## Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Core Courses</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select six hours of coursework listed under &quot;Core Courses&quot; approved in conjunction with the academic committee</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select an additional six hours of coursework listed under either &quot;Core Courses&quot; or &quot;Elective Courses&quot; approved in conjunction with the academic committee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seminar Course</td>
<td>1</td>
<td>Seminar In Food Science</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Additional Courses</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&quot;Additional Courses&quot; are approved in conjunction with the academic committee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internship / Research Course</td>
<td>6</td>
<td></td>
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<tr>
<td></td>
<td>FS 620 Special Problems In Food Science or FS 693 Master's Supervised Research</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>36</td>
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</tr>
</tbody>
</table>

* "Additional Courses" may include FS courses and/or interdisciplinary courses.

## Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select courses from at least two categories below:</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chemistry-Biochemistry</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS 567</td>
<td>Sensory Analysis of Foods</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Engineering</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS 741</td>
<td>Thermal Processing of Foods</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Microbiology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS 540</td>
<td>Food Safety and Public Health</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>FS 725</td>
<td>Fermentation Microbiology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nutrition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS 501</td>
<td>Advanced Nutrition and Metabolism</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>FS 555</td>
<td>Exercise Nutrition</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NTR 701</td>
<td>Protein and Amino Acid Metabolism</td>
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</table>

## Processing Technology

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS 516</td>
<td>Quality Control in Food and Bioprocessing</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>FS 522</td>
<td>Food Packaging</td>
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<td></td>
</tr>
<tr>
<td>FS 530</td>
<td>Post-Harvest Food Safety</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>FS 535</td>
<td>Food Safety Management Systems</td>
<td>3</td>
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</table>

## Elective Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS 520</td>
<td>Pre-Harvest Food Safety</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS 526</td>
<td>Upstream Biomanufacturing Laboratory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS 550</td>
<td>Food Industry Study Tour</td>
<td></td>
<td></td>
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<tr>
<td>FS 554</td>
<td>Lactation, Milk, and Nutrition</td>
<td></td>
<td></td>
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<tr>
<td>FS 557</td>
<td>Nutraceuticals and Functional Foods</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS 562</td>
<td>Postharvest Physiology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS 580</td>
<td>Professional Development and Ethics in Food Safety</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Additional courses may be selected in conjunction with the academic committee

## Faculty

### Full Professors

Jonathan C. Allen, Professor, Director of Food Science Graduate Program
Kenneth E. Anderson
Rodolphe Barrangou, Todd R. Klaenhammer Distinguished Professor
Frederick Breidt, USDA/ARS Microbiologist and Professor
Benjamin James Chapman
Patricia Ann Curtis
Lisa Louise Dean, USDA Professor
Mary Anne Drake, William Neal Reynolds Distinguished Professor
Mario Giovanni Ferruzzi, David H. Murdock Distinguished Professor
Scott A. Hale
Hosni Moustafa Hassan
Lee-Ann Jaykus
Sophia Kathariou, Professor
Saad A. Khan
Duane K. Larick
Mary Ann Lila, Professor, Food Bioprocessing & Nutrition Sciences and Director, Plants for Human Health Institute
Richard Linton
Muquarrab Qureshi, Research Leader, Food Science Research Unit, Agricultural Research Service, USDA
K. P. Sandeep, Department Head, Professor
John Douglas Sheppard, Professor, Bioprocessing Science Undergraduate Coordinator

Associate Professors
April Fogleman, Associate Professor and Extension Specialist
Lora Suzanne Goodell, Associate Professor, Director of Interdepartmental Graduate Program in Nutrition
Dana J. Hanson, Associate Professor, Extension Specialist, Meat Science
Gabriel Keith Harris, Associate Professor, Director of Undergraduate Programs for Food Science
Suzanne Dunn Johanningsmeier, Research Food Technologist & USDA Assistant Professor
Colin David Kay, Associate Professor
Slavko Komarnytsky, Associate Professor
Andrew Peter Neilson, Associate Professor
Area of Research: Microbiome
Ilénys Muniz Perez-Díaz, USDA-ARS Associate Professor
Area of Research: Microbiology
Clinton Dale Stevenson, Associate Professor and Distance Education Coordinator

Assistant Professors
Alexander Vladimirovich Chouljenko, Assistant Professor
Area of Research: Seafood Science

Natalie Kathleen Cooke, Assistant Professor, Director of Undergraduate Programs for Nutrition Science
Lynette Marie Johnston, Assistant Professor and Food Safety Extension Specialist
Marvin Leonel Moncada Reyes, Assistant Professor
Deepi Arvind Salvi, Assistant Professor
Area of Research: Food Engineering
Ondulla Tyvette Toomer, USDA Assistant Professor
Haotian Zheng, Assistant Professor
Area of Research: Food Chemistry

Practice/Research/Teaching Professors
Josip Simunovic, Research Professor
Fernanda Bottaro de Oliveira Santos
Nicola Singletary, Assistant Teaching Professor

Emeritus Faculty
Sarah Liberman Ash
Leonard W. Aurand
Herschell R. Ball Jr
Leon Carl Boyd
Roy E. Carawan
Daniel E Carroll Jr
George L. Catignani
Edward Allen Foegeding
David Patrick Green
Max E. Gregory
Victor A. Jones
Todd Robert Klaenhammer
Carolyn Jean Lackey
Tyre C. Lanier
Roger Floyd McFeeters
James Leslie Oblinger
John Eual Rushing
Timothy H. Sanders
Steven J. Schwartz
Brian W. Sheldon
Harold E. Swaisgood
Kenneth R. Swartzel
Van-Den Truong
Lynn G. Turner
William M. Walter
Donn R. Ward

Adjunct Professors
William Ronald Aimutis Jr.
Alejandro Amezquita
Pablo Marcelo Coronel
Christopher R. Daubert
Jack Parker Davis
Brian E. Farkas
Katherine Patterson Maloney
Tawanda Muzhingi
Shengmin Sang
Ratna Rani Sharma
Richard C. Theuer