# Food Science (MS)

## 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><strong>Core Courses</strong></td>
<td></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>
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</tr>
<tr>
<td></td>
<td><strong>Supervised Teaching Course</strong></td>
<td>1</td>
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<tr>
<td>FS 685</td>
<td>Master's Supervised Teaching</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td><strong>Seminar Course</strong></td>
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<tr>
<td>FS 780</td>
<td>Seminar In Food Science</td>
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<td></td>
<td><strong>Additional Courses</strong></td>
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<tr>
<td></td>
<td>&quot;Additional Courses&quot; will be determined in conjunction with the academic committee</td>
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<tr>
<td></td>
<td><strong>Research Course</strong></td>
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<tr>
<td>FS 695</td>
<td>Master's Thesis Research ¹</td>
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<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td>30</td>
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</tbody>
</table>

¹ "Additional Courses" may include FS courses, optional minor courses, and/or interdisciplinary courses.

² Up to 6 credits of FS 695 Master's Thesis Research may be used toward the 30 total hours.

### Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
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</thead>
<tbody>
<tr>
<td>FS 567</td>
<td>Sensory Analysis of Foods</td>
<td>3</td>
<td></td>
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<tr>
<td>FS 741</td>
<td>Thermal Processing of Foods</td>
<td>3</td>
<td></td>
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<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>
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<tr>
<td>FS 501</td>
<td>Advanced Nutrition and Metabolism</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>
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</thead>
<tbody>
<tr>
<td>FS 520</td>
<td>Pre-Harvest Food Safety</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>FS 526</td>
<td>Upstream Biomansufacturing Laboratory</td>
<td>2</td>
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<tr>
<td>FS 550</td>
<td>Food Industry Study Tour</td>
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<td>FS 554</td>
<td>Lactation, Milk, and Nutrition</td>
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<td>FS 557</td>
<td>Nutraceuticals and Functional Foods</td>
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<td>FS 562</td>
<td>Postharvest Physiology</td>
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<tr>
<td>FS 580</td>
<td>Professional Development and Ethics in Food Safety</td>
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</table>

### 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

Muqarrab 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*

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**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*

Deepti Arvind Salvi, *Assistant Professor*

**Area of Research:** Food Engineering

Ondulla Tyvette Toomer, *USDA Assistant Professor*

Haotian Zheng, *Assistant Professor*

**Area of Research:** Food Chemistry

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**Practice/Research/Teaching Professors**

Josip Simunovic, *Research Professor*

Fernanda Bottaro de Oliveira Santos

Nicola Singletary, *Assistant Teaching Professor*

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**Emeritus Faculty**

Sarah Liberman Ash

Leonard W. Aurand

Hershell 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
Tawanda Muzhingi
Shengmin Sang
Ratna Rani Sharma
Richard C. Theuer