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>Core Courses</td>
<td>Select nine hours of coursework listed under “Core Courses” approved in conjunction with the academic committee</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Select an additional six hours of coursework listed under either “Core Courses” or “Elective Courses” approved in conjunction with the academic committee</td>
<td></td>
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</tr>
<tr>
<td>Supervised Teaching Course</td>
<td>FS 885 Doctoral Supervised Teaching</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Seminar Course</td>
<td>FS 780 Seminar in Food Science</td>
<td>1</td>
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</tr>
<tr>
<td>Research Ethics Course</td>
<td>“Research Ethics” course will be determined in conjunction with the academic committee</td>
<td>1</td>
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</tr>
<tr>
<td>Additional Courses</td>
<td>“Additional Courses” will be determined in conjunction with the academic committee to meet 72 total hours</td>
<td>53</td>
<td>53</td>
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<tr>
<td>Total Hours</td>
<td></td>
<td>72</td>
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</tbody>
</table>

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>Select courses from at least three categories below:</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Chemistry-Biochemistry</td>
<td>FS 567 Sensory Analysis of Foods</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Engineering</td>
<td>FS 741 Thermal Processing of Foods</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Microbiology</td>
<td>FS 540 Food Safety and Public Health</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FS 725 Fermentation Microbiology</td>
<td>3</td>
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</tbody>
</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>
<td>3</td>
<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>
<td></td>
</tr>
<tr>
<td>FS 751</td>
<td>Food Ingredient Technology In Product Development</td>
<td>4</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>
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<td>FS 526</td>
<td>Upstream Biomannufacturing Laboratory</td>
<td>2</td>
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<td>FS 550</td>
<td>Food Industry Study Tour</td>
<td>2</td>
<td></td>
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<tr>
<td>FS 554</td>
<td>Lactation, Milk, and Nutrition</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>FS 557</td>
<td>Nutraceuticals and Functional Foods</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>FS 562</td>
<td>Postharvest Physiology</td>
<td>3</td>
<td></td>
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<tr>
<td>FS 580</td>
<td>Professional Development and Ethics in Food Safety</td>
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</tr>
</tbody>
</table>

Additional courses may be approved in conjunction with the academic committee

Full Professors

Jonathan C. Allen
Kenneth E. Anderson
Rodolphe Barrangou
Frederick Breidt
Benjamin James Chapman
Lisa Louise Dean
Mary Anne Drake
Lora Suzanne Goodell
Scott A. Hale
Gabriel Keith Harris
Hosni Moustafa Hassan
Lee-Ann Jaykus
Sophia Kathariou
Colin David Kay
Saad A. Khan
Mary Ann Lila
K. P. Sandeep
John Douglas Sheppard

**Associate Professors**

April Fogleman
Dana J. Hanson
Suzanne Dunn Johanningsmeier
Slavko Komarnytsky
Andrew Peter Neilson
Ilénys Muniz Perez-Díaz
Clinton Dale Stevenson

**Assistant Professors**

Alexander Vladimirovich Chouljenko
Lynette Marie Johnston
Marvin Leonel Moncada Reyes
Deepti Arvind Salvi
Ondulla Tyvette Toomer
Minliang Yang
Haotian Zheng

**Practice/Research/Teaching Professors**

Fernanda Bottaro de Oliveira Santos
Josip Simunovic
Nicola Singletary

**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
Patricia Ann Curtis
Edward Allen Foegeding
David Patrick Green
Max E. Gregory
Victor A. Jones
Carolyn Jean Lackey
Tyre C. Lanier
Duane K. Larick
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 Faculty

Pablo Marcelo Coronel
Jack Parker Davis
Brian E. Farkas
Mario Giovanni Ferruzzi
William Ronald Aimutis Jr.
Katherine Patterson Maloney
Tawanda Muzhingi
Shengmin Sang