

Major: Precision Agricult	ure			
2023-2024 Sample 4-Year	Plan			
Total Degree Requirements:	120 credits			
Student	Student ID#		Student Phone #	
			Minor/Career	
Advisor	Minimum GPA	*C or higher; 2.5 in major required classes	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 <u>Undergraduate Catalog</u>.

First Year					
Fall					
Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AST 119* or PS 119*	First Year Seminar		1	F	
BIOL 101-101L	Biology Survey I & Lab (SGR #6)		3	F/S	
MATH 114	College Algebra (SGR #5)	p. Placement	3		
PS 103-103L*	Crop Production and Lab		3	F/S	
SGR #2	Oral Communication (SGR #2)		3		
SGR #4	Arts and Humanities (SGR #4)		3		
		Total Credit Hours	16		
Spring					
Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BOT 201-201L	General Botany and Lab (SGR #6)	p. BIOL 101 or BIOL 151	3	S	
ECON 201	Principles of Microeconomics (SGR #3)		3	F/S	
PRAG 203-203L*	Intro to Precision Agriculture and Lab		3	F/S	
SGR #1	Written Communication (SGR #1)	p. Placement	3		
SGR #4	Arts and Humanities (SGR #4)		3		
		Total Credit Hours	15		

Second Year					
<u>Fall</u> Prefix + Number	Course Title	Propognisitas/Commonts	Credits	Semester	Grade
CHEM 106-106L	Chemistry Survey and Lab (SGR #6)	Prerequisites/Comments p. MATH placement	4	F/S	Graue
ENGL 277	Technical Writing in Engineering (SGR #1)	p. GE 101, AST 119, PHYS 119, or PS 119, and ENGL 101 or instructor consent	3	F/S	
AST 342-342L	Applied Electricity & Lab		3	F/S	
PS 223-223L*	Principals of Plant Pathology and Lab	p. BIOL 103/L or 153/L or BOT 201/L	3	F/S	
STAT 281	Introduction to Statistics (SGR #5)	p. MATH 103 or higher	3	F/S/SU	
		Total Credit Hours	16		
Spring			I		
Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ABS 203	Global Food Systems (SGR #3)	•	3		
ACCT 210* or	Principles of Accounting I		3	F/S/SU	
AGEC 271* or	Farm and Ranch Management	p. MATH 103 or higher		F/S/SU	
AGEC 354*	Agricultural Marketing and Prices	p. ECON 201 or ECON 202		F/S/SU	
AST 273	Agricultural Computer Applications		3	F/S	
CHEM 120-120L	Elementary Organic Chemistry and Lab	p. CHEM 106/L or CHEM 112/L	3	S	
PS 213-213L*	Soils and Lab (SGR #6)	p. CHEM 106/L or CHEM 112/L	3	F/S	
		Total Credit Hours	15		

*Students must earn at least a C grade in each major required class and must earn at least a 2.5 cumulative GPA in the major required classes.



Third Year

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AST 390* or PS 490 *	Seminar	p. PS 494	1	F S	1
PHYS 101-101L	Survey of Physics and Lab (SGR #6)	·	4	F/S	
PRAG 340*	Climate Risk Management with Precision Agriculture		3	F	
PRAG 423*	Soil Fertility and Plant Nutrient Management	p. PS 213/L	3	F/S	
PRAG 426*	Corn Production	p. Jr. or Sr. Standing; Select 2 courses from: 424 (Sp Odd), 425 (Sp Even), or 426 (Fall)	2	F	
PRAG 427*	Precision Ag Data Mapping	p. Jr. Standing	2	F/S	
		Total Credit Hours	15		
pring	1				
Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AST 313-313L*	Farm Machinery Systems Management and Lab	p. PHYS 101 or PHYS 111	3	S	
PRAG 345*	Principles and Implications of Chemical Application Systems		3	S	
PRAG 424* and/or PRAG 425*	Wheat Production and/or Soybean Production	p. Jr. or Sr. standing; Select 2 courses from: 424 (Sp Odd), 425 (Sp Even), or 426 (Fall)	2	S	
PS 405-405L or	Entomology and Lab or	p. BIOL 151/L "C" or higher	3	F	
PS 407-407L*	Insect Pest Management and Lab			S	
STAT 383*	Geospatial Data Analysis	p. MATH 114 or STAT 381 or STAT 382	3	S	
		Total Credit Hours	14		
Summer				Somester	

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AST 494* or	Internship		1		
PS 494*		p. Written consent			
		Total Credit Hours	1		

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ABS 475	Integrated Natural Resource Management	p. Senior standing; preferred section is Fall only	3	F	Grade
AST 412-412L*	Fluid Power Technology and Lab		3	F	
AST 426-426L* or PRAG 428*	Technology Applications for Precision Agriculture and lab or Use of Soil and Plant Sensors in Crop Production		3	F F	
PRAG 440-440L*	Crop Management with Precision Farming and Lab	p. PRAG 427	3	F/S	
PS 445-445L*	Weed Science and Lab	p. PS 103/L or HO 111/L; and CHEM 108/L or 120/L or 326/L	3	F	
		Total Credit Hours	15		
pring					
Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AST 333-333L	Soil and Water Mechanics & Lab		3	F/S	
PRAG 304-304L*	Electrical Diagnostics for Farm Machinery and Lab	p. AST 342/L or ET 210/L	3	S	
PRAG 410-410L* or	Soil Geography and Land Use Interpretation and Lab or	p. GEOG 132/L or PS 213/L; PRAG 410/L	3	F/S	
PS 462-462L*	Environmental Soil Management and Lab	Cross-Listed with GEOG 410/L p. PS 213/L		S	
			4		
Electives	As needed to reach 120 total credits		4		

Comments/Notes

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