PRECISION AGRICULTURE TECHNOLOGY & MANAGEMENT

Precision Agriculture Option

Department of Agricultural and Biosystems Engineering - North Dakota State University

FALL 2024*

Student: Stu				Stuc	lent l	ID # Specialization/Minor Advisor									
	FALL				SPRING					Summer Required Courses					
	Course	Crs	Grade ¹	300/400 Level ²	Gen Ed	Course	Crs	Grade ¹	300/400 Level ²	Gen Ed		Course	Crs	Term	
	PAG 115 Introduction to Precision Ag	2		20101		CSCI 114 or TL 116 Micro Pkg/Bus Use	3		2010.	S	PAG 4	96 Field Exp./Internship	1	So.	
crs)	PAG 115L Introduction to Precision Ag Lab	1	1			ENGL 120 College Composition II	3			С		· · ·			
Freshman (<27 crs)	ENGL 110 ³ College Composition I	3			С	PHYS 120 Fundamentals of Physics	3			S					
	MATH 103 ⁴ College Algebra	3				SOIL 210 or ANSC 223 ⁵ Intro to Soil Sci/Intro to An. Nutri	3			S	General Education Electives				
	COMM 110 Fund of Public Speaking	3				Elective	3				See www.ndsu.edu/registrar/gened for approved course				
shn	PLSC 110 or ANSC 114 Wrld Food Crops/Intro to An Sci.	3			S/G						Gen Ed	Course	Crs	Grade	
Fre											Α		3		
		15					15				Α		3		
(27-59 crs)	ASM 225 Computer Appl in ASM	3				PAG 315 Electronic Systems in Prec. Ag	3				В		3		
59 C	CHEM 121 General Chemistry I Lab	3				PAG 348 Ag Technology Expo	1				В		3		
27-5	CHEM 121L/PHYS 120L Choose either lab course	1				SOIL 322 or ANSC 240 Soil Fert/Meat Animal Eval	3				С	ENGL 320, 321, 324, 459 or approved c	ourse		
	PAG 215 Mapping of Precision Ag Data	3				SOC/BEHAVIORAL	3						3		
lore	GEOG 455 Intro to GIS	4				PLSC 225 or ANSC 220 Prin of Crop Prod/Livestock Pro	3				D 🔳	(Double-count with A above)	3		
mo						Elective	3				-	PLSC 110	3		
hdo											W		2		
(60 - 89 crs) Sophomore		14		1			16								
	ASM 354 Electricity and Electronic Appl	3				PAG 454 Princ & Appl of Precision Agric	3					Electives - 28 cr. te			
CLS	PPTH 324 or ANSC 218 Intro to PPTH/Anat. & Phys of Ar	3				Upper-Level Writing (see side list)	3				S	select courses in consultation with			
- 89	AGEC 242 Intro to Ag Management	3				Wellness	2			W		Course	Crs	Grade	
09	HUM/FINE ARTS	3			A	ASM 429 Hydraulics Principals & Apps	3				Program Electives - 18 credits required				
	Elective	3				Elective	3				(May sele		-		
Junior							_								
٦ſ		4.8		L									<u> </u>		
	OTAT 000 Introductors Otatistics	15		1	1	Complete your Degree Audit this semester	14								
crs)	STAT 330 Introductory Statistics	3				PAG 475 Prec Ag Systems (capstone) SOC/BEHAVIORAL	2			Р			<u> </u>		
5 +	ASM 378 Machinery Princ & Mgmt	3					3			В			_		
Senior (90 + crs		3			A/D	Elective	-						_		
r (Elective Elective	3				Elective Elective	3						<u> </u>		
nio	Elective	3				Elective	4								
Se		15		I		Complete your Application for Graduation by Feb. 1st	15				Eree El	ectives - 10 credits allowed			
*13	20 minimum total credits required. The las		credite	smuet	he e		10				FICE ER	Conves - To creans anowed		┥	
	*A minor may require more than 16 credits, therefore, select electiv						Т	otal C	:rodit	e l	┓┠──┼───┼──				
	minor department for current requirements/changes and assignment of a minor							12		5					
	AG students must maintain a 2.5 CGPA in						L	14					+		

*Students must register for an internship in PAG the semester it is being taken.

¹ Use this column to tally grades; use "T" for transfer courses and "IP" for courses currently in progress.

² Use this column to tally 36 credits of 300/400 level courses required for graduation.

³ First year students with a composite ACT score ≥ 21 should register for ENGL 120 (unless transfer credit for ENGL 120 is received). If ENGL 120 is completed with a grade of "C" or better, credits will be awarded for

ENGL 110 with a passing grade (P). For more details on NDSU's English Placement process, go to http://english.ndsu.edu/placement_guidelines_writing_courses/.

⁴ MATH 103 or higher.

⁵ If a student chooses to take both "or" courses, one will count towards the requirement, and the other will count as an elective.

*As a student at NDSU, it is your responsibility to know the requirements of your degree. To ensure all degree requirements are met, meet with your academic advisor regularly and follow your Academic Requirements Report found on Campus Connection. Required PAG courses are typically offered only once per year and all course offerings are subject to change.

