FOOD SCIENCE, BSAG

Requirements for Students Matriculating in or before Academic Year 2023-2024. 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1113</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 1313</td>
<td>Critical Analysis and Writing I</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 1213</td>
<td>Composition II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1413</td>
<td>Critical Analysis and Writing II</td>
<td></td>
</tr>
<tr>
<td>ENGL 3323</td>
<td>Technical Writing</td>
<td></td>
</tr>
</tbody>
</table>

American History & Government

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     |

Analytical & Quantitative Thought (A)

MATH 1513          | College Algebra (A)¹         | 3     |
or MATH 1483       | Mathematical Functions and Their Uses (A) | |
STAT 2013          | Elementary Statistics (A)¹   | 3     |
or STAT 2023       | Elementary Statistics for Business and Economics (A) | |

Humanities (H)

Courses designated (H) 6

Natural Sciences (N)

Must include one Laboratory Science (L) course

Select four hours from the following: 4

- BIOL 1113 | Introductory Biology (N)  |
- BIOL 1111 | and Introductory Biology Laboratory (LN)¹ |
- BIOL 1114 | Introductory Biology (LN)¹ |

Any 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) 6

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

AG 1011          | First Year Seminar           | 1     |

FDSC 1133          | Fundamentals of Food Science | 3     |
CHEM 1215          | Chemical Principles I (LN)²  | 4     |
or CHEM 1314       | Chemistry I (LN)             |

Select one of the following: 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 |

Written and Oral Communications

Select one of the following: 3

AGCM 3103          | Written Communications in Agricultural Sciences and Natural Resources |
ENGL 3323          | Technical Writing³          |
BCOM 3113          | Written Communication        |

Select one of the following: 4

AGCM 3203          | Oral Communications in Agricultural Sciences & Natural Resources (S) |
SPCH 2713          | Introduction to Speech Communication (S) |

Hours Subtotal 21

Major Requirements

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          | Chemical Principles II (LN)    | 5     |
or CHEM 1515       | Chemistry II (LN)              |
MICR 2123          | Introduction to Microbiology    |
&MICR 2132         | and Introduction to Microbiology Laboratory |
NSCI 3543          | Food and the Human Environment (IS) | 3     |
or ANSI 3543       | Principles of Animal Nutrition  |

Select one of the following Emphasis areas: 21

Safety Emphasis

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 level FDSC

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 level FDSC
- 3 hours of 4000 level FDSC

**Related Courses**

Select 6 hours from any courses from Ferguson College of Agriculture, Spears School of Business, MMJ or SC

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1014</td>
<td>Descriptive Physics (N)</td>
</tr>
<tr>
<td>CHEM 3013</td>
<td>Survey of Organic Chemistry</td>
</tr>
<tr>
<td>CHEM 3012</td>
<td>Survey of Organic Chemistry Laboratory</td>
</tr>
<tr>
<td>BIOC 3653</td>
<td>Survey of Biochemistry</td>
</tr>
<tr>
<td>3 hours</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

**Electives**

Select 0 hours or hours to complete required total for degree

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 hours of 3000 level FDSC</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

**Total Hours**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 hours of 4000 level FDSC</td>
<td>9 hours</td>
</tr>
<tr>
<td>Industry Emphasis</td>
<td>9 hours of 3000 level FDSC</td>
</tr>
<tr>
<td>Science Emphasis</td>
<td>12 hours of 4000 level FDSC</td>
</tr>
<tr>
<td>Related Courses</td>
<td>9 hours</td>
</tr>
<tr>
<td>Hours Subtotal</td>
<td>59 hours</td>
</tr>
<tr>
<td>Electives</td>
<td>0 hours</td>
</tr>
<tr>
<td>Total Hours</td>
<td>120 hours</td>
</tr>
</tbody>
</table>

1

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 (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 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 2029.