Nutrition

The Interdepartmental Nutrition Program consists of faculty from multiple departments, including: Animal Science; Agricultural and Human Sciences; Biochemistry; Food, Bioprocessing, and Nutrition Sciences; Horticultural Science; Molecular and Structural Biochemistry; and the Prestage Department of Poultry Science. Students reside and conduct research in one of these departments under the direction of an appropriate advisor. Research in the nutrition program may be conducted with a variety of species and at various levels, such as molecular, cell, whole animal, and human communities. Research programs are primarily in the area of nutritional biochemistry, experimental animal nutrition (e.g., horses, ruminants, swine, poultry, rodents, and other species), or community nutrition and public health. Graduates find employment in academia, government, industry, and non-profit organizations, or continue their education in medical and allied health fields.

Admission Requirement

To be considered for admission, a student should have a B.S. or M.S degree, preferably in a science-related area. Additionally, applicants must have coursework in biology and organic chemistry to be considered for admission. Students for M.S. or Ph.D. should contact and be recommended by a prospective major faculty advisor in their area of interest prior to final admission. Applicants to the Master of Nutrition should indicate their preferences for: on-campus or Distance Education delivery; an emphasis in animal, poultry, or food science (human) nutrition; core science or Professional Science Masters (PSM); and within the PSM, Feed Science or Human Nutrition. Students will a GPA below at 3.0 need to work with the Director of Graduate Programs to identify ways to demonstrate the ability to be successful in this graduate program. The GRE is not required.

Master's Degree Requirements

A minimum of 30 course credit hours, including a thesis is required for M.S., 36 for Master of Nutrition. The Master of Nutrition has options for all course delivery by Distance Education, with emphases in Feed Science or Human Nutrition, and an option for course work that qualifies as a Professional Science Master's degree.

Doctoral Degree Requirements

A minimum of 72 credit hours, including a dissertation for Ph.D. Students must complete core courses, including: Energy Metabolism, Protein and Amino Acid Metabolism, Vitamin Metabolism, and Mineral Metabolism.

Student Financial Support

Assistantships and fellowships may be available for M.S. and Ph.D. students on a competitive basis from the departments in which the advisor resides. Admission does not guarantee availability of financial support.

Degrees

• Nutrition (MR) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/nutrition/nutrition-mr/)

• Nutrition (MS) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/nutrition/nutrition-ms/)

• Nutrition (PhD) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/nutrition/nutrition-phd/)

• Nutrition (Minor) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/nutrition/nutrition-minor/)

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 Mozdiak
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
**Nutrition**

**Area of Research:** Animal Science

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**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

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**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

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**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

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**Adjunct professors**

Katherine Patterson Maloney  

Anneke Moresco  

Muquarrab Ahmed Qureshi