FOOD SCIENCE & TECHNOLOGY

DESCRIPTION

Food science and technology students find career opportunities with food processing firms, government agencies, and educational institutions. Types of positions available to food science and technology graduates include new product development, quality assurance, food plant management, food research, food marketing and sales, and education.

The curriculum includes a balance of courses in food science, biological sciences, physical sciences, mathematics, social sciences, and humanities. Food science courses include food engineering, food analysis, food chemistry, food microbiology, nutrition, quality assurance, and commodity processing courses. Students are encouraged to participate in an internship program that provides summer employment in the food industry.

College Requirements

College Admission

Requirements for admission into the College of Agricultural Sciences and Natural Resources (CASNR) are consistent with general University admission requirements (one unit equals one high school year): 4 units of English, 4 units of mathematics, 3 units of natural sciences, 3 units of social sciences, and 2 units of world language. Students must also meet performance requirements: a 3.0 cumulative high school grade point average OR an ACT composite of 20 or higher, writing portion not required OR a score of 1040 or higher on the SAT Critical Reading and Math sections OR rank in the top one-half of graduating class; transfer students must have a 2.0 (on a 4.0 scale) cumulative grade point average and 2.0 on the most recent term of attendance.

Admission Deficiencies/Removal of Deficiencies

Students who are admitted to CASNR with core course deficiencies must remove these deficiencies within the first 30 credit hours at the University of Nebraska–Lincoln, or within the first calendar year at Nebraska, whichever takes longer. College-level coursework taken to remove deficiencies may be used to meet degree requirements in CASNR.

Deficiencies in the required entrance subjects can be removed by the completion of specified courses in the University or by correspondence.

The Office of Admissions, Alexander Building (south entrance), City Campus, provides information to new students on how deficiencies can be removed.

College Degree Requirements

Curriculum Requirements

The curriculum requirements of the College consist of three areas: ACE (Achievement-Centered Education), College of Agricultural Sciences and Natural Resources Core, and Degree Program requirements and electives. All three areas of the College Curriculum Requirements are incorporated within the description of the Major/Degree Program sections of the catalog. The individual major/degree program listings of classes ensure that a student will meet the minimum curriculum requirements of the College.

World Languages/Language Requirement

Two units of a world language are required. This requirement is usually met with two years of high school language.

Experiential Learning

All undergraduates in the College of Agricultural Sciences and Natural Resources must take an Experiential Learning (EL) designated course. This may include 0-credit courses designed to document co-curricular activities recognized as Experiential Learning.

Minimum Hours Required for Graduation

The College grants the bachelors degree in programs associated with agricultural sciences, natural resources, and related programs. Students working toward a degree must earn at least 120 semester hours of credit. A minimum cumulative grade point average of C (2.0 on a 4.0 scale) must be maintained throughout the course of studies and is required for graduation. Some degree programs have a higher cumulative grade point average required for graduation. Please check the degree program on its graduation cumulative grade point average.

Grade Rules

Removal of C-, D, and F Grades

Only the most recent letter grade received in a given course will be used in computing a student's cumulative grade point average if the student has completed the course more than once and previously received a grade or grades below C in that course.

The previous grade (or grades) will not be used in the computation of the cumulative grade point average, but it will remain a part of the academic record and will appear on any transcript.

A student can remove from their cumulative average a course grade of C, D+, D, D-, or F if the student repeats the same course at the University of Nebraska and receives a grade other than P (pass), I (incomplete), N (no pass), W (withdrew), or NR (no report). If a course is no longer being offered, it is not eligible for the revised grade point average computation process.

For complete procedures and regulations, see the Office of the University Registrar website at http://www.unl.edu/regrec/course-repeats/(http://www.unl.edu/regrec/course-repeats/).

Pass/No Pass

Students in CASNR may take any course offered on a Pass/No Pass basis within the 24-hour limitation established by the Faculty Senate. However, a department may specify that the Pass/No Pass status of its courses be limited to non-majors or may choose to offer some courses for letter grades only.

GPA Requirements

A minimum cumulative grade point average of C (2.0 on a 4.0 scale) must be maintained throughout the course of studies and is required for graduation. Some degree programs have a higher cumulative grade point average required for graduation. Please check the degree program on its graduation cumulative grade point average.

Transfer Credit Rules

To be considered for admission a transfer student, Nebraska resident or nonresident, must have an accumulated average of C (2.0 on a 4.0 scale) and a minimum C average in the last semester of attendance at another college. Transfer students who have completed less than 12 credit hours of college study must submit either ACT or SAT scores.
Ordinarily, credits earned at an accredited college are accepted by the University. The College, however, will evaluate all hours submitted on an application for transfer and reserves the right to accept or reject any of them. Sixty (60) is the maximum number of hours the University will accept on transfer from a two-year college. Ninety (90) is the maximum number of hours the University will accept from a four-year college. Transfer credit in the degree program must be approved by the degree program advisor on a Request for Substitution Form to meet specific course requirements, group requirements, or course level requirements in the major. At least 9 hours in the major field, including the capstone course, must be completed at the University of Nebraska–Lincoln regardless of the number of hours transferred.

The College will accept no more than 10 semester hours of C-, D+, D, and D- grades from other schools. The C-, D+, D, and D- grades can only be applied to free electives. This policy does not apply to the transfer of grades from UNO or UNK to the University of Nebraska–Lincoln.

