2010-2011 Course Catalog

The University Of Montana

Wildland Restoration

Bachelor of Science in Wildland Restoration

In addition to special degree requirements listed previously, the students selecting the Bachelor of Science in Wildland Restoration must complete the following required courses or their equivalent, if transferred from another college or university. Transference and equivalency will be determined by the University and College of Forestry and Conservation. Electives may be taken at any time, keeping in mind these requirements as well as the University's General Education requirements for graduation.

Wildland Restoration (Aquatic Option)

First Year	
WRIT 101 (ENEX 101) Composition	3
BIOB 160N (BIOL 110) Principles of	4
Living Systems	
GEO 101/102 (GEOS 100N/101N)	3
General Geology/Lab	
COMM 111A Intro to Public Speaking	3
CHMY 121N (CHEM 151N) Introduction	3
to General Chemistry	
CHMY 123 (CHEM 152N) Introduction	3
to Organic and Biological Chemistry	
M 171 (MATH 152) Calculus I	4
FOR/RECM/WBIO 180 Careers in	2
Natural Resources	_
FOR 200 Natural Resources	2
Measurements Camp	-
Electives and General Education	3
Second Year	
M 172 (MATH 153) Calculus II	4
FOR 201 Forest Biometrics or WBIO	3
240 Intro to Biostatistics or STAT 216	
(MATH 241) Statistics	•
FOR 265 Elements of Ecological	3
Restoration	•
WRIT 222 (FOR 220) Technical	2
Approaches to Writing	_
PHSX 215N-216N (PHYS 211N-213N)	5
Fundamentals of Physics with Calculus I & Lab or PHSX 213N-214N) (PHYS	
$1 \times Lab 011110 \times L1010 - 21410 (F1110)$	

Credits

Credits

212N-214N) Fundamentals of Physics with Calculus II & Lab		
	4	
BIOB 260/261 (BIOL 221) Cellular and	4	
Molecular Biology	4	
BIOB 275 (BIOL 223) General Genetics		
Electives and General Education	5	_
Third and Fourth Year		Credits
FOR 385 Watershed Hydrology	3	
BIOE 428/429 (BIOL 366) Freshwater	5	
Ecology and Lab		
FOR 365 Foundation of Restoration	3	
Ecology		
FOR 445 Ecological Restoration	3-6	
Practicum		
FOR 422 Natural Resource Policy &	3	
Administration		
FOR 444 Integrative Ecology	3	
Restoration		
FOR 494 Seminar in Ecological	3	
Restoration I		
Rest/Aquatic Electives - At		Credits
least nine credits must be		
completed from the following:		
BIOO 340 (BIOL 308) Biology and	4	
Management of Fishes		
FOR 455 Riparian Ecology and	3	
Management		
FOR 485 Watershed Management	3	
GEO 460 (GEOS 460) Process	4	
Geomorphology		
GEOS 431 Environmental	3	
Geochemistry		
FOR 250 GIS Practicum	2	
FOR 210N Soils	3	
GEO 260 (GEOS 260) River Systems	3	
GEO 420 (GEOS 480) Hydrogeology	3	
	3	Cradita
Rest/Aquatic Electives - At least nine credits must be		Credits
completed from the following:		
ECNS 433 Environmental Economics	2	
	3	
FOR 320 Forest Environmental	3	
Economics	0	
FOR 379 Collaboration in Natural	3	
Resource Decisions	2	
FOR 475 Sociology of Environment and	ა	
Development		

FOR/RSCN 449 Climate Change Ethics 3 and Policy

Wild Land Restoration (Terrestrial Option)

