

Wildlife and Conservation Science B.S.

Learn to preserve and maintain biodiversity and the integrity of natural systems by earning your Bachelor of Science in Wildlife and Conservation at East Texas A&M University. In our program, you will gain tools to help restore and maintain the earth's wildlife legacy while learning to protect its ecosystems. Through hands-on research in our university wetland, practical exercises, field trips, internships, and personal instruction in the classroom, you will gain marketable expertise in soils, ecology, botany and zoology – all of the knowledge and skills necessary to protect our planet.

Our graduates pursue careers as wildlife managers, park rangers, urban biologists, game wardens, ecologists, conservation planners, and more. They are prepared to excel in positions with governmental agencies and private organizations such as: Texas Parks and Wildlife, the U.S. Fish and Wildlife Service, the National Forest Service, the Nature Conservancy and the Audubon Society. Opportunities on private game ranches and nature centers are also available to graduates.

Core Curriculum Courses

See the Core Curriculum Requirements (<https://coursecatalog.tamuc.edu/undergrad/core-curriculum-requirements/>) 42

Required Common Courses in the Major (26) 26

BSC 307	Ecology	3
AG 404	Vertebrate Biology	3
or BSC 404	Vertebrate Biology	
AG 316	Becoming a Wildlife Professional	3
or BSC 316	Becoming a Wildlife Professional	
PLS 460	Plant Taxonomy	3
BSC 337	Field Methods in Wildlife and Conservation Science	4
or AG 337	Field Methods in Wildlife and Conservation Science	
PLS 309 & PLS 329	Soil Science and Soil Science Laboratory	4
AG 440	Human Dimensions of Wildlife	3
or BSC 440	Human Dimensions of Wildlife	
BSC 412	Fundamentals of Biostatistics	3
or AG 412	Fundamentals of Biostatistics	

Required Courses in the Major – Biology Majors (28 sch) 28

BSC 1411	Botany	4
BSC 1413	Zoology	4
BSC 335	Wildlife Management I	3
BSC 336	Wildlife Management II	3
BSC 315	Ecological Genetics	3
or AG 315	Ecological Genetics	
BSC 314	Comparative Vertebrate Physiology	3
BSC 405	Wildlife Internship	5
BSC 436	Plant Diversity & Conservation	3
or AG 436	Plant Diversity & Conservation	

Required Courses in the Major – Agriculture Majors (31 sch) 31

AG 1131	Intro To Agriculture	1
BSC 1411	Botany	4
OR		
PLS 1307	Introduction to Plant Science & Agronomy (&)	
PLS 1107	Applied Plant Science Lab	
OR		
PLS 1315	Introduction to Horticulture (&)	
PLS 1115	Introduction to Horticulture Laboratory	
BSC 1413	Zoology	4
AG 335	Wildlife Management I	3
AG 336	Wildlife Management II	3
ANS 310	Animal Genetics	3

ANS 1319	Introduction to Animal Science	3
AG 405	Internship Agri-Industries	3
AG 400	Seminar	1
AG 418	Undergraduate Research Experience	1-3
or AG 383	Waterfowl Management	
ALC 4301	Professional Presentations in Agricultural Leadership, Education, and Communications	3
or ANZ 4303	Communicating Science to the Public	
AG 381	Big Game Management	3
or BSC 381	Big Game Management	
Upper Level Electives – Biology Majors (22 sch)		21
Select upper level electives from the following:		
BSC 338	Wildlife Management Techniques	3
or AG 338	Wildlife Management Techniques	
BSC 438	Wetland Ecology and Management	4
or AG 438	Wetland Ecology and Management	
BSC 402	Ornithology	3
or AG 402	Ornithology	
BSC 406	Mammalogy	3
or AG 406	Mammalogy	
BSC 415	Upland Game Bird Ecology and Management	3
or AG 415	Upland Bird Ecology and Management	
BSC 416	Wildlife Population Biology	3
or AG 416	Wildlife Population Biology	
BSC 417	Geospatial Mapping	3
or AG 417	Geospatial Mapping	
BSC 435	Wildlife Habitat Ecology and Management	3
or AG 435	Wildlife Habitat Ecology and M	
BSC 462	Agroecology	3
or AG 462	Agroecology	
BSC 463	Landscape Ecology	3
or AG 463	Landscape Ecology	
BSC 464	Principles of Sustainability	3
or AG 464	Principles of Sustainability	
AG 423	Natural Resources Management	3
ENVS 403	Environmental Ethics and Law	3
BSC 418	Undergraduate Research	1-3
BSC 383	Waterfowl Management	3
or AG 383	Waterfowl Management	
BSC 385	International Wildlife Conservation	3
or AG 385	International Wildlife Conservation	
BSC 381	Big Game Management	3
or AG 381	Big Game Management	
Upper Level Electives – Agriculture Majors (19 sch)		19
Select upper level electives from the following:		
AG 435	Wildlife Habitat Ecology and M	3
or BSC 435	Wildlife Habitat Ecology and Management	
AG 338	Wildlife Management Techniques	3
or BSC 338	Wildlife Management Techniques	
AG 438	Wetland Ecology and Management	4
or BSC 438	Wetland Ecology and Management	
AG 402	Ornithology	3
or BSC 402	Ornithology	

AG 406	Mammalogy	3
or BSC 406	Mammalogy	
AG 417	Geospatial Mapping	3
or BSC 417	Geospatial Mapping	
ENVS 403	Environmental Ethics and Law	3
AG 415	Upland Bird Ecology and Management	3
or BSC 415	Upland Game Bird Ecology and Management	
AG 462	Agroecology	3
or BSC 462	Agroecology	
AG 463	Landscape Ecology	3
or BSC 463	Landscape Ecology	
AG 464	Principles of Sustainability	3
or BSC 464	Principles of Sustainability	
AG 423	Natural Resources Management	3
AG 416	Wildlife Population Biology	3
or BSC 416	Wildlife Population Biology	
AEC 360	Agricultural Law	3
or ANZ 3335	Laws and Regulations of Animal Care and Use	
AG 385	International Wildlife Conservation	3
or BSC 385	International Wildlife Conservation	
Required support courses		
MATH 1314	College Algebra *	
MATH 2312	Pre-Calculus *	
CHEM 1305	Introductory Chemistry I *	
CHEM 1105	Introductory Chemistry Laboratory I	1
CHEM 1307	Introductory Chemistry II *	
CHEM 1107	Introductory Chemistry Laboratory II *	1
Total		120

* This course can be used to satisfy the Common Core Requirements.
A grade of "C" or higher must be earned in all courses in this Major.

First Year

Fall **Hours**
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Total Hours: 0