

Overview

***A new program
will cut across
traditional
academic***

***disciplines to train Kentucky
graduates in environmental
problem-solving.***



Courses

Students will complete 36 credits, including a 6-credit capstone project.

CORE COURSES (21 credit hours)

The core curriculum deals with the interaction between environmental science and current environmental issues along with the development of appropriate policy responses.

ENV 501: Introduction to Environmental Studies
ENV 502: Population and Community Ecology
ENV 503: MES Student Team Project
ENV 509/AQU 509: Biostatistics
ENV 511: Energy and the Environment
ENV 699: MES Capstone Project

ELECTIVE COURSES (15 credit hours, choose five). Electives offer opportunities to develop specialized expertise.

ENV 508: Introduction to Geographic Information Systems
ENV 513/AQU 513: Aquatic Ecology
ENV 515: Environmental Ethics
ENV 517: Environmental and Resource Economics
ENV 519: Sustainable Agriculture Systems
ENV 545: Molecular Techniques for Environmental and Aquatic Studies
ENV 595: Environmental Science & Bioremediation

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Masters in Environmental Studies at KSU



Image: High school intern Bryant Harvey conducts soil microbial analysis in one of KSU's many well-appointed research laboratories.

A Growing Need

Global ecological problems will be among the biggest challenges of the next millennium. Such problems include:

- Climate change;
- Habitat loss;
- Air and water pollution;
- Food contamination; and
- Species loss

The search for solutions will demand creative, and holistic thinking. KSU's Masters in Environmental Studies Program will help train graduates who can make the necessary connections between disciplines for applied problem-solving.

Students

Traditional and non-traditional students will enter the MES program from a range of backgrounds:

- Physical and natural sciences
- Social sciences
- Engineering
- Education
- State employment

Resources

As a Land Grant University with a liberal studies mission and a commitment to Stewardship of Place, KSU is well-suited for the Commonwealth's only Masters in Environmental Studies program.

Resources that will help the program succeed include:

- A 300-acre Environmental Education Center
- A 300-acre Research and Demonstration Farm
- A Geographic Information Systems Laboratory
- Numerous research laboratories

Collaborations

- Kentucky Energy and Environmental Cabinet
- KSU Organic Agriculture Working Group
- Seed funding provided by Kentucky Environmental Education Council and US Department of Agriculture



- Top left: Topographic map of KSU Environmental Education Center, created at KSU's new Geographic Information System laboratory
- Top center: Non-traditional student Margaret Johnson celebrates Earth Day by removing invasive species at the site of an historic springhouse on the KSU campus
- Mid center: The same springhouse, circa 1917, when KSU was a teacher training college for African-Americans. The structure is being restored to demonstrate appropriate technology from KSU's past
- Mid right: KSU aquaculture students harvest fish
- Bottom left: KSU student John Rodgers is helping to test natural chemicals from mustards to control soil-borne plant diseases (insets) without synthetic pesticides.