

Nutrition

The Interdepartmental Graduate Program in Nutrition consists of faculty from multiple departments, including:

- Animal Science;
- Agricultural and Human Sciences;
- Food, Bioprocessing, and Nutrition Sciences;
- Horticultural Science;
- Molecular and Structural Biochemistry; and
- The Prestage Department of Poultry Science.

M.S. and Ph.D. students conduct research under the direction of a mutually-agreed upon faculty advisor housed in one of these departments. Faculty research programs primarily focus on:

- Nutritional biochemistry,
- Experimental animal nutrition, or
- Community and public health nutrition.

An advantage of our interdepartmental program, students can engage in research within a variety of species (e.g. horses, ruminants, swine, poultry, rodents, humans) and at various biological levels of organization, such as:

- Molecules, cells, and tissues;
- Organs and organ systems;
- Whole organisms; and
- Communities and populations.

Graduates find employment in academia, government, industry, and non-profit organizations, or continue their education in medical and allied health fields.

Masters Degree Requirements

The Interdepartmental Graduate Program in Nutrition offers two types of Masters Degrees.

- The Master of Science (M.S.) in Nutrition requires a minimum of 30 credit hours, including a thesis.
- The Master of Nutrition (M.R.) requires a minimum of 36 credit hours, including a 4-6 credit hour professional practicum tailored to students' individual interests and career goals. Students can complete the Master of Nutrition in either our on-campus or Distance Education program, with an emphasis in either Feed Science or Human Nutrition, and with an option for course work that qualifies as a Professional Science Master's degree.

Doctoral Degree Requirements

The Doctorate of Philosophy (Ph.D.) in Nutrition requires a minimum of 72 credit hours, including a dissertation. 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. Applicants seeking financial support should contact potential faculty advisors directly.

More Information

Interdepartmental Graduate Program in Nutrition Website (<https://cals.ncsu.edu/food-bioprocessing-and-nutrition-sciences/students/graduate/>)

Admission Requirements

To be considered for admission, a student must have:

- B.A., B.S. or M.S. degree, preferably in a science-related area;
- A minimum total undergraduate GPA of 3.0; and
- Successfully completed at least one graduate or undergraduate course in biology and at least one in organic chemistry.

Regardless of application strength, applicants to the M.S. and Ph.D. programs in Nutrition will not be recommended for admission until they have secured a research faculty advisor at NC State and the Director of the Interdepartmental Graduate Program in Nutrition receives a written endorsement from that research faculty advisor. Applicants are responsible for directly contacting faculty in their research area of interest to discuss joining that faculty member's research program.

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.

Applicants with a GPA below 3.0 should contact the Director of the Interdepartmental Graduate Program in Nutrition to discuss how to demonstrate the ability to be successful in this graduate program prior to admission.

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

Application 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

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Faculty

Full Professors

Jonathan C. Allen

Area of Research: Food, Bioprocessing and Nutrition Science

Vivek Fellner

Area of Research: Animal Science

Peter R. Ferket

Area of Research: Prestige Poultry Science

Suzie Goodell

Area of Research: Food, Bioprocessing and Nutrition Science

Jesse Lee Grimes

Area of Research: Prestige Poultry Science

Gabriel Keith Harris

Area of Research: Food, Bioprocessing and Nutrition 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

Andrew Neilson

Area of Research: Food, Bioprocessing and Nutrition 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

Natalie Cooke

Area of Research: Food, Bioprocessing and Nutrition Science

Adam Charles Fahrenholz

April Fogleman

Area of Research: Food, Bioprocessing and Nutrition Science

Lindsey Haynes-Maslow

Area of Research: Agriculture and Human Sciences

Massimo Iorizzo

Area of Research: Horticultural Science

Slavko Komarnytsky

Area of Research: Food, Bioprocessing and Nutrition Science

Virginia Carraway Stage

Giuseppe Valachhi

Area of Research: Animal Science

Assistant Professors

Kimberly Ange-VanHeugten

Area of Research: Animal Science

Basheerah Enahora

Michael V. Joseph

Area of Research: Animal Science

Arion Kennedy

Area of Research: Molecular and Structural Biochemistry

Ramon Malheiros

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

Emeritus Faculty

Brenda P Alston-Mills

Sarah Liberman Ash

Leonard W. Aurand

Leon Carl Boyd

Leonard S Bull

Edward V. Caruolo

George L. Catignani

Joan Eisemann

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

Muquarrab Ahmed Qureshi

Steven J. Schwartz

Jason C. Shih

Jerry Spears

Harold E. Swaisgood

Lon Weidner Whitlow

Affiliate Professors

Katherine Patterson Maloney

Michael Martin

Anneke Moresco