

ECOLOGY AND CONSERVATION BIOLOGY - BS, FOREST RESOURCES TRACK

Program Requirements

First Year

		Semester Credit Hours
Fall		
BIOL 111	Introductory Biology I	4
ESSM 201	Exploring Ecosystem Science and Management	1
MATH 140	Mathematics for Business and Social Sciences	3
RENr 205	Fundamentals of Ecology	3
General elective ¹		3
Semester Credit Hours		14

Spring

BIOL 112	Introductory Biology II	4
MATH 142	Business Calculus	3
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) ²		3
Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture) ²		3
Social and behavioral sciences (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences) ²		3
Semester Credit Hours		16

Second Year

Fall		
CHEM 119	Fundamentals of Chemistry I	4
ESSM 203	Forest Trees of North America	3
WFSC 302	Natural History of the Vertebrates	3
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) ²		3
Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts) ²		3
Semester Credit Hours		16

Spring

CHEM 222	Elements of Organic and Biological Chemistry	3
ESSM 310	Forest Tree Improvement and Regeneration	3
RENr 215	Fundamentals of Ecology--Laboratory	1
STAT 302	Statistical Methods	3
WFSC 304	Wildlife and Fisheries Conservation	3

Government/Political science (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science) ²	3
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Semester Credit Hours 16

Third Year

Fall

ESSM 309	Forest Ecology	3
ESSM 351/ RENr 405	Geographic Information Systems for Resource Management	3
WFSC 403	Animal Ecology	3
Select one of the following:		4
CHEM 120	Fundamentals of Chemistry II	
GEOL 101 & GEOL 102	Principles of Geology and Principles of Geology Laboratory	
PHYS 201	College Physics	
SCSC 301	Soil Science	

Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication) ²	3
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Semester Credit Hours 16

Spring

AGEC 350	Environmental and Natural Resource Economics	3
ESSM 304	Rangeland Plant Taxonomy	3
ESSM 311	Biogeochemistry and Global Change	3
ESSM 324	Forest Measurements	2

Government/Political science (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science) ²	3
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Semester Credit Hours 14

Fourth Year

Fall

ESSM 319	Principles of Forestry	3
ESSM 406	Natural Resources Policy	3
ESSM 416	Fire Ecology and Natural Resource Management	3
ESSM 444	Remote Sensing of the Environment	3
WFSC 433	Molecular Ecology in Wildlife and Fisheries	3

Semester Credit Hours 15

Spring

ESSM 307	Forest Protection	3
ESSM 405	Forest Resource Assessment and Management	3
ESSM 485	Directed Studies	1
Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication) ²	3	
General elective ¹	3	

Semester Credit Hours 13

Total Semester Credit Hours 120

2 Ecology and Conservation Biology - BS, Forest Resources Track

¹ Select from any 100-499 course not used elsewhere.

² 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 general elective can be used to satisfy this requirement.

Must make a grade of C or better in BIOL 111, BIOL 112, and all ECCB major core coursework (ESSM 201, ESSM 304, ESSM 311, ESSM 485, RENR 205, WFSC 302, WFSC 304, WFSC 403, and WFSC 433.)