Curriculum in Food Science

Administered by the Department of Food Science and Human Nutrition

Students select one of the following options and complete all requirements for that option: food science and technology option or food science and industry option. Courses listed below are required for all of the options, except where specified by option below.

**Total Degree Requirement: 120 cr.**

Students must fulfill International Perspectives and U.S. Diversity requirements by selecting coursework from approved lists. These courses may also be used to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements. Only 65 cr. from a two-year institution may apply to fulfill other area requirements.

### International Perspectives: 3 cr.

**U.S. Diversity: 3 cr.**

**Communications and Library: 10 cr.**

- ENGL 150 Critical Thinking and Communication 3
- ENGL 250 Written, Oral, Visual, and Electronic Composition 3
- LIB 160 Information Literacy 1
- SP CM 212 Fundamentals of Public Speaking 3

**Total Credits 10**

**Humanities and Social Sciences: 6-12 cr.**

Select Humanities course from approved list 3

- ECON 101 Principles of Microeconomics 3
- If H Sci student, select: 6
  - Additional Humanities course
  - Additional Humanities or Social Science course

**Ethics and Environmental: 3-6 cr.**

- FS HN 342 World Food Issues: Past and Present 3
- If AgLS student, select from: 2-3
  - ENV S 120 Introduction to Renewable Resources
  - ENV S 201 Introduction to Environmental Issues

**Mathematical Sciences: 7-12 cr.**

**Food science and technology option:**

Select from: 8

- MATH 165 Calculus I & MATH 166 Calculus II
  - or
  - MATH 181 Calculus I & MATH 182 Calculus and Mathematical Modeling for the Life Sciences I and Calculus and Mathematical Modeling for the Life Sciences II

Select at least 3 credits from: 3-4

- STAT 101 Principles of Statistics
- STAT 104 Introduction to Statistics
- STAT 105 Introduction to Statistics for Engineers

**Total Credits 11-12**

**Food science and industry option:**

Select at least 4 credits from: 4

- MATH 160 Survey of Calculus
- MATH 165 Calculus I
- MATH 181 Calculus and Mathematical Modeling for the Life Sciences I

Select at least 3 credits from: 3-4

- STAT 101 Principles of Statistics
- STAT 104 Introduction to Statistics

### Physical Sciences: 13-25 cr.

**Food science and technology option:**

- CHEM 177 General Chemistry I 4
- CHEM 177L Laboratory in General Chemistry I 1
- CHEM 178 General Chemistry II 3
- CHEM 331 Organic Chemistry I 3
- CHEM 331L Laboratory in Organic Chemistry I 1
- CHEM 332 Organic Chemistry II 3
- PHYS 111 General Physics 5
- PHYS 112 General Physics 5

**Total Credits 25**

**Food science and industry option:**

Select from: 5-8

- CHEM 163 College Chemistry & 163L and Laboratory in College Chemistry
- CHEM 177 General Chemistry I & 177L and Laboratory in General Chemistry I & CHEM 178 and General Chemistry II
- CHEM 231 Elementary Organic Chemistry 3
- CHEM 231L Laboratory in Elementary Organic Chemistry 1
- PHYS 115 Physics for the Life Sciences 4-5
  - or PHYS 111 General Physics

**Total Credits 13-17**

**Biological Sciences: 12-13 cr.**

**Food science and technology option:**

- BBMB 301 Survey of Biochemistry 3
- BIOL 211 Principles of Biology I 3
- BIOL 212 Principles of Biology II 3
- MICRO 302 Biology of Microorganisms 3
- MICRO 302L Microbiology Laboratory 1

**Total Credits 13**

**Food science and industry option:**

- BBMB 301 Survey of Biochemistry 3
- BIOL 211 Principles of Biology I 3
- BIOL 212 Principles of Biology II 3
- MICRO 201 Introduction to Microbiology 2-3
  - or MICRO 302 or MICRO 302L Microbiology Laboratory
  - or MICRO 302L Microbiology Laboratory

**Total Credits 12-13**

**Food Science and Human Nutrition: 44 cr.**

- FS HN 101 Food and the Consumer 3
- FS HN 110 Professional and Educational Preparation 1
- FS HN 167 Introduction to Human Nutrition 3
- FS HN 203 Contemporary Issues in Food Science and Human Nutrition 1
- FS HN 311 Food Chemistry 3
- FS HN 311L Food Chemistry Laboratory 1
- FS HN 351 Introduction to Food Engineering Concepts 3
- FS HN 403 Food Laws, Regulations, and the Regulatory Process 2
- FS HN 405 Food Quality Assurance 3
- FS HN 406 Sensory Evaluation of Food 3
- FS HN 410 Food Analysis 3
- FS HN 411 Food Ingredient Interactions and Formulations 2
- FS HN 412 Food Product Development 3
- FS HN 420 Food Microbiology 3
- FS HN 421 Food Microbiology Laboratory 3
- FS HN 471 Food Processing I 3
### Food Science (AGLS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FS HN 472</td>
<td>Food Processing II</td>
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<tr>
<td>FS HN 480</td>
<td>Professional Communication in Food Science and Human Nutrition</td>
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**Food science and industry option:**

Select 6 credits from the following business courses:

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<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ACCT 215</td>
<td>Legal Environment of Business</td>
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<tr>
<td>ACCT 284</td>
<td>Financial Accounting</td>
</tr>
<tr>
<td>ACCT 285</td>
<td>Managerial Accounting</td>
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<tr>
<td>ECON 301</td>
<td>Intermediate Microeconomics</td>
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<td>ECON 320</td>
<td>Labor Economics</td>
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<tr>
<td>MGMT 310</td>
<td>Entrepreneurship and Innovation</td>
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<td>MGMT 370</td>
<td>Management of Organizations</td>
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<td>MGMT 371</td>
<td>Organizational Behavior</td>
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<td>MGMT 414</td>
<td>International Management</td>
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<td>MGMT 472</td>
<td>Management of Diversity</td>
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<td>MIS 301</td>
<td>Management Information Systems</td>
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<tr>
<td>MKT 340</td>
<td>Principles of Marketing</td>
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<tr>
<td>MKT 447</td>
<td>Consumer Behavior</td>
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<tr>
<td>MKT 448</td>
<td>Global Marketing</td>
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**Total Credits**

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<td></td>
<td><strong>Total Credits</strong></td>
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**Electives: 0-23 cr.** Select from any university coursework to earn at least 120 total credits.

Go to FS HN courses.