SOUTH DAKOTA STATE UNIVERSITY

Bachelor of Science
Major: Agricultural Systems Technology
Emphasis: Select from Business, Precision Ag, Processing, or Production
2023-2024 Sample 4-Year Plan
Total Degree Requirements: 120 credits

Student		Student ID#		Student Phone #	
Advisor		Minimum GPA	2.00	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
AST 119	First Year Seminar		1	F	
MATH 114	College Algebra (SGR #5)	p. Placement	3		
PS 103-103L	Crop Production & Lab		3	F/S	
SGR #1	Written Composition (SGR #1)	p. Placement	3		
SGR #3	Social Sciences/Diversity (SGR #3)		3		
		Total Credit Hours	13		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AST 213-213L or AST 313-313L	Ag, Industrial and Outdoor Power & Lab Farm Machinery Systems Management & Lab	p. PHYS 101 or PHYS 111	3	F S	
BIOL 101-101L	Biology Survey I & Lab (SGR #6)		3	F/S	
ECON 201	Principles of Microeconomics (SGR #3)		3	F/S	
SGR #2	Oral Communication (SGR #2)		3		
SGR #4	Arts and Humanities/Diversity (SGR #4)		3		
		Total Credit Hours	15		

Second Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AST 273	Agricultural Computer Applications		3	F/S	
PRAG 203-203L	Introduction to Precision Agriculture & Lab		3	F/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	4	F/S F/S	
MATH 120	Trigonometry (SGR #5)	p. MATH 114 or placement	3		
SGR #4	Arts and Humanities/Diversity (SGR #4)		3		
		Total Credit Hours	16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ACCT 210	Principles of Accounting I		3	F/S/SU	
SGR #1	Written Composition (SGR #1)	p. ENGL 101	3		
PHYS 101-101L	Survey of Physics & Lab (SGR #6)		4	F/S	
PS 213-213L	Soils & Lab (SGR #6)	p. CHEM 106/L or CHEM 112/L	3	F/S	
Technical Elective	Select 32 credits from one of the emphasis areas – Business, Farm Operations, Precision Ag, or Processing	See catalog for course options within each emphasis area	3		
		Total Credit Hours	16		

Information Subject to Change. This is not a contract.

p. = Course Prerequisite
Semester: F = Fall, S = Spring, SU = Summer

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Third Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AST 342-342L	Applied Electricity & Lab		3	F/S	
AST 390	Seminar		1	F	
AST 426-426L	Technology Applications for Precision Agriculture and Lab		3	F	
PRAG 340	Climate Risk Management with Precision Agriculture		3	F	
GE 121 & GE 123 Or PRAG 427	Engineering Design Graphics and Computer Aided Drawing Or Precision Ag Data Mapping	GE 121/123 often taken same semester p. Jr Standing	2	F/S F/S	
Technical Elective	Select 32 credits from one of the emphasis areas – Business, Farm Operations, Precision Ag, or Processing	See catalog for course options within each emphasis area	3		
		Total Credit Hours	15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AST 333-333L	Soil and Water Mechanics & Lab		3	F/S	
BLAW 350	Legal Environment of Business	Cross-Listed: BADM 350	3	F/S	
Technical Elective	Select 32 credits from one of the emphasis areas – Business, Farm Operations, Precision Ag, or Processing	See catalog for course options within each emphasis area	3		
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Technical Elective	Select 32 credits from one of the emphasis areas – Business, Farm Operations, Precision Ag, or Processing	See catalog for course options within each emphasis area	3		
		Total Credit Hours	15		

Summer

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AST 494 or AST 496 or AST 497	Internship Field Experience Cooperative Education		1	SU	
		Total Credit Hours	1		

Fourth Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AST 412-412L	Fluid Power Technology & Lab		3	F	
AST 423-423L	Rural Structures & Lab		3	F	
AST 443-443L	Food Processing and Engineering Fundamentals & Lab		3	F	
Technical Elective	Select 32 credits from one of the emphasis areas – Business, Farm Operations, Precision Ag, or Processing	See catalog for course options within each emphasis area	3		
Technical Elective	Select 32 credits from one of the emphasis areas – Business, Farm Operations, Precision Ag, or Processing	See catalog for course options within each emphasis area	2		
		Total Credit Hours	14		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AST 463	Agricultural Waste Management	p. PS 213 or PS 313	3	S	
Technical Elective	Select 32 credits from one of the emphasis areas – Business, Farm Operations, Precision Ag, or Processing	See catalog for course options within each emphasis area	3		
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Technical Elective	Select 32 credits from one of the emphasis areas – Business, Farm Operations, Precision Ag, or Processing	See catalog for course options within each emphasis area	3		
		Total Credit Hours	15		

Comments/Notes

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

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p. = Course Prerequisite
Semester: F = Fall, S = Spring, SU = Summer