



Bachelor of Science in Agriculture, Food and Environmental Sciences
Major: Agricultural Systems Technology
Emphasis: Select from Business, Precision Ag, Processing, or Production
2020-2021 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	
ENGL 101	Composition I (SGR #1)	p. Placement	3		
MATH 114	College Algebra (SGR #5)	p. Placement	3		
PS 103-103L	Crop Production & Lab		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		
ECON 202	Principles of Macroeconomics (SGR #3)		3		
SGR #4	Arts and Humanities/Diversity (SGR #4)		3		
SPCM 101	Fundamentals of Speech (SGR #2)		3		
Total Credit Hours			15		

Second Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AST 273-273L	Agricultural Computer Applications & Lab		3		
PRAG 203-203L	Introduction to Precision Agriculture & Lab		3		
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		
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		
ENGL 201	Composition II (SGR #1)	p. ENGL 101; C or higher required	3		
PHYS 101-101L	Survey of Physics & Lab (SGR #6)		4		
PS 213-213L	Soils & Lab (SGR #6)	p. CHEM 106/L or CHEM 112/L	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	3		
Total Credit Hours			16		



Third Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AST 342-342L	Applied Electricity & Lab		3		
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		
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		
BLAW 350	Legal Environment of Business	Cross-Listed: BADM 350	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	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	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	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 and 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		
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	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	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](#).