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 4 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/Population Dynamics	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 Da	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	4	
Select one of the following:			
CHEM 101 & 101L	Introduction to Chemistry and Introduction to Chemistry Laboratory		
CHEM 111 & 111L	General Chemistry I and General Chemistry I Laboratory		
Select one of the	e following:	1	
FISH 473	ECB Senior Presentation		
FOR 473	ECB Senior Presentation		
FSP 473	ECB Senior Presentation		
NRS 473	ECB Senior Presentation		
REM 473	ECB Senior Presentation		
WLF 473	ECB Senior Presentation		
Select one of the	e following:	3	
FISH 497	Senior Thesis (Max 6 credits)		
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)		
Select one Quar the following:	ntitative Resource Analysis Restricted elective from	2-4	
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 Reso following:	ource 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 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	of 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		

To	tal Hours		92-11
	POLS 364	Politics of the Environment	
	NRS 311	Public Involvement in Natural Resource Management	
	NRS 462	Natural Resource Policy	
	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	
Se	elect two Social	Political Restricted electives from the following	: 4-6
	WLF 482	Ornithology	
	FISH 481	Ichthyology	
	BIOL 489	Herpetology	
	BIOL 483	Mammalogy	
Se	elect one Organi	smal Biology Restricted elective from the follow	ing: 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	
	FOR 330	Terrestrial Ecosystem Ecology	
	FISH 451	Freshwater Invertebrate Field Methods	

ital Hours 92

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	College 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 CHE	M 101L) 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 Ways of Knowing Course		
ECON 202 OR ECON 2		3
Spring Term 2	Hours	16
BIOL 213	Structure and Function Across the Tree of Life	4
FOR 375	Fundamentals of Geomatics	3
NR 300		1
	Ecology and Conservation Biology Thesis Seminar 1 OR NR 321 OR WLF 220	3
BIOL 310 OR GENE 3		3
BIOL 310 OR GENE 3	Hours	14
Fall Term 3	nouis	14
PHIL 452	Environmental Philosophy	3
WLF 440	Conservation Biology	3
ENGL 317 OR WLF 37		3
FOR 220 OR REM 341		3
	85 OR NRS 310 OR REM 410 OR REM 411 OR STAT 422 OR	3
STAT 431	30 ON NRS 310 ON REM 410 ON REM 411 ON STAT 422 ON	3
	Hours	15
Spring Term 3		
BIOL 421	Advanced Evolution/Population Dynamics	3
NRS 383	Natural Resource and Ecosystem Service Economics	3
WLF 448	Fish and Wildlife Population Ecology	4
	9 OR FISH 314 OR FISH 315 OR FISH 415 OR FISH 430 OR D OR FOR 468 OR GEOG 410 OR PLSC 410 OR REM 440 OR	3
	0 OR WLF 314 OR WLF 315	
	225 OR FOR 484 OR GEOG 420 OR HIST 424 OR NRS 311 OR 7 OR NRS 462 OR POLS 364	3
NRS 380 UR NRS 387	Hours	16
Fall Term 4	riouis	10
American Diversity Co	ourse	3
International Course		3
FISH 497 OR FOR 497 OR NR 497 OR REM 497 OR WLF 497		3
	4 OR FOR 462 OR NRS 386 OR NRS 490 OR REM 456 OR	3
WLF 492		
BIOL 483 OR BIOL 48	9 OR FISH 481 OR WLF 482	3
	Hours	15
Spring Term 4		
REM 429	Landscape Ecology	3
	tic Ways of Knowing Course	3
Elective Course		3
	3 OR NRS 473 OR REM 473 OR WLF 473	1
FIRE 326 OR FOR 330	9 OR FISH 314 OR FISH 315 OR FISH 415 OR FISH 430 OR D OR FOR 468 OR GEOG 410 OR PLSC 410 OR REM 440 OR	3
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
	Total Hours	120
		3

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, 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.