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.

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.

More Information
Nutrition Program Website (https://cals.ncsu.edu/food-bioprocessing-and-nutrition-sciences/students/graduate/)

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.

Applicant Information
Nutrition (MS and PhD)
- Delivery Method: On-Campus
- Entrance Exam: None
- Interview Required: None

Nutrition (MR)
- Delivery Method: On-Campus, Online, Hybrid
- Entrance Exam: None
- Interview Required: None

Admission Deadlines
- Fall: June 25 (US); March 1 (Intl)
- Spring: November 25 (US); July 15 (Intl)
- Summer 1: March 25 (US); December 15 (Intl)
- Summer 2: May 10 (US); December 15 (Intl)

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

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

**Assistant Professors**

Kimberly Ange-VanHeugten  
**Area of Research:** Animal Science

Natalie Cooke  
**Area of Research:** Food, Bioprocessing and Nutrition Science

Basheerah Enahora  
**Area of Research:** Molecular and Structural Biochemistry

Adam Charles Fahrenholz  
**Area of Research:** Animal Science

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  
**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

**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

**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