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

# Forest Biology Concentration

Plant the Seed

# Degree Checklist

Accredited by the Society of American Foresters

See the microscopic and macroscopic value of forests and learn how each element interacts with others in their environment.



FOREST AND RANGELAND STEWARDSHIP COLORADO STATE UNIVERSITY



A part of Warner College of Natural Resources

## Major in Forest and Rangeland Stewardship Forest Biology Concentration

### FRESHMAN YEAR

Course		Semester	Prerequisites	Credits	AUCC Category
F 101 NR 193 BZ 120 CHEM 107 CHEM 108 CO 150 MATH 155 SPCM 200	Intro to Forest and Rangeland Stewardship First Semester Seminar Principles of Plant Biology Fundamentals of Chemistry Fundamentals of Chemistry Lab College Composition Calculus in Biological Sciences Public Speaking Arts & Humanities Diversity, Equity, and Inclusion	F F, S F, S F, S, SS F, S, SS F, S, SS F, S, SS F, S, SS	 Required for all first semester CSU students in FRS  MATH117 or higher or test CHEM 107 or concurrent enrollment test or scores, or CO 130 MATH 124 <i>and</i> 125 or test 	1 1 4 1 3 4 3+3 3+3 3	 3A 3A 3A 1A 1B  3B 1C
SOPHOMOR	REYEAR				
F 209 CHEM 245 ECON 202 or AREC 202 F 312 PH 121 SOCR 240 STAT 301	Intro to Forest and Rangeland Ecology Fundamentals of Organic Chemistry Principles of Microeconomics Agricultural and Resource Economics Dendrology General Physics I Introduction to Soil Science Introduction to Statistical Methods Historical Perspectives	F F, S, SS F, S, SS F, S F, S F, S F, S	Three credits of BZ or LIFE and MATH 118 or higher CHEM 107 or 113 MATH 117 or higher Concurrent enrollment in MATH 117 or higher BZ 120 or intro biology course MATH 125 or concurrent enrollment CHEM 107 or higher MATH 117 or higher	3 4 3 2 5 4 3 3	 3C   3D
SUMMER F	IELD COURSES (CSU Mountain C	Campus]			

	NR 220	Natural Resource Ecology and	SS	BZ 110 and BZ 111 or BZ 120 or LIFE 103;	5	
	<b>D</b>	Measurements	00	MATH 118 or higher		
	F 230	Forestry Field Measurements	55		2	

#### JUNIOR YEAR

	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 325	Silviculture	S	NR220	3	
	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	
	WR 204	Sustainable Watersheds	F, S		3	3A
	RS 300	Rangeland Stewardship and Conservation	F	BZ 120 or LIFE 102	3	

#### SENIOR YEAR

BZ 440	Plant Physiology	S	BZ 120 or LIFE 103	3	
BSPM 365	Integrated Tree Health Management	F	BZ 120 or equivalent	4	4A
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 193F 311, 321, 325, and 335		
F 421	Ecological Forest Management	F	F 311, 321, 325, and 335	3	4A, C
F 326	Wildland Fire Behavior and Management	F	F 209 or LIFE 220/320	3	
NR 425	Natural Resource Policy and Sustainability	S	NR 320	3	4B
	Biology Electives <sup>1</sup>		(see course selection on back page)	8+	
	BZ 440 BSPM 365 CO 300 -0r- CO 301B -0r- JTC 300 F 421 F 326 NR 425	BZ 440Plant PhysiologyBSPM 365Integrated Tree Health ManagementCO 300Writing Arguments-or- CO 301BWriting for the Disciplines - Science-or- JTC 300Professional and Technical CommunicationF 421Ecological Forest ManagementF 326Wildland Fire Behavior and ManagementNR 425Natural Resource Policy and Sustainability Biology Electives 1	BZ 440Plant PhysiologySBSPM 365Integrated Tree Health ManagementFCO 300Writing ArgumentsF, S, SS-or- CO 301BWriting for the Disciplines - ScienceF, S-or- JTC 300Professional and Technical CommunicationF, S, SSF 421Ecological Forest ManagementFF 326Wildland Fire Behavior and ManagementFNR 425Natural Resource Policy and Sustainability Biology Electives 1S	BZ 440Plant PhysiologySBZ 120 or LIFE 103BSPM 365Integrated Tree Health ManagementFBZ 120 or equivalentCO 300Writing ArgumentsF, S, SSCO 150 or HONR 193-or- CO 301BWriting for the Disciplines - ScienceF, SCO 150 or HONR 193-or- JTC 300Professional and Technical CommunicationF, S, SSCO 150 or HONR 193F 421Ecological Forest ManagementFSCO 150 or HONR 193 F 311, 321, 325, and 335F 326Wildland Fire Behavior and ManagementFF 209 or LIFE 220/320NR 425Natural Resource Policy and Sustainability Biology Electives 1SNR 320 (see course selection on back page)	BZ 440Plant PhysiologySBZ 120 or LIFE 1033BSPM 365Integrated Tree Health ManagementFBZ 120 or equivalent4CO 300Writing ArgumentsF, S, SSCO 150 or HONR 1933-or- CO 301BWriting for the Disciplines - ScienceF, SCO 150 or HONR 1933-or- JTC 300Professional and Technical CommunicationF, S, SSCO 150 or HONR 1933F 421Ecological Forest ManagementFF 311, 321, 325, and 3353F 326Wildland Fire Behavior and ManagementFF 209 or LIFE 220/3203NR 425Natural Resource Policy and Sustainability Biology Electives 1SNR 320 (see course selection on back page)8+

<sup>1</sup> Biology electives course selection is students' choice. Biology electives should be chosen in consultation with the student's advisor.

#### ACCEPTABLE FOREST BIOLOGY ELECTIVES JUNIORS AND SENIORS: SELECT AT LEAST 8 CREDITS FROM THE FOLLOWING LIST:

	Course**	5	Semester	Credits	
	BC 351	Principles of Biochemistry	F, S, SS	4	
	BSPM 302	Applied and General Entomology	F	2	Degree Requirements: 120 credits: 2.0 GPA
	BSPM 361	Elements of Plant Pathology	S	3	(42 credits at 300-400 level);
	BZ 223	Plant Identification	F, SS	3	Students are responsible for knowing and meeting
	BZ 331	Developmental Plant Anatomy	F	4	requirements in the University catalog (AUCC courses).
	BZ 338	Comparative Morphology of Vascular Plants	S (odd)	4	*Verify all information on this form regularly as course
	BZ346	Population and Evolutionary Genetics	F	3	information can change frequently.
	BZ 441	Plant Physiology Laboratory	S	2	
	BZ 450	Plant Ecology	S	4	
	CHEM 341	Modern Organic Chemistry I	F, S, SS	3	
	CHEM 343	Modern Organic Chemistry II	F, S, SS	3	
	CHEM 344	Modern Organic Chemistry Laboratory	F, S, SS	2	
	F 324	Fire Effects and Adaptations	S	3	
	FW 477	Habitat for Wildlife	F	3	
	NR 300	Biological Diversity	S	3	
	RS 351	Wildand Ecosystems in a Changing World	F	3	
	RS 452	Rangeland Herbivore Ecology and Mgmt.	S	3	
	SOCR 330	Principles of Genetics	F, S, SS	3	
	SOCR 440	Pedology	F	4	
	SOCR 467	Soil Chemistry	S	3	
	SOCR470	Soil Physics	F	3	
	SOCR 471	Soil Physics Laboratory	F	1	

\*\*See catalog for prerequisites

