South Dakota State University

Bachelor of Science
Major: Animal Science
Specialization: Production Management
2025-2026 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
AS 119	Opportunities in Animal and Veterinary Science	c. AS 120 or VET 120	1	F	
AS 101-101L*	Introduction to Animal Science & Lab	Fall semester for First-Year Animal Science majors	3,1	F/S	
AS 120 or VET 120	Survey of Animal Science or Introduction to Veterinary Medicine	c. AS 119 c. AS 119 or DS 119	1	F	
BIOL 101-101L or BIOL 151-151L	Biology Survey I & Lab (3 cr) (SGR #6) or General Biology I & Lab (4 cr) (SGR #6)		2,1 3,1	F/S F/S(I)	
MATH 114 or MATH 115 or MATH 121-121L or MATH 123	College Algebra (3 cr) (SGR #5) or Precalculus (5 cr) (SGR #5) or Survey of Calculus and Lab (5 cr) (SGR #5) or Calculus I (4 cr) (SGR #5)	p. MATH 101 or 103, or placement p. MATH 114, or placement p. MATH 114, 115, 120 or placement p. MATH 115, 120 or placement	3-5		
SGR #2	Oral Communication (SGR #2)		3		
		Total Credit Hours	15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 103-103L or BIOL 153-153L	Biology Survey II & Lab (3 cr) (SGR #6) or General Biology II & Lab (4 cr) (SGR #6)		3	F(I)/S F(I)/S	
CHEM 106-106L or CHEM 112-112L	Chemistry Survey & Lab (SGR #6) or General Chemistry I & Lab (SGR #6)	p. MATH placement p. MATH 114 or higher	3,1	F/S F/S	
SGR #1	Written Communication (SGR #1)	p. Placement	3		
SGR #4	Arts and Humanities (SGR #4)		3		
SGR #3	Social Sciences (SGR #3) - Civics Requirement	Select from the designated list of courses to fulfill civics requirement	3		
		Total Credit Hours	16		

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	
AS 241-241L*	Introduction to Meat Science & Lab		2,1	F/S	
CHEM 108-108L or CHEM 326-326L	Organic and Biochemistry & Lab (5 cr) or Organic Chemistry I & Lab (4 cr)	p. CHEM 106 or CHEM 112 p. CHEM 114	4,1 3,1	F(I)/S F/S	
ECON 201	Principles of Microeconomics (SGR #3)		3	F/S/SU	
		Total Credit Hours	14		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ACCT 210	Principles of Accounting I		3	F/S/SU	
AS 285-285L	Livestock Evaluation and Marketing & Lab	p. AS 101	2,1	F/S	
SGR #1	Written Communication (SGR #1)	p. ENGL 101	3		
SGR #4	Arts and Humanities (SGR #4)		3		
VET 223-223L	Anatomy and Physiology of Domestic Animals & Lab	p. CHEM 108 or CHEM 326	3,1	S	
		Total Credit Hours	16		

Information Subject to Change. This is not a contract.

p. = Course Prerequisite c. = Course Corequisite I = Internet
Semester: F = Fall, S = Spring, SU = Summer

THIRD YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AS 333-333L*	Livestock Reproduction & Lab	p. VET 223/L	2,1	F	
AS 319-319L*	Livestock Feeds and Feeding & Lab	p. AS 219	2,1	F/S	
AS 389*	Current Issues in Animal Science		3	F/S/SU	
General Electives			6		
		Total Credit Hours	15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AGEC 354	Agricultural Marketing and Prices	p. ECON 201 or ECON 202	3	F/S/SU	
AS 332*	Livestock Breeding and Genetics	p. AS 101 or DS 130, and BIOL 101 or BIOL 151	4	F/S	
VET 403	Animal Diseases and Their Control	Sophomore standing or higher	3	F/S	
Experiential Learning	Select one: AFES 482, AS 322, AS 400, AS 491, AS 494, or AS 498	Check prerequisites for selected course	1		
General Electives			4		
		Total Credit Hours	15		

FOURTH YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AS Capstone Course*	Select from:				
	AS 445-445L Value-Added Meat Products & Lab	p. AS 241/L	2,1	F	
	AS 450 Meat Product Safety and HACCP	p. AS 241/L	3	F even	
	AS 474-474L Cow/Calf Management & Lab	p. AS 319/L, AS 332 and AS 333/L	2,1	F/S	
	AS 475-475L Feedlot Operations and Management & Lab	p. AS 285/L, AS 319/L	2,1	F	
	AS 476-476L Horse Production & Lab	p. AS 319/L, AS 332 and AS 333/L	2,1	S	
	AS 477-477L Sheep and Wool Production & Lab	p. AS 319/L, AS 332 and AS 333/L	2,1	F	
	AS 478-478L Swine Production & Lab	p. AS 319/L, AS 332 and AS 333/L	2,1	S	
AS Capstone Course*	Select from:				
	AS 445-445L Value-Added Meat Products & Lab	p. AS 241/L	2,1	F	
	AS 450 Meat Product Safety and HACCP	p. AS 241/L	3	F even	
	AS 474-474L Cow/Calf Management & Lab	p. AS 319/L, AS 332 and AS 333/L	2,1	F/S	
	AS 475-475L Feedlot Operations and Management & Lab	p. AS 285/L, AS 319/L	2,1	F	
	AS 476-476L Horse Production & Lab	p. AS 319/L, AS 332 and AS 333/L	2,1	S	
	AS 477-477L Sheep and Wool Production & Lab	p. AS 319/L, AS 332 and AS 333/L	2,1	F	
	AS 478-478L Swine Production & Lab	p. AS 319/L, AS 332 and AS 333/L	2,1	S	
General Electives			9		
		Total Credit Hours	15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AS Capstone Course	Select from:				
	AS 445-445L Value-Added Meat Products & Lab	p. AS 241/L	2,1	F	
	AS 450 Meat Product Safety and HACCP	p. AS 241/L	3	F even	
	AS 474-474L Cow/Calf Management & Lab	p. AS 319/L, AS 332 and AS 333/L	2,1	F/S	
	AS 475-475L Feedlot Operations and Management & Lab	p. AS 285/L, AS 319/L	2,1	F	
	AS 476-476L Horse Production & Lab	p. AS 319/L, AS 332 and AS 333/L	2,1	S	
	AS 477-477L Sheep and Wool Production & Lab	p. AS 319/L, AS 332 and AS 333/L	2,1	F	
	AS 478-478L Swine Production & Lab	p. AS 319/L, AS 332 and AS 333/L	2,1	S	
General Electives			11		
		Total Credit Hours	14		

COMMENTS/NOTES

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

*Animal Science majors must achieve a minimum of a cumulative 2.0 GPA in Animal Science core courses for successful graduation. Core courses include AS 101-101L, AS 219, AS 241-241L, AS 319-319L, AS 332, AS 333-333L, AS 389, and 2 capstone courses in which the students receive the highest grades (if they take more than 2). Capstone courses include AS 445-445L, AS 450, AS 474-474L, AS 475-475L, AS 476-476L, AS 477-477L, and AS 478-478L.

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