

WILDLIFE CONSERVATION MAJOR

Program Curriculum

Code	Title	Credits
Degree Core Requirements		
BIOL 1115	Principles of Biology Laboratory	1
BIOL 1116	Principles of Biology Laboratory	1
BIOL 2704	Evolutionary Biology	3
FIW 2114	Principles of Fish and Wildlife Conservation	3
Select one of the following:		4
FIW 4314	Conservation of Biological Diversity (Wildlife Majors)	
FIW 4714	Fisheries Management (Fisheries Majors)	
FIW 4414	Population Dynamics and Estimation	3
FIW 4464	Human Dimensions of Fisheries and Wildlife	3
NR 1234	First Year Experience In Natural Resources and Environment	2-3
or NR 2234	1st Semester Experience-Transfer Students in Natural Resources and Environment	
Subtotal		20-21
Major Requirements		
Select one of the following:		3
BIOL 3204	Plant Taxonomy	
HORT 3324	Herbaceous Landscape Plants	
HORT 3326	Woody Landscape Plants	
FIW 2314	Wildlife Biology	3
FIW 2324	Wildlife Field Biology	3
FIW 4214	Wildlife Field Techniques	3
FIW 4434	Wildlife Habitat Ecology and Management	3
FREC 2324	Dendrology Laboratory	1
<i>Vertebrate Biology Restricted Elective</i>		
Select one of the following: (must include labs)		4
BIOL 4404	Ornithology	
FIW 4334	Mammalogy	
FIW 4344	Herpetology	
Subtotal		20
Additional Degree Requirements		
CHEM 1035	General Chemistry	3
CHEM 1036	General Chemistry	3
CHEM 1045	General Chemistry Laboratory	1
CHEM 1046	General Chemistry Laboratory	1
<i>Experiential Learning Requirement</i>		
Select one of the following: (requires department approval)		1
FIW 2974	Independent Study	
FIW 2994	Undergraduate Research	
FIW 3964	Internship Through Directed Field Study	
FIW 4974	Independent Study	
FIW 4994	Undergraduate Research	
XXXX 3954	(Study Abroad)	
<i>Legal Foundation Restricted Elective</i>		

Select one of the following:		3
AAEC 3314	Environmental Law	
FIW 2514	Fish and Wildlife Conservation Policy	
FREC 4434	Natural Resource Policy	
UAP 3354	Introduction to Environmental Policy and Planning	
UAP 4344	Law of Critical Environmental Areas	
<i>Writing Restricted Elective</i>		
Select one of the following:		3
ALCE 3624	Communicating Ag and Life Sciences in Writing	
ENGL 3764	Technical Writing	
ENGL 3774	Business Writing	
Subtotal		15
Additional Wildlife Conservation Requirements		
FIW 4474	Wildlife Habitat Evaluation	1
<i>Additional Vertebrate Biology Restricted Elective</i>		
Select one of the following: (must include labs)		4
BIOL 4404	Ornithology	
FIW 4334	Mammalogy	
FIW 4344	Herpetology	
BIOL 4354	Aquatic Entomology	
FIW 4424	Ichthyology	
<i>Genetics (choose one)</i>		
FIW 4324	Genetics of Natural and Mangaged Populations	3
or BIOL 2004	Genetics	
<i>Geographic Information Systems Restricted Elective</i>		
Select one of the following:		3
FREC 4114	Information Technologies for Natural Resource Management	
FREC 4214	Forest Photogrammetry and Spatial Data Processing	
GEOG 2084	Principles of Geographic Information Systems	
GEOG 4354	Introduction to Remote Sensing	
<i>Ecology Restricted Elective</i>		
Select one of the following:		3
BIOL 2804	Ecology	
FREC 3314	Forest Ecology and Silvics	
FREC 3364	Environmental Silviculture	
<i>Physical Science Restricted Elective</i>		
Select one of the following:		3-4
CHEM 2514	Survey of Organic Chemistry	
CHEM 2535	Organic Chemistry	
CSES 3114	Soils	
& CSES 3124	and Soils Laboratory	
ENSC 3134	Soils in the Landscape	
GEOS 1004	Earth Science: Our Past, Present, and Future	
GEOS 3034	Oceanography	
PHYS 2205	General Physics	
PHYS 2206	General Physics	
Subtotal		17-18
Free Electives		
Select 1-3 credits		3
Subtotal		3
Pathways to General Education		

