



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
___ NR 193	F, S	First Semester Seminar Required for all first semester CSU students in FRS	1	---
___ BZ 120	F, S	Principles of Plant Biology ---	4	3A
___ CHEM 107	F, S, SS	Fundamentals of Chemistry MATH 117 + or concurrent enrollment in MATH 118 +	4	3A
___ CHEM 108	F, S, SS	Fundamentals of Chemistry Lab CHEM 107 or concurrent enrollment	1	3A
___ CO 150	F, S, SS	College Composition test or scores, or CO 130	3	1A
___ MATH 155	F, S, SS	Calculus in Biological Sciences ¹ MATH 124 and 125	4	1B
___ SPCM 200	F, S, SS	Public Speaking ---	3	---
___		Arts & Humanities	3 + 3	3B
___		Global and Cultural Awareness	3	3E

¹MATH 117, 118, 124 and 125 are considered review courses, but are necessary prerequisites for MATH 155.

SOPHOMORE YEAR

___ LIFE 320	F, S	Ecology BZ 101, 104, 110 120 or LIFE 102; MATH 141, 155 or 160	3	---
___ CHEM 245	F, S, SS	Fundamentals of Organic Chemistry CHEM 107 or 113	4	---
___ ECON 202	F, S, SS	Principles of Microeconomics MATH 117 or higher	3	3C
___ F 310	F, S	Forest and Rangeland Ecogeography BZ 120 or any intro. biology, F 312 concurrent enrollment	3	---
___ F 312	F, S	Dendrology Lab F 310 concurrent enrollment	1	---
___ PH 121	F, S, SS	General Physics I MATH 125 or concurrent enrollment	5	---
___ SOCR 240	F, S	Introduction to Soil Science CHEM 107 or equivalent	4	---
___ STAT 301	F, S, SS	Introduction to Statistical Methods MATH 117 or higher	3	---

SUMMER FIELD COURSES [CSU Mountain Campus]

—	NR 220	Natural Resource Ecology and Measurements	SS	BZ 110 and BZ 111 or BZ 120 or LIFE 103	5	---
—	F 230	Forestry Field Measurements	SS	MATH 118 or (1) MATH 141 to 161 or (1) MATH 229 or higher ---	2	---

JUNIOR YEAR

—	F 311	Forest Ecology	F, S	LAND/LIFE 220 or LIFE 320	3	---
—	F 321	Forest Biometry	F	NR 220; F 230; STAT 201 or 301; and MATH 141	3	---
—	F 322	Economics of the Forest Environment	F, S	ECON 202 or equivalent	3	---
—	F 325	Silviculture	S	F 230, 311 and NR 220	3	---
—	NR 320	Natural Resources History and Policy	F, S	Junior Standing	3	3D
—	WR 304	Principles of Watershed Management	F, S	Completion of AUCC 1B MATH requirement	3	---
—	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
—	NR 319	Geospatial Applications in Natural Resources	F, S	Junior Standing	4	---
—	JTC 300	Professional and Technical Communication	F, S, SS	CO 150 or HONR 193	3	2
—	F 421	Forest Stand Management	F	F 230, 321, 322, 325	4	4A, C
—	F 326	Wildland Fire Behavior and Management	F	LAND/LIFE 220 or LIFE 320	3	---
—	NR 425	Natural Resource Policy and Sustainability	S	NR 320	3	4B
—		Biology Electives ²		(see course selection on back page)	10	---

(+) = or higher F = Fall S = Spring SS = Summer Session

² Biology electives course selection is students' choice. Biology electives should be chosen in consultation with the student's advisor.

2 ACCEPTABLE FOREST BIOLOGY ELECTIVES

JUNIORS AND SENIORS: SELECT AT LEAST 10 CREDITS FROM THE FOLLOWING LIST:

Course**		Semester Credits
BC 351	Principles of Biochemistry	F, S, SS 4
BSPM 302	Applied and General Entomology	F 2
BSPM 361	Elements of Plant Pathology	S 3
BZ 223	Plant Identification	F, SS 3
BZ 331	Developmental Plant Anatomy	F 4
BZ 338	Comparative Morphology of Vascular Plants	S (odd) 4
BZ346	Population and Evolutionary Genetics	F 3
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

**Degree Requirements: 120 credits; 2.0 GPA
(42 credits at 300-400 level);**

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.

Having at least 200 hours of acceptable professional work experience in the student's field prior to graduation is required. This can include summer/seasonal/school semester employment in natural resource management through paid summer jobs, an approved internship, volunteer positions, or work study experience.

Acceptable work experience includes (but is not limited to) working for federal, state, non-governmental, private and university organizations that research or manage natural resources.