**Joint Academic Transfer Programs**

The College of Agricultural Sciences and Natural Resources has agreements with many institutions to support joint academic programs. The transfer programs include dual degree programs and cooperative degree programs. Dual degree programs offer students the opportunity to receive a degree from a participating institution and also to complete the requirements for a bachelor of science degree in CASNR. Cooperative programs result in a single degree from either the University of Nebraska–Lincoln or the cooperating institution.

**Dual Degree Programs**

**A to B Programs**

The A to B Program, a joint academic program offered by the CASNR and participating community colleges, allows students to complete the first two years of a degree program at the participating community college and continue their education and study in a degree program leading toward a bachelor of science degree.

The A to B Program provides a basic knowledge plus specialized coursework. Students transfer into CASNR with junior standing.

Depending on the community college, students enrolled in the A to B Program may complete the requirements for an associate of science at the community college, transfer to the University of Nebraska–Lincoln, and work toward a bachelor of science degree.

Participating community colleges include:

- Central Community College
- Metropolitan Community College
- Mid-Plains Community College
- Nebraska College of Technical Agriculture
- Nebraska Indian Community College
- Northeast Community College
- Southeast Community College
- Western Nebraska Community College

**3+2 Programs**

Two specialized degree programs in animal science and veterinary science are offered jointly with an accredited college or school of veterinary medicine. These two programs permit CASNR animal science or veterinary science students to receive a bachelor of science degree from the University of Nebraska–Lincoln with a degree in animal science or veterinary science after successfully completing two years of the professional curriculum in veterinary medicine at an accredited veterinary school. Students who successfully complete the 3+2 Program, must provide transcripts and complete the Application for Degree form via MyRED. Students without MyRED access may apply for graduation in person at Husker Hub in the Canfield Administration Building, or by mail. Students should discuss these degree programs with their academic advisor.

**Cooperative Degree Programs**

Academic credit from the University and a cooperating institution are applied towards a four-year degree from either the University of Nebraska–Lincoln (University degree-granting program) or the cooperating institution (non-University degree-granting program). All have approved programs of study.

**UNL Degree-Granting Programs**

A University of Nebraska–Lincoln degree-granting program is designed to provide students the opportunity to complete a two-year program of study at one of the four-year institutions listed below, transfer to CASNR, and complete the requirements for a bachelor of science degree.

**Chadron State College.** Chadron State College offers a 2+2 program leading to a grassland ecology and management degree program and a transfer program leading to a bachelor of science in agricultural education in the teaching option.

**Wayne State College.** Wayne State College offers a 3+1 program leading to a bachelor of science in plant biology in the ecology and management option and a 3+1 program leading to a bachelor of science in Applied Science.

**University of Nebraska at Kearney.** Transfer programs are available for students pursuing degree programs leading to a bachelor of science degree.

**University of Nebraska at Omaha.** Transfer programs are available for students pursuing degree programs leading to a bachelor of science degree.

**Non University of Nebraska–Lincoln Degree-Granting Programs**

CASNR cooperates with other institutions to provide coursework that is applied towards a degree at the cooperating institution. Pre-professional programs offered by CASNR allow students to complete the first two or three years of a degree program at the University prior to transferring and completing a degree at the cooperating institution.

**Chadron State College–Range Science.** The 3+1 Program in range science allows Chadron State College students to pursue a range science degree through Chadron State College. Students complete three years of coursework at Chadron State College and one year of specialized range science coursework (32 credit hours) at CASNR.

**Dordt College (Iowa)–Agricultural Education: Teaching Option.** This program allows students to pursue an Agricultural Education Teaching Option degree leading toward a bachelor of science in agricultural education. Students at Dordt College will complete 90 credit hours in the Agricultural Education: Teaching Option Transfer Program.

**Residency**

Students must complete at least 30 of the total hours for their degree using University of Nebraska–Lincoln credits. At least 18 of the 30 credit hours must be in courses offered through CASNR1 (>299) including the appropriate ACE 10 degree requirement or an approved ACE 10 substitution offered through another Nebraska college and excluding
independent study regardless of the number of hours transferred. Credit earned during education abroad may be used toward the residency requirement if students register through the University of Nebraska–Lincoln and participate in prior-approved education abroad programs. The University of Nebraska–Lincoln open enrollment and summer independent study courses count toward residence.

\(^1\) Includes courses taught by CASNR faculty through interdisciplinary prefixes (e.g., LIFE, MBIO, ENVR, SCIL, EAEP, HRTM, ENSC) and CASNR crosslisted courses taught by non-CASNR faculty.

Online and Distance Education
There are many opportunities to earn college credit online through the University of Nebraska–Lincoln. Some of these credits may be applicable not only as elective credits but also toward the fulfillment of the College's education requirements. Credits earned online may count toward residency. However, certain offerings may not be counted toward scholarship requirements or academic recognition criteria.

For further information, contact:
Office of Online and Distance Education
University of Nebraska–Lincoln
305 Brace Labs
Lincoln, NE 68588-0109
402-472-4681
http://online.unl.edu/

Independent Study Rules
Students wishing to take part in independent studies must obtain permission; complete and sign a contract form; and furnish copies of the contract to the instructor, advisor, departmental office, and the Dean’s Office. The contract should be completed before registration. Forms are available in 103 Agricultural Hall or online at the CASNR website.

Independent study projects include research, literature review or extension of coursework under the supervision and evaluation of a departmental faculty member.

Students may only count 12 hours of independent study toward their degrees and no more than 6 hours can be counted during their last 36 hours earned, excluding senior thesis, internships, and courses taught under an independent study number.

Other College Degree Requirements
Capstone Course Requirement
A capstone course is required for each CASNR degree program. A capstone course is defined as a course in which students are required to integrate diverse bodies of knowledge to solve a problem or formulate a policy of societal importance.

ACE Requirements
All students must fulfill the Achievement Centered Education (ACE) requirements. Information about the ACE program may be viewed at ace.unl.edu (https://ace.unl.edu/).

The minimum requirements of CASNR reflect the common core of courses that apply to students pursuing degrees in the college. Students should work with an advisor to satisfy ACE outcomes 1, 2, 3, 4, 6, and 10 with the college requirements.

Catalog Rule
Students must fulfill the requirements stated in the catalog for the academic year in which they are first admitted to the University of Nebraska–Lincoln or when they were first admitted to a Joint Academic Transfer Program. Students transferring from a community college, but without admission to a Joint Academic Transfer Program, may be eligible to fulfill the requirements as stated in the catalog for an academic year in which they were enrolled at the community college prior to attending the University of Nebraska-Lincoln. This decision should be made in consultation with academic advisors, provided the student a) was enrolled in a community college during the catalog year they are utilizing, b) maintained continuous enrollment at the previous institution for 1 academic year or more, and c) continued enrollment at the University of Nebraska-Lincoln within 1 calendar year from their last term at the previous institution. In consultation with advisors, a student may choose to follow a subsequent catalog for any academic year in which they are admitted to and enrolled as a degree-seeking student at the University of Nebraska–Lincoln in the College of Agricultural Sciences and Natural Resources. Students must complete all degree requirements from a single catalog year. The catalog which a student follows for degree requirements may not be more than 10 years old at the time of graduation.

Learning Outcomes
Graduates of food science and technology will be able to:

1. Demonstrate ability to apply chemical, microbiological, and engineering principles to the processing and preservation of safe, nutritious, and appealing food products.
2. Effectively communicate scientific, technical, and other information, both orally and in writing, to supervisors, colleagues, subordinates and consumers.
3. Understand the role of government regulatory agencies and other groups responsible for making and enforcing rules, regulations, and guidelines related to food composition, processing, and safety.
4. Access and use technical and human resources, such as the World Wide Web, library systems, and consultants.
5. Represent the field of food science in a scientific and professional manner and participate in professional societies.
6. Recognize ethical responsibilities regarding scientific and professional conduct, as well as the responsibility to the consumer to produce safe and nutritious food products.
7. Develop analytical and creative thinking skills necessary to approach scientific and other issues, problems, and situations.
8. Demonstrate ability to work effectively in a team or group.

Major Requirements

<table>
<thead>
<tr>
<th>College Integrative Course (ACE 8)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Science and Decision-Making for a Complex World</td>
<td>SCIL 101</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 3

Natural Sciences

<table>
<thead>
<tr>
<th>Biology</th>
<th>Microbiology</th>
<th>BIOS 312</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Chemistry I</td>
<td>General Chemistry I Laboratory</td>
<td>CHEM 109A, CHEM 109L</td>
<td>4</td>
</tr>
<tr>
<td>General Chemistry II</td>
<td>General Chemistry II Laboratory</td>
<td>CHEM 110A, CHEM 110L</td>
<td>4</td>
</tr>
<tr>
<td>Organic Chemistry I</td>
<td></td>
<td>CHEM 251</td>
<td>3</td>
</tr>
</tbody>
</table>

\(^1\) Does not include CASNR crosslisted courses or courses in other disciplines.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 253</td>
<td>Organic Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>LIFE 120</td>
<td>Fundamentals of Biology I and Fundamentals of Biology I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>LIFE 121</td>
<td>Fundamentals of Biology II and Fundamentals of Biology II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>4-5</td>
</tr>
<tr>
<td>BIOC 401</td>
<td>Elements of Biochemistry and Laboratory for Elements of Biochemistry</td>
<td></td>
</tr>
<tr>
<td>BIOC 401L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOC 431</td>
<td>Biochemistry I: Structure and Metabolism and Biochemistry Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOS 431</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 431</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&amp; BIOS 433</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&amp; CHEM 433</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>AGST 109</td>
<td>Physical Principles in Agriculture and Life Sciences</td>
<td></td>
</tr>
<tr>
<td>PHYS 151</td>
<td>Elements of Physics</td>
<td></td>
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</table>

Credit Hours Subtotal: 31

Mathematics and Statistics

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>STAT 218</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>or ECON 215</td>
<td>Statistics</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3-5</td>
</tr>
<tr>
<td>MATH 104</td>
<td>Applied Calculus</td>
<td></td>
</tr>
<tr>
<td>MATH 106</td>
<td>Calculus I</td>
<td></td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 8

Communications

ACE Outcome 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 150</td>
<td>Writing and Inquiry</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 151</td>
<td>Writing for Change</td>
<td></td>
</tr>
<tr>
<td>ENGL 254</td>
<td>Writing and Communities</td>
<td></td>
</tr>
<tr>
<td>JGEN 120</td>
<td>Basic Business Communication</td>
<td></td>
</tr>
<tr>
<td>JGEN 200</td>
<td>Technical Communication I</td>
<td></td>
</tr>
<tr>
<td>JGEN 300</td>
<td>Technical Communication II</td>
<td></td>
</tr>
</tbody>
</table>

ACE Outcome 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ALEC 102</td>
<td>Interpersonal Skills for Leadership</td>
<td>3</td>
</tr>
<tr>
<td>COMM 101</td>
<td>Communication in the 21st Century</td>
<td></td>
</tr>
<tr>
<td>COMM 209</td>
<td>Public Speaking</td>
<td></td>
</tr>
<tr>
<td>COMM 210</td>
<td>Communicating in Small Groups</td>
<td></td>
</tr>
<tr>
<td>COMM 286</td>
<td>Business and Professional Communication</td>
<td></td>
</tr>
<tr>
<td>NRES 301</td>
<td>Environmental Communication Skills</td>
<td></td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 6

