# FOOD SCIENCE, 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

General Education Requirements   English Composition   See Academic Regulation 3.5 (http://catalog.okstate.edu/ university-academic-regulations/#english-composition/)   ENGL 1113 Composition I   a or ENGL 1313 Critical Analysis and Writing I   Select one of the following: 3   ENGL 1213 Composition II   ENGL 1213 Composition II   ENGL 1323 Technical Writing   American History & Government 3   Select one of the following: 3   HIST 1103 Survey of American History   HIST 1483 American History to 1865 (H)   HIST 1483 American Government   20antitative Thought & Logical Reasoning (Q) 3   MATH 1513 College Algebra (Q) <sup>1</sup> 3   or STAT 2023 Elementary Statistics for Business and Economics (Q) 3   Understanding Humanities-Human Heritage & Cultures (H) 3 3   Courses designated (H) 3 3   Reasoning in the Natural Sciences (N) 4 BIOL 1111 and Introductory Biology Laboratory (LN) <sup>1</sup> BIOL 1114 Introductory Biology Laboratory (LN) <sup>1</sup> 3 3   Algee 1113	Code	Title	Hours	
See Academic Regulation 3.5 (http://catalog.okstate.edu/ university-academic-regulations/#english-composition/) ENGL 1113 Composition I 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 American History & Government Select one of the following: 3 HIST 1103 Survey of American History HIST 1483 American History to 1865 (H) HIST 1483 American History to 1865 (DH) POLS 1113 American Government 3 Quantitative Thought & Logical Reasoning (Q) MATH 1513 College Algebra (Q) <sup>1</sup> 3 or MATH 1483 Mathematical Functions and Their Uses (Q) STAT 2013 Elementary Statistics for Business and Economics (Q) Understanding Humanities-Human Heritage & Cultures (H) Courses designated (DH) 3 Reasoning in the Natural Sciences (N) Must include one Laboratory-Based Inquiry (L) course Select four hours from the following: 4 BIOL 1113 Introductory Biology (N) & BIOL 1111 and Introductory Biology (LN) <sup>1</sup> BIOL 1114 Introductory Biology (LN) <sup>1</sup> Any course designated (N) 3 <i>Exploring Society &amp; Human Behavior (S)</i> AGEC 1113 Introduction to Agricultural Economics (S) <sup>1</sup> 3 <i>Diversity (D)</i> Courses designated (D) May be paired with another designated course	General Education F	Requirements		
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Courses designated (G)3May be paired with another designated course		•		
May be paired with another designated course				
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Additional general education credit hours (at least 3 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 3 hours of additional general education will be required here to meet the 40-hour minimum.

required here to me		
Courses designated	d (Q), (H), (N), (S), (D), (G), or (F).	3
Hours Subtotal		40
College/Departmen	tal Requirements	
UNIV 1111	First Year Seminar (or other approved first year seminar course)	1
ANSI 2111	Animal and Food Science Professional Development	1
ANSI 2233	The Meat We Eat	3
or ANSI 2253	Meat Animal and Carcass Evaluation	
FDSC 1133	Fundamentals of Food Science	3
CHEM 1215	Chemical Principles I (LN) <sup>2</sup>	4
or CHEM 1314	Chemistry I (LN)	
Select one of the fo		3
ENVR 1113	Elements of Environmental Science (N)	
HORT 1013	Principles of Horticultural Science (LN)	
BIOC 2344	Chemistry and Applications of Biomolecules	
PLNT 1213	Introduction to Plant and Soil Systems (N)	
Written and Oral Cor	nmunications	
Select one of the fo	llowing:	3
AGCM 3103	Written Communications in Agricultural Sciences and Natural Resources	
ENGL 3323	Technical Writing <sup>3</sup>	
BCOM 3113	Written Communication	
Select one of the fo	llowing: <sup>4</sup>	3
AGCM 3203	Oral Communications in Agricultural Sciences & Natural Resources (S)	
SPCH 2713	Introduction to Speech Communication (S)	
Hours Subtotal		21
Major Requirement	S	
Core Courses		
ANSI 4863	Capstone for Animal Agriculture	3
FDSC 3123	HACCP in the Food Industry	3
FDSC 3154	Food Microbiology	4
FDSC 3373	Food Chemistry I	3
FDSC 4143	Food Safety Modernization Act	3
FDSC 4763	Analysis of Food Products	3
Additional Core		
CHEM 1225 or CHEM 1515	Chemical Principles II (LN) Chemistry II (LN)	5
MICR 2123 & MICR 2132	Introduction to Microbiology and Introduction to Microbiology Laboratory	5
NSCI 3543 or ANSI 3543	Food and the Human Environment (GS) Principles of Animal Nutrition	3
	Illowing Emphasis areas:	21

FDSC 3133	Plant Sanitation for Food Processing Operations		
FDSC 4113	Internal Audit and Advanced HACCP		
FDSC 4153	Advanced Food Microbiology		
AGEC 3713	Agricultural Law		
9 hours of 4000 le			
Meats Emphasis			
ANSI 1124	Introduction to the Animal Sciences		
ANSI 3232	Advanced Meat Evaluation		
ANSI 3333	Meat Science		
FDSC 4333	Processed Meat		
9 hours of 4000 level FDSC			
Industry Emphasis			
9 hours of 3000 level FDSC			
12 hours of 4000 level FDSC			
Science Emphasis			
FDSC 4113	Internal Audit and Advanced HACCP		
PHYS 1014	Descriptive Physics (N)		
CHEM 3013	Survey of Organic Chemistry		
CHEM 3012	Survey of Organic Chemistry Laboratory		
BIOC 3653	Survey of Biochemistry		
3 hours of 3000 le	3 hours of 3000 level FDSC		
3 hours of 4000 level FDSC			
<b>Related</b> Courses			
Select 6 hours from any courses from Ferguson College of Agriculture, Spears School of Business, MMJ or SC		6	
Hours Subtotal		59	
Electives			
Select 0 hours or hours to complete required total for degree		0	
Total Hours		120	

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1
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College & Departmental requirements that may be used to meet GE requirements.

#### 2

If used for (N) requirement, hours in this block are reduced by CHEM course hours.

#### 3

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

#### 4

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

### **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 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.