CONSERVATION BIOLOGY (B.S.)

The program requires 120 credits. Students pursuing a B.S. in Conservation Biology must receive a grade of C or better in each of the following four indicator courses to register in upper division courses in NRS/FISH/FOR/REM/WLF. BIOL 114, BIOL 213, FOR 221 or WLF 220, NR 321, and STAT 251.

Students must achieve a C or better to graduate in the following seven core courses: BIOL 421, NR 200, PHIL 452, REM 429, WLF 440, and WLF 448.

Before students are allowed to begin their senior thesis or project (NRS 485 or NRS 497), they must attend two thesis/project sessions and one senior poster presentation.

Required coursework includes the university requirements (see regulation J-3 (https://catalog.uidaho.edu/general-requirements-academic-procedures/j-general-requirements-baccalaureate-degrees/#j3)) and:

Code	Title	Hours
BIOL 114	Organisms and Environments	4
BIOL 115	Cells and the Evolution of Life	3
BIOL 115L	Cells and the Evolution of Life Laboratory	1
BIOL 213	Structure and Function Across the Tree of Life	4
BIOL 310	Genetics	3
or GENE 314	General Genetics	
BIOL 421	Advanced Evolution	3
COMM 101	Fundamentals of Oral Communication	3
ECON 202	Principles of Microeconomics	3-4
or ECON 272	Foundations of Economic Analysis	
ENGL 317	Technical Writing II	3
or WLF 370	Management and Communication of Scientific D	ata
or JAMM 328	Science Writing	
FOR 220	Forest Biology & Dendrology	3
or REM 341	Systematic Botany	
FOR 235	Society and Natural Resources	3
FOR 375	Fundamentals of Geomatics	3
MATH 160	Survey of Calculus	4
or MATH 170	Calculus I	
NR 101	Exploring Natural Resources	2
NR 200	Seminar	1-16
NR 300	Ecology and Conservation Biology Thesis Semina	ar 1
NRS 383	Natural Resource and Ecosystem Service Economics	3
PHIL 452	Environmental Philosophy	3
REM 429	Landscape Ecology	3
STAT 251	Statistical Methods	3
WLF 440	Conservation Biology	3
WLF 448	Fish and Wildlife Population Ecology	4
Select one of the	following:	3-4
BIOL 314	Ecology and Population Biology	
FOR 221/ WLF 220	Principles of Ecology	

NR 321	Ecology			
Select one of the following:				
CHEM 101	Introduction to Chemistry			
& 101L	and Introduction to Chemistry Laboratory			
CHEM 111	General Chemistry I			
& 111L	and General Chemistry I Laboratory	1		
Select one of the FISH 473	ECB Senior Presentation	1		
FOR 473	ECB Senior Presentation ECB Senior Presentation			
FOR 473 FSP 473	ECB Senior Presentation			
NRS 473	ECB Senior Presentation			
REM 473	ECB Senior Presentation			
WLF 473	ECB Senior Presentation			
Select one of the		3		
FISH 497	Senior Thesis (Max 6 credits)	3		
FOR 497	Senior Thesis (Max 6 credits)			
NR 497	Senior Thesis (Max 3 credits)			
REM 497	Senior Research and Thesis			
WLF 497	Senior Thesis (Max 6 credits)			
	itative Resource Analysis Restricted elective from	2-4		
the following:	trative resource Analysis restricted elective from	Z- 4		
ANTH 417	Social Data Analysis			
FOR 472	Remote Sensing of the Environment			
GEOG 385	Foundations of GIS			
NRS 310	Social Science Methods			
REM 410	Principles of Vegetation Monitoring and			
	Measurement 1			
REM 411	Wildland Habitat Ecology and Assessment ¹			
STAT 422	Survey Sampling Methods			
STAT 431	Statistical Analysis			
Select one Resouted following:	rce Management Restricted elective from the	3-4		
FISH 418	Fisheries Management			
FOR 410	Fire Effects and Management			
FOR 424	Silviculture Principles and Practices			
FOR 462	Watershed Science and Management			
NRS 386	Managing Complex Environmental Systems			
NRS 476	Environmental Project Management and Decision			
11110 470	Making			
NRS 490	Wilderness and Protected Area Management			
PLSC 419	Plant Community Restoration Methods			
REM 480	Ecological Restoration			
REM 456	Integrated Rangeland Management			
WLF 492	Wildlife Management			
Select 6 credits o	f Ecology Restricted electives from the following: ²	6		
BIOL 478	Animal Behavior			
ENT 469	Introduction to Forest Insects			
FISH 314	Fish Ecology			
FISH 315	Fish Ecology Field Techniques and Methods			
FISH 415	Limnology			
FISH 430	Riparian and River Ecology			
FISH 450	Ecology & Conservation of Freshwater Invertebrates			

