



Associate of Science in Agriculture, Food and Environmental Sciences

Major: Agricultural Science (2 year)

2020-2021 Sample Graduation Plan

Total Degree Requirements: 60 credits

Brookings Main Campus

See page 3 for Online/Distance guide

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 [Undergraduate Catalog](#).

First Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ABS 119	First Year Seminar		2	F	
Agriculture Elective	Select prefixes from: ABS, AGECE, AGED, AS, AST, DS, EES, FS, HO, NRM, PRAG, PS, RANG, VET, and WL		3		
Agriculture Elective	Select prefixes from: ABS, AGECE, AGED, AS, AST, DS, EES, FS, HO, NRM, PRAG, PS, RANG, VET, and WL		3		
BIOL 101-101L	Biology Survey I and Lab (SGR #6)	Or anything from the SGR #6 list	3		
SPCM 101	Fundamentals of Speech (SGR #2)		3		
Total Credit Hours			14		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
Agriculture Elective	Select prefixes from: ABS, AGECE, AGED, AS, AST, DS, EES, FS, HO, NRM, PRAG, PS, RANG, VET, and WL		3		
Agriculture Elective	Select prefixes from: ABS, AGECE, AGED, AS, AST, DS, EES, FS, HO, NRM, PRAG, PS, RANG, VET, and WL		3		
ENGL 101	Composition I (SGR #1)	p. Placement	3		
SGR #3	Social Sciences/Diversity (SGR #3)		3		
SGR #5	Mathematics (SGR #5)	p. Placement	3		
Total Credit Hours			15		

Second Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
Agriculture Elective	Select prefixes from: ABS, AGECE, AGED, AS, AST, DS, EES, FS, HO, NRM, PRAG, PS, RANG, VET, and WL		3		
Agriculture Elective	Select prefixes from: ABS, AGECE, AGED, AS, AST, DS, EES, FS, HO, NRM, PRAG, PS, RANG, VET, and WL		1		
SGR #1	Written Communication: ENGL 201, 277, 283, or 284	p. ENGL 101	3		
SGR #4	Humanities and Arts/Diversity (SGR #4)		3		
SGR #3, SGR #4, or SGR #6	Select an additional three credits from the SGR #3, #4, or #6 list to reach 24 System General Education Requirements for the Associate degree.		3		
Elective			3		
Total Credit Hours			16		

Spring

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

Comments/Notes

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



Common Courses selected to fulfill Agricultural Electives

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AGEC 271	Farm and Ranch Management	p. MATH 103 or higher	3	F/S/SU	
AGEC 274	Agribusiness Sales	p. ECON 201	3	S	
AGEC 352	Agricultural Law		3	S	
AGEC 354	Agricultural Marketing and Prices	p. ECON 201 or 202	3	F/S/SU	
AGEC 362	Environmental Law		3	SU	
AGEC 364	Intro to Cooperatives		3	S	
AGEC 366	Food Law		3	S	
AGEC 371	Agricultural Business Management		3	F/S/SU	
AGED 295	Practicum		1	F	
AGED 405	Philosophies of Career and Technical Education		2	F	
AST 213-213L	Ag, Industrial & Outdoor Power and Lab		3	F	
AST 273-273L	Agricultural Computer Applications and Lab		3	F/S	
AST 333-333L	Soil and Water Mechanics and Lab		3	F/S	
AST 342-342L	Applied Electricity and Lab		3	F/S	
ABS 203	Global Food Systems		3	F/S/SU	
ABS 205	Biotechnology in Agriculture		2	S	
AS 101-101L	Intro to Animal Science and Lab	Spring preferred for Ag Science majors	4	F/S	
AS 102	Fundamentals of Animal Science		3	SU	
AS 104-104L	Intro to Horse Management and Lab		2	F	
AS 105	Horsemanship		1	F	
AS 202	Basic Swine Science		2	F/S/SU	
AS 218	Survey of Animal Nutrition	p. AS 101, 102, or DS 130	3	S	
AS 241-241L	Intro to Meat Science		3	F/S	
AS 264	Ruminant Livestock Production		3	F/SU	
AS 285-285L	Livestock Evaluation and Marketing	p. AS 101	3	F/S	
DS 130-130L	Intro to Dairy Science and Lab		3	F/S	
DS 231	Dairy Foods		3	S	
EES 275	Intro to Environmental Science		3	S	
FS 101	Intro to Food Science		3	S	
FS 251	Food Safety and Quality Management Systems		3	F	
HO 105	Insects and Society		3	F	
HO 111-111L	Intro to Horticulture and Lab		3	F/S	
NRM 110	People and the Environment		3	F	
NRM 221-221L	Intro to Conservation Management		3	S	
PRAG 203-203L	Intro to Precision Agriculture and Lab		3	F/S	
PS 103-103L	Crop Production and Lab		3	F/S/SU	
PS 213-213L	Soils and Lab	p. CHEM 106/L or CHEM 112/L	3	F/S	
PS 313	Forage Crop and Pasture Management	p. BIOL 101 or 151	3	F	
PS 308-308L	Grain Grading and Lab	p. PS 103/L	2	S	
PS 403-403L	Seed Technology	p. PS 103/L or HO 111/L	3	F	
RANG 205	Intro to Range Management		3	S	
RANG 215	Intro to Integrated Ranch Management		3	S	
VET 183	Veterinary Medical Terminology		1	F/S	
WL 220	Intro to Wildlife and Fish Management		3	S	



