# Nutrition (Minor)

## Master of Science Minor Plan

### Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Master's Core Courses</strong></td>
<td></td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

Select at least three courses from "Master's Core Courses" listed below:

- BCH 453/553 Biochemistry of Gene Expression 3
- BCH 571 Regulation of Metabolism 3
- NTR 500 Principles of Human Nutrition 3
- NTR 401/501 Advanced Nutrition and Metabolism 3
- NTR 410/410 Maternal and Infant Nutrition 3
- NTR 415/415 Comparative Nutrition 3
- NTR 419 Human Nutrition and Chronic Disease 3
- NTR 420 Applied Nutrition Education 3
- NTR 421/521 Life Cycle Nutrition 3
- NTR 425/525 Feed Manufacturing Technology 3
- NTR 550 Applied Ruminant Nutrition 3
- NTR 554 Lactation, Milk, and Nutrition 3
- NTR 555 Exercise Nutrition 3
- NTR 557 Nutraceuticals and Functional Foods 3
- NTR 561 Equine Nutrition 3
- NTR 565 Advanced Canine and Feline Nutrition 3
- NTR 594 Special Topics in Nutrition 1-6

Total Hours 8

## Doctor of Philosophy Minor

### Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCH 553</td>
<td>Biochemistry of Gene Expression</td>
<td>3</td>
</tr>
<tr>
<td>or BCH 571</td>
<td>Regulation of Metabolism</td>
<td></td>
</tr>
<tr>
<td>NTR 801</td>
<td>Doctoral Seminar</td>
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</tbody>
</table>

### Non-NTR 700-level Course

3

The "Non-NTR 700-level Course" will be determined in conjunction with the academic committee.

### PhD Core Courses

Select at least two courses from "PhD Core Courses" listed below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCH 553</td>
<td>Biochemistry of Gene Expression</td>
<td></td>
</tr>
<tr>
<td>BCH 571</td>
<td>Regulation of Metabolism</td>
<td></td>
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<tr>
<td>NTR 500</td>
<td>Principles of Human Nutrition</td>
<td></td>
</tr>
<tr>
<td>NTR 501</td>
<td>Advanced Nutrition and Metabolism</td>
<td></td>
</tr>
<tr>
<td>NTR 510</td>
<td>Maternal and Infant Nutrition</td>
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</table>

Total Hours 15
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>NTR 515</td>
<td>Comparative Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NTR 521</td>
<td>Life Cycle Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NTR 525</td>
<td>Feed Manufacturing Technology</td>
<td>3</td>
</tr>
<tr>
<td>NTR 550</td>
<td>Applied Ruminant Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NTR 554</td>
<td>Lactation, Milk, and Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NTR 555</td>
<td>Exercise Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NTR 557</td>
<td>Nutraceuticals and Functional Foods</td>
<td>3</td>
</tr>
<tr>
<td>NTR 561</td>
<td>Equine Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NTR 565</td>
<td>Advanced Canine and Feline Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NTR 594</td>
<td>Special Topics in Nutrition</td>
<td>1-6</td>
</tr>
<tr>
<td>NTR 701</td>
<td>Protein and Amino Acid Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>NTR 706</td>
<td>Vitamin Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>NTR 708</td>
<td>Energy Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>NTR 764</td>
<td>Advances in Gastrointestinal Pathophysiology</td>
<td>3</td>
</tr>
<tr>
<td>NTR 775</td>
<td>Mineral Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>NTR 785</td>
<td>Digestion and Metabolism in Ruminants</td>
<td>3</td>
</tr>
<tr>
<td>NTR 790</td>
<td>Advanced Feed Formulation</td>
<td>3</td>
</tr>
<tr>
<td>NTR 794</td>
<td>Special Topics in Nutrition</td>
<td>1-6</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 Qureshi  
*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
Assistant Professors

Kimberly Ange-VanHeugten
**Area of Research:** Food, Bioprocessing and Nutrition 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

Adjunct professors

Katherine Patterson Maloney

Muquarrab Ahmed Qureshi

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 Murray 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