# 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</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>or NTR 501</td>
<td>Advanced Nutrition and Metabolism</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>BCH 453/553</td>
<td>Biochemistry of Gene Expression</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>or BCH 571</td>
<td>Regulation of Metabolism</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>NTR 601</td>
<td>Master's Seminar</td>
<td>1</td>
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</tbody>
</table>

**Master's Core Courses**

Select a minimum of three courses from the following:

- BCH 553 Biochemistry of Gene Expression
- BCH 571 Regulation of Metabolism
- NTR 500 Principles of Human Nutrition
- NTR 501 Advanced Nutrition and Metabolism
- NTR 510 Maternal and Infant Nutrition
- NTR 515 Comparative Nutrition
- NTR 521 Life Cycle Nutrition

**Core Courses**

Select a minimum of eight credits from the following courses:

- BCH 451 Principles of Biochemistry
- BCH 453/553 Biochemistry of Gene Expression
- BCH 571 Regulation of Metabolism
- NTR 500 Principles of Human Nutrition
- NTR 501 Advanced Nutrition and Metabolism
- NTR 510 Maternal and Infant Nutrition
- NTR 515 Comparative Nutrition
- NTR 521 Life Cycle Nutrition

**Seminar Course**

- NTR 601 Master's Seminar

**Practicum Course**

Select one of the following courses:

- FM 594 Advanced Feed Mill Practicum
- NTR 624 Topical Problems In Nutrition
- NTR 693 Master's Supervised Research

**Elective Courses**

Select a minimum of eight credits from "Elective Courses" listed below.

**Practicum Course**

Select one of the following courses:

- NTR 594 Special Topics in Nutrition
- NTR 701 Protein and Amino Acid Metabolism
- NTR 706 Vitamin Metabolism
- NTR 708 Energy Metabolism
- NTR 764 Advances in Gastrointestinal Pathophysiology
- NTR 775 Mineral Metabolism
- NTR 785 Digestion and Metabolism in Ruminants
- NTR 790 Advanced Feed Formulation
- NTR 794 Special Topics in Nutrition

**Total Hours**

36

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

## Professional Science Master's Degree Requirements

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<td>Regulation of Metabolism</td>
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</table>

**Core Courses**

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

**Seminar Course**

- NTR 601 Master's Seminar

**Practicum Course**

Select one of the following courses:
<table>
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<tr>
<td>FM 594</td>
<td>Advanced Feed Mill Practicum</td>
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<td></td>
</tr>
<tr>
<td>NTR 693</td>
<td>Master's Supervised Research</td>
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</table>

**PSM Courses**

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

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

"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>
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<tbody>
<tr>
<td>6-8</td>
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</table>

**Total Hours**

1 36

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

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**Core Courses**

Select a minimum of three courses from the following:

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<tbody>
<tr>
<td>BCH 553</td>
<td>Biochemistry of Gene Expression</td>
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<tr>
<td>BCH 571</td>
<td>Regulation of Metabolism</td>
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<tr>
<td>NTR 500</td>
<td>Principles of Human Nutrition</td>
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<tr>
<td>NTR 501</td>
<td>Advanced Nutrition and Metabolism</td>
<td>3</td>
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<tr>
<td>NTR 510</td>
<td>Maternal and Infant Nutrition</td>
<td>3</td>
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<tr>
<td>NTR 515</td>
<td>Comparative Nutrition</td>
<td>3</td>
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<td>NTR 525</td>
<td>Feed Manufacturing Technology</td>
<td>3</td>
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<td>NTR 550</td>
<td>Applied Ruminant Nutrition</td>
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<tr>
<td>NTR 554</td>
<td>Lactation, Milk, and Nutrition</td>
<td>3</td>
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<tr>
<td>NTR 555</td>
<td>Exercise Nutrition</td>
<td>3</td>
<td></td>
</tr>
<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>
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<tr>
<td>NTR 565</td>
<td>Advanced Canine and Feline Nutrition</td>
<td>3</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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<td>NTR 708</td>
<td>Energy Metabolism</td>
<td>3</td>
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<td>NTR 764</td>
<td>Advances in Gastrointestinal Pathophysiology</td>
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<td>Mineral Metabolism</td>
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<td></td>
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<td>NTR 790</td>
<td>Advanced Feed Formulation</td>
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**PSM Courses**

Select at least three of the following courses: 1

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</thead>
<tbody>
<tr>
<td>FS 535</td>
<td>Food Safety Management Systems</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>FS 553</td>
<td>Food Laws and Regulations</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COM 521</td>
<td>Communication and Globalization</td>
<td>3</td>
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<tr>
<td>COM 525</td>
<td>Group/Team Communication</td>
<td>3</td>
<td></td>
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<tr>
<td>COM 527</td>
<td>Seminar in Organizational Conflict Management</td>
<td>3</td>
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<tr>
<td>COM 530</td>
<td>Interpersonal Communication in Science and Technology Organizations</td>
<td>3</td>
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<tr>
<td>BUS 590</td>
<td>Special Topics In Business Management</td>
<td>1-6</td>
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<tr>
<td>MBA 541</td>
<td>Supply Management</td>
<td>3</td>
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<tr>
<td>MBA 542</td>
<td>Supply Chain Logistics</td>
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</tr>
<tr>
<td>MBA 543</td>
<td>Planning and Control Systems</td>
<td>3</td>
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</tr>
<tr>
<td>MBA 576</td>
<td>Technology Entrepreneurship and Commercialization I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MBA 577</td>
<td>Technology Entrepreneurship and Commercialization II</td>
<td>3</td>
<td></td>
</tr>
</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

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

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