### Food Science (PhD)

#### 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></td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

**Core Courses**

Select nine hours of coursework listed under “Core Courses” approved in conjunction with the academic committee.

Select an additional six hours of coursework listed under either “Core Courses” or “Elective Courses” approved in conjunction with the academic committee.

**Supervised Teaching Course**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>885</td>
<td>Doctoral Supervised Teaching</td>
<td>2</td>
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</table>

**Seminar Course**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>780</td>
<td>Seminar In Food Science</td>
<td>1</td>
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</tbody>
</table>

**Research Ethics Course**

“Research Ethics” course will be determined in conjunction with the academic committee.

**Additional Courses**

“Additional Courses” will be determined in conjunction with the academic committee to meet 72 total hours.

**Total Hours**

|       |       | 72    | |

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1 Two semesters of FS 885 Doctoral Supervised Teaching are required.
2 “Additional Courses” may include FS 895 Doctoral Dissertation Research, FS courses, optional minor 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>567</td>
<td>Sensory Analysis of Foods</td>
<td>3</td>
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<tr>
<td>741</td>
<td>Thermal Processing of Foods</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>540</td>
<td>Food Safety and Public Health</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>725</td>
<td>Fermentation Microbiology</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>520</td>
<td>Pre-Harvest Food Safety</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>526</td>
<td>Upstream Biomanufacturing Laboratory</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>550</td>
<td>Food Industry Study Tour</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>554</td>
<td>Lactation, Milk, and Nutrition</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>557</td>
<td>Nutraceuticals and Functional Foods</td>
<td>3</td>
<td></td>
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<td>562</td>
<td>Postharvest Physiology</td>
<td>3</td>
<td></td>
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<tr>
<td>580</td>
<td>Professional Development and Ethics in Food Safety</td>
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</tbody>
</table>

Additional courses may be approved in conjunction with the academic committee.

### Faculty

#### Adjunct 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
Muquarrab Qureshi
K. P. Sandeep
John Douglas Sheppard
April Fogleman
Lora Suzanne Goodell
Dana J. Hanson
Gabriel Keith Harris
Suzanne Dunn Johanningsmeier
Colin David Kay
Slavko Komarnytsky
Andrew Peter Neilson
Illyens Muniz Perez-Diaz
Clinton Dale Stevenson
Alexander Vladimirovich Chouljenko
Natalie Kathleen Cooke
Lynette Marie Johnston
Marvin Leonel Moncada Reyes
Deepti Arvind Salvi
Ondulla Tyvette Toomer
Haotian Zheng
Fernanda Bottaro de Oliveira Santos
Josip Simunovic
Nicola Singletary
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
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