Economics, Humanities and Social Sciences

ACE Outcome 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>AECN 141</td>
<td>Introduction to the Economics of Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>ECON 200</td>
<td>Economic Essentials and Issues</td>
<td></td>
</tr>
<tr>
<td>ECON 211</td>
<td>Principles of Macroeconomics</td>
<td></td>
</tr>
<tr>
<td>ECON 212</td>
<td>Principles of Microeconomics</td>
<td></td>
</tr>
</tbody>
</table>

Select one course each from ACE outcomes 5, 7, and 9

Credit Hours Subtotal: 9

Food Science & Technology Requirements

Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDST 101</td>
<td>Introductory Food Science</td>
<td>2</td>
</tr>
<tr>
<td>FDST 132</td>
<td>Practical Applications in Food Science</td>
<td>1</td>
</tr>
<tr>
<td>FDST 280</td>
<td>Contemporary Issues in Food Science</td>
<td>3</td>
</tr>
<tr>
<td>FDST 403</td>
<td>Food Quality Assurance</td>
<td>3</td>
</tr>
<tr>
<td>FDST 430</td>
<td>Sensory Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>FDST 451</td>
<td>Food Science and Technology Seminar</td>
<td>1</td>
</tr>
<tr>
<td>FDST 460</td>
<td>Food Product Development Concepts I</td>
<td>3</td>
</tr>
</tbody>
</table>

Process Technology Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>FDST 363</td>
<td>Heat and Mass Transfer</td>
<td>3</td>
</tr>
<tr>
<td>AGST 363</td>
<td>Food Engineering Unit Operations</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two of the following: 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASCI 310</td>
<td>Fresh Meats</td>
<td></td>
</tr>
<tr>
<td>ASCI 410</td>
<td>Processed Meats</td>
<td></td>
</tr>
<tr>
<td>FDST 412</td>
<td>Cereal Technology</td>
<td></td>
</tr>
<tr>
<td>FDST 413</td>
<td>Baking Technology</td>
<td></td>
</tr>
<tr>
<td>FDST 420</td>
<td>Fruit and Vegetable Technology</td>
<td></td>
</tr>
<tr>
<td>FDST 429</td>
<td>Dairy Products Technology</td>
<td></td>
</tr>
<tr>
<td>FDST 455</td>
<td>Microbiology of Fermented Foods</td>
<td></td>
</tr>
<tr>
<td>BIOS 455</td>
<td>Microbiology of Fermented Foods</td>
<td></td>
</tr>
<tr>
<td>&amp; FDST 455L</td>
<td>Laboratory</td>
<td></td>
</tr>
<tr>
<td>&amp; BIOS 455L</td>
<td>Laboratory</td>
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</table>

Food Chemistry

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDST 205</td>
<td>Food Composition and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FDST 448</td>
<td>Food Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>FDST 449</td>
<td>Food Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>FDST 458</td>
<td>Advanced Food Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Food Microbiology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDST 405</td>
<td>Food Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOS 445</td>
<td>Food Microbiology Laboratory</td>
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Nutrition

Select one of the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASCI 421</td>
<td>Advanced Animal Nutrition</td>
<td></td>
</tr>
<tr>
<td>NUTR 250</td>
<td>Human Nutrition and Metabolism</td>
<td></td>
</tr>
<tr>
<td>NUTR 455</td>
<td>Advanced Nutrition</td>
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</table>

Credit Hours Subtotal: 46

Technical Electives

Select 6 hours from the following courses/areas: 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>AECN 225</td>
<td>Agribusiness Entrepreneurship in Food Products Marketing</td>
<td>6</td>
</tr>
<tr>
<td>AGRI 115</td>
<td>Biotechnology. Food, Health and Environment</td>
<td></td>
</tr>
<tr>
<td>ASCI 210</td>
<td>Principles of Animal Products for Today's Society</td>
<td></td>
</tr>
<tr>
<td>ASCI 411</td>
<td>HACCP and Food Safety Systems for the Food Industry</td>
<td></td>
</tr>
<tr>
<td>FDST 391</td>
<td>International Study Tour</td>
<td></td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 6

ACE Courses
FDST 392  Food Industry Study Tour
FDST 396  Independent Study in Food Science and Technology
FDST 415  Food Mycology
FDST 424  Food Safety Microbiology
FDST 425  Food Toxicology
FDST 442  My Gut, My Health, My Food
FDST 452  Physical Chemistry of Foods
FDST 455  Microbiology of Fermented Foods
FDST 455L  Microbiology of Fermented Foods Laboratory
FDST 470  Nutraceuticals and Functional Foods
FDST 492  Special Topics in Food Science and Technology ("Food Safety Auditor")
FDST 495  Internship Experience
FDST 498  Undergraduate Research Experience
FDST 499H  Honors Thesis
NUTR 344  Nutrition and Food for Optimal Health
PLAS 353  Vegetable Crop Production Laboratory
PLAS 429A  Food Security: A Global Perspective
PLAS 439  Organic Farming and Food Systems
PLAS 471  Vines, Wines and You

