AGRICULTURAL SCIENCES (ANFS)

https://colsa.unh.edu/agriculture-nutrition-food-systems

Overview

Degrees offered: Master of Science (M.S.) and Doctor of Philosophy (Ph.D.)

These programs are offered in Durham.

The Department of Agriculture, Nutrition, and Food Systems offers advanced degrees in Agricultural Sciences at the Masters and Doctoral levels.

Emphasis is placed on acquiring basic and practical knowledge and research experience in one or more of the diverse components of plant and animal agriculture and food systems including: breeding and genetics, physiology, environmental interactions, organismal health, cultural systems, including field based, hydroponics, and aquaculture, as well as post-harvest practices. The agricultural sciences graduate programs prepare students to become highly knowledgeable and competent in professional fields related to agriculture, and leaders in collaborative and interdisciplinary efforts to address local, regional, national and/or global agricultural issues.

With a M.S. or Ph.D. in Agricultural Sciences, students may pursue careers in plant and animal agriculture, aquaculture, food production and distribution systems, teaching, public service, research in federal, state, and private organizations, and/or related fields.

Programs

- Agricultural Sciences (M.S.) (http://catalog.unh.edu/graduate/programs-study/agricultural-sciences/agricultural-sciences-ms)
- Agricultural Sciences (Ph.D.) (http://catalog.unh.edu/graduate/programs-study/agricultural-sciences/agricultural-sciences-phd)

Courses

Agriculture, Nutrition, and Food Systems (ANFS)

ANFS 840 - Aquaponics

Credits: 4

Aquaponics integrates aquaculture and hydroponic systems producing fish and plants. The integration of these systems first requires an understanding of the needs for each system. This experiential course will dive into the concept of turning wastes into resources with hands-on growing and management experience in aquaponic food production systems. We will cover the fundamentals, and challenges of integrating recirculating aquaculture and hydroponic systems. Students are required to sign up for one farm day per week.

ANFS 895 - Special Topics

Credits: 1-4

Advanced studies in specific areas of relevance to agriculture, nutrition, and/or food systems. Prereq: permission. Open to COLSA graduate students only.

Repeat Rule: May be repeated for a maximum of 8 credits.

ANFS 899 - Master's Thesis

Credits: 1-10

Master’s thesis research. Cr/F.

Repeat Rule: May be repeated for a maximum of 10 credits.

ANFS 901 - Introduction to Agriculture, Nutrition, and Food Systems Graduate Studies

Credits: 1

This course explores foundational ANFS graduate program expectations (proposed timelines, programmatic requirements, resources, and research opportunities) while modeling collaborative, interdisciplinary, and inquiry-based systems learning. Students will investigate selected topics that permeate across traditional discipline boundaries, thus developing skills ubiquitously applicable to all. Students will sharpen critical thinking, writing and presentation skills to apply systems thinking to graduate research studies. The importance of values, ethics, networking, and work/life balance will be explored.

ANFS 997 - Agriculture, Nutrition, and Food Systems Seminar

Credits: 1

Graduate student, faculty and invited presenters on current topics in agriculture, animal science, plant science, nutritional sciences and food systems. Open to COLSA graduate students only.

Repeat Rule: May be repeated for a maximum of 4 credits.

ANFS 999 - Doctoral Dissertation Research

Credits: 0

Doctoral dissertation research. Cr/F.

Faculty

Please see https://colsa.unh.edu/agriculture-nutrition-food-systems/faculty-staff-directory for faculty.