AGRICULTURE, NUTRITION
AND FOOD SYSTEMS (ANFS)

# Course numbers with the # symbol included (e.g. #400) have not
been taught in the last 3 years.

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.
Grade Mode: Letter Grade

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.
Grade Mode: Letter Grade

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.
Grade Mode:

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.
Grade Mode: Letter Grade

ANFS 933 - Design, Analysis, and Interpretation of Experiments
Credits: 4
Through in-depth consideration of common general linear models used
in the analysis of variance, this course introduces graduate students
to the fundamental concepts and statistical methods necessary to
plan, conduct, and interpret effective experiments. The course provides
an opportunity for graduate students to receive critical input on the
experimental design and analysis of their individual research projects. All
analyses are conducted using the open-source package R; no previous
coding experience is required. Prereq: Intro statistics (e.g. BIOL 528) or
permission of instructor.
Grade Mode: Letter Grade

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.
Grade Mode:

ANFS 999 - Doctoral Dissertation Research
Credits: 0
Doctoral dissertation research. Cr/F.
Grade Mode: