IMAGINE you can...

✦ Make a difference in the world.
✦ Address complex questions.
✦ Develop innovative solutions to solve some of the world’s critical challenges.
✦ Find your future in the College of ACES!

CONCENTRATIONS

AGRICULTURAL ENGINEERING
Physical and biological sciences are integrated as a foundation for engineering application in the design of systems for renewable energy, off-road equipment, water quality, and the utilization and protection of soil and water resources. Within the agricultural engineering concentration, students specialize in:
✦ Renewable Energy Systems
✦ Off-Road Equipment Engineering
✦ Soil and Water Resources Engineering

BIOLOGICAL ENGINEERING
Life sciences are integrated with engineering in the advancement and application of fundamental concepts of biological systems, from molecular to ecosystem levels. Within the biological engineering concentration, students specialize in:
✦ Bioenvironmental Engineering
✦ Ecological Engineering
✦ Food and Bioprocess Engineering
✦ Nanoscale Biological Engineering

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Agricultural and Biological Engineering

The Agricultural and Biological Engineering major is a joint program between the College of ACES and the College of Engineering, which leads to a bachelor of science in agricultural and biological engineering from the College of Engineering. Coursework includes basic and advanced engineering principles, agricultural engineering, biological and related agricultural sciences, and other technical subjects.

For students interested in additional agricultural science coursework, a five-year program of study is available that provides dual bachelor of science degrees from the College of Engineering and the College of ACES. The courses provide the same comprehensive education as the four-year program and include an additional year of related agricultural, physical, and biological science courses.

**AREAS OF EMPLOYMENT**

As agricultural or environmental engineers, ABE graduates are prepared for a broad range of career opportunities in many areas, including these:

- Bio-Based Processing and Production Systems
- Biomass and Renewable Energy
- Precision and Information Agriculture
- Agricultural and Biosystems Management
- Agricultural Safety and Health
- Food Quality and Safety
- Environmental Stewardship
- Land and Water Resources
- Spatially Distributed Systems
- Structure and Facilities for Living Systems
- Indoor Environmental Control
- Biosensors, Bioinstrumentation, Bioinformatics, and Bionanotechnology
- Intelligent Machinery Systems
- Automation of Biological Systems
- Advanced Life Support Systems

**COLLEGE OF ACES OPPORTUNITIES**

**SCHOLARSHIPS:** Students in the College of ACES receive more than $2 million in scholarships every year.

**STUDY ABROAD:** More than one-third of students in the College of ACES include at least one international learning experience in their curriculum.

**LEADERSHIP:** Student organizations, internships, and community service opportunities teach students important leadership skills.

**TO LEARN MORE: CONTACT:**

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