MAJOR IN FOREST AND RANGELAND STEWARDSHIP, FOREST MANAGEMENT CONCENTRATION

The Forest Management concentration in the Forest and Rangeland Stewardship major provides forestry education that spans the entire range of experiences necessary to understand and manage forests. Curricula include a background in the biological, physical, social, and management sciences, followed by professional forestry courses. More specifically, this concentration is designed to instill an understanding of the basic principles of forest ecology and forest management. Although many students go on to graduate studies, the program is primarily intended for students interested in managing forestlands.

Requirements Effective Fall 2024

Freshman			
		AUCC	**Credits**
BZ 120	Principles of Plant Biology (GT-SC1)	3A	4
CHEM 107	Fundamentals of Chemistry (GT-SC2)	3A	4
CHEM 108	Fundamentals of Chemistry Laboratory (GT-SC1)	3A	1
CO 150	College Composition (GT-CO2)	1A	3
F 101	Intro to Forest and Rangeland Stewardship		1
MATH 141	Calculus in Management Sciences (GT-MA1)	1B	3
NR 193	FRS First Semester Seminar		1
SPCM 200	Public Speaking		3
1C (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#aucc)		1C	3
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)		3B	6
	Total Credits		**29**
Sophomore			
ECON 202	Principles of Microeconomics (GT-SS1)	3C	3
F 209	Introduction to Forest and Rangeland Ecology		3
GR 204/WR 204	Sustainable Watersheds (GT-SC2)	3A	3
RS 313/F 313	Dendrology and Herbaceous Plant ID		3
SOCR 240	Introductory Soil Science		4
STAT 301	Introduction to Applied Statistical Methods		3
Historical Perspectives (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)		3D	3
Electives			5
	Total Credits		**27**
Summer			
F 230	Forestry Field Measurements		2
NR 220	Natural Resource Ecology and Measurements		5
	Total Credits		**7**
Junior			
F 311	Forest Ecology		3
F 321	Forest and Natural Resource Biometry		3
F 322	Economics of the Forest Environment		3
F 325	Silviculture		3
F 330	Forest Planning and Wood Harvesting Systems		2
F 335	Applications of Silviculture		1
JTC 300	Strategic Writing and Communication (GT-CO3)	2	3
NR 319	Introduction to Geospatial Science		4
NR 320	Natural Resources History and Policy		3
RS 300	Rangeland Conservation and Stewardship		3

Directed Electives (Select a minimum of 3 credits from the following):		3
F 425	Advanced Wildland Fire Behavior and Management	
F 430	Forestry Field Practices	
FW 260	Principles of Wildlife Management	
GR 323/NR 323	**Remote Sensing and Image Interpretation**	
HIST 355	American Environmental History	
HORT 464A	Arboriculture	
NR 312	Applied Insect Ecology	
NR 321	Natural Resource Rights and Reconciliation	
NR 400	Public Communication in Natural Resources	
NR 423	Applications of Global Positioning Systems	
NR 444	Fire Economics and Policy	
PHIL 345	Environmental Ethics	
POLS 361	U.S. Environmental Politics and Policy	
RS 312	Rangeland Plant Identification Lab	
RS 329	Rangeland Assessment	
RS 351	Wildland Ecosystems in a Changing World	
RS 432	Rangeland Measurements and Monitoring	
RS 452	Rangeland Herbivore Ecology and Management	
RS 478	Ecological Restoration	
SOC 320	Population-Natural Resources and Environment	
SOCR 440	Pedology	
	Total Credits	**31**

Senior

BSPM 365	Integrated Tree Health Management		4
F 326	Wildland Fire Behavior and Management		3
F 421	Ecological Forest Management	4A,4C	3
F 422	Quantitative Methods in Forest Management		3
NR 425	Natural Resource Policy and Sustainability	4B	3
Directed Electives (Select three credits from list in junior year not previously taken)			3
Electives[1]			7
	Total Credits		**26**
	Program Total Credits:		**120**

[1] Select enough elective credits to bring the program total to a minimum of 120 credits, of which at least 42 must be upper-division (300- to 400-level).

Major Completion Map

Freshman

Semester 1		**Critical**	**Recommended**	**AUCC**	**Credits**
BZ 120	Principles of Plant Biology (GT-SC1)	X		3A	4
CO 150	College Composition (GT-CO2)	X		1A	3
F 101	Intro to Forest and Rangeland Stewardship	X			1
NR 193	FRS First Semester Seminar	X			1
1C (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#aucc)		X		1C	3
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)			X	3B	3
MATH 117 and MATH 118 must be completed by the end of Semester 1.		X			
	Total Credits				**15**

Semester 2		Critical	Recommended	AUCC	Credits
CHEM 107	Fundamentals of Chemistry (GT-SC2)	X		3A	4
CHEM 108	Fundamentals of Chemistry Laboratory (GT-SC1)	X		3A	1
MATH 141	Calculus in Management Sciences (GT-MA1)	X		1B	3
SPCM 200	Public Speaking	X			3
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)			X	3B	3
CO 150 must be completed by the end of Semester 2.		X			
	Total Credits				**14**
Sophomore					
Semester 3		**Critical**	**Recommended**	**AUCC**	**Credits**
ECON 202	Principles of Microeconomics (GT-SS1)	X		3C	3
F 209	Introduction to Forest and Rangeland Ecology	X			3
RS 313/F 313	Dendrology and Herbaceous Plant ID	X			3
Electives			X		5
	Total Credits				**14**
Semester 4		**Critical**	**Recommended**	**AUCC**	**Credits**
GR 204/WR 204	Sustainable Watersheds (GT-SC2)	X		3A	3
SOCR 240	Introductory Soil Science	X			4
STAT 301	Introduction to Applied Statistical Methods	X			3
Historical Perspectives (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)			X	3D	3
	Total Credits				**13**
Semester 5		**Critical**	**Recommended**	**AUCC**	**Credits**
F 230	Forestry Field Measurements	X			2
NR 220	Natural Resource Ecology and Measurements	X			5
	Total Credits				**7**
Junior					
Semester 6		**Critical**	**Recommended**	**AUCC**	**Credits**
F 311	Forest Ecology	X			3
F 321	Forest and Natural Resource Biometry	X			3
JTC 300	Strategic Writing and Communication (GT-CO3)	X		2	3
NR 320	Natural Resources History and Policy	X			3
RS 300	Rangeland Conservation and Stewardship	X			3
	Total Credits				**15**
Semester 7		**Critical**	**Recommended**	**AUCC**	**Credits**
F 322	Economics of the Forest Environment	X			3
F 325	Silviculture	X			3
F 330	Forest Planning and Wood Harvesting Systems	X			2
F 335	Applications of Silviculture	X			1
NR 319	Introduction to Geospatial Science	X			4
Directed Electives (See List on Concentration Requirements Tab)		X			3
	Total Credits				**16**
Senior					
Semester 8		**Critical**	**Recommended**	**AUCC**	**Credits**
BSPM 365	Integrated Tree Health Management	X			4
F 326	Wildland Fire Behavior and Management	X			3
F 421	Ecological Forest Management	X		4A,4C	3
F 422	Quantitative Methods in Forest Management	X			3
	Total Credits				**13**
Semester 9		**Critical**	**Recommended**	**AUCC**	**Credits**
NR 425	Natural Resource Policy and Sustainability	X		4B	3

Directed Electives (See List on Concentration Requirements Tab)	X	3
Electives	X	7
The benchmark courses for the 9th semester are the remaining courses in the entire program of study.	X	
Total Credits		**13**
Program Total Credits:		**120**