

PLANT AND SOIL SCIENCES: CROP PRODUCTION AND MANAGEMENT, BSAG

Requirements for Students Matriculating in or before Academic Year 2022-2023. 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		
<i>English Composition</i>		
See Academic Regulation 3.5 (http://catalog.okstate.edu/university-academic-regulations/#english-composition/)		
ENGL 1113 or ENGL 1313	Composition I Critical Analysis and Writing I	3
Select one of the following:		3
ENGL 1213	Composition II	
ENGL 1413	Critical Analysis and Writing II	
ENGL 3323	Technical Writing	
<i>American History & Government</i>		
Select one of the following:		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
<i>Analytical & Quantitative Thought (A)</i>		
STAT 2013	Elementary Statistics (A) ¹	3
<i>Humanities (H)</i>		
Courses designated (H)		6
<i>Natural Sciences (N)</i>		
Must include one Laboratory Science (L) course		
CHEM 1314 or CHEM 1215	Chemistry I (LN) ¹ Chemical Principles I (LN)	4
Course designated (N)		3
<i>Social & Behavioral Sciences (S)</i>		
AGEC 1113	Introduction to Agricultural Economics (S) ¹	3
<i>Additional General Education</i>		
Courses designated (A), (H), (N), or (S)		9
Hours Subtotal		40
Diversity (D) & International Dimension (I)		
May be completed in any part of the degree plan		
Select at least one Diversity (D) course		
Select at least one International Dimension (I) course		
College Requirements		
AG 1011	First Year Seminar	1
ENTO 2993	Introduction to Entomology (LN)	3
Departmental Requirements		
Select one of the following:		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 following:		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 1101	Orientation to Plant and Soil Sciences	1
PLNT 1213	Introduction to Plant and Soil Systems	3
PLNT 2041	Career Development in Plant and Soil Sciences	1
PLNT 4033	Applied Agricultural Meteorology	3
PLNT 4080 or PLNT 4990	Professional Internship Senior Thesis in Plant and Soil Sciences	3
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:		3
MATH 1513	College Algebra (A) ⁴	
MATH 2103	Business Calculus (A)	
MATH 2144	Calculus I (A)	
BIOL 1113 & BIOL 1111 or BIOL 1114	Introductory Biology (N) and Introductory Biology Laboratory (LN) Introductory Biology (LN)	4
CHEM 1515 or CHEM 1225	Chemistry II (LN) ⁵ Chemical Principles II (LN)	5
Select one of the following:		5
CHEM 3013 & CHEM 3012	Survey of Organic Chemistry and Survey of Organic Chemistry Laboratory	
BIOC 2344	Chemistry and Applications of Biomolecules	
PHYS 1014	Descriptive Physics (N)	
Hours Subtotal		47
Major Requirements		
<i>Core Courses</i>		
PBIO 1404	Plant Biology (LN)	4
Select one of the following:		3
PBIO 4463	Plant Physiology	
PBIO 3263	Plants and People (N)	
PBIO 4423	Plant Mineral Nutrition	
PLNT 2013	Applied Plant Science	3
PLNT 3011	Crops of Oklahoma	1
PLNT 4013	Principles of Weed Science	3
Select one of the following:		3
PLNT 4123	Plant-Environment Interactions	
PLNT 4573	Bioenergy Feedstock Production	
PLNT 4933	Plant Biotechnology and Transgenic Plants	

PLNT 4353	Plant Breeding	3
ANSI 4203	Rangeland and Pasture Utilization	3
or NREM 4603	Rangeland and Pasture Utilization	
BIOL 3023	General Genetics	3
or ANSI 3423	Animal Genetics	
SOIL 4213	Precision Agriculture	3
<i>Related Courses</i>		
Select 4 hours of the following:		4
Upper-division PLNT including PLNT 4470		
PLP 3343	Principles of Plant Pathology	
PLP 3553	Fungi: Myths and More	
PLP 3663	Turfgrass Integrated Pest Management	
ENTO 3003	Livestock Entomology	
ENTO 3021	Postharvest, Structural, and Urban Arthropod Pests	
ENTO 3331	Insect Pests of Agronomic Crops	
ENTO 3421	Horticultural Insects	
ENTO 3461	Insects in Forest Ecosystems	
ENTO 4854	Medical and Veterinary Entomology	
or ENTO 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	
ANSI 1124	Introduction to the Animal Sciences	
ANSI 2123	Livestock Feeding	
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	
HORT 4963	Horticulture Physiology	
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	
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	
Hours Subtotal		33

Electives

Select 0 hours or hours to complete required total for degree	0
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Total Hours	120
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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 (S) course above, hours in this block reduced by 3.

4

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

5

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; one-fourth 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 2028.