The above are courses/areas that most directly relate to Food Science. Students may also select from ACCT, AECN (except AECN 100), ALEC (except ALEC 134), AGST, ASCI, BIOC (except BIOC 101), BIOC 312, BSAD (except BSAD 101, BSAD 97, BSAD 111, BSAD 112, BSAD 333, BSAD 444), BSEN (except BSEN 100), CHEM (except CHEM 101, CHEM 131), CHME (except CHME 113), CSCE, ECON, FDST (except FDST 101, FDST 131, FDST 301), FINA (except FINA 97), MATH 107 or higher, MNGT, MRKT, NUTR (except NUTR 131, NUTR 150, NUTR 372), PHYS, STAT, VBMS

Credit Hours Subtotal: 6

Free Electives
Select 8-10 hours
Credit Hours Subtotal: 8

Total Credit Hours 12

1 Students interested in a career in research, or planning to seek an advanced degree, should take CHEM 251, CHEM 252, CHEM 253 and CHEM 254.
2 Students are encouraged to consider FDST 430 as one of the courses used to fulfill the technical electives.

ADDITIONAL MAJOR REQUIREMENTS

Grade Rules
Pass/No Pass
Students in food science and technology may not take food science and technology courses Pass/No Pass, except for Independent Study.

Requirements for Minor Offered by Department

12-Hour Minor
Requirements for the minor include a minimum of 12 hours in food science and technology at the 300 level or above, including the following specified courses:

Core Courses
FDST 405 / BIOS 445  Food Microbiology 3
FDST 406 / BIOS 446  Food Microbiology Laboratory 2
FDST 448  Food Chemistry 3
FDST 449  Food Chemistry Laboratory 1
Select one of the following: 3
FDST 363 / AGST 363  Heat and Mass Transfer
FDST 465 / AGST 465  Food Engineering Unit Operations

Credit Hours Subtotal: 12

Total Credit Hours 12

18-Hour Minor
Requirements for the minor include a minimum of 18 hours in food science and technology, including a minimum of 6 hours at the 300 level or above. No more than 3 hours of FDST 396 Independent Study in Food Science and Technology can be applied to the minor.

Core Courses
FDST 205  Food Composition and Analysis 3
FDST 280  Contemporary Issues in Food Science 3
Select one of the following: 2-3
FDST 101  Introductory Food Science
FDST 131 / CHEM 131 / NUTR 131  The Science of Food

Credit Hours Subtotal: 9

Additional FDST courses
Select 10-11 hours 9-10
Credit Hours Subtotal: 9

Total Credit Hours 18

Fermentation Science Minor
The requirement for the fermentation science minor is 12 hours, consisting of 6 hours of core courses and 6 hours from a selection of additional supporting courses. This minor requires interested students to have completed prerequisites of 8 credit hours of basic life science with laboratory, 4 credit hours of organic chemistry, and BIOS 312 or equivalent before taking courses required for the minor.

Required Courses
FDST 415  Food Mycology 3
FDST 455 / MBIO 455  Microbiology of Fermented Foods
& FDST 455L / MBIO 455L  and Microbiology of Fermented Foods Laboratory 3
| Credit Hours Subtotal: | 6 |

**Elective Courses**

Choose 6 credit hours from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC 431 / BIOS 431 / CHEM 431</td>
<td>Biochemistry I: Structure and Metabolism</td>
</tr>
<tr>
<td>BIOC 432 / BIOS 432 / CHEM 432</td>
<td>Biochemistry II: Metabolism and Biological Information</td>
</tr>
<tr>
<td>BIOC 434 / BIOS 434 / CHEM 434 / PLAS 434</td>
<td>Plant Biochemistry</td>
</tr>
<tr>
<td>BSEN 303 / AGEN 303</td>
<td>Principles of Process Engineering</td>
</tr>
<tr>
<td>BSEN 445</td>
<td>Bioprocess Engineering</td>
</tr>
<tr>
<td>BSEN 446 / AGEN 446</td>
<td>Unit Operations of Biological Processing</td>
</tr>
<tr>
<td>CHME 473</td>
<td>Biochemical Engineering</td>
</tr>
<tr>
<td>FDST 495</td>
<td>Internship Experience (in fermentation science-related field)</td>
</tr>
<tr>
<td>MBIOL 421 / BIOS 421</td>
<td>Microbial Diversity</td>
</tr>
<tr>
<td>MBIOL 440 / BIOS 440 / VBMS 440</td>
<td>Microbial Physiology</td>
</tr>
<tr>
<td>PLAS 415</td>
<td>Applied Plant Breeding and Genetics</td>
</tr>
<tr>
<td>PLAS 471 / HRTM 471 / NUTR 471</td>
<td>Vines, Wines and You</td>
</tr>
</tbody>
</table>

| Credit Hours Subtotal: | 6 |

| Total Credit Hours | 12 |

**FDST 101 Introductory Food Science**

**Description:** Food composition, safety, processing, packaging, labeling, product development, food marketing and related topics.

**Credit Hours:** 2

**Max credits per semester:** 2

**Max credits per degree:** 2

**Grading Option:** Graded with Option

**Prerequisite for:** FDST 205

**FDST 131 The Science of Food**

**Crosslisted with:** CHEM 131, NUTR 131

**Description:** Covers general and food chemistry, nutrition, food microbiology, food safety and quality, standards that are enforced by regulatory agencies, and food processes applied to improve food quality, shelf life and safety.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded with Option

**Prerequisite for:** FDST 205

**ACE:** ACE 4 Science

**FDST 131H The Science of Food**

**Crosslisted with:** CHEM 131H, NUTR 131H

**Description:** Covers general and food chemistry, nutrition, food microbiology, food safety and quality, standards that are enforced by regulatory agencies, and food processes applied to improve food quality, shelf life and safety.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded with Option

**ACE:** ACE 4 Science

**FDST 132 Practical Applications in Food Science**

**Prerequisites:** Food science and technology major.

**Description:** Food processing, preservation, nutrition, safety, quality, marketing, and related topics. Food processing procedures and equipment. Microbiological and chemical procedures.

