Discover opportunities to experience research and outreach opportunities in the following areas:

**Research:**
- Agricultural Systems
- Environmental Systems
- Food Systems
- Aquaculture Systems

**Communities and Outreach Engagements:**
- Family and Consumer Sciences
- 4-H and Youth Development
- Small Farms
- Community Resource Development
- Health Education
- Agriculture and Natural Resources
- Environmental Stewardship
- Ag Entrepreneurship

**Prospective Students**
To request more information concerning applying to Kentucky State University, see our web page at:
http://www.kysu.edu/hubs/prospectivestudents.htm

**Financial Aid, Scholarships, and Other Opportunities**
KSU offers merit and need-based financial assistance. Merit and work study positions may also be available through the assistance of the College of Agriculture, Food Science and Sustainable Systems. Information on a wide variety of financial aid opportunities can be accessed at:
http://www.kysu.edu
http://www.kysu.edu/admissions
http://www.kysu.edu/CAFSSS

**Contact:**
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Educational programs of the Kentucky Cooperative Extension System serve all people regardless of race, color, age, sex, religion, disability, or national origin.

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Baccalaureate Degree in Agriculture, Food, and Environment (AFE)
Options for the Baccalaureate Degree in Agriculture, Food, and Environment

Today's world needs people prepared to solve global challenges related to agribusiness, climate change, a safe and reliable food supply, protection of natural resources, improved nutrition, public health, and alternative energy sources. Increased demand is expected for agricultural inspectors, environmental scientists and specialists, including health, agriculturists and food scientists, soil and plant scientists, conservation scientists, forest and conservation technicians, agricultural and environmental law, public and agricultural policy, fisheries and wildlife, economic development, and agricultural communications.

A degree from the College of Agriculture, Food Science, and Sustainable Systems will prepare graduates for a variety of jobs in these fields. The baccalaureate degree program in Agriculture, Food, and Environment has four Options in Agricultural, Food, Environmental, and Aquaculture Systems.

### Agricultural Systems
**Option in Agricultural Systems** prepares students for a range of occupations in the field of agriculture and requires the courses:

- AEC 305 Food and Ag Marketing Principles
- AFE 318 Environmental Entomology
- AFE 334 Soil Science
- AFE 445 Agriculture & Energy

Acceptable option electives:
- AFE 425 Organic Agriculture
- AFE 435 Urban Agriculture
- AFE 440 Ornamental & Landscape Plants
- AQU 480 Introduction to Geographic Information Systems

### Food Systems
**Option in Food Systems** prepares students for food nutrition and safety areas and requires the courses:

- FNU 104 Basic Nutrition
- AFE 455 Food Microbiology and Safety
- AFE 465 Food Systems
- BIO 302 General Microbiology

Acceptable option electives:
- BIO 303 Human Physiology
- AFE 435 Urban Agriculture
- AFE 445 Agriculture and Energy
- NUR 412 Vulnerable Populations
- BIO 408 Cell Biology

### Environmental Systems
**Option in Environmental Systems** prepares students for careers in protecting the environment and requires the courses:

- BIO 316 Ecology
- AQU 480 Introduction to Geographic Information Systems
- AFE 334 Soil Science
- AFE 318 Environmental Entomology or
- AQU 413 Aquatic Ecology

Acceptable option electives:
- AFE 425 Organic Agriculture
- BIO 417 Ecological Field Methods
- AFE 445 Agriculture and Energy

### Aquaculture Systems
**Option in Aquaculture Systems** prepares students in the area of fish production and requires the courses:

- AQU 411 Fish Disease
- AQU 421 Fish Nutrition
- AQU 422 Principles of Aquaculture
- AQU 460 Water Quality Management

Acceptable option electives:
- AQU 412 Fish Morphology and Physiology
- AQU 425 Aquaculture Economics and Marketing
- AQU 427 Fish Reproduction and Spawning Techniques