

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

Fall		Semester Credit Hours	
AGEC 105	Introduction to Agricultural Economics	3	
BIOL 111	Introductory Biology I	4	
ECCB 205	Fundamentals of Ecology	3	
MATH 140	Mathematics for Business and Social Sciences	3	
Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts)		3	
Semester Credit Hours		16	
Spring			
BIOL 112	Introductory Biology II	4	
ENGL 104	Composition and Rhetoric	3	
MATH 142	Business Calculus	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	
Semester Credit Hours		16	

Second Year

Fall		
CHEM 119	Fundamentals of Chemistry I	4
COMM 203	Public Speaking	3
ECCB 302	Diversity and Evolution of Vertebrates	3
POLS 206	American National Government	3

American history (<http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history>) 3

Semester Credit Hours		16
Spring		
CHEM 222	Elements of Organic and Biological Chemistry	3
ECCB 215	Fundamentals of Ecology–Laboratory	1
ECCB 351	Geographic Information Systems for Resource Management	3
POLS 207	State and Local Government	3
RWFM 202	Concepts in Applied Plant Biology	3
Biodiversity		3
Select one of the following:		
ECCB 315	Herpetology	
ECCB 401	General Mammalogy	
ECCB 402	General Ornithology	

Semester Credit Hours		16
Third Year		
Fall		
RWFM 308	Fish and Wildlife Laws and Administration	3
RWFM 350	Wildlife Population Dynamics	3
RWFM 408	Techniques of Wildlife Management	3
SCSC 301	Soil Science	4
Select one of the following:		3
ECCB 313	Diversity and Evolution of Invertebrates	
RWFM 349	Rangeland and Wildlife Animal Nutrition	
RWFM 354	Wildlife Anatomy and Physiology	
Biodiversity		3
Select one of the following:		
ECCB 315	Herpetology	
ECCB 401	General Mammalogy	
ECCB 402	General Ornithology	

Semester Credit Hours		19
Spring		
RWFM 305	Principles and Practices of Wildlife and Fisheries Management	3
RWFM 314	Principles of Rangeland Management Around the World	3
RWFM 406	Wildlife Habitat Management	3
RWFM 481	Senior Seminar	1
STAT 302	Statistical Methods	3
Botany		3
Select one of the following:		
ECCB 203	Forest Trees of North America	
ECCB 312	Agrostology	
RWFM 302	Wildland Plants of North America	
Wildlife Management		3
Select one of the following:		
RWFM 309/ VTPB 301	Wildlife Diseases	
RWFM 405	Urban Wildlife and Fisheries	
RWFM 419	Wildlife Restoration	

RWFM 421	Upland Bird Management	
RWFM 422	Large Mammal Management	
RWFM 423	Waterfowl and Wetland Management	
RWFM 424	Wildlife Damage Management	
RWFM 425	Carnivore Management	
Semester Credit Hours		19
Fourth Year		
Fall		
BUSH 631	Quantitative Methods in Public Management I ¹	3
PSAA 601	Foundations of Public Service ¹	3
PSAA 621	Economic Analysis ¹	3
PSAA 643	Foundations of the Nonprofit Sector ¹	3
Semester Credit Hours		12
Spring		
PSAA 611	Public Policy Formation ¹	3
Select one of the following:		3
BUSH 632	Quantitative Methods in Public Management II	
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 ²		3
Semester Credit Hours		12
Fifth Year		
Fall		
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 ³		6
Semester Credit Hours		12
Spring		
PSAA 676	Public Service and Administration Capstone Seminar II	3
Directed electives ¹		9
Semester Credit Hours		12
Total Semester Credit Hours		150

(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.

¹ 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

² Select a 600 level course from ECCB, ESSM, RPTS, or RWFM.

³ Directed electives to be chosen to meet requirements for one of the three degree tracks in Master of Public Service and Administration