**Credit Hours:** 1

**Max credits per semester:** 1

**Max credits per degree:** 1

**Grading Option:** Graded with Option

**FDST 205 Food Composition and Analysis**

**Prerequisites:** CHEM 109A and 109L and CHEM 110A and 110L; FDST 101 or 131.

**Description:** Major components of foods, their structures, and their role in the functional and nutritional properties of foods. Chemical methods for the determination and characterization of major food components.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded with Option

**FDST 280 Contemporary Issues in Food Science**

**Description:** Current issues in food science, including the impact of COVID-19 in food science, food psychology and culture, the edible cannabis industry, organic foods, obesity, world hunger, food allergens, plant-based meat and milk, food safety, GMOs, probiotics and gut health, and sustainability.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading:** Graded

**Offered:** FALL

**Experiential Learning:** Case/Project-Based Learning

**FDST 301 Chemistry of Food**

**Notes:** A chemistry course for non-majors taught via distance education. Will not count toward a FDST major. A previous course in chemistry or Food Science may be helpful but is not required.

**Description:** Emphasizes essential principles of chemistry and their application to food systems. Covers the molecular properties of food components (proteins, carbohydrates, and lipids) and their chemical reactions. Provides understanding of how chemistry impacts food quality and contributes to wellness.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**Offered:** SPRING

**ACE:** ACE 4 Science
FDST 363 Heat and Mass Transfer  
**Crosslisted with:** AGST 363  
**Prerequisites:** MATH 104 or 106; AGST 109 or PHYS 141 or 151.  
**Description:** Fundamentals of food engineering including material and energy balances, fluid mechanics, heat transfer and mass transfer.  
**Credit Hours:** 3  
Max credits per semester: 3  
Max credits per degree: 3  
Grading Option: Graded with Option

FDST 367 Pet Food Manufacturing  
**Crosslisted with:** AGST 367  
**Prerequisites:** FDST 205  
**Notes:** Field trips are required and may occur outside of scheduled class time.  
**Description:** The companion animal industry, products, processes and career opportunities.  
**Credit Hours:** 3  
Max credits per semester: 3  
Max credits per degree: 3  
Grading Option: Graded

FDST 391 International Study Tour  
**Prerequisites:** Permission  
**Notes:** Sophomore standing or higher recommended  
**Description:** Individual or group educational experience combining classroom lectures, discussions, and/or seminars with tours to broaden the student's knowledge of specific aspects of food science and technology in a foreign country. Choice of subject matter and coordination of on- and off-campus study is at the discretion of the instructor.  
**Credit Hours:** 0-3  
Min credits per semester: 1  
Max credits per semester: 3  
Max credits per degree: 6  
Grading Option: Graded with Option

FDST 392 Food Industry Study Tour  
**Prerequisites:** Permission  
**Description:** Study tour of food industry processors and government agencies. Provide an understanding of the industry's operations and problems.  
**Credit Hours:** 1  
Max credits per semester: 1  
Max credits per degree: 3  
Grading Option: Pass No Pass

FDST 396 Independent Study in Food Science and Technology  
**Prerequisites:** Permission.  
**Description:** Individual or group projects in research, literature review, or extension of course work under supervision and evaluation of a departmental faculty member.  
**Credit Hours:** 1-5  
Min credits per semester: 1  
Max credits per semester: 5  
Max credits per degree: 12  
Grading Option: Graded with Option

FDST 401 Teaching Applications of Food Science  
**Crosslisted with:** FDST 801  
**Prerequisites:** BIOS 101 and CHEM 109A and 109L  
**Notes:** Will not count toward a FDST major or minor.  
**Description:** Overview of the science of food and how food can be used in the classroom to enhance science education.  
**Credit Hours:** 3  
Max credits per semester: 3  
Max credits per degree: 3  
Grading Option: Graded with Option

FDST 405 Food Microbiology  
**Crosslisted with:** BIOS 445, BIOS 845, FDST 805  
**Prerequisites:** BIOS 312  
**Notes:** BIOS 401 or BIOS 431 recommended  
**Description:** Nature, physiology, and interactions of microorganisms in foods. Introduction to food-borne diseases, the effect of food processing systems on the microflora of foods, principles of food preservation, food spoilage, and foods produced by microorganisms. Food plant sanitation and criteria for establishing microbial standards for food products.  
**Credit Hours:** 3  
Max credits per semester: 3  
Max credits per degree: 3  
Grading Option: Graded with Option  
**Offered:** FALL/SPR

FDST 406 Food Microbiology Laboratory  
**Crosslisted with:** BIOS 446, BIOS 846, FDST 806  
**Prerequisites:** Parallel in FDST 405/805/BIOS 446/846.  
**Description:** The microorganisms in foods and the methods used to study them.  
**Credit Hours:** 2  
Max credits per semester: 2  
Max credits per degree: 2  
Grading Option: Graded with Option

