PLANT AND SOIL SCIENCES: CROP PRODUCTION AND MANAGEMENT, BSAG

Requirements for Students Matriculating in or before Academic

Year 2025-2026. Learn more about University Academic Regulation 3.1 (http://catalog.okstate.edu/university-academic-regulations/ #matriculation).

Minimum Overall Grade Point Average: 2.00 Total Hours: 120

Code	Title	Hours			
General Education Requirements					
English Composition					
See Academic Regulation 3.5 (http://catalog.okstate.edu/ university-academic-regulations/#english-composition/)					
ENGL 1113	Composition I	3			
or ENGL 1313	Critical Analysis and Writing I				
Select one of the following:					
ENGL 1213	Composition II				
ENGL 1413	Critical Analysis and Writing II				
ENGL 3323	Technical Writing				
American History & Government					
Select one of the fol	lowing:	3			
HIST 1103	Survey of American History				
HIST 1483	American History to 1865 (H)				
HIST 1493	American History Since 1865 (DH)				
POLS 1113	American Government	3			
Quantitative Thought	& Logical Reasoning (Q)				
STAT 2013	Elementary Statistics (Q) ¹	3			
Understanding Huma	nities-Human Heritage & Cultures (H)				
Courses designated	(H)	3			
Courses designated (DH)					
Reasoning in the Nat	ural Sciences (N)				
Must include one La	boratory-Based Inquiry (L) course				
CHEM 1314	Chemistry I (LN) ¹	4			
or CHEM 1215	Chemical Principles I (LN)				
Course designated (3			
Exploring Society & H	Iuman Behavior (S)				
AGEC 1113	Introduction to Agricultural Economics (S) ¹	3			
Diversity (D)	,				
Courses designated	(D)				
May be paired with a	another designated course				
Global Cultural Comp					
Courses designated	(G)	3			
Additional General Education					
Additional general education credit hours (at least 6 hours) are required to meet the total 40-hour minimum. If courses carry more than one general education designation and can be used to meet multiple minimum general education designation hours above, more than 6 hours of additional general education will be					

required here to meet the 40-hour minimum.

Courses designated	d (Q), (H), (N), (S), (D), (G), or (F).	6
Hours Subtotal		40
College Requirement	nts	
UNIV 1111	First Year Seminar (or other approved first year seminar course)	1
ENTO 2993	Introduction to Entomology (LN)	Э
Departmental Requ	irements	
Select one of the fo	llowing:	З
AGCM 3103	Written Communications in Agricultural Sciences and Natural Resources	
BCOM 3113	Written Communication	
BCOM 3443	Business Communication for International Students	
ENGL 3323	Technical Writing ²	
Select one of the fo	llowing:	3
AGCM 3203	Oral Communications in Agricultural Sciences & Natural Resources (S)	
SPCH 2713	Introduction to Speech Communication (S)	
SPCH 3733	Elements of Persuasion (S) 3	
PLNT 1213	Introduction to Plant and Soil Systems (N)	3
PLNT 2041	Career Development in Plant and Soil Sciences	1
PLNT 4033	Applied Agricultural Meteorology	3
PLNT 4080	Professional Internship	З
or PLNT 4990	Senior Thesis in Plant and Soil Sciences	
PLNT 4571	Professional Preparation in Plant and Soil Sciences	1
SOIL 2124	Fundamentals of Soil Science (N)	4
SOIL 4234	Soil Nutrient Management	4
Select one of the following:		З
MATH 1483	Mathematical Functions and Their Uses (Q)	
MATH 1513	College Algebra (Q) ⁴	
MATH 2103	Business Calculus (Q)	
MATH 2144	Calculus I (Q)	
BIOL 1113 & BIOL 1111	Introductory Biology (N) and Introductory Biology Laboratory (LN)	4
or BIOL 1114	Introductory Biology (LN)	
CHEM 1515 or CHEM 1225	Chemistry II (LN) ⁵ Chemical Principles II (LN)	5
Select one of the fo	llowing:	3
PHYS 1014	Descriptive Physics (N)	
BIOC 2344	Chemistry and Applications of Biomolecules	
CHEM 3013	Survey of Organic Chemistry	
Hours Subtotal		44
Major Requirement	s	
Core Courses		
PBIO 1404	Plant Biology (LN)	4
Select one of the fo	llowing:	3
PBIO 4463	Plant Physiology	
PLNT 4123	Plant-Environment Interactions	
HORT 4963	Horticulture Physiology	
PLNT 2013	Applied Plant Science	3

