Bachelor of Science in Agriculture, Food and Environmental Sciences

Major: Ecology and Environmental Science

Specialization: Rangeland Ecology and Management

2020-2021 Sample 4-Year Plan

Total	Degree	Red	mirem	ents:	120	credits
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Student	Student ID#	Student Phone #
Advisor	Minimum GPA 2.0	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 <u>Undergraduate Catalog</u>.

First Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 151-151L	General Biology I and Lab (SGR #6)		4	F	
CHEM 106-106L or CHEM 112-112L	Chemistry Survey and Lab (SGR #6) or General Chemistry I and Lab (SGR #6)	p. MATH placement p. MATH 114 or higher	4		
ENGL 101	Composition I (SGR #1)	p. Placement	3		
MATH 114 or higher	College Algebra (SGR #5) or	p. Placement	3		
NRM 119	Orientation to Natural Resource Management		2	F	
		Total Credit Hours	16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AS 101-101L	Introduction to Animal Science and Lab		4	S	
BIOL 153-153L or	General Biology II and Lab (4 cr) or		4	S	
BOT 201-201L or	General Botany and Lab (3 cr) or	p. BIOL 101 or BIOL 151			
NRM 200-200L	Animal Diversity and Lab (3 cr)	p. BIOL 101 or BIOL 151			
CHEM 108-108L or	Organic and Biochemistry and Lab (5 cr)	p. CHEM 106	5		
CHEM 114-114L	General Chemistry II and Lab (4 cr)	p. CHEM 112, MATH 114 or higher			
RANG 205	Introduction to Range Management		3	S	
		Total Credit Hours	16		

Summer

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
NRM 230	Natural Resource Management Techniques	Week long summer course	3	SU	
		Total Credit Hours	3		

Second Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ENGL 201	Composition II (SGR #1)	p. ENGL 101	3		
NRM 276	Scientific Communications		1		
NRM 282-282L	Natural Resource Statistics and Lab	p. MATH 114 or higher	3	F	
PS 213-213L	Soils and Lab	p. CHEM 106/L or CHEM 112/L	3		
RANG 210-210L	Range Plant Identification and Lab		2	F	
SOC 100, SOC 150, or SOC 240	Introduction to Sociology, Social Problems, or The Sociology of Rural America (SGR#3)		3		
		Total Credit Hours	15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ECON 201	Principles of Microeconomics (SGR #3)		3		
NRM 300	Laws and Policies in Natural Resource Management		3	S	
RANG 215	Introduction to Ranch Management	Cross-listed with AS 215	3	S	
SGR #4	Arts and Humanities/Diversity (SGR #4)		3		
SPCM 101	Fundamentals of Speech (SGR #2)		3		



Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
		Total Credit Hours	15		

Third Year					
Fall					
Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
	Select 6 credits from the following courses:		3		
AGEC 271	Farm and Ranch Management				
BOT 303/L	Forest Ecology and Management and Lab				
PS 313	Forage Crop and Pasture Management				
WL 220	Introduction to Wildlife and Fisheries Management				
NRM 311	Principles of Ecology	p. BIOL 151/L or BIOL 153/L; Cross- Listed: BIOL 311	3	F	
RANG 374-374L	Habitat Conservation and Management and Lab		4	F	
RANG 421	Grassland Fire Ecology	Cross-listed with WL 421	3	F Odd	
SGR #4	Arts and Humanities/Diversity (SGR #4)		3		
		Total Credit Hours	16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
	Select 6 credits from the following courses:		3		
AGEC 271	Farm and Ranch Management				
BOT 303/L	Forest Ecology and Management and Lab				
PS 313	Forage Crop and Pasture Management				
WL 220	Introduction to Wildlife and Fisheries Management				
AS 218	Survey of Animal Nutrition	p. AS 101	3	S	
PHYS 101-101L or	Survey of Physics and Lab or		4		
PHYS 111-111L	Introduction to Physics I and Lab	p. MATH 114 or higher			
RANG 321	Wildland Ecosystems		3	S Odd	
RANG 400	Judging Teams	p. Instructor consent	1	S	
RANG 491, 494, 496	Independent study, Internship, Field Experience or		1		
or 498	Undergraduate Research/Scholarship				
		Total Credit Hours	15		

Fourth Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EES 425-425L	Disturbance & Restoration Ecology and Lab	p. NRM 311	3	F Odd	
GEOG 372-372L	Introduction to GIS and Lab		3		
RANG 425-425L	Rangeland Assessment and Monitoring and Lab	p. NRM 282	3	F Even	
Electives	General electives or from supporting course lists		3		
		Total Credit Hours	12		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ABS 475-475L	Integrated Natural Resource Management and Lab	p. Senior standing	3	S	
BOT 301-301L	Plant Systematics	p. BIOL 151/L or BIOL 153/L	3	S	
PRAG 410-410L or PS 462-462L	Soil Geography and Land Use Interpretation and Lab Environmental Soil Management and Lab	p. PS 213-213L p. PS 213-213L	3	F S	
Electives	General electives or from supporting course lists to reach 120 total credits		3		
		Total Credit Hours	12		

Comments/Notes

Students from all academic majors can pursue graduation with Fishback Honors College distinction. View the Honors program requirements.