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:** Prestage 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:** Prestage Poultry Science

Mario Ferruzzi
**Area of Research:** Food, Bioprocessing and Nutrition Science

Jesse Lee Grimes
**Area of Research:** Prestage 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 Mozdziajk
**Area of Research:** Prestage Poultry Science

Jack Odle
**Area of Research:** Animal Science

Edgar Orlando Oviedo-Rondon
**Area of Research:** Prestage 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

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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

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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