



B.S. Restoration Ecology

Renew and Restore

Degree Checklist

*Restore and rehabilitate
altered ecosystems using
ecological processes and
human intervention.*



FOREST AND RANGELAND
STEWARDSHIP
COLORADO STATE UNIVERSITY

A part of Warner College of Natural Resources

Major in Restoration Ecology

FRESHMAN YEAR

					AUCC	
Course		Semester	Prerequisites	Credits	Category	
—	F 101	Intro to Forest and Rangeland Stewardship	F	---	1	---
—	NR 193	First Semester Seminar	F, S	Required for all first semester CSU students in FRS	1	---
—	BZ 120	Principles of Plant Biology	F, S	---	4	3A
—	CHEM 107	Fundamentals of Chemistry	F, S, SS	MATH 117 or higher or test	4	3A
—	CHEM 108	Fundamentals of Chemistry Lab	F, S, SS	CHEM 107 or concurrent enrollment	1	3A
—	CO 150	College Composition	F, S, SS	Test or scores or CO 130	3	1A
—		Arts & Humanities			3+3	3B
—		Diversity, Equity, Inclusion			3	1C
—		Historical Perspectives			3	3D
Choose 3 credits from the following:						
—	MATH 141	Calculus in Management Sciences	F, S, SS	MATH 118 or test	3	1B
—	MATH 117	College Algebra in Context I	F, S, SS	Math Placement Tool or Entry Level Math Tutorials	1	1B
—	MATH 118	College Algebra in Context II	F, S, SS	MATH 117 or Math Placement Tool	1	1B
—	MATH 125	Numerical Trigonometry	F, S, SS	MATH 118 or Math Placement Tool	1	1B

SOPHOMORE YEAR

—	FW 104 -or- NR 300	Wildlife Ecology and Conservation Biological Diversity	F, S S	--- NR 120 or one biology course	3	---
—	RS 300	Rangeland Conservation and Stewardship	F	BZ 120 or LIFE 102	3	---
—	BZ 223	Plant Identification	F, SS	BZ 120 or LIFE 103	3	---
—	F 209	Intro to Forest and Rangeland Ecology	F	Three credits of BZ or LIFE and MATH 118 or higher	3	---
—	SOCR 240	Introductory Soil Science	F, S	CHEM 107 or higher	4	---
—	SPCM 200	Public Speaking	F, S, SS	---	3	---
—	STAT 301 or STAT 307	Introduction to Statistical Methods Introduction to Biostatistics	F, S, SS F, S, SS	MATH 117 or higher MATH 117 or higher	3	---
—	RS 312	Rangeland Plant ID lab	F	BZ 120 or intro biology course	1	---
—		Social and Behavioral Sciences			3	3C
—		Electives ¹			4	

SUMMER SESSION (CSU Mountain Campus)

—	NR 220	Natural Resource Ecology and Measurements	SS	BZ 110 and BZ 111 or BZ 120 or LIFE 103 MATH 118 or higher	5	---
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JUNIOR YEAR

—	BSPM 308	Ecology and Management of Weeds	F	BZ 120 or LIFE 102; CHEM 107 or 111	3	---
—	CO 300 -or- CO 301B -or- JTC 300	Writing Arguments Writing in the Disciplines - Science Professional and Technical Communications	F, S, SS F, S F, S, SS	CO 150 or HONR 193 CO 150 or HONR 193 CO 150 or HONR 193	3	2
—	NR 320	Natural Resources History and Policy	F, S	Junior Standing	3	---
—	NR 319	Introduction to Geospatial Science	F, S	---	4	---
—	F 311	Forest Ecology	F, S	F 209 or LIFE 220/320	3	---
—	WR 204	Sustainable Watersheds	F, S	---	3	3A
—	RS 378	Disturbance Ecology	S	F 209 or LIFE 220/320	2	---
Select one of the following courses:						
—	BZ 440	Plant Physiology	S	BZ 120 or LIFE 103	3	---
—	HORT 260	Plant Propagation	S, SS	BZ 120 or HORT 100 or LIFE 103	4	---
—	HORT 321	Nursery Production and Management	S	BZ 120 or HORT 100 or LIFE 103	4	---

¹ Degree Requirements: 120 credits (42 credits at 300-400 level); 2.0 GPA Students are responsible for knowing and meeting requirements in the University catalog (AUCC courses). *Verify all information on this form regularly as course information can change frequently.

SENIOR YEAR

AUCC

Course	Semester	Prerequisites	Credits	AUCC Category
— RS 432 Rangeland Measurements and Monitoring	F	NR 220, RS 300 or concurrent, STAT 201, 301 or 307	2	---
— BZ 450 Plant Ecology	S	LIFE 103 or BZ 120	4	---
— -or- BZ 471 Stream Biology and Ecology	F (odd)	F 209 or LIFE 220/320	3	---
— NR 477 Restoration Case Studies Field Tour	F	F 209 or LIFE 220/320 and NR 326 or F 311 or RS 300	1	4C
— RS 478 Ecological Restoration	S	BZ 450 or F 209 or LIFE 220/320 and SOCR 240	3	4A, 4B
— NR 479 Restoration Case Studies	F	NR 326 or F 311 or RS 300; F 209	2	4C
— Electives ¹			10-14	---
Select one of the following courses				
F 324 Fire Effects and Adaptation	S	F 209 or LIFE 220/320	3	---
F 325 Silviculture	S	NR 220	3	---
— F 326 Wildland Fire Behavior and Management	F	F 209 or LIFE 220/320	3	---
F 425 Advanced Wildland Fire Management	S	F 326 and NR 319	3	---
Select one of the following courses				
SOCR 341 Microbiology for Sustainable Agriculture	S (even)	SOCR 240	1	---
SOCR 350 Soil Fertility Management	S	CHEM 107 and 108 or 111 or 112, and 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 enrollment	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 Physics Laboratory	F	SOCR 470 or concurrent enrollment	1	---

F = Fall S = Spring SS = Summer Session

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

¹ Select elective credits to bring the program total to 120+ credits. (42+ must be upper-division (300- to 400-level))

