



**Bachelor of Science in Agriculture, Food and Environmental Sciences**

**Major: Rangeland Ecology and Management**

**2018-2019 Sample 4-Year Plan**

**Total Degree Requirements: 120 credits**

Student \_\_\_\_\_ Student ID# \_\_\_\_\_ Student Phone # \_\_\_\_\_

Advisor \_\_\_\_\_ Minimum GPA \_\_\_\_\_ Minor/Career Interest(s) \_\_\_\_\_

Students are not limited to this plan; it is meant to be used as a guide for planning purposes in consultation with your advisor. The sample schedule is one possible path to completing your degree within four years. For official program requirements, please refer to the [Undergraduate Catalog](#).

**First Year**

**Fall**

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
NRM 119	Orientation to Natural Resource Management		2	F	
NRM 110	Intro to Natural Resource Management		3	F	
BIOL 151-151L	General Biology I and Lab (SGR #6)		4	F	
MATH 102	College Algebra (SGR #5) or higher	p. Placement	3		
SGR #4	Arts and Humanities/Diversity		3		
<b>Total Credit Hours</b>			15		

**Spring**

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 153-153L or BOT 201-201L	General Biology II and Lab (4 cr) or General Botany and lab (3 cr)	p. BIOL 151 p. BIOL 101 or BIOL 151 (3cr)	4	S	
CHEM 106-106L or CHEM 112-112L	Chemistry Survey and Lab (SGR #6) or General Chemistry I and Lab (SGR #6)	p. MATH 101 or higher 102	4		
RANG 205	Intro to Range Management		3	S	
SGR #3	Social Sciences/Diversity: SOC 100, SOC 150, SOC 240, or ANTH 210		3		
<b>Total Credit Hours</b>			14		

**Summer**

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
NRM 230	Natural Resource Management Techniques	Summer only, none	3	SU	
<b>Total Credit Hours</b>			3		

**Second Year**

**Fall**

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AGEC 271	Farm and Ranch Management	p. MATH 102 or higher	3		
ENGL 101	Composition I (SGR #1)	p. Placement	3		
NRM 311	Principles of Ecology	Cross-Listed: BIOL 311	3	F	
RANG 210-210L	Range Plant Identification and Lab		2	F	
SGR #4	Arts and Humanities/Diversity		3		
<b>Total Credit Hours</b>			14		

**Spring**

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AS 101-101L	Introduction to Animal Science and Lab		4	S	
ECON 201	Principles of Microeconomics (SGR #3)		3		
ENGL 201	Composition II (SGR #1)	p. ENGL 101	3		
RANG 215	Introduction to Integrated Ranch Management	Cross-Listed: AS 215	3	S	
SPCM 101	Fundamentals of Speech (SGR #2)		3		
<b>Total Credit Hours</b>			16		



**Third Year**

**Fall**

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
NRM 282-282L	Natural Resource Statistics and Lab	p. MATH 102 or higher	3		
PRAG 410-410L or PS 462-462L	Soil Geography and Land Use Interpretation and Lab or Environmental Soil Management and Lab	p. GEOG 132/L or PS 213/L; Cross-Listed: GEOG 410-410L p. PS 213-213L	3		
PS 213-213L	Soils and Lab	p. CHEM 106/L or 112/L	3		
Major Elective	Select from REM electives	Consult with Advisor	3		
<b>Total Credit Hours</b>			12		

**Spring**

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AS 218	Survey of Animal Nutrition	p. AS 101 or DS 130	3	S	
BOT 301-301L	Plant Systematics and Lab	p. BIOL 103 or BIOL 153	3	S	
NRM 300	Laws and Policies in Natural Resource Management		3	S	
RANG 321	Wildland Ecosystems		3	S/odd	
WL 220	Intro to Wildlife and Fisheries Management		3	S	
<b>Total Credit Hours</b>			15		

**Summer**

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
RANG 425-425L	Rangeland Assessment and Monitoring Lab	p. STAT 281	3	SU/odd	
<b>Total Credit Hours</b>			3		

**Fourth Year**

**Fall**

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BOT 419-419L or EES 425-425L or EES 430-430L	Plant Ecology and Lab or Disturbance and Restoration Ecology and Lab or Biological Invasions and Lab	p. BOT 419 = BIOL 103 or BIOL 153 or BOT 201	3	F	
GEOG 372-372L	Introduction to GIS and Lab		3		
RANG 374-374L	Natural Resource Habitat Conservation, Mgmt., and Restoration and Lab		4	F	
RANG 421	Grassland Fire Ecology	Cross-Listed: WL 421	3	F/odd	
Major Elective	Select from REM electives	Consult with Advisor	3	F	
<b>Total Credit Hours</b>			16		

**Spring**

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ABS 475-475L	Integrated Natural Resource Management and Lab	Senior Standing	3		
BOT 327-327L	Plant Physiology and Lab	Select one group: p. BIOL 101 and BIOL 103; or BIOL 151 and BIOL 153; or BOT 201 and BIOL 101; or BOT 201 and BIOL 151	4		
ENGL 379 or SPCM 215	Technical Communications or Public Speaking	p. ENGL 201 or ENGL 283	3		
Major Elective	Select from REM electives	Consult with Advisor	2		
<b>Total Credit Hours</b>			12		

**Comments/Notes**

Students from all academic majors can pursue graduation with Fishback Honors College distinction. View the [Honors program requirements](#).