Ornithology	3

<b>Semester Credit Hours</b>	<b>16</b>
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### Third Year

#### Fall

RWFM 302 or RWFM 370	Wildland Plants of North America or Aquatic Vegetation Identification and Management	3
RWFM 308	Fish and Wildlife Laws and Administration	3
RWFM 314	Principles of Rangeland Management Around the World	3
RWFM 350	Wildlife and Fisheries Population Dynamics	3
RWFM 408	Techniques of Wildlife Management	3
SCSC 301	Soil Science	4

<b>Semester Credit Hours</b>	<b>19</b>
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#### Spring

RWFM 305	Principles and Practices of Wildlife and Fisheries Management	3
RWFM 345	Human Dimensions of Natural Resource Management and Policy	3
RWFM 349	Rangeland and Wildlife Animal Nutrition	3
RWFM 406	Wildlife Habitat Management	3
RWFM 419	Wildlife Restoration	3
RWFM 481	Senior Seminar	1
STAT 302	Statistical Methods	3

<b>Semester Credit Hours</b>	<b>19</b>
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### Fourth Year

#### Fall

BUSH 631	Quantitative Methods in Public Management I <sup>2</sup>	3
PSAA 601	Foundations of Public Service <sup>2</sup>	3
PSAA 621	Economic Analysis <sup>2</sup>	3
PSAA 643	Foundations of the Nonprofit Sector <sup>2</sup>	3

<b>Semester Credit Hours</b>	<b>12</b>
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#### Spring

PSAA 611	Public Policy Formation <sup>2</sup>	3
Select one of the following:	3	
BUSH 632	Quantitative Methods in Public Management II	3

BUSH 635	Quantitative Methods in Public Management II: Policy Analysis Emphasis	
PSAA 630	Program Evaluation in Public and Nonprofit Organizations	
Select one of the following:		3
PSAA 622	Public Finance	
PSAA 634	Public Management	
PSAA 644	Management and Leadership of Nonprofit Organizations	
RWFm directed elective <sup>2,3</sup>		3
<b>Semester Credit Hours</b>		<b>12</b>
<b>Fifth Year</b>		
<b>Fall</b>		
PSAA 675	Public Service and Administration Capstone Seminar	3
Select one of the following:		3
PSAA 615	Policy Analysis	
PSAA 623	Budgeting in Public Service	
PSAA 632	Fiscal Management for Nonprofits	
Directed electives <sup>4</sup>		6
<b>Semester Credit Hours</b>		<b>12</b>
<b>Spring</b>		
PSAA 676	Public Service and Administration Capstone Seminar II	3
Directed electives <sup>4</sup>		9
<b>Semester Credit Hours</b>		<b>12</b>
<b>Total Semester Credit Hours</b>		<b>150</b>

<sup>1</sup> Must make a grade of C or better.

<sup>2</sup> Courses taken for credit in both the undergraduate and graduate degree for a combined total of 18 credits: BUSH 631, PSAA 601, PSAA 611, PSAA 621, PSAA 643, and RWFm directed elective.

<sup>3</sup> Select a 600-level course from ECCB or RWFm.

<sup>4</sup> Directed electives to be chosen to meet requirements for one of the three degree tracks in Master of Public Service and Administration (MPSA): Public Policy Analysis (PPA), Public Management (PM), or Non-Profit Management (NPM).

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.

The program includes a total of 168 hours which up to 18 hours may be applied toward both the Bachelor of Science in Rangeland, Wildlife and Fisheries Management and the Master of Public Service Administration.

## Total Program Hours 168