# **B.S. Forest and Rangeland Stewardship**

# **Forest Fire Science Concentration**

## Fight Fire with Fire

# Degree Checklist

Accredited by the Society of American Foresters

Certified by the Association for Fire Ecology

Gain understanding about the natural benefits of fire and its use as a forest management tool.



FOREST AND RANGELAND STEWARDSHIP COLORADO STATE UNIVERSITY



A part of Warner College of Natural Resources

# Major in Forest and Rangeland Stewardship Forest Fire Science Concentration

	FRESHMA	N YEAR				AUCC
	Course		Semester	Prerequisites	Credits (	Category
	F 101	Intro. to Forest and Rangeland Stewarship	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
	PH 110	Descriptive Physics	F, S		3	3A
	MATH 141	Calculus in Management Sciences <sup>1</sup>	F, S, SS	MATH 118 or test	3	1B
	SPCM 200	Public Speaking	F, S, SS		3	
		Arts & Humanities			3 + 3	3B
		Diversity, Equity, and Inclusion			3	1C

<sup>1</sup> Students considering graduate study in Forest Fire Science should substitute MATH 155 - 255 or MATH 160-161 (with appropriate prerequisites) for MATH 141.

SUPHUMURE YEAR	

 ATS 350	Introduction to Weather and Climate	F		2	
 F 209	Intro to Forest and Rangeland Ecology	F	Three credits of BZ or LIFE and MATH 118 or higher	3	
 STAT 301	Introduction to Statistical Methods	F, S, SS	MATH 117 or higher	3	
 SOCR 240	Introductory Soil Science	F, S	CHEM 107 or higher	4	
 ECON 202	Principles of Microeconomics	F, S, SS	MATH 117 or higher	3	3C
or AREC 202	2 Agricultural and Resource Economics	F, S	MATH 117 or concurrent enrollment		
 F 312	Dendrology Lab	F, S	BZ 120 or intro biology course	2	
 RS 300	Rangeland Stewardship and Conservation	F	BZ 120 or LIFE 102	3	
	Historical Perspectives			3	3D

# SUMMER FIELD COURSES (CSU Mountain Campus)

 NR 220	Natural Resource Ecology and	SS	BZ 110 and 111; or BZ 120 or LIFE 103	5	
	Measurements		MATH 118 or higher		
 F 230	Forestry Field Measurements	SS		2	

### JUNIOR YEAR

 BSPM 365	Integrated Tree Health Management	F	BZ 120 or equivalent	4	
 CO 300	Writing Arguments	F, S, SS	CO 150 or HONR 193		
-or- CO 301B	Writing for the Disciplines - Science	F, S	CO 150 or HONR 193	3	2
-or- JTC 300	Professional and Technical Communication	F, S, SS	CO 150 or HONR 193		
 F 311	Forest Ecology	F, S	F 209 or LIFE 220/320	3	
 F 321	Forest and Natural Resource Biometry	F	MATH 117+ (3+ cr); and NR 220; and STAT 201 or 301	3	
 F 322	Economics of the Forest Environment	F, S	ECON 202 or equivalent	3	
 F 324	Fire Effects and Adaptations	S	F 209 or LIFE 220/320	3	
 F 325	Silviculture	S	NR 220	3	
 F 330	Forest Planning and Wood Harvesting Systems	S	F 321	2	
 F 335	Applications of Silviculture	S	F 325 or concurrent enrollment	1	
 NR 319	Introduction to Geospatial Science	F, S		4	
 NR 320	Natural Resources History and Policy	F, S	Junior Standing	3	

#### SENIOR YEAR

 F 421	Ecological Forest Management	F	F 311, 321, 325, and 335	3	4A, C
 F 422	Quantitative Methods in Forest Management	F	F 321 and 322	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	
 NR 425	Natural Resource Policy and Sustainability	S	NR 320	3	4B
 NR 444	Fire Economics and Policy	F	ECON 202 or equivalent	3	
 WR 204	Sustainable Watersheds	F, S		3	3A
	Electives <sup>2</sup>			3	

<sup>2</sup> 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).

#### 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.



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