

COLORADO STATE UNIVERSITY
 Department of Forest & Rangeland Stewardship
MAJOR IN RANGELAND ECOLOGY - Restoration Ecology

*****NEW PROGRAM REQUIREMENTS*****

Effective for all new students beginning Fall 2015 or later. Students who have started prior to Fall 2015 have the option of completing their degree under the old OR the new requirements. See your advisor for further details.

DEGREE REQUIREMENTS: 120 credits; including 42 credits at 300-400 level; 2.0 GPA. Students are also responsible for knowing and meeting requirements in the University catalog (AUCC Category courses) and verifying all information on this form as course information changes frequently.

Name of Student: _____

Advisor: _____

FRESHMAN YEAR			Semester Offered	Prerequisites	Credits	AUCC Category
_____	NR 193	First Semester Seminar	F, S	Required for all first semester (at CSU) students in Forest & Rangeland Stewardship	1	
_____	BZ 120	Principles of Plant Biology	F, S		4	3A
_____	CHEM 107	Fundamentals of Chemistry	F, S	MATH 117 or higher or concurrent registration in MATH 118 or higher	4	3A
_____	CHEM 108	Fundamentals of Chemistry Lab	F, S	CHEM 107 (or concurrent)	1	3A
_____	CO 150	College Composition	F, S	test or scores	3	1A

Select three credits from the following:

_____	MATH 141	Calculus in Management Sciences	F, S	MATH 118 or test	3	
_____	MATH 117	College Algebra in Context I	F, S	test or scores	1	
_____	MATH 118	College Algebra in Context II	F, S	MATH 117 or Mathematics Placement Examination or Mathematics Challenge Examination MATH 118 or Mathematics Placement Examination or Mathematics Challenge Examination	1	1B
_____	MATH 125	Numerical Trigonometry	F,S	Mathematics Placement Examination or Mathematics Challenge Examination	1	
_____		Arts & Humanities			3 & 3	3B
_____		Global and Cultural Awareness			3	3E
_____		Electives			4	

SOPHOMORE YEAR			Semester Offered	Prerequisites	Credits	AUCC Category
_____	SPCM 200	Public Speaking	F, S		3	
_____	FW 104 -OR- NR 300	Wildlife Ecology & Conservation Biological Diversity	F, S S	NR 120 or NR 120B or one course in biology	3	

	RS 300	Rangeland Conservation & Stewardship	F	BZ 120 or LIFE 102	3	
	LIFE 220/LAND 220 -OR- LIFE 320	Fundamentals of Ecology Ecology	F F, S	3 credits of 100-level biology or HORT 100; 3 credits of 100-level MATH. BZ 120 or similar, MATH 141 or 155 or 160	3	
	BZ 223	Plant Identification	F	BZ 120 or LIFE 103	3	
	AREC 202 -OR- ECON 202	Agricultural and Resource Economics Principles of Microeconomics	F, S F, S	MATH 117 or concurrent registration MATH 117 or higher	3	3C 3C
	SOCR 240	Intro to Soil Science	F, S	CHEM 107 or similar	4	
	STAT 301 -OR- STAT 307	Intro to Statistical Methods Introduction to Biostatistics	F, S F, S	MATH 117 MATH 117	3	
	RS 310	Forest and Rangeland Ecogeography	F, S	BZ 120 or similar, and concurrent enrollment in RS 312	3	
	RS 312	Rangeland Plant ID Lab	F	Concurrent enrollment in RS 310	1	
SUMMER						
	NR 220	Natural Resources Ecology & Measurements	SS	BZ 110 and BZ 111 or BZ 120 or LIFE 103; MATH 118 or one course from MATH 141 to 161, or one course from MATH 229 or higher	5	
	RS 329	Rangeland Assessment	SS	SOCR 240; RS 300; RS 310 and RS 312	1	
JUNIOR YEAR						
	BSPM 308	Ecology and Management of Weeds	F	BZ 120 or LIFE 102; CHEM 107 or CHEM 111	4	
	CO 300 -OR- CO 301B -OR- JTC 300	Writing Arguments Writing in the Disciplines-Sciences Prof & Tech Communication	F, S F, S F, S	CO 150 or HONR 193 CO 150 or HONR 193 CO 150 or HONR 193	3	2
	NR 320	Nat Resources History & Policy	F, S		3	3D
	NR 319 -OR- NR 322	Geospatial Applications in NR Introduction to Geographic Information Systems	F, S F	junior standing	4	
	RS 351	Wildland Ecosystems in a Changing World	F	LIFE 220 or LIFE 320; SOCR 240	3	4A, 4B

	WR 304	Principles of Watershed Management	F, S	Completion of the AUCC 1B mathematics requirement	3	
SELECT TWO OF THE FOLLOWING:						
	BZ 440	Plant Physiology	S	BZ 120 or LIFE 103	3	
	SOCR 341	Microbiology for Sustainable Agriculture	S (even yrs)	SOCR 240	1	
	SOCR 350	Soil Fertility Management	F	SOCR 240	3	
	SOCR 440	Pedology	F		4	
	SOCR 442	Forest and Range Soils	S		3	
	SOCR 455	Soil Microbiology	F	MIP 300 or SOCR 240	3	
	SOCR 456	Soil Microbiology Laboratory	F	SOCR 455 or concurrent registration	1	
	SOCR 467	Soil and Environmental Chemistry	S	CHEM 335	3	
	SOCR 470	Soil Physics	F	SOCR 240 or GEOL 232	3	
	SOCR 471	Soil Pohnics Laboratory	F	SOCR 470 or concurrent registration	1	

SENIOR YEAR			Semester Offered	Prerequisites	Credits	AUCC Category
	RS 432	Rangeland Measurements and Monitoring	F	NR 220; RS 300; STAT 201 or 301 or 307	2	
	BZ 450 -OR- BZ 471	Plant Ecology Stream Biology and Ecology	S F (odd years)	LIFE 103 or BZ 120 LIFE 320 or LIFE 220	4 3	
	NR 420	Integrated Ecosystem Mgmt.	F, S	Ecology, NR 220, NR 320, senior standing, NR 319	4	4C
	RS 452	Rangeland Herbivore Ecology and Management	F, S	RS 300; LAND 220 or LIFE 220	3	4B
	RS 478	Restoration Ecology	S	BZ 450 or F 311 or LIFE 220; SOCR 240	3	4A
		Electives			5-9	
SELECT TWO OF THE FOLLOWING:						
	F 311	Forest Ecology	F, S	Ecology		
	F 325	Silviculture	S	F 230; F 311; NR 220		
	F 324	Fire Effects and Adaptations	S	Ecology		
	F 424	Wildland Fire Behavior and Management	F	Ecology	3	
	F 425	Advanced Wildland Fire Mgmt.	S	F 424, NR 319		
	NR 326	Forest Vegetation Management	F	NR 220		

NOTE: MATH 117, MATH 118 and MATH 124 are considered review courses, but are enforced prerequisites for some courses.