# Nutrition (MS)

## Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCH 451</td>
<td>Principles of Biochemistry</td>
<td>7</td>
<td>Required Courses</td>
</tr>
<tr>
<td>or NTR 501</td>
<td>Advanced Nutrition and Metabolism</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BCH 453/553</td>
<td>Biochemistry of Gene Expression</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or BCH 571</td>
<td>Regulation of Metabolism</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NTR 601</td>
<td>Master’s Seminar</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Master of Science Core Courses** 8

Select at least eight credits from "Core Courses" listed below.

**Elective Courses** 15

"Elective Courses" that will be applied to reach 30 credit hours will be determined in conjunction with the academic committee.

**Thesis** 1-6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTR 695</td>
<td>Master’s Thesis</td>
<td></td>
<td>Thesis Research</td>
</tr>
</tbody>
</table>

**Total Hours** 30

1 No more than 6 credit hours can be taken at the 400-level.

## Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select a minimum of three courses from the following:</td>
<td></td>
<td>8</td>
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</tr>
<tr>
<td>BCH 553</td>
<td>Biochemistry of Gene Expression</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BCH 571</td>
<td>Regulation of Metabolism</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NTR 500</td>
<td>Principles of Human Nutrition</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NTR 501</td>
<td>Advanced Nutrition and Metabolism</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NTR 510</td>
<td>Maternal and Infant Nutrition</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NTR 515</td>
<td>Comparative Nutrition</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NTR 521</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NTR 525</td>
<td>Feed Manufacturing Technology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NTR 550</td>
<td>Applied Ruminant Nutrition</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NTR 554</td>
<td>Lactation, Milk, and Nutrition</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NTR 555</td>
<td>Exercise Nutrition</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTR 557</td>
<td>Nutraceuticals and Functional Foods</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NTR 561</td>
<td>Equine Nutrition</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NTR 565</td>
<td>Advanced Canine and Feline Nutrition</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NTR 594</td>
<td>Special Topics in Nutrition</td>
<td>1-6</td>
<td></td>
</tr>
<tr>
<td>NTR 701</td>
<td>Protein and Amino Acid Metabolism</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NTR 706</td>
<td>Vitamin Metabolism</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NTR 708</td>
<td>Energy Metabolism</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NTR 764</td>
<td>Advances in Gastrointestinal Pathophysiology</td>
<td>3</td>
<td></td>
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<tr>
<td>NTR 775</td>
<td>Mineral Metabolism</td>
<td>3</td>
<td></td>
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<tr>
<td>NTR 785</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NTR 790</td>
<td>Advanced Feed Formulation</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NTR 794</td>
<td>Special Topics in Nutrition</td>
<td>1-6</td>
<td></td>
</tr>
</tbody>
</table>

## Faculty

### Full Professors

**Jonathan C. Allen**  
**Area of Research:** Food, Bioprocessing and Nutrition Science

**Kenneth E Anderson**  
**Area of Research:** Prestige Poultry Science

**Patricia C. Dunn**  
**Area of Research:** Agriculture and Human Sciences

**Joan Eisemann**  
**Area of Research:** Animal Science

**Vivek Fellner**  
**Area of Research:** Animal Science

**Peter R. Ferket**  
**Area of Research:** Prestige Poultry Science

**Mario Ferruzzi**  
**Area of Research:** Food, Bioprocessing and Nutrition Science

**Jesse Lee Grimes**  
**Area of Research:** Prestige Poultry Science

**Sung Woo Kim**  
**Area of Research:** Animal Science

**Mary Ann Lila**  
**Area of Research:** Food, Bioprocessing and Nutrition Science

**Christian Maltecca**
Area of Research: Animal Science
Jeannette A. Moore
Area of Research: Animal Science
Paul Edward Mozdziak
Area of Research: Prestige Poultry Science
Jack Odle
Area of Research: Animal Science
Edgar Orlando Oviedo-Rondon
Area of Research: Prestige Poultry Science
Shannon Elizabeth Phillips
Area of Research: Animal Science
Matt H. Poore
Area of Research: Animal Science
Muquarrab Quresh
Area of Research: Food, Bioprocessing and Nutrition Science - USDA
Paul David Siciliano
Area of Research: Animal Science
Eric VanHeugten
Area of Research: Animal Science

Associate Professors
Dara Bloom
Area of Research: Agriculture and Human Sciences
April Fogleman
Area of Research: Food, Bioprocessing and Nutrition Science
Suzie Goodell
Area of Research: Food, Bioprocessing and Nutrition Science
Gabriel Keith Harris
Area of Research: Food, Bioprocessing and Nutrition Science
Lindsey Haynes-Maslow
Area of Research: Agriculture and Human Sciences
Collin Kay
Area of Research: Food, Bioprocessing and Nutrition Science
Slavko Komarnytsky
Area of Research: Food, Bioprocessing and Nutrition Science
Andrew Neilson
Area of Research: Food, Bioprocessing and Nutrition Science
Giuseppe Valachhi
Area of Research: Animal Science

Assistant Professors
Kimberly Ange-VanHeugten
Area of Research: Animal Science
Natalie Cooke

Area of Research: Food, Bioprocessing and Nutrition Science
Basheerah Enahora
Kerim Eroglu
Area of Research: Molecular and Structural Biochemistry
Adam Charles Fahrenholz
Massimo Iorizzo
Area of Research: Horticultural Science
Michael V. Joseph
Area of Research: Animal Science
Arion Kennedy
Area of Research: Molecular and Structural Biochemistry
Ramon Malheiros
Arion Kennedy Midgett
Area of Research: Molecular and Structural Biochemistry
Carrie Pickworth
Area of Research: Animal Science
Virginia Carraway Stage
Ondulla Toomer
Area of Research: Food, Bioprocessing and Nutrition Science - USDA
Nicola Singletary
Area of Research: Food, Bioprocessing and Nutrition Science

Emeritus Faculty
Brenda P Alston-Mills
Sarah Liberman Ash
Leonard W. Aurand
Leon Carl Boyd
Leonard S Bull
Edward V. Caruolo
George L. Catignani
Warren J Croom Jr
Jimmy Dale Garlich
Winston Murry Hagler
Raymond W. Harvey
William L Johnson
James R. Jones
James Arthur Knopp
Carolyn Jean Lackey
Jean-Marie Luginbuhl
Jacquelyn W. McClelland
Steven J. Schwartz
Jason C. Shih
Harold E. Swaisgood
Van-Den Truong
Lon Weidner Whitlow

Adjunct professors
Katherine Patterson Maloney
Anneke Moresco
Muquarrab Ahmed Qureshi