



Bachelor of Science in Agriculture, Food and Environmental Sciences

Major: Dairy Production

2020-2021 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
DS 119	First Year Seminar – Dairy and Food Science		2	F	
DS 130-130L	Introduction to Dairy Science and Lab		3	F/S	
CHEM 106-106L or CHEM 112-112L	Chemistry Survey and Lab or General Chemistry I and Lab (SGR #6)	p. MATH placement p. MATH 114 or higher	4		
MATH 114 or MATH 115	College Algebra (3 cr) (SGR #5) or Precalculus (5 cr) (SGR #5)	p. Placement p. MATH 114	3		
SPCM 101 or ENGL 101	Fundamentals of Speech (SGR #2) or Composition I (SGR #1)	p. Placement	3		
Total Credit Hours			15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CHEM 108-108L	Organic and Biochemistry and Lab	p. CHEM 106; CHEM 112 also allowed	5		
ENGL 101 or SPCM 101	Composition I (SGR #1) or Fundamentals of Speech (SGR #2)	p. Placement	3		
PS 103-103L	Crop Production and Lab		3		
SGR #3	Social Science/Diversity (SGR #3)	Non ECON	3		
SGR #4	Arts and Humanities/Diversity (SGR #4)		3		
Total Credit Hours			17		

Second Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AS 219	Principles of Animal Nutrition	p. AS 101 or DS 130	3	F	
BIOL 101-101L or BIOL 151-151L	Biology Survey I and Lab (3 cr) (SGR #6) or General Biology I and Lab (4 cr) (SGR #6)	BIOL 151/L preferred	3 - 4		
DS 202	Dairy Products Judging		1	F	
DS 311	Dairy Cattle Judging		2	F	
ECON 201 or ECON 202	Principles of Microeconomics (SGR #3) or Principles of Macroeconomics (SGR #3)		3		
ENGL 201	Composition II (SGR #1)	p. ENGL 101	3		
Total Credit Hours			15 - 16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AS 319-319L	Livestock Feeds and Feeding and Lab	p. AS 219	3	F/S	
BIOL 103-103L or BIOL 153-153L	Biology Survey II and Lab (3cr) or General Biology II and Lab (4cr)	BIOL 153/L preferred	3 – 4		
DS 312-312L	Dairy Cattle Breeding and Evaluation and Lab		4	S	
MICR 231-231L	General Microbiology and Lab	p. CHEM 106/L or CHEM 112/L	4		
Total Credit Hours			14 - 15		



Third Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AGEC 271	Farm and Ranch Management	p. MATH 103 or higher	3		
BIOL 371 or AS 332	Genetics (3 cr) or Livestock Breeding and Genetics (4 cr)	p. BIOL 101/L or 151/L p. AS 101 or DS 130 or AS 102 and BIOL 103/L or BIOL 153/L	3 - 4	F/S	
PS 213-213L or PS 313	Soils and Lab or Forage Crop and Pasture Management	p. CHEM 106/L or CHEM 112/L p. BIOL 101 or BIOL 151	3		
SGR #4	Arts and Humanities/Diversity (SGR #4)		3		
General Elective	Select from any discipline		3		
Total Credit Hours			15-16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
DS 301-301L	Dairy Microbiology and Lab	p. MICR 231/L or MICR 233/L	4	S odd	
General Elective	Select from any discipline		3		
PHYS 101-101L or PHYS 111-111L or PHYS 211-211L	Survey of Physics and Lab or Introduction to Physics I and Lab or University Physics I and Lab	p. MATH 114 or higher p. MATH 123 or MATH 125	4		
VET 223-223L	Anatomy and Physiology of Domestic Animals and Lab	p. CHEM 108 or CHEM 326	4	S	
Total Credit Hours			15		

Summer

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
DS 494	Internship	Summer after 2 nd or 3 rd year	3	SU	
Total Credit Hours			3		

Fourth Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AS 333-333L	Livestock Reproduction and Lab	p. VET 223/L	3	F	
DS 480-480L	Dairy Farm Operations I and Lab	p. AS 219, DS 130/L and ECON 201 or ECON 202	4	F odd	
DS 490	Seminar		1	F	
General Elective	Select from any discipline		3		
General Elective	Select from any discipline	Take as needed to reach 120 total credits	1-3		
Total Credit Hours			12 - 14		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AS/AST 463	Agricultural Waste Management	p. PS 213/L or PS 313	3	S	
DS 413-413L	Physiology of Lactation and Lab		4	S even	
DS 481-481L	Dairy Farm Operations II and Lab	p. DS 130, DS 480, and ECON 201 or 202	4	S even	
VET 403	Animal Diseases and Their Control	Sophomore standing	3	S	
Total Credit Hours			14		

Comments/Notes

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

General Elective course credits dependent upon which of the options (either 3 or 4 credits) are taken in relation to the Biology and Genetics courses.