PLANT AND SOIL SCIENCES: CROP PRODUCTION AND MANAGEMENT, BSAG

Requirements for Students Matriculating in or before Academic Year 2024-2025. 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 fol	elect 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			
Analytical & Quantitative Thought (A)					
STAT 2013	Elementary Statistics (A) ¹	3			
Humanities (H)					
Courses designated (H)					
Natural Sciences (N)					
Must include one La	boratory Science (L) course				
CHEM 1314	Chemistry I (LN) ¹	4			
or CHEM 1215	Chemical Principles I (LN)				
Course designated (N) 3					
Social & Behavioral Sciences (S)					
AGEC 1113	Introduction to Agricultural Economics (S) ¹	3			
Additional General Education					
Courses designated (A), (H), (N), or (S) 9					
Hours Subtotal		40			
Diversity (D) & Intern	national Dimension (I)				
May be completed in	n any part of the degree plan				
Select at least one D	Diversity (D) course				
Select at least one International Dimension (I) course					
College Requirements					
UNIV 1111	First Year Seminar (or other approved first year seminar course)	1			
ENTO 2993	Introduction to Entomology (LN)	3			
Departmental Requirements					

Select one of the fo	llowing:	3
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	3
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 fo	llowing:	3
MATH 1483	Mathematical Functions and Their Uses (A)	
MATH 1513	College Algebra (A) ⁴	
MATH 2103	Business Calculus (A)	
MATH 2144	Calculus I (A)	
BIOL 1113 & BIOL 1111	Introductory Biology (N) and Introductory Biology Laboratory (LN)	4
or BIOL 1114	Introductory Biology (LN)	
CHEM 1515	Chemistry II (LN) ⁵	5
or CHEM 1225	Chemical Principles II (LN)	
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	Principles 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

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Re	elated Courses		
Se	elect 9 hours of the	following:	9
	Upper-division PLN 4573	IT including PLNT 4470, PLNT 4933, PLNT	
	PLNT 2011	Agronomic Problem Solving	
	PBIO 3263	Plants and People (N)	
	PBIO 4423	Plant Mineral Nutrition	
	PLP 3343	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	
	or ENPP 5923	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 2011	Ag Structures	
	or AST 3211	5	
		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- Solving (LN)	
	GEOG 3023	Climatology (N)	
	GEOG 3033	Meteorology (N)	
	NREM 3013	Applied Ecology and Conservation	
	NREM 3012	Applied Ecology Laboratory	
	NREM 3613	Principles of Rangeland Management	
	NREM 4033	Ecology Of Invasive Species	
	BIOL 3023	General Genetics	

Hours Subtotal	
Electives	
Select 0 hours or hours to complete required total for degree	
Total Hours	

College & Departmental requirements that may be used to meet General Education requirements.

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If ENGL 3323 Technical Writing is used to satisfy ENGL 1213 Composition II above; hours in this block are reduced by 3.

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If used as (S) course above, hours in this block reduced by 3.

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If used as (A) course above, hours in this block reduced by 3.

If used as (N) course above, hours in this block reduced by 5.

Other Requirements

- A minimum of 40 semester credit hours and 100 grade points must be earned in courses 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 or 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 2030.