PLNT 3012	Crops of Oklahoma	2
PLNT 4013	Fundamentals of Weed Science	3
PLNT 4353	Plant Breeding	3
ANSI 4203	Rangeland and Pasture Utilization	3
or NREM 4603	Rangeland and Pasture Utilization	
PLNT 4443	Cropping Systems	3
SOIL 4213	Precision Agriculture	3
Related Courses		
Select 9 hours of the	following:	9
Upper-division PLI 4573	NT including PLNT 4470, PLNT 4933, PLNT	
PLNT 2011	Agronomic Problem Solving	
PBIO 3263	Plants and People (N)	
PBIO 4423	Plant Mineral Nutrition	
PLP 4343	Principles of Plant Pathology	
PLP 3553	Fungi: Myths and More	
ENPP 3663	Turfgrass Integrated Pest Management	
ENTO 3003	Livestock Entomology	
ENTO 3421	Horticultural Insects	
ENTO 3461	Insects in Forest Ecosystems	
ENTO 4854	Medical and Veterinary Entomology	
PLP 4923	Applications of Biotechnology in Pest	
	Management	
SOIL 3433	Soil Genesis, Morphology, and Classification	
SOIL 4363	Environmental Soil Science	
SOIL 4463	Soil and Water Conservation	
SOIL 4483	Soil Microbiology	
SOIL 4683	Soil, Water, and Weather	
SOIL 4893	Environmental Soil Chemistry	
SOIL 3033	Soils and Societies (S)	
ANSI 1021	Introduction to the Animal Sciences Lab	
& ANSI 1023	and Introduction to the Animal Sciences	
or ANSI 1124	Introduction to the Animal Sciences	
ANSI 2123	Livestock Feeding	
ANSI 3423	Animal Genetics	
ANSI 3543	Principles of Animal Nutrition	
ANSI 3653	Applied Animal Nutrition	
ANSI 4203	Rangeland and Pasture Utilization	
HORT 3113	Greenhouse Management	
HORT 4133	Temperature Stress Physiology	
HORT 4953	Plant Growth and Development	
AST 1413	Introduction to Engineering in Agriculture	
AST 2313	Surveying	
AST 3011	Ag Structures	
or AST 3211	Engines and Power	
AST 3222	Metals and Welding	
AST 4112	Land Measurement and Site Analysis	
AST 4203	Agricultural Water Management	
ENVR 4033	Ecology of Invasive Species	
AST 4213	Safety and Health in Agriculture	
GEOG 2344	Digital Tools for Environmental Problem-	
0200 2044	Solving (LN)	

2	GEOG 3023	Climatology (N)			
3	GEOG 3033	Meteorology (N)			
3	NREM 3013	Applied Ecology and Conservation			
3	NREM 3012	Applied Ecology Laboratory			
	NREM 3613	Principles of Rangeland Management			
3	NREM 4033	Ecology Of Invasive Species			
3	BIOL 3023	General Genetics			
	Hours Subtotal	30	5		
9	Electives				
	Select 0 hours or ho	ours to complete required total for degree	0		
	Total Hours	120	D		
	1				
	College & Departmental requirements that may be used to meet General Education requirements.				
	2				
	If ENGL 3323 Technical Writing is used to satisfy ENGL 1213 Composition II above; hours in this block are reduced by 3.				
	3				
	If used as an additional (S) course above, hours in this block reduced by 3.				
	4				
	If used as an additional (Q) course above, hours in this block reduced by 3.				
	5				
	If used as an additio 5.	onal (N) course above, hours in this block reduced by			
	Other Requ	irements			
		0 semester credit hours and 100 grade points must urses numbered 3000 or above.			

• A 2.00 GPA or higher in upper-division hours.

Additional State/OSU Requirements

- At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 and 50% of the upper-division hours in the major field completed at OSU.
- Limit of: one-half of major course requirements as transfer work; onefourth of hours earned by correspondence; 8 transfer correspondence hours.
- Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.
- Degrees that follow this plan must be completed by the end of Summer 2031.