Approved Course List for Program Electives

Additional courses may be acceptable. Please discuss with your advisor.

ACCT 201	Elements of Acct II	BIOL 150	General Biology I	GEOG 456	Adv. GIS	SOIL 444	Soil Genesis & Survey
AGEC 244	Agricultural Marketing	BIOL 150L	General Biology I Lab	GEOG 470	Remote Sensing	SOIL 447	Microclimatology
AGEC 246	Intro to Ag Fincnce	BUSN 340	International Business	GEOG 480	GIS Pattern Anlys & Model	SOIL 465	Soil & Plant Analysis
ANSC 320	Dairy cattle Selection	BUSN 487	Managerial Economics	IME 335	Welding Technology	SOIL 480	Soils & Pollution
ANSC 323	Fundamentals of Nutrition	COMM 212	Interpersonal Communication	MGMT 320	Foundations of Mgmt		
ANSC 330	Comp. Meat Grading/Evaluation	COMM 216	Intercultural Communication	MRKT 320	Foundations of Marketing		
ANSC 331	Comp. Livestock Evaluation	COMM 308	Business & Professional Speaking	ME 311	Intro to Aiviation		
ANSC 357	Animal Genetics	CSCI 479	Intro to Data Mining	ME 312	Intro to Flight		
ANSC 463	Physiology of Reproduction	ECON 105	Elements of Economics	ME 313	Commercial Ground School		
ANSC 470	Applied Nutrition	ECON 341	Intermediate Microeconomics	NRM 452	Mgmt Nat. & Rangeland using	GIS	
ASM 115	Fund of Ag Systems Mgmt	ECON 343	Intermediate Macroeconomics	PLSC 315	Genetics		
ASM 125	Fabrication & Construction Tech	ENT 210	Insects, Humans and the Enviro	PLSC 315L	Genetics Lab		
ASM 264	Natural Resources Mgmt	ENT 350	General Entomology	PPTH 454	Diseases of Field & Forage Cr	ops	
ASM 264L	Natural Resources Mgmt Lab	ENT 360	Economic Entomology	SOIL 217	Intro to Meteorology & Climato	logy	
ASM 373	Tractors & Power Units	ENT 410	Intergrated Mgmt of Pests	SOIL 351	Soil ecology		
ASM 374	Power Units Lab	ENT 470	Insect Ecology	SOIL 410	Soils and Land Use		
ASM 429	Hydraulic Power Principles & App	FIN 320	Principles of Finance	SOIL 433	Soil Ecohydrology & Physics		

Potential Minors

Check with the minor department for current requirements/changes and assignment of a minor advisor. Minors in other disciplines are available. Check minor requirements with the minor department no later than the beginning of the junior year. The minor department must certify completion of requirements before a minor will be recorded on the transcript.

Agricultural Systems Mangement Minor (16 credits)		Economics Mino	or (18 -19 credits)	C	Crop & Weed Science Minor (18 credits)				
ASM 264-3		ECON 201-3		PLSC 110-3					
ASM 354-3		ECON 202-3			PLSC 225-3				
ASM 373 or ASM 378 - 3		ECON 341-3 or BUSN 487-4							
		ECON 343-3							
Select 7 credits from the following:		3 credits of 300	0/400 level ECON	6-7 cr. (2	6-7 cr. (2 courses required): 5-6 cr. of the following:				
ASM 225-3 ASM 234-1		AND		PLSC 3	PLSC 315/L - 3/1 PLSC 320-3 PLSC 323-3		PLSC 300/400 level cr.		
ASM 323-3 ASM 348-1		3 credits of 400	0 level ECON	PLSC 3					
ASM 374-3 ASM 429-3				PLSC 3			SOIL 210-3		
ASM 475-2 ASM 496-1 (Internship)						ENT 350-3			
						PPTH 324-3			
Business Administration Minor (24 credits)		Animal Scien	ce Minor (16 credits	5)	Agribusiness Minor (18 credits)				
ACCT 102-3 or ACCT 200 & 201 - 6		ANSC 114-3	ANSC 223-2			ECON 201-3			
ECON 105-3 or ECON 201 & ECON 202 - 6	ANSC 220-3 ANSC 240-3				2 of th	s)			
					AGEC 242-3	AGEC 244-3	AGEC 246-3		
2 of the following (6 credits)	Must include 1 of the	following courses:	Remaining credits may con	ne from					
FIN 320-3	ANSC 300-3	ANSC 370-3	those listed or the follo	wing:	At least 9 add'l cr.				
MGMT 320-3	ANSC 314-3	ANSC 444-3	ANSC 230-2	ANSC 426-2		ECON 341 or			
MRKT 320-3	ANSC 323-3	ANSC 463-3	ANSC 231-2		from any 30	00/400 level AGEC	course		
AND	ANSC 324-3	ANSC 487-3	ANSC 232-2			AGEC 397 & AGEC			
12 credits of 300/400 BUSN, FIN, MGMT, MRKT courses,	ANSC 340-3		ANSC 344-3						
including MIS 370, ENTR 366 & 385, LEAD 305 & 325	ANSC 357-3		ANSC 380-2						