FDST 412 Cereal Technology  
**Crosslisted with:** FDST 812  
**Prerequisites:** FDST 205.  
**Description:** Chemistry and technology of the cereal grains. Post-harvest processing and utilization for food and feed. Current industrial processes and practices, and the theoretical basis for these operations.  
**Credit Hours:** 3  
Max credits per semester: 3  
Max credits per degree: 3  
Grading Option: Graded with Option
FDST 413 Baking Technology
Crosslisted with: FDST 813
Prerequisites: FDST 205
Description: Chemistry and technology of bakery products, including formulation, ingredient functionality, processing, and quality evaluation.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded
Offered: FALL

FDST 415 Food Mycology
Crosslisted with: FDST 815
Prerequisites: Junior or Senior standing, 3 hours BIOS or LIFE
Description: The role of fungi in human food, including edible and poisonous mushrooms, fungi used in food processing (especially yeasts), and the occurrence, growth, and mycotoxin production of molds in human foods, animal feeds, and the human environment. Methods and techniques for culturing, enumerating and identifying molds, yeasts, and mushrooms. Analytical methods for mycotoxins, and effects of food and feed processing on mycotoxin stability.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded with Option
Offered: FALL

FDST 419 Meat Investigations
Crosslisted with: ASCI 419, ASCI 819, FDST 819
Prerequisites: ASCI 210
Description: Conduct independent research and study meat industry problems in processing, production, storage, and preparation of meat and meat products.
Credit Hours: 1-3
Min credits per semester: 1
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded with Option
Offered: FALL

FDST 420 Fruit and Vegetable Technology
Crosslisted with: FDST 820
Prerequisites: FDST 205.
Description: Harvesting and postharvest handling of fruit and vegetables, processing and safety issues, processes of ripening and/or maturation in fresh fruits and vegetables.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded with Option

FDST 424 Food Safety Microbiology
Crosslisted with: FDST 824
Prerequisites: FDST 405
Description: Microbiological sampling, testing, and foodborne pathogen detection tools to support current food safety and sanitation regulatory requirements and the design and implementation of food safety management systems.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded with Option
Offered: SPRING

FDST 425 Food Toxicology
Crosslisted with: FDST 825
Prerequisites: FDST 405/805, BIOC 401, or equivalent.
Description: Toxic substances that may be found in foods with emphasis on bacterial toxins, mycotoxins, and naturally occurring toxicants of plants, animals, and seafood. Basic toxicological methodology and the effects of food processing and handling on food-borne toxicants.
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Grading Option: Graded with Option
Offered: SPRING

FDST 426 Food Safety Auditor
Crosslisted with: FDST 826
Prerequisites: Major in Food Science & Technology and Senior Standing
Notes: Includes team activities such as a mock inspection of our food processing pilot plant and creating a food safety plan using a model food. Receive certification as a Preventive Controls Qualified Individual, recognized by the FDA as qualifying them to create a food safety plan.
Description: Preparation for a career that will include inspections and audits as a standard part of ensuring a safe food production chain.
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Grading Option: Graded
Offered: SPRING

FDST 429 Dairy Products Technology
Crosslisted with: FDST 829
Prerequisites: FDST 205.
Notes: Offered spring semester of odd-numbered calendar years.
Description: Physical, chemical, and microbiological properties of milk. Principles of milk processing and manufacture of cultured dairy products, cheeses, ice cream, and concentrated dairy products.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded with Option

FDST 430 Sensory Evaluation
Crosslisted with: FDST 830, STAT 430, STAT 830
Prerequisites: Introductory course in statistics.
Description: Food evaluation using sensory techniques and statistical analysis.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded with Option
Course and Laboratory Fee: $10
FDST 442 My Gut, My Health, My Food
Crosslisted with: FDST 842
Prerequisites: Junior or Senior standing
Description: Detailed examples and conceptual overview of studies that define the digestive tract microbial ecosystem both at the local and systemic scale in the context of omnivores such as humans and animals are presented. The concepts in focus are associated with high-dimensional datasets (or big data) used for studying these complex biosystems, and the multi-dimensional interactions between the microbiomes in its ecosystem. Topics include the host-cycle of life in health and disease in relation to the bacteria of the digestive tract, as well as the modification of their ecology due to health issues, nutrition, and microbial competition or chemical modification.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded
Offered: SPRING

FDST 448 Food Chemistry
Crosslisted with: FDST 848
Prerequisites: FDST 205; CHEM 251; BIOC 401.
Description: Molecular components of various foods and the reactions of these components during the processing of foods.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded with Option

FDST 449 Food Chemistry Laboratory
Crosslisted with: FDST 849
Prerequisites: FDST 205; FDST 448/848 or parallel; BIOC 401.
Description: Experiments involving the isolation, purification, and characterization of the molecular components of foods.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Graded with Option

FDST 451 Food Science and Technology Seminar
Prerequisites: Permission.
Description: Student presentations of food science literature and research.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Graded with Option

FDST 452 Physical Chemistry of Foods
Crosslisted with: FDST 852
Prerequisites: FDST 448/848 or instructor approval.
Description: The basic theory of physical chemistry that is relevant in food science and technology. Understand and predict changes occurring in a food during processing, storage, and handling using physical chemistry theory. Design and improvement of processes to make foods having specific qualities in an efficient way.
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Grading Option: Graded

FDST 455 Microbiology of Fermented Foods
Crosslisted with: FDST 855, Mbio 455
Prerequisites: BIOS 312
Notes: On-campus students must also register for FDST 455L/855L.
Description: Physiology, biochemistry, and genetics of microorganisms important in food fermentation. How microorganisms are used in fermentation and the effects of processing and manufacturing conditions on production of fermented foods.
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Grading Option: Graded with Option
Offered: SPRING

