



Master of Natural Resources Stewardship Degree

Active Stewards

On-Campus and Online Program Requirements

Gain a broad natural resources education and specialized resource management expertise to be an active steward of forest and rangeland ecosystems.

The Master of Natural Resources Stewardship (MNRS) degree is a coursework-intensive, professional master's degree for students with some prior natural resources or agriculture experience. The MNRS degree does not require a thesis, project, or final examination. The length of time required to complete the program depends on the student's background, desired courses, and whether full-time or part-time enrollment is chosen.



FOREST AND RANGELAND
STEWARDSHIP
COLORADO STATE UNIVERSITY

A part of Warner College of Natural Resources

Master of Natural Resources Stewardship

PROGRAM NOTE:

Forest Sciences, Rangeland Ecology and Management, Ecological Restoration	On-Campus or Online
Western Ranch Management and Ecosystem Stewardship	On-Campus Only

TABLE 1. MNRS CORE REQUIREMENTS

Course	Campus	Online	Prerequisite	Credits
NR 578 Ecology of Disturbed Lands	S	F, S	Ecology	3
NR 566 -or- Natural Resources Inventory and Data Analysis	---	F, S	Statistics	3
RS 532 -or- Rangeland Ecosystem Sampling	F	---	Ecology and Statistics	3
F 575 Monitoring for Advanced Silviculture	---	F	F 571, Statistics	2
NR 567 Analysis of Environmental Impact	F	F, S	---	3
NR 693 -or- Natural Resources Stewardship Seminar	F	F, S	---	2
F 592 Advanced Silviculture Seminar	---	F	---	1
MNRS Specialization Requirements (Choose one from Table 2)				9-10
Electives (bring credit total to 30)				9-10
TOTAL PROGRAM CREDITS				30

TABLE 2. MNRS SPECIALIZATION REQUIREMENTS - SELECT ONE*

FOREST SCIENCES (choose 9 credits)	Campus	Online	Prerequisite	Credits
F 466 Urban and Community Forestry	F (odd)	---	Ecology	3
F 510 Ecophysiology of Trees	S (even)	---	Plant Physiology	3
F 521 Advanced Quantitative Methods in Forestry	F (odd)	---	Forestry, statistics	3
F 524 Forest Fire Meteorology and Behavior	S	---	Physics	3
F 571 Applied Forest Ecology	---	F	Ecology	2
F 572 Advanced Silviculture Practices	---	S	Forest Ecology	3
F 574 Climate Adaptive Forest Management	---	F	Ecology	1
F 610 Advanced Forest Ecology	S (odd)	---	Ecology	3
F 624 Fire Ecology	F (odd)	S	Ecology	3
SOCR 442 Forest and Range Soils	S	---	---	3
RANGELAND ECOLOGY AND MANAGEMENT (choose 9 credits)	Campus	Online	Prerequisite	Credits
RS 452 Rangeland Herbivore Ecology and Management	S	F	Ecology	3
RS 500 Advanced Rangeland Management	---	S	Ecology	3
RS 630 Ecology of Grasslands and Shrublands	---	S	Ecology	3
<i>No more than two of the following:</i>				
SOCR 440 Pedology	F	---	---	4
SOCR 442 Forest and Range Soils	S	---	---	3
SOCR 455 Soil Microbiology	F	---	Soil Science	3
SOCR 540 Soil-Plant Nutrient Relationships	S (even)	---	Soil Science	3
ECOLOGICAL RESTORATION (choose 9 credits)	Campus	Online	Prerequisite	Credits
BSPM 551 Advanced Integrated Pest Management	S	---	Pest/Weed Management	4
BSPM/BZ 526 Evolutionary Ecology	F (odd)	---	Ecology	3
BSPM 528 Invasive Plants/Weeds to Ecosystems	S	---	Ecology	3
BZ 572 Phytoremediation	F (odd)	---	Plant Biology	3
CIVE 613 River Restoration Design	S	---	Hydraulic Engineering	3
ECOL 505 Foundations of Ecology	F	---	Ecology	2
FW 568 Sustaining River Ecosystems in A Changing World	S	---	---	3
NR 577 Wetland Ecology and Management	---	F	Ecology	3
NR 678 Advanced Ecological Restoration	S	F, S	Ecology	4
SOCR 567 Environmental Soil Chemistry	S	---	Chemistry and Statistics	4
SOCR 441 Soil Ecology	S (odd)	---	Soil Science	3
<i>No more than one of the following:</i>				
F 624 Fire Ecology	F (odd)	S	Ecology	3
NR 552 Ecology of Military Lands	---	S	NR 550	3
RS 630 Ecology of Grasslands and Shrublands	---	S	Ecology	3

F = Fall S = Spring
SS = Summer

*Specialization Requirements continue on back page

Note: A minimum of 24 credits must be earned at Colorado State University, of which at least 21 credits must be in 500-level or higher courses.

WESTERN RANCH MANAGEMENT AND ECOSYSTEM STEWARDSHIP (19 credits)

		Campus	Online ¹	Prerequisite	Credits
NR 536	Ranch Management and Stewardship Field Course	SS	---	Agriculture or Natural Resources	4
NR 537	Western Ranch Mgmt. and Ecosystem Stewardship Seminar	F	---	Agriculture or Natural Resources	1
NR 538	Skills in Ranch Management	F	---	NR 536	2
NR 539	Western Ranch Assessment and Planning	F, S, SS	---	NR 536, NR 537 and NR 538	3
RS 452	Rangeland Herbivore Ecology and Management	S	F	Ecology	3
Choose 6 directed elective credits from the following list (selected in consultation with advisers): *SEE FOOTNOTE					
AGRI 631	Building the Business	---	F, S	---	3
AGRI 633	Understanding and Managing Animal Resources	---	SS	---	3
AGRI 634	Animal Production Systems	---	S	---	3
AGRI 635	Integrated Forage Management	---	F	---	3
AGRI 637	Understanding Policy and Emerging Issues	F, S	S	---	3
AGRI 638	Ecosystem Services on Agricultural Lands	F, S	---	---	3
AGRI 639	Products to Profits	---	F, S	---	3
AREC 342	Water Law, Policy and Institutions	S	---	---	3
AREC 375	Agricultural Law	F	F	---	3
ESS 501	Principles of Ecosystem Sustainability	F	---	Biology, Ecology, or Chemistry	3
F 325	Silviculture	S	---	Forest Ecology	3
F 510	Ecophysiology of Trees	S (even)	---	Physiology	3
F 610	Advanced Forest Ecology	S (odd)	---	Ecology	3
FW 553	Adaptive Fish and Wildlife Management	---	S (odd)	Wildlife Management or Ecology and Statistics	3
FW 557	Wildlife Habitat Management on Private Land	---	S	---	3
FW/BZ 568	Sustaining River Ecosystems in a Changing World	S	---	---	3
NR 505	Concepts in Global Information Systems (GIS)	F	---	Statistics	4
NR 515	Natural Resources Policy and Biodiversity	---	S	Political Science and Natural Resources	3
NRRT 548	Agritourism Enterprise Management	---	S	---	2
RS 329	Rangeland Assessment	SS	---	Ecology	1
RS 500	Advanced Rangeland Management	---	S	Ecology	3
SOCR 441	Soil Ecology	S	---	Soil Science	3
SOCR 442	Forest and Range Soils	S	---	---	3

*Note that course availability and timing of offer may fluctuate.

¹ WRMES students should primarily select on-campus courses, but they may take some electives online.