

## Agriculture and Environmental Sciences, PhD

Concentration: Sustainable Animal Production and Health

College of Agriculture & Environmental Sciences

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The Sustainable Animal Production and Health focus area is designed to give doctoral candidates an in-depth look at the challenges facing the animal industry and equip them with the appropriate tools to answer and research questions related to the fields of sustainable animal production and animal health. This program offers guidance in conducting interdisciplinary research in genetics, nutrition, and physiology to name a few, with access to a diverse array of animal species. The goal of this program is to assist future professionals and scientists in developing their capabilities to assess and conduct valid scientific research and practices that will facilitate sustainable food production and promote preventative animal health through an in-depth understanding of agriculture and environmental systems and interdisciplinary approaches.

### Additional Admission Requirements

- At least one degree in a Food, Agricultural, or Environmental Science or closely related discipline.
- Master of Science degree from one of the aforementioned areas with a cumulative GPA of 3.3.
- A Graduate Record Exam (GRE) Aptitude Exam score
- A Personal Statement, current vita, and three professional letters of recommendation (at least one from a former faculty advisor)

### Program Outcomes:

The program will prepare graduates to:

- Apply their critical thinking skills to solve complex issues impacting agriculture
- Demonstrate effective communication skills through project and dissertation work and conference presentations.
- Conduct research or undertake advanced projects in an area of sustainable animal production and health.
- Be active and effective leaders in their professional societies and will demonstrate and model disciplinary expertise.

### Degree Requirements

Total credit hours: 65 (post baccalaureate)

- Core courses (15 credits)
- Seminar (2 credits)
- Dissertation (12 credits)
- Supervised Teaching/Professional Development (3 credits)
- Pass qualifying exam, preliminary exam, and dissertation defense
- In consultation with advisor, take 18 credit hours within sustainable animal production and health (**ANSC 600 – 999**)
- In consultation with the advisor, take 15 credit hours of additional courses relevant to research area\*\*

**\*\*Students who did not take a statistics course within their Master's Degree program will take an introductory statistics class in lieu of one Elective Area course.\*\***