FDST 455L Microbiology of Fermented Foods Laboratory
Crosslisted with: FDST 855L, Mbio 455L
Prerequisites: FDST 405/805 and parallel FDST 455/855/Mbio 455
Description: Experiments involving the microorganisms and fermentation of foods and beverages.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Graded with Option
Offered: SPRING

FDST 458 Advanced Food Analysis
Crosslisted with: FDST 858
Prerequisites: FDST 205, 448/848, and FDST 449/849.
Description: Theory and application of molecular and atomic spectroscopy, immunochromy and thermal methods to the analysis of foods. Chemical separation techniques for the isolation of food constituents.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded with Option
Course and Laboratory Fee: $20

FDST 460 Food Product Development Concepts I
Crosslisted with: FDST 860
Prerequisites: FDST 405/805 and FDST 448/848.
Notes: Capstone course.
Description: Develop a commercially viable food product using chemical, microbiological and sensory analysis principles, and marketing and packaging sciences.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded with Option
ACE: ACE 10 Integrated Product
Course and Laboratory Fee: $40
Experiential Learning: Case/Project-Based Learning

FDST 465 Food Engineering Unit Operations
Crosslisted with: FDST 865, AGST 465, AGST 865
Prerequisites: FDST/AGST 363.
Description: Unit operations and their applications to food processing.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded with Option
FDST 470 Nutraceuticals and Functional Foods  
Crosslisted with: FDST 870  
**Prerequisites:** BIOC 401 or BIOC/BIOS/CHEM 431/831.  
**Description:** Evaluation of natural compounds impact on human health. Inflammation, cancer, heart disease, and the impact of gut micro-flora on health.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Grading Option:** Graded with Option

FDST 492 Special Topics in Food Science and Technology  
Crosslisted with: FDST 892  
**Prerequisites:** FDST 205 or BIOS 312 or CHEM 251 or CHEM 253 or junior standing or higher  
**Description:** Special topics that address current and emerging issues in food science and technology.  
**Credit Hours:** 1-6  
**Min credits per semester:** 1  
**Max credits per semester:** 6  
**Grading Option:** Graded with Option

FDST 495 Internship Experience  
**Prerequisites:** Permission  
**Notes:** Sophomore standing or higher and permission  
**Description:** Professional experience in a food science and technology area. Experience may be with a business, government agency, organization, or a university research, extension, or teaching program.  
**Credit Hours:** 0-3  
**Min credits per semester:** 3  
**Max credits per semester:** 3  
**Grading Option:** Pass No Pass

FDST 498 Undergraduate Research Experience  
**Prerequisites:** Permission  
**Notes:** Sophomore standing or higher  
**Description:** Conduct a scholarly research project investigating a specific problem.  
**Credit Hours:** 1-3  
**Min credits per semester:** 1  
**Max credits per semester:** 3  
**Max credits per degree:** 6  
**Grading Option:** Graded with Option

FDST 499H Honors Thesis  
**Prerequisites:** Permission  
**Notes:** AGRI 299H recommended.  
**Description:** Conduct a scholarly research project and write a University Honors Program or undergraduate thesis.  
**Credit Hours:** 1-3  
**Min credits per semester:** 1  
**Max credits per semester:** 3  
**Max credits per degree:** 6  
**Grading Option:** Graded with Option

**Jobs of Recent Graduates**  
- Associate Food Scientist, ConAgra Foods - Omaha, NE  
- Leadership Development Program - Quality Emphasis, Ardent Mills - Wichita, KS  
- Quality Assurance/Food Safety Specialist, Smithfield Farmland - Wichita, KS  
- Food Safety, Quality and Regulatory Associate, Cargill - Columbus, NE  
- Lab Technician, SensoryEffects - Lincoln, NE  
- Quality Development Associate, ConAgra Brands - Russellville, AR  
- Associate Food Scientist, International Spices - Fremont, NE  
- Leadership Development Program - Operations, Ardent Mills - Denver, CO  
- Quality Assurance, Hormel Foods - Rochelle, IL

**Internships**  
- Quality Assurance Intern, Ardent Mills - Kenosha, WI  
- Product Development Intern, ConAgra - Omaha, NE  
- Dairy Foods R&D - Product Development Intern, Land O’Lakes - Arden Hills, MN  
- Quality Chemist Intern, Cargill - Wahpeton, ND  
- Food Safety Intern, Land O’Frost - Lansing, IL  
- Quality Intern, ConAgra Foods - Marshall, MO  
- Quality Assurance Intern, Tyson Fresh Meats - Sioux City, IA  
- Quality Assurance Intern, Land O’Frost Deli Meats - Madisonville, KY  
- Lab Intern, Pro-Pet LLC - St. Marys, OH  
- Research and Development Intern, Cargill - Wayzata, MN

**Graduate & Professional Schools**  
- Master’s in Food Science & Technology, University of Nebraska-Lincoln - Lincoln, NE  
- Master’s in Food Science, Kansas State University - Manhattan, KS  
- Doctor of Pharmacy, University of Nebraska Medical Center - Omaha, NE  
- Master’s in Food Science, Cornell University - Ithaca, NY  
- Master’s Food Science, Purdue University - West Lafayette, IN  
- Ph.D., University of Nebraska Medical Center - Omaha, NE  
- Master’s in Complex Biosystems, University of Nebraska - Lincoln, NE  
- Master’s Food Science, University of Illinois Urbana-Champaign - Champaign, IL  
- Dentistry, University of Iowa - Iowa City, IA

**Career Information**  
*The following represents a sample of the internships, jobs and graduate school programs that current students and recent graduates have reported.*