

Effective Date 2019-2020

## Agricultural and Environmental Systems - Integrated Animal Health Systems, MS

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College of Agriculture & Environmental Science

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The Master of Science in Agricultural and Environmental Systems - Integrated Animal Health Sciences is designed to provide a solid foundation of fundamental biological and biochemical principles within the areas of biotechnology, breeding and genetics, microbiology, nutrition, physiology and toxicology. Thesis research or a project is conducted in the laboratories of faculty research advisors in the areas of biotechnology, immunology, microbiology, nutrition and physiology in poultry and livestock production (swine, goat, sheep, dairy and beef cattle) for sustainable agricultural and environmental systems.

### **Additional Admission Requirements**

- Baccalaureate degree in animal science, agriculture or other related STEM area. Unconditional admission requires an undergraduate degree in animal sciences or a closely related discipline that includes work with lab or farm animals

### **Program Outcomes:**

- To develop abilities to assess and conduct valid scientific research and practices that will facilitate sustainable food production
- To develop understanding of agricultural and environmental systems and interdisciplinary approaches for improved animal health, management and well being

### **Degree Requirements**

- Core courses (9 credit hours): AGRI 604/ABM 705, AGRI 700, 780.

#### Thesis option

- Select 15 credit hours from ANSC courses with approval of advisor
- Thesis (ANSC 797: 6 credits)
- Pass thesis defense.

#### Project option

- Select 15 credit hours from ANSC courses with approval of advisor
- Select 3 credit hours from any discipline with approval of advisor
- Project (ANSC 796: 3 credits)

