SOUTH DAKOTA STATE UNIVERSITY

Bachelor of Science
Major: Agricultural Systems Technology
Emphasis: Select from: Business & Management, Farm Operations, Product Testing & Validation
2025-2026 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	
AST 273	Agricultural Computer Applications		3	F/S	
MATH 114	College Algebra (SGR #5)	p. Placement	3		
SGR #1	Written Composition (SGR #1)	p. Placement	3		
SGR #3	Social Sciences (SGR#3)- Civics Requirement	Select from the designated list of courses to fulfill civics requirement	3		
		Total Credit Hours	13		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 101-101L	Biology Survey I & Lab (SGR #6)		3	F/S	
ECON 201	Principles of Microeconomics (SGR #3)		3	F/S/SU	
PS 103-103L	Crop Production & Lab	Fall section for Agronomy majors	3	F/S	
SGR #2	Oral Communication (SGR #2)		3		
SGR #4	Arts and Humanities (SGR #4)		3		
		Total Credit Hours	15		

SECOND YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AST 213-213L	Ag, Industrial and Outdoor Power & Lab		3	F	
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 or STAT 281	Trigonometry or Introduction to Statistics	p. MATH 114 or placement p. MATH 114, MATH 115, MATH 120, MATH 121, MATH 123 or MATH 125	3	F/S F/S/SU	
SGR #4	Arts and Humanities (SGR #4)		3		
		Total Credit Hours	16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AGEC 274	Agribusiness Sales	p. ECON 201	3	F/S	
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	
Elective			3		
		Total Credit Hours	16		

Information Subject to Change. This is not a contract.

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

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 15 credits from one of the emphasis areas – Business & Management, Farm Operations, Product Testing & Validation	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	
AST 313-313L	Farm Machinery Systems Management & Lab	p. PHYS 101 or PHYS 111	3	S	
PRAG 345	Principles and Implications of Chemical Ap. Systems		3	S	
Technical Elective	Select 15 credits from one of the emphasis areas – Business & Management, Farm Operations, Product Testing & Validation	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 15 credits from one of the emphasis areas – Business & Management, Farm Operations, Product Testing & Validation	See catalog for course options within each emphasis area	3		
Elective			3		
		Total Credit Hours	15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AST 463	Agricultural Waste Management	p. PS 213 or PS 313	3	S	
FIN 280	Personal Finance		3	S	
Technical Elective	Select 15 credits from one of the emphasis areas – Business & Management, Farm Operations, Product Testing & Validation	See catalog for course options within each emphasis area	3		
Technical Elective	Select 15 credits from one of the emphasis areas – Business & Management, Farm Operations, Product Testing & Validation	See catalog for course options within each emphasis area	3		
Elective			2		
		Total Credit Hours	14		

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