First Year		Credits
WRIT 101 (ENEX 101) Composition	3	
BIOB 160N (BIOL 110) Principles of	4	
Living Systems		
BIOO 105N (BIOL 120) Introduction to	3	
Botany		
COMM 111A Intro to Public Speaking	3	
CHMY 121N (CHEM 151N) Introduction	3	
to General and Inorganic Chemistry		
CHMY 123 (CHEM 152N) Introduction	3	
to Organic and Biological Chemistry		
M 162 (MATH 150) Calculus	4	
FOR/RECM/WBIO 180 Careers in	2	
Natural Resources		
FOR 200 Natural Resources	2	
Measurements Camp		
Electives and General Education	6	
Second Year		Credits
FOR 201 Forest Biometrics or WBIO	3	
240 Intro to Biostatistics or STAT 216		
(MATH 241) Statistics	-	
FOR 295 Elements of Ecological	3	
Restoration	_	
WRIT 222 (FOR 220) Technical	2	
Approaches to Writing	•	
FOR 210N Introductory Soils	3	
FOR 230 Forest Fire Management	3	
PHSX 205N/206N (PHYS 111N/113N)	5	
College Physics I & Lab or PHSX		
215N/216N (PHYS 211N/213N) Fundamentals of Physics with Calculus		
I & Lab		
BIOB 260 (BIOL 221) Cellular and	4	
Molecular Biology and Lab	4	
BIOB 275 (BIOL 223) General Genetics	4	
Electives and General Education	4-5	
Third and Fourth Year	- 0	Credits
FOR 330 Forest Ecology or BIOL 340	3	Oreuna
Ecology	0	
FOR 385 Watershed Hydrology	3	
i en ooo watershed Hydrology	0	

FOR 445 Ecological Restoration	3-6
Practicum	
FOR 444 Integrative Ecology	3
Restoration	3
FOR 422 Natural Resource Policy & Administration	5
FOR 365 Foundation of Restoration	3
Ecology	•
FOR 494 Seminar in Ecological	1
Restoration	
BIOO 335 (BIOL 350) Rocky Mountain	3
Flora	
Rest/Terrestrial Electives: At least	
nine credits must be completed from:	2
BIOO 320 (BIOL 316) General Botany	3
FOR 335 Environmental Entomology	3
FOR 250 GIS Practicum	2
FOR 331 Fuels Management	3
FOR 415 Environmental Soil Science	3
FOR 485 Watershed Management	3
FOR 360 Range Management	3
FOR 462 Range Ecology	3
BIOO 433 (BIOL 444) Plant Physiology	3
BIOE 448 (BIOL 448) Terrestrial Plant Ecology	3
WBIO 370 Wildlife Habitat Conservation	3
and Management	2
WBIO 470 Conservation of Wildlife Populations	3
BIOM 430 (MICB 423) Applied &	3
Environmental Microbiology	-
Electives and General Education	26
Rest/Social-Science	
Electives: At least three	
credits must be completed from:	_
ECNS 433 Environmental Economics	3
FOR 320 Forest Economics	3
FOR 379 Collaboration in Natural	3
Resource Decisions	0
FOR 475 Sociology of Environment and Development	3
FOR/RSCN 449 Climate Change Ethics	3
and Policy	~

Wild Land Restoration Minor

To earn a minor in Wild Land Restoration, students must fulfill the course requirements listed below.

Minor in Wildland Restoration (new	
requirements as of Autumn 2009)	
FOR 265 Elements of Ecological	3
Restoration	
FOR 365 Foundations of Restoration	3
Ecology	
FOR 330 Forest Ecology or BIOL 340	3
Ecology or BIOL 366 Fresh Water	
Ecology	
FOR 201 forest Biometrics or WBIO	3-4
240 Introduction to Biostatistics or	
STAT 216 (MATH 241) Statistics	
FOR 210N Introductory Soils	3
BIOO 335 (BIOL 350) Rocky Mountain	3
Flora or FOR 385 Watershed Hydrology	
Three credits from the follow	ing Natural Science Electives:
BIOO 340 (BIOL 308) Biology &	3
Management of Fishes	
BIOO 335 (BIOL 350) Rocky Mountain	3
Flora	
BIOE 448 (BIOL 448) Terrestrial Plant	3
Ecology	
WBIO 370 Wildfire Habitat	3
Conservation	
WBIO 470 Conservation of Wildlife	3
Populations	
FOR 331 Wildland Fuel Management	3
FOR 335 Environmental Entomology	3
FOR 347 Silviculture	3
FOR 360 Range Management	3
FOR 385 Watershed Hydrology	3
Three credits from the following Social	
Science Electives: (If one of the proposed	
social science electives also is required for the students major degree, a second	
social science elective must be taken)	
FOR 422 Natural Resource Policy &	3
Administration	
FOR 489E Ethics & Management of	3
Public Lands	
FOR 379 Collaboration in Natural	3
Resource Decisions	

FOR 475 Sociology of Environment & 3 Development FOR/RSCN 449 Climate Change Ethics 3 & Policy FOR 482 Wilderness & Protected Areas 3 Management