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Online & Distance sites

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Advisor _____ **Minimum GPA** 2.0 **Minor/Career Interest(s)** _____

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First Year

Summer

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
Agriculture Elective	Select prefixes from: ABS, AGECE, AGED, AS, AST, DS, EES, FS, HO, NRM, PRAG, PS, RANG, VET, and WL		3		
Agriculture Elective	Select prefixes from: ABS, AGECE, AGED, AS, AST, DS, EES, FS, HO, NRM, PRAG, PS, RANG, VET, and WL		3		
Total Credit Hours			6		

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ABS 119	First Year Seminar	Any 119 course allowed through substitution. ACS 119 available online.	2	F	
ENGL 101	Composition I (SGR #1)	p. Placement	3		
SGR #3	Social Sciences/Diversity (SGR #3)		3		
SGR #6	Natural Sciences (SGR #6)	Biol 101/L common; GEOG 131/L available in Sioux falls	3		
Elective			1		
Total Credit Hours			12		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
SPCM 101	Fundamentals of Speech (SGR #2)		3		
SGR #4	Humanities and Arts/Diversity (SGR #4)		3		
SGR #5	Mathematics (SGR #5)	p. Placement	3		
SGR #3, SGR #4, or SGR #6	Select an additional three credits from the SGR #3, #4, or #6 list to reach 24 System General Education Requirements for the Associate degree.		3		
Total Credit Hours			12		

Second Year

Summer

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
Agriculture Elective	Select prefixes from: ABS, AGECE, AGED, AS, AST, DS, EES, FS, HO, NRM, PRAG, PS, RANG, VET, and WL		3		
Agriculture Elective	Select prefixes from: ABS, AGECE, AGED, AS, AST, DS, EES, FS, HO, NRM, PRAG, PS, RANG, VET, and WL		3		
Total Credit Hours			6		

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
SGR #1	Written Communication: ENGL 201, 277, 283, or 284	p. ENGL 101	3		
Agriculture Elective	Select prefixes from: ABS, AGECE, AGED, AS, AST, DS, EES, FS, HO, NRM, PRAG, PS, RANG, VET, and WL		3		
Electives			6		
Total Credit Hours			12		



Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
Agriculture Elective	Select prefixes from: ABS, AGECE, AGED, AS, AST, DS, EES, FS, HO, NRM, PRAG, PS, RANG, VET, and WL		1-3		
Electives			9-11		
Total Credit Hours			12		

Comments/Notes

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Common Agricultural Electives available online

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AGEC 271	Farm and Ranch Management	p. MATH 103 or higher	3	F/SU	
AGEC 352	Agricultural Law	SDSU & GPIDEA	3	S	
AGEC 354	Agricultural Marketing and Prices	p. ECON 201 or 202	3	F/SU	
AGEC 362	Environmental Law		3	SU (odd)	
AGEC 364	Intro to Cooperatives		3	S	
AGEC 366	Food Law		3	SU (even)	
AGEC 371	Agricultural Business Management		3	S/SU	
AGEC 473/L	Rural Real Estate Appraisal	p. Junior/Senior status	3	SU (even)	
AGEC 479	Agricultural Policy	p. ECON 201 and ECON 202	3	SU	
ABS 203	Global Food Systems		3	F/SU	
AS 102	Fundamentals of Animal Science		3	SU	
AS 264	Ruminant Livestock Production		3	SU	
AS 305	Swine Nutrition	SDSU & GPIDEA sections	1	F	
AS 389	Current Issues in Animal Science		3	SU	
AS 492	Special Topics: Beef Cattle Breeding		3	SU	
PS 103-103L	Crop Production and Lab		3	SU	
RANG 421	Grassland Fire Ecology		3	F (odd)	
VET 183	Veterinary Medical Terminology		1	F/S	

Online Swine Science courses available through SDSU and the Great Plains Idea Program (GPIDEA)

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AS 202	Basic Swine Science	GPIDEA	2	F/S	
AS 301	Advanced Swine Science	p. AS 202; GPIDEA	2	S	
AS 302	Swine Environment Management	GPIDEA	1	F	
AS 303	Swine Feed Mill Management	GPIDEA	1	F	
AS 304	Swine Manure and Nutrient Management	GPIDEA	1	S	
AS 305	Swine Nutrition	SDSU & GPIDEA sections	1	F	
AS 306	Swine Breeding and Gestation Management	GPIDEA	1	S	
AS 307	Swine Farrowing Management	GPIDEA	1	S/SU	
AS 308	Swine Nursery and Finishing Management	GPIDEA	1	S	
AS 310	Employee Management for the Swine Industry	GPIDEA	1	F	
AS 311	Marketing and Risk Management in the Swine Industry	GPIDEA	1	S	
AS 313	Swine Health and Biosecurity	GPIDEA	1	S	