Total Hours	92-	115
POLS 364	Politics of the Environment	
וונ פחוו	Management Matural Resource	
NRS 462 NRS 311	Natural Resource Policy Public Involvement in Natural Resource	
NRS 387	Environmental Communication Skills	
NRS 386	Managing Complex Environmental Systems	
IS 322	International Environmental Governance	
HIST 424	American Environmental History	
GEOG 420	Land, Resources, and Environment	
FOR 484	Forest Policy and Administration	
ENVS 436	Principles of Sustainability	
FOR 310	Indigenous Culture and Ecology	
ENVS 225	International Environmental Issues Seminar	
COMM 410	Conflict Management	
SOC 465	Environmental Justice	
AIST 445	Indigenous Ways of Knowing	
Select two Socia	I/Political Restricted electives from the following:	4-6
WLF 482	Ornithology	
FISH 481	Ichthyology	
BIOL 489	Herpetology	
BIOL 483	Mammalogy	
Select one Organ	ismal Biology Restricted elective from the following:	3-4
WLF 315	Techniques Laboratory	
WLF 314	Ecology of Terrestrial Vertebrates	
REM 460	Integrated Field Studies in Rangelands	
REM 459	Rangeland Ecology	
REM 440	Restoration Ecology	
PLSC 410	Invasive Plant Biology	
GEOG 430	Climate Change Ecology	
GEOG 410	Biogeography	
FOR 462	Watershed Science and Management	
FIRE 326	Fire Ecology	
FISH 451	Freshwater Invertebrate Field Methods	

Total Hours 92-115

1

Both REM 410 (https://catalog.uidaho.edu/search/?P=REM %20410) and REM 411 (https://catalog.uidaho.edu/search/?P=REM %20411) must be completed to satisfy Quantitative Resource Analysis Restricted Elective requirement.

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At least 2 credits from FISH 315, FISH 415, FISH 430, FISH 451, REM 460, and/or WLF 315.

Courses to total 120 credits for this degree

Fall Term 1		Hours
BIOL 114	Organisms and Environments	4
ENGL 101	Writing and Rhetoric I	3
MATH 143	Precalculus I: Algebra	3
NR 101	Exploring Natural Resources	2
Elective Course		1
	Hours	13
Spring Term 1		
COMM 101	Fundamentals of Oral Communication	3
ENGL 102	Writing and Rhetoric II	3

NR 200	Seminar	1
MATH 160 OR MATH 170		4
(CHEM 101 AND CHEM 10	O1L) OR (CHEM 111 AND CHEM 111L)	4
	Hours	15
Fall Term 2		
BIOL 115	Cells and the Evolution of Life	3
BIOL 115L	Cells and the Evolution of Life Laboratory	1
FOR 235	Society and Natural Resources	3
STAT 251	Statistical Methods	3
Humanistic and Artistic W	Vays of Knowing Course	3
ECON 202 OR ECON 272		3
	Hours	16
Spring Term 2		
BIOL 213	Structure and Function Across the Tree of Life	4
FOR 375	Fundamentals of Geomatics	3
NR 300	Ecology and Conservation Biology Thesis Seminar	1
BIOL 314 OR FOR 221 OR	NR 321 OR WLF 220	3
BIOL 310 OR GENE 314		3
	Hours	14
Fall Term 3		
PHIL 452	Environmental Philosophy	3
WLF 440	Conservation Biology	3
ENGL 317 OR WLF 370		3
FOR 220 OR REM 341		3
	R NRS 310 OR REM 410 OR REM 411 OR STAT 422 OR	3
STAT 431	THIS OF CHILLIA 410 CHILLIA 411 CHICIAN 422 CHI	O
	Hours	15
Spring Term 3		
BIOL 421	Advanced Evolution	3
NRS 383	Natural Resource and Ecosystem Service Economics	3
WLF 448	Fish and Wildlife Population Ecology	4
BIOL 478 OR ENT 469 OR	FISH 314 OR FISH 315 OR FISH 415 OR FISH 430 OR	3
	FOR 468 OR GEOG 410 OR PLSC 410 OR REM 440 OR	
REM 459 OR REM 460 OR	WLF 314 OR WLF 315	
COMM 410 OR ENVS 225 OR FOR 484 OR GEOG 420 OR HIST 424 OR NRS 311 OR		
NRS 386 OR NRS 387 OR	NRS 462 OR POLS 364	
	Hours	16
Fall Term 4		
American Diversity Course	e	3
International Course		3
FISH 497 OR FOR 497 OR	NR 497 OR REM 497 OR WLF 497	3
	FOR 462 OR NRS 386 OR NRS 490 OR REM 456 OR	3
WLF 492		
BIOL 483 OR BIOL 489 OR	R FISH 481 OR WLF 482	3
	Hours	15
Spring Term 4		
REM 429	Landscape Ecology	3
Humanistic and Artistic W	Vays of Knowing Course	3
Elective Course		3
FISH 473 OR FOR 473 OR	NRS 473 OR REM 473 OR WLF 473	1
	FISH 314 OR FISH 315 OR FISH 415 OR FISH 430 OR	3
	FOR 468 OR GEOG 410 OR PLSC 410 OR REM 440 OR	
REM 459 OR REM 460 OR		3
COMM 410 OR ENVS 225 OR FOR 484 OR GEOG 420 OR HIST 424 OR NRS 311 OR NRS 386 OR NRS 387 OR NRS 462 OR POLS 364		
Hours		
		16
	Total Hours	120

The degree map is a guide for the timely completion of your curricular requirements. Your academic advisor or department may be contacted for assistance in interpreting this map. This map is not reflective of your academic history or transcript and it is not official notification of completion of degree or certificate requirements. Please contact the

Registrar's Office regarding your official degree/certificate completion status.

Conservation Biology

1. Articulate disciplinary identity.

Students will convey an accurate and nuanced understanding of the unique history and character of the discipline of Conservation Biology and its distinctiveness from related disciplines, as well as their own personal rationale for matriculating within the discipline.

2. Understand principles and theories.

- a. Students will accurately articulate key principles concerning the ecology of species, populations, communities, ecosystems, and landscapes.
- b. Students will demonstrate an understanding of the interconnection between ecological systems and basic aspects of human ecology (as defined by economics, social sciences, and other related fields).
- 3. Locate, organize, analyze, and critically evaluate information.
- a. Students will demonstrate the ability to locate pertinent ecological, social, economic and political information.
- b. Students will organize, analyze, and critically evaluate information using professional, discipline-appropriate standards

4. Effectively communicate ideas and technical knowledge.

Students will effectively utilize diverse forms of communication (written oral, and visual) to convey information to scientific and nonscientific audiences in formal and professional formats.

5. Work collaboratively.

Students will practice effective team management and participatory skills (in disciplinary and interdisciplinary team settings) to evaluate complex situations and formulate solutions to basic problems

6. Practice ethical behavior.

Students will adhere to professional standards of ethics when using or synthesizing knowledge, doing research, employing field practices, engaging in conservation management, and when working with stakeholders.