

AGRICULTURAL SYSTEMS TECHNOLOGY, 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		
<i>English Composition</i>		
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:		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>		
MATH 2123	Calculus for Technology Programs I (A)	3
or MATH 2103	Business Calculus (A)	
STAT 2013	Elementary Statistics (A)	3
or STAT 2023	Elementary Statistics for Business and Economics (A)	
<i>Humanities (H)</i>		
Courses designated (H)		6
<i>Natural Sciences (N)</i>		
Must include one Laboratory Science (L) course		
PHYS 1114	College Physics I (LN)	4
Course designated (N)		2
<i>Social & Behavioral Sciences (S)</i>		
SPCH 2713	Introduction to Speech Communication (S)	3
or AGCM 3203	Oral Communications in Agricultural Sciences & Natural Resources (S)	
<i>Additional General Education</i>		
Courses designated (A), (H), (N), or (S)		7
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/Departmental Requirements		
<i>Agricultural Sciences and Natural Resources</i>		

UNIV 1111	First Year Seminar (or other approved first year seminar course)	1
SOIL 2124	Fundamentals of Soil Science (N)	4
Select one of the following:		3
PLNT 1213	Introduction to Plant and Soil Systems	
ENVR 1113	Elements of Environmental Science (N)	
FDSC 1133	Fundamentals of Food Science	
AGEC 1113	Introduction to Agricultural Economics (S)	3
or ECON 2103	Introduction to Microeconomics (S)	
<i>Written and Oral Communications</i>		
Select one of the following:		3
AGCM 3103	Written Communications in Agricultural Sciences and Natural Resources	
BCOM 3113	Written Communication	
ENGL 3323	Technical Writing	
CHEM 1314	Chemistry I (LN)	4
Hours Subtotal		18
Major Requirements		
<i>Core Courses</i>		
AST 1413	Introduction to Engineering in Agriculture	3
AST 2313	Surveying	3
AST 3102	Principles of Agricultural Electrification	2
AST 4101	Ag Electrification	1
AST 4213	Safety and Health in Agriculture	3
AST 4203	Agricultural Water Management	3
AST 4303	Automation, Sensors and Controls for Agricultural Systems	3
AST 4013	Capstone for Agricultural Systems Technology	3
AGEC 3213	Quantitative Methods in Agricultural Economics	3
AGEC 3423	Farm and Agribusiness Management	3
or MGMT 3013	Fundamentals of Management (S)	
Select from one of the following pairs of courses:		6
ACCT 2103	Financial Accounting	
ACCT 2203	Managerial Accounting	
OR		
ACCT 2003	Survey of Accounting	
ACCT 3004	Foundational Accounting and Data Skills	
<i>Technical Agriculture Electives</i>		
Select 21 hours from the following:		21
ANSI 1124	Introduction to the Animal Sciences	
ANSI 2112	Live Animal Evaluation	
ANSI 2123	Livestock Feeding	
ANSI 2253	Meat Animal and Carcass Evaluation	
ANSI 3333	Meat Science	
ANSI 3423	Animal Genetics	
ENTO 2003	Insects and Society (N)	
ENTO 2143	Global Agricultural Biosecurity and Forensics	
ENTO 2223	Insects in Global Public Health (N)	
ENTO 2993	Introduction to Entomology (LN)	
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
FDSC 3113	Quality Control
FDSC 3123	HACCP in the Food Industry
FDSC 3154	Food Microbiology
FDSC 3133	Plant Sanitation for Food Processing Operations
FDSC 3373	Food Chemistry I
FDSC 4123	Principles of Food Engineering
FDSC 4143	Food Safety Modernization Act
FDSC 4233	Food Safety Audit Schemes
HORT 1013	Principles of Horticultural Science (LN)
HORT 2513	Herbaceous Plant Materials
HORT 2613	Woody Plant Materials
HORT 3084	Plant Propagation
HORT 3113	Greenhouse Management
HORT 3153	Turf Management
HORT 3213	Fruit and Nut Production
HORT 3433	Commercial Vegetable Production
NREM 2083	Geospatial Technologies for Natural Resources
NREM 3613	Principles of Rangeland Management
NREM 3063	Natural Resource Biometrics
PLNT 2013	Applied Plant Science
PLNT 3554	Plant Genetics and Biotechnology
PLNT 4013	Principles of Weed Science
SOIL 4234	Soil Nutrient Management
SOIL 4213	Precision Agriculture
SOIL 4363	Environmental Soil Science
SOIL 4463	Soil and Water Conservation
SOIL 4483	Soil Microbiology
Hours Subtotal	54
Electives	
Select 8 hours or hours to complete required total for degree	8
Hours Subtotal	8
Total Hours	120

- 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.

Other Requirements

- A minimum of 40 semester credit hours and 100 grade points 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.