Food Science (MR)

Degree Requirements

**Core Courses**

Select courses from at least two categories below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS 620</td>
<td>Special Problems In Food Science</td>
<td>3</td>
</tr>
<tr>
<td>or FS 693</td>
<td>Master's Supervised Research</td>
<td></td>
</tr>
<tr>
<td>FS 780</td>
<td>Seminar In Food Science</td>
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</tr>
</tbody>
</table>

**Elective Courses**

Select a minimum of six courses of 500- to 700-level courses approved in conjunction with the academic committee – see "Elective Courses" listed below

**Total Hours**: 36

### Core Courses

Select courses from at least two categories below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS 567</td>
<td>Sensory Analysis of Foods</td>
<td>3</td>
</tr>
<tr>
<td>FS 741</td>
<td>Thermal Processing of Foods</td>
<td>3</td>
</tr>
<tr>
<td>FS 540</td>
<td>Food Safety and Public Health</td>
<td>3</td>
</tr>
<tr>
<td>FS 725</td>
<td>Fermentation Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>FS 501</td>
<td>Advanced Nutrition and Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>FS 555</td>
<td>Exercise Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NTR 701</td>
<td>Protein and Amino Acid Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>NTR 706</td>
<td>Vitamin Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>NTR 708</td>
<td>Energy Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>NTR 775</td>
<td>Mineral Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>FS 516</td>
<td>Quality Control in Food and Bioprocessing</td>
<td>3</td>
</tr>
<tr>
<td>FS 522</td>
<td>Food Packaging</td>
<td>3</td>
</tr>
<tr>
<td>FS 530</td>
<td>Post-Harvest Food Safety</td>
<td>3</td>
</tr>
<tr>
<td>FS 535</td>
<td>Food Safety Management Systems</td>
<td>3</td>
</tr>
<tr>
<td>FS 751</td>
<td>Food Ingredient Technology In Product</td>
<td>4</td>
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<tr>
<td></td>
<td>Development</td>
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<tr>
<td>FS 520</td>
<td>Pre-Harvest Food Safety</td>
<td>3</td>
</tr>
<tr>
<td>FS 526</td>
<td>Upstream Biomanufacturing Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>FS 550</td>
<td>Food Industry Study Tour</td>
<td>2</td>
</tr>
<tr>
<td>FS 554</td>
<td>Lactation, Milk, and Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>FS 557</td>
<td>Nutraceuticals and Functional Foods</td>
<td>3</td>
</tr>
<tr>
<td>FS 562</td>
<td>Postharvest Physiology</td>
<td>3</td>
</tr>
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</table>

### Elective Courses

Select a minimum of six courses of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS 520</td>
<td>Pre-Harvest Food Safety</td>
<td>3</td>
</tr>
<tr>
<td>FS 526</td>
<td>Upstream Biomanufacturing Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>FS 550</td>
<td>Food Industry Study Tour</td>
<td>2</td>
</tr>
<tr>
<td>FS 554</td>
<td>Lactation, Milk, and Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>FS 557</td>
<td>Nutraceuticals and Functional Foods</td>
<td>3</td>
</tr>
<tr>
<td>FS 562</td>
<td>Postharvest Physiology</td>
<td>3</td>
</tr>
<tr>
<td>FS 580</td>
<td>Professional Development and Ethics in Food Safety</td>
<td>1</td>
</tr>
<tr>
<td>FS 780</td>
<td>Seminar In Food Science</td>
<td>1</td>
</tr>
</tbody>
</table>

**Faculty**

**Full Professors**

Jonathan C. Allen
Kenneth E. Anderson
Rodolphe Barrangou
Frederick Breidt
Benjamin James Chapman
Patricia Ann Curtis
Lisa Louise Dean
Mary Anne Drake
Mario Giovanni Ferruzzi
Scott A. Hale
Hosni Moustafa Hassan
Lee-Ann Jaykus
Sophia Kathariou
Saad A. Khan
Duane K. Larick
Mary Ann Lila
Richard Linton
K. P. Sandeep
Muquarrab Quresh
John Douglas Sheppard

**Associate Professors**

Ilenys Muniz Perez Diaz
April Fogleman
Lora Suzanne Goodell
Dana J. Hanson
Gabriel Keith Harris
Suzanne Dunn Johanningsmeier
Colin David Kay
Slavko Komarnytsky
Andrew Peter Neilson
Clinton Dale Stevenson

Assistant Professors
Alexander Vladimirovich Chouljenko
Natalie Kathleen Cooke
Marvin Leonel Moncada Reyes
Deepti Arvind Salvi
Ondulla Tyvette Toomer
Haotian Zheng

Practice/Research/Teaching Professors
Josip Simunovic
Fernanda Bottaro de Oliveira Santos

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 Armezquita
Pablo Marcelo Coronel
Christopher R. Daubert
Jack Parker Davis
Brian E. Farkas
Tawanda Muzhingi
Shengmin Sang
Ratna Rani Sharma
Richard C.Theuer