<i>Pathways Concept 1 - Discourse</i>		
ENGL 1105	First-Year Writing (1F)	3
ENGL 1106	First-Year Writing (1F)	3
ALCE 3634	Communicating Ag and Life Sciences in Speaking	3
	or COMM 2004 Public Speaking	
<i>Pathways Concept 2 - Critical Thinking in the Humanities</i>		
Select three credits in Pathway 2 (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G02)		3
Select one of the following:		3
FREC/LAR/NR	Leadership for Global Sustainability 2554	
PHIL 1304	Morality and Justice	
PHIL 2304	Global Ethics	
<i>Pathways Concept 3 - Reasoning in the Social Sciences</i>		
Select three credits in Pathway 3 (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G03)		3
Select one of the following:		3
AAEC 1005	Economics of the Food and Fiber System	
	or AAEC 1006 Economics of the Food and Fiber System	
ECON 2005	Principles of Economics	
	or ECON 200 Principles of Economics	
<i>Pathways Concept 4 - Reasoning in the Natural Sciences</i>		
BIOL 1105	Principles of Biology	3
BIOL 1106	Principles of Biology	3
<i>Pathways Concept 5 - Quantitative and Computational Thinking</i>		
Select one of the following:		6
MATH 1025	Elementary Calculus (5F)	
	or MATH 122 Calculus of a Single Variable	
MATH 1026	Elementary Calculus	
	or MATH 122 Calculus of a Single Variable	
STAT 3615	Biological Statistics (5A)	3
<i>Pathways Concept 6 - Critique and Practice in Design and the Arts</i>		
Select three credits in Pathway 6a (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G06A)		3
Select three credits in Pathway 6d (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G06D)		3
<i>Pathways Concept 7 - Critical Analysis of Identity and Equity in the United States</i>		
Select three credits in Pathway 7 (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G07)		3
Subtotal		45
Total Credits		120-122

To remain in good academic standing, a student must achieve and maintain an overall and in-major cumulative GPA of at least 2.0. Courses used for the in-major GPA computation include all those designated as FIW, FREC, GEOG, NR, and SBIO. To graduate, a student must achieve an overall and in-major cumulative GPA of at least 2.0.

In accordance with university guidelines, courses satisfying degree core requirements may not be double counted to satisfy other areas of a degree (e.g., Pathways).

By the end of the semester in which they have attempted 60 hours (including transfer, advanced placement, advanced standing, and credit by examination), students must pass the

following courses, or their equivalents, with a **grade of C - or better**: BIOL 1105, BIOL 1106, BIOL 1115, BIOL 1116, FREC 2324 and FIW 2114.

Graduation Requirements

Minimum hours for degree is 120. A minimum cumulative GPA of 2.0 is required for all work applied to the major.

Major Requirements:

1) To earn a B.S. degree in Wildlife Conservation, a student must pass the following courses, or their equivalents, with a **grade of C - or better**: BIOL 1105, BIOL 1106, BIOL 1115, BIOL 1116, FREC 2324 and FIW 2114.

There are no hidden prerequisites on this check sheet; however, course requirements may change over time, and students should always check for prerequisites for classes they select.

2) Students should consult www.fishwild.vt.edu/experiential_learning.html (http://www.fishwild.vt.edu/experiential_learning.html) for more details on how to fulfill the experiential learning requirement. Note that you will not receive credit for your experiential learning until **all** the documents related to the experience are completed and submitted, in addition to being registered for the experience. Students enrolling in FIW 2974, FIW 3964, or FIW 4974 should use the P/F option; FIW 2994, FIW 4994 and XXXX 3954 may be taken P/F or A/F

3) If you plan to apply for The Wildlife Society Associate Wildlife Biologist certification, be aware that all courses used in the certification application must be passed with a C- or better beginning with applications submitted in 2023.

Foreign Language Requirement

A sequence of two (2) foreign language courses is required for graduation unless two (2) high school units of the same foreign language or six (6) transfer credit hours of foreign language have been earned. These credits do not count toward graduation. See catalog section on "Graduation Requirements."

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