# Nutrition (MR)

## Master's Degree Requirements

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

**Master's Core Courses**

Select a minimum of eight credits from "Core Courses" listed below

<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>8</td>
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</table>

**Practicum Course**

Select one of the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>FM 594</td>
<td>Advanced Feed Mill Practicum</td>
<td>4-6</td>
<td></td>
</tr>
<tr>
<td>NTR 624</td>
<td>Topical Problems In Nutrition</td>
<td>4-6</td>
<td></td>
</tr>
<tr>
<td>NTR 693</td>
<td>Master's Supervised Research</td>
<td>4-6</td>
<td></td>
</tr>
</tbody>
</table>

**Elective Courses**

Select a minimum of eight credits from "Elective Courses" that will be applied to reach 36 credit hours will be determined in conjunction with the academic advisor

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>15-17</td>
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**Professional Science Master's Degree Requirements**

<table>
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<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>8</td>
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</tbody>
</table>

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

## Core Courses

Select a minimum of three courses from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
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<tbody>
<tr>
<td>BCH 553</td>
<td>Biochemistry of Gene Expression</td>
<td>3</td>
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<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>
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<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>
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</tr>
<tr>
<td>NTR 515</td>
<td>Comparative Nutrition</td>
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<td>Feed Manufacturing Technology</td>
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<tr>
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<td>Applied Ruminant Nutrition</td>
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<td>NTR 554</td>
<td>Lactation, Milk, and Nutrition</td>
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<td>Exercise Nutrition</td>
<td>3</td>
<td></td>
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<td>Nutraceuticals and Functional Foods</td>
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<tr>
<td>NTR 565</td>
<td>Advanced Canine and Feline Nutrition</td>
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<tr>
<td>NTR 594</td>
<td>Special Topics in Nutrition</td>
<td>1-6</td>
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<tr>
<td>NTR 701</td>
<td>Protein and Amino Acid Metabolism</td>
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<tr>
<td>NTR 706</td>
<td>Vitamin Metabolism</td>
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<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>
</tr>
<tr>
<td>NTR 775</td>
<td>Mineral Metabolism</td>
<td>3</td>
<td></td>
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<tr>
<td>NTR 785</td>
<td>Digestion and Metabolism in Ruminants</td>
<td>3</td>
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<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>
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## Professional Science Master's Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
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<tbody>
<tr>
<td></td>
<td></td>
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**Required Courses**

<table>
<thead>
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<th>Code</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>BCH 451</td>
<td>Principles of Biochemistry or NTR 501</td>
<td>6</td>
<td></td>
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<tr>
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</table>

**Core Courses**

Select a minimum of eight credits from "Core Courses" listed below

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
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**Seminar Course**

<table>
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<tr>
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<tbody>
<tr>
<td>NTR 601</td>
<td>Master's Seminar</td>
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**Practicum Course**

Select one of the following courses:

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<tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td>4-6</td>
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**PSM Courses**

Select at least three courses from "PSM Courses" listed below

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<th>Code</th>
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<th>Hours</th>
<th>Counts towards</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>9</td>
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**Elective Courses**

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<td></td>
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<td>6-8</td>
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**Total Hours**

1

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<th>Counts towards</th>
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<tbody>
<tr>
<td>FS 535</td>
<td>Food Safety Management Systems</td>
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<tr>
<td>FS 553</td>
<td>Food Laws and Regulations</td>
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<td></td>
</tr>
<tr>
<td>COM 521</td>
<td>Communication and Globalization</td>
<td>3</td>
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<td>COM 525</td>
<td>Group/Team Communication</td>
<td>3</td>
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<td>COM 527</td>
<td>Seminar in Organizational Conflict Management</td>
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<tr>
<td>COM 530</td>
<td>Interpersonal Communication in Science and Technology Organizations</td>
<td>3</td>
<td></td>
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<tr>
<td>BUS 501</td>
<td>Strategic Management Foundations</td>
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<td>BUS 590</td>
<td>Special Topics In Business Management</td>
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<tr>
<td>MBA 541</td>
<td>Supply Management</td>
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<tr>
<td>MBA 542</td>
<td>Supply Chain Logistics</td>
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<tr>
<td>MBA 543</td>
<td>Planning and Control Systems</td>
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</tbody>
</table>
The "PSM Courses" list is not an exclusive list. Students can take any number of courses that relate to business, communication, or regulatory matters determined in conjunction with the academic committee.

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

Jeanette 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

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

Kerim Eroglu  
**Area of Research:** Molecular and Structural Biochemistry

Massimo Iorizzo  
**Area of Research:** Horticultural Science

Michael V. Joseph  
**Area of Research:** Animal Science

Arion Kennedy  
**Area of Research:** Molecular and Structural Biochemistry

Arion Kennedy Midgett
Area of Research: Molecular and Structural Biochemistry

Carrie Pickworth

Area of Research: Animal Science

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
Leonard 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
Muquarrab Ahmed Qureshi