



Bachelor of Science in Agriculture, Food and Environmental Sciences

Major: Agricultural Systems Technology

Emphasis: Select from Business, Precision Ag, Processing, or Production

2018-2019 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		2	F	
ENGL 101	Composition I (SGR #1)	p. Placement	3		
GE 121	Engineering Design Graphics I	Or take PRAG 427 Precision Ag Data Mapping (2 cr) in place of GE 121/123 in Jr or Sr Year	1		
MATH 102 and MATH 120 or MATH 115	College Algebra (SGR #5) and Trigonometry (SGR #5) Precalculus (SGR #5)	p. Placement p. MATH 102 or placement p. MATH 102 or placement	5		
PS 103-103L	Crop Production & Lab		3		
Total Credit Hours			14		

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		
SGR #3	Social Sciences/Diversity (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	Microcomputer Applications in Agriculture & Lab		3		
CHEM 106-106L or CHEM 112-112L	Chemistry Survey & Lab (SGR #6) or General Chemistry I & Lab (SGR #6)	p. MATH 101 or higher	4		
ECON 202	Principles of Macroeconomics (SGR #3)		3		
ENGL 201	Composition II (SGR #1)	p. ENGL 101; C or higher required	3		
PRAG 203-203L	Introduction to Precision Ag & Lab		2		
Total Credit Hours			15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ACCT 210	Principles of Accounting I		3		
PHYS 111-111L	Intro to Physics I & Lab (SGR #6)	p. MATH 102 or higher	4		
PS 213-213L	Soils & Lab (SGR #6)	p. CHEM 106/L or CHEM 112/L	3		
SGR #4	Arts and Humanities/Diversity (SGR #4)		3		
Technical Elective	Select courses from one of the emphasis areas – Business, Precision Ag, Production 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



Third Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AST 342-342L	Applied Electricity & Lab		3		
AST 423-423L	Rural Structures & Lab		3	F	
PRAG 340	Climate Risk Management with Precision Agriculture		3		
Technical Elective	Select courses from one of the emphasis areas – Business, Precision Ag, Production or Processing	See catalog for course options within each emphasis area	3		
Technical Elective	Select courses from one of the emphasis areas – Business, Precision Ag, Production 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		
GE 123	Computer Aided Drawing	p. GE 121. OR PRAG 427 Ag Data Mapping in place of GE 121/123 (2 cr)	1		
Technical Elective	Select courses from one of the emphasis areas – Business, Precision Ag, Production or Processing	See catalog for course options within each emphasis area	3		
Technical Elective	Select courses from one of the emphasis areas – Business, Precision Ag, Production or Processing	See catalog for course options within each emphasis area	3		
Technical Elective	Select courses from one of the emphasis areas – Business, Precision Ag, Production or Processing	See catalog for course options within each emphasis area	3		
Total Credit Hours			16		

Summer

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AST 494 or AST 496 or AST 497	Internship Field Experience Cooperative Education		2	SU	
Total Credit Hours			2		

Fourth Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AST 390	Seminar		1	F	
AST 412-412L	Fluid Power Technology & Lab		3	F	
AST 426-426L	Emerging Technologies in Agriculture & Lab		3	F	
Technical Elective	Select courses from one of the emphasis areas – Business, Precision Ag, Production or Processing	See catalog for course options within each emphasis area	3		
Technical Elective	Select courses from one of the emphasis areas – Business, Precision Ag, Production or Processing	See catalog for course options within each emphasis area	3		
Total Credit Hours			13		

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 courses from one of the emphasis areas – Business, Precision Ag, Production or Processing	See catalog for course options within each emphasis area	3		
Technical Elective	Select courses from one of the emphasis areas – Business, Precision Ag, Production or Processing	See catalog for course options within each emphasis area	3		
Technical Elective	Select courses from one of the emphasis areas – Business, Precision Ag, Production or Processing	See catalog for course options within each emphasis area	3		
Technical Elective	Select courses from one of the emphasis areas – Business, Precision Ag, Production or Processing	See catalog for